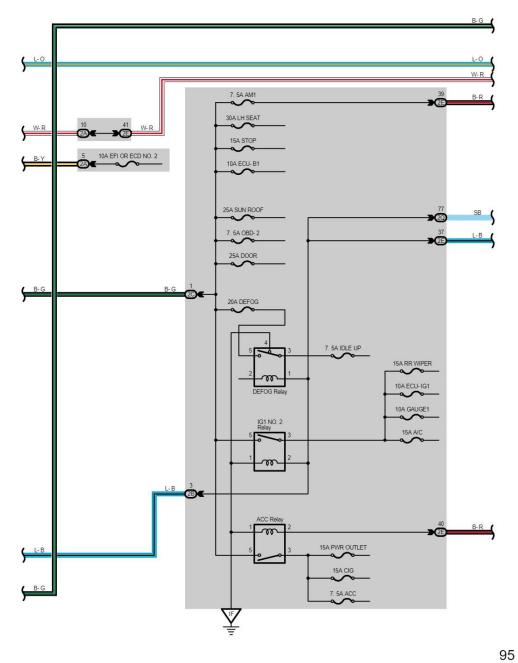
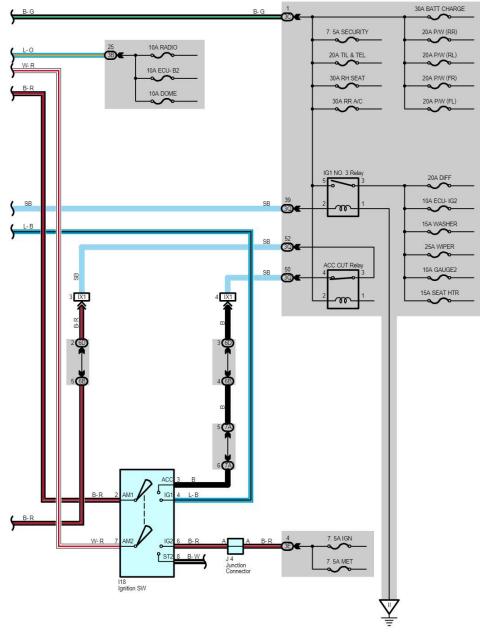


2005 LAND CRUISER (EWD601U)





Service Hints

I18 Ignition SW

2-3 : Closed with ignition SW at ACC or ON position
2-4 : Closed with ignition SW at ON or ST position
7-6 : Closed with ignition SW at ON or ST position
7-8 : Closed with ignition SW at ST position

O : Parts Location

Code		See Page	Co	de	See Page	Code	See Page	
F15	Α	68	F18	D	68	J4	71	
F16	В	68	F19	Е	68			
F17	С	68	11	8	70			

: Relay Blocks

	Code	See Page	Relay Blocks (Relay Block Location)
Γ	1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

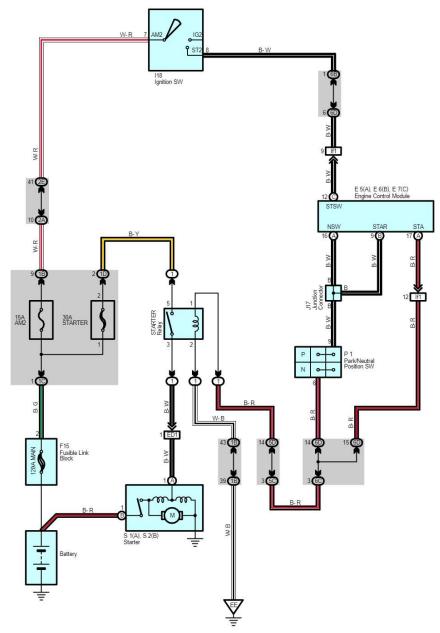
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	0.4	F
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	1	
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2C	7	1000
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	140	E D
3C	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
6B	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7A	64	Dash Wire and J/B No.7 (Behind the Glove Box)

: Connector Joining Wire Harness and Wire Harness

	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
Γ	IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

: Ground Points

Code	See Page	Ground Points Location
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
- 11	78	Set Bolt of Cowl Side J/B RH



Service Hints

118 Ignition SW

7-8 : Closed with ignition SW at ST position

P1 Park/Neutral Position SW 6-9: Closed with A/T shift lever in P or N position

S1 (A), S2 (B) Starter

Points closed with Park/Neutral position SW at P or N position and ignition SW at ST position

O : Parts Location

Co	ode	See Page Code See Page		Code		See Page	
E5	Α	70	F15	68	F	1	69
E6	В	70	I18	70	S1	А	69
E7	С	70	J17	71	S2	В	69

☐ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

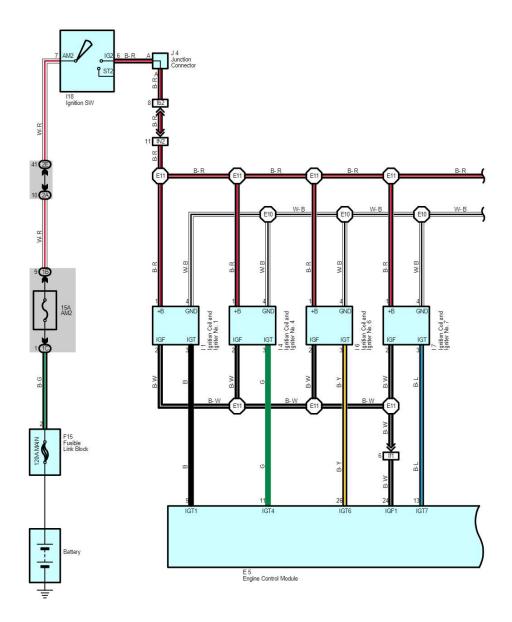
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B		
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6B	00	
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

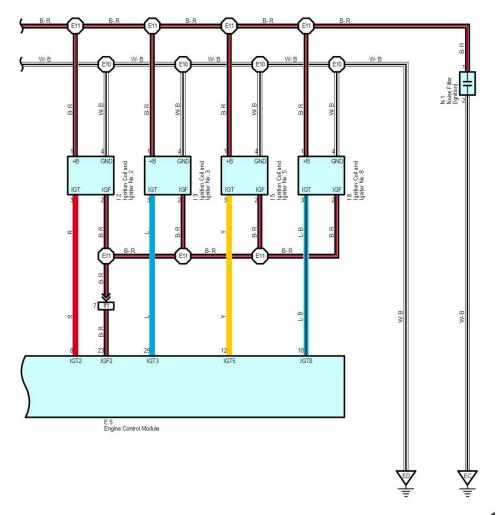
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	76	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)

: Ground Points

100	Code	See Page	Ground Points Location	
	FF	76	Front Left Side of Fender Apron	





2005 LAND CRUISER (EWD601U)

Ignition

Service Hints

I18 Ignition SW
7-6: Closed with ignition SW at ON or ST position

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
E5	70	14	69	I18	70
F15	68	15	69	J4	71
11	69	16	69	N1	69
12	69	17	69		
13	69	18	69		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1B	0.4	5 . D. W. W 15 . D 10.5 . D	
1C	- 24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)	
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)	
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

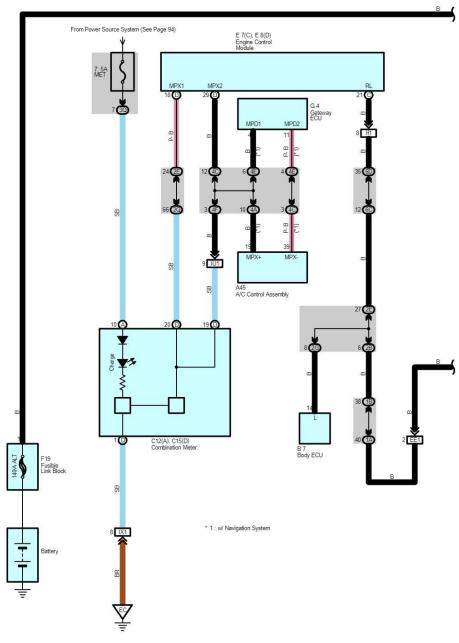
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)

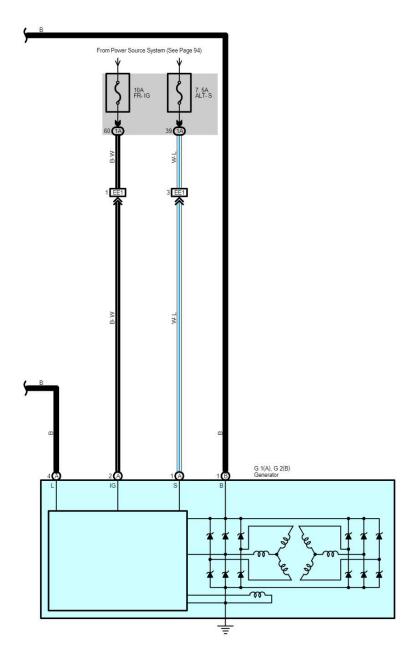
: Ground Points

Code	See Page	Ground Points Location	
EC	76	Rear Bank of Right Cylinder Head	
ED	76	Rear Bank of Left Cylinder Head	

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire	E11	76	Engine Wire





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Charging

Service Hints

G2 Generator

1-Ground : 13.2-14.0 volts with engine running at 5000 rpm and 115 $^{\circ}\text{C}$ (239 $^{\circ}\text{F})$

O : Parts Location

Co	de	See Page	Co	ode	See Page	Co	de	See Page
A4	45	70	E7	С	70	G2	В	68
В	7	70	E8	D	70	G	4	70
C12	Α	70	F	19	68			
C15	D	70	G1	Α	68			

: Junction Block and Wire Harness Connector

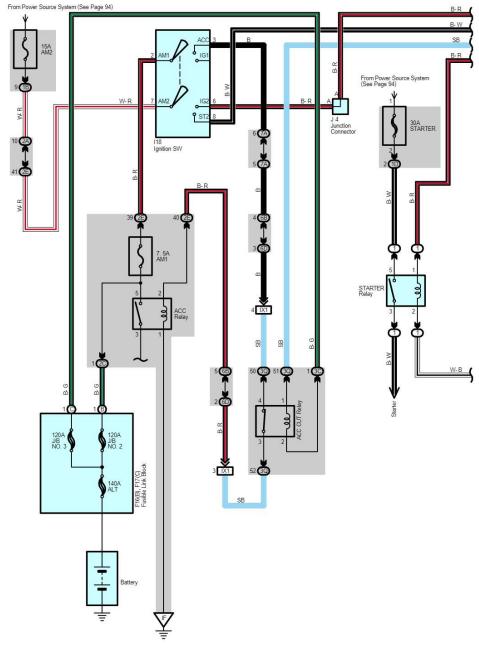
Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	00	D 1 W 10 10 1 W 10 11 W 10 10 W			
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4C	-				
4E	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4F					
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			

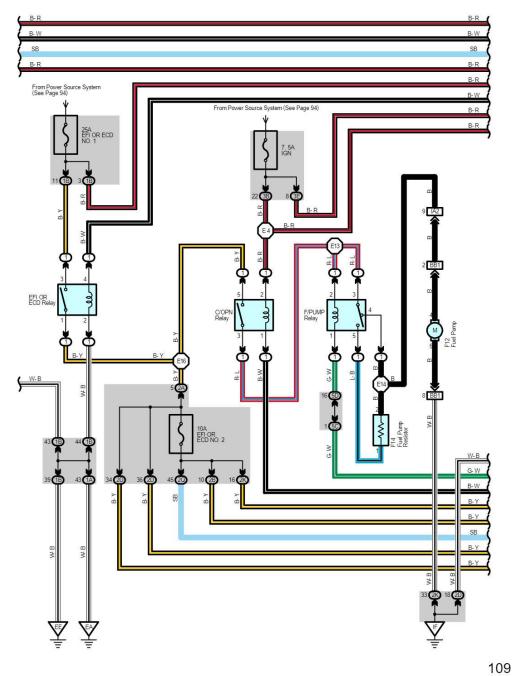
: Connector Joining Wire Harness and Wire Harness

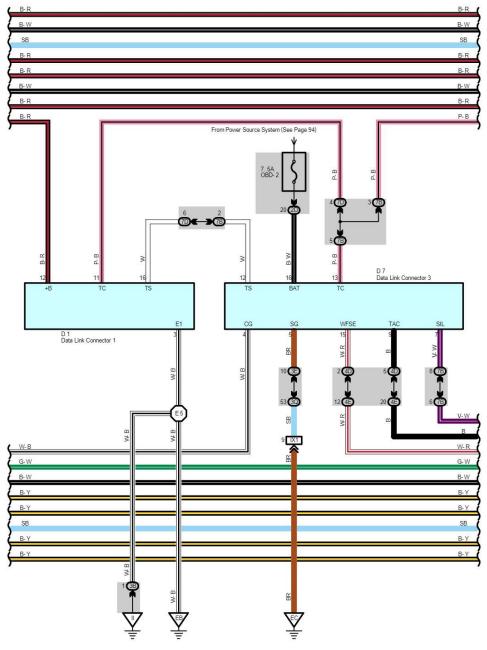
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)	
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)	
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)	

: Ground Points

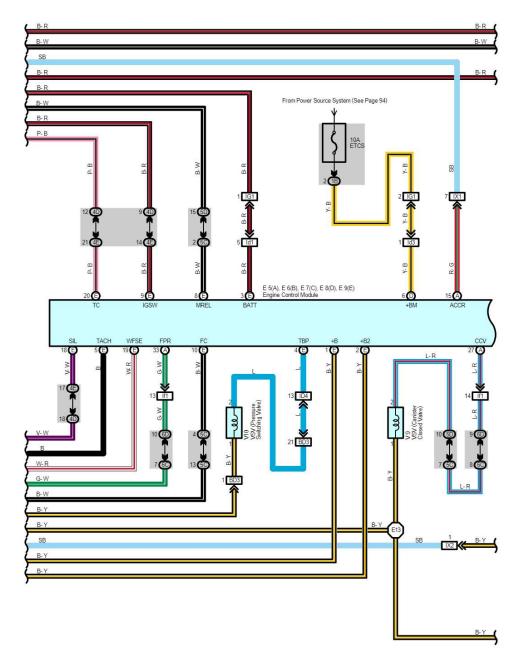
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head



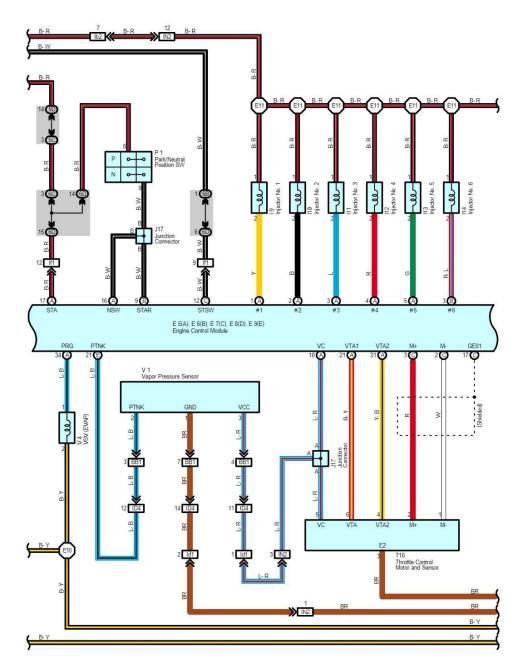


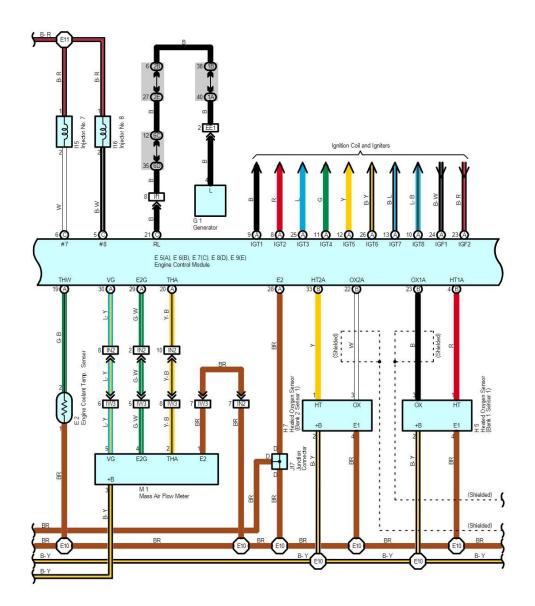


2005 LAND CRUISER (EWD601U)

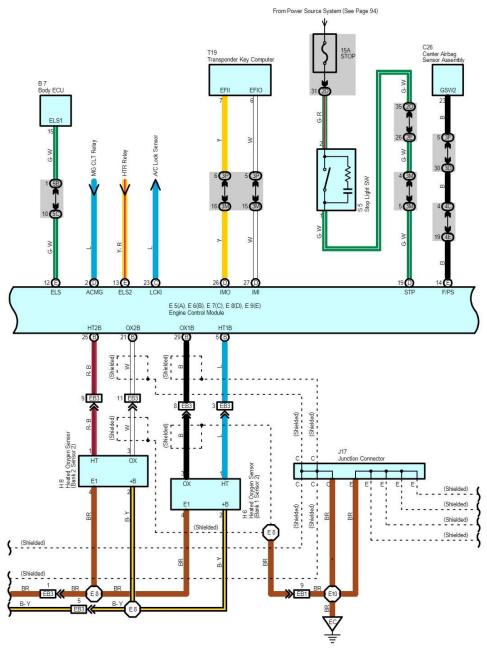


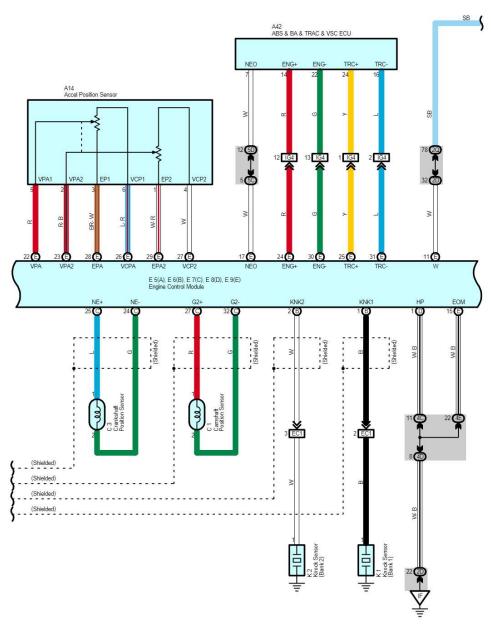
2005 LAND CRUISER (EWD601U)



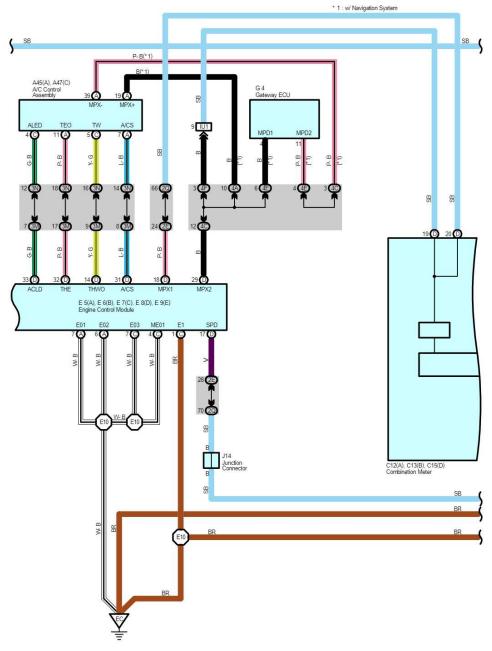


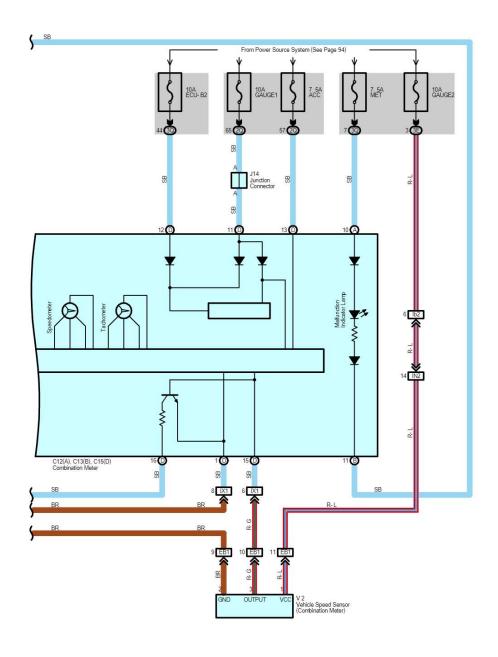
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2005 LAND CRUISER (EWD601U)





2005 LAND CRUISER (EWD601U)

System Outline

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. Input Signals

(1) Engine coolant temp. signal circuit

The engine coolant temp, sensor detects the engine coolant temp, and has a built-in thermistor with a resistance which varies according to the engine coolant temp. The engine coolant temp, is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine control module.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OX1A, OX1B, OX2A, OX2B of the engine control module.

(4) RPM signal circuit

The camshaft position is detected by the camshaft position sensor and is input into TERMINAL G2+ of the engine control module as a control signal. Also, the engine RPM is detected by the crankshaft position sensor and the signal is input into TERMINAL NE+ of the engine control module.

(5) Throttle position sensor signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1, VTA2 of the engine control module.

(6) Vehicle speed circuit

The vehicle speed sensor (Combination meter) detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the ignition SW is turned on, the voltage for engine control module start up power supply is applied through the EFI OR ECD relay, to TERMINALS +B, +B2 of the engine control module. The current from the IGN fuse flows to TERMINAL IGSW of the engine control module, and voltage is constantly applied to TERMINAL +BM.

(8) Intake air volume signal circuit

The intake air volume is detected by the mass air flow meter, and is input as a control signal to TERMINAL VG of the engine control module.

(9) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not, and the signal is input into TERMINAL STP of the engine control module as a control signal.

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor when the engine is cranking is detected, and is input into TERMINAL STA of the engine control module as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by the knock sensors, and is input into TERMINALS KNK1, KNK2 of the engine control module as a control signal.

2. Control System

SFI system

The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #1, #2, #3, #4, #5, #6, #7, #8 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving

ESA system

The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5, IGT6, IGT7, IGT8, and these signals control the igniter to provide the best ignition timing.

Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HT1A, HT2B, HT2A, HT2B to control the heater.

Fuel pump control system

The engine control module supplies current to TERMINAL FPR, and controls the operation speed of the fuel pump by the F/PUMP relay.

The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.

The ETCS-i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.

3. Diagnosis System

When there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed on the malfunction indicator lamp.

When a malfunction has occurred in any system, there is a possibility of causing engine trouble due to continued control based on that system. In that case, the fail-safe system either controls the system using the data (Standard values) recorded in the engine control module memory, or else stops the engine

Service Hints

E2 Engine Coolant Temp. Sensor

1-2 : Approx. 15.0 kΩ (-20°C, -4°F) : Approx. 2.45 kΩ (20°C, 68°F) : Approx. 0.32 kΩ (80°C, 176°F)

E5 (A), E7 (C), E8 (D), E9 (E) Engine Control Module

BATT-E1: Always 9.0-14.0 volts +BM-E1: Always 9.0-14.0 volts

IGSW-E1: 9.0-14.0 volts with ignition SW at ON or ST position +B, +B2-E1: 9.0-14.0 volts with ignition SW at ON or ST position

VC-E2: 4.5-5.5 volts with ignition SW on VTA2-E2: 2.0-2.9 volts with ignition SW on and accelerator pedal released

4.6-5.1 volts with ignition SW on and accelerator pedal depressed

VTA1-E2: 0.4-1.0 volts with ignition SW on and accelerator pedal released: 3.2-4.8 volts with ignition SW on and accelerator pedal depressed

THA-E2: 0.5-3.4 volts with idling, intake air temp. 20°C (68°F)

THW-E2 : 0.2-1.0 volts with idling, engine coolant temp. 80°C (176°F) W-E1 : 9.0-14.0 volts with idling

: Below 3.0 volts with ignition SW on

Engine Control

O : Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A1	14	70	E9	Е	70	I16	69
A	12	70	F	12	72	118	70
A45	Α	70	F:	14	68	J4	7.1
A47	С	70	F16	В	68	J14	71
В	7	70	F17	С	68	J17	71
С	1	68	G	1	68	K1	69
С	3	68	G	4	70	K2	69
C12	Α	70	Н	15	69	M1	69
C13	В	70	H	16	69	P1	69
C15	D	70	Н	17	69	S5	71
C	26	70	H	18	69	T16	69
D	1	68	1	9	69	T19	71
D	7	70	- 11	10	69	V1	73
Е	2	68	11	11	69	V2	69
E5	Α	70	11	12	69	V4	69
E6	В	70	11	13	69	V9	69
E7	С	70		14	69	V10	73
E8	D	70	11	15	69		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
1D	24	Engine Room No.2 Wile and Engine Room of Lengine Compartment Lett)
2A		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2C		
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E		0-052/dises (5-020)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3C	× 3.	, ,
3D	40	— Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E		
3F	-	
3M 3N	40	
3P	43	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	12	modulion and modulion will and commodulo be that (high related and)
4C	-	
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E	-	bush who and the remainder and contacty
4F	1	
5B		
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)
6B	100	
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)
7A	64	Deep Wire and I/P No 7 (Pakind the Crave Pay)
7B	7 04	Dash Wire and J/B No.7 (Behind the Grove Box)
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)

Engine Control

: Connector Joining Wire Harness and Wire Harness

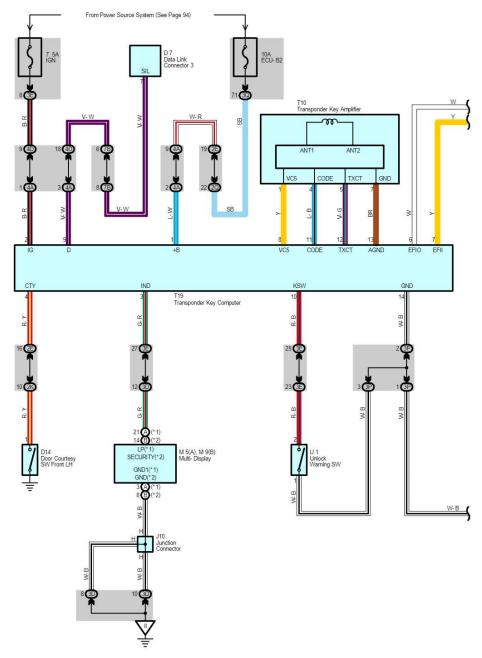
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)		
EB1	76	5 1 W 1		
EB3	76	Engine Wire and Transmission Wire (On the Transmission)		
EC1	76	Engine No.2 Wire and Engine Wire (On the Transmission)		
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)		
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)		
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)		
IG1	170			
IG4	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)		
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)		
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)		
IW3	82	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)		
IX1	00	Indiana de Daniel Indiana de la Mésa and Francis a Mésa (Dahind de Olava Bar)		
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)		
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)		
ld1	0.4	B I W A I B I W A I B I G I I I		
ld3	84	Dash Wire and Dash Wire (Instrument Panel Center)		
lf1	84	Engine Wire and Engine Wire (Behind the Glove Box)		
BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)		
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)		

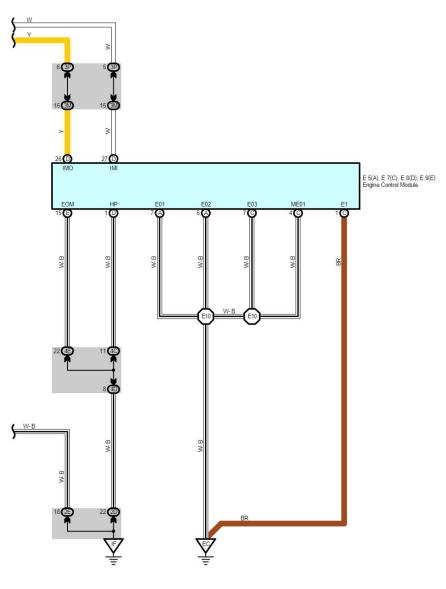
: Ground Points

Code	See Page	Ground Points Location
EA	70	For all Digital City of Forder Assess
EB	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
П	78	Set Bolt of Cowl Side J/B RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
E4	76	Engine Room No.2 Wire	E11	76	Engine Wire	
E5	76		E13			
E8	76	Transmission Wire	E14	76	Engine Room No.2 Wire	
E10	76	Engine Wire	E16	1		





2005 LAND CRUISER (EWD601U)

Engine Immobilizer System

Service Hints

T19 Transponder Key Computer

1-Ground: Always approx. 12 volts 2-Ground: Approx. 12 volts with ignition SW at ON or ST position 14-Ground: Always continuity

O : Parts Location

Co	ode	See Page	Co	de	See Page	Co	de	See Page
)7	70	E8	D	70	M9	В	71
D	14	72	E9	Е	70	Т	10	71
E5	Α	70	J	10	71	Т	19	71
E7	С	70	M5	Α	71	U	1	71

: Junction Block and Wire Harness Connector

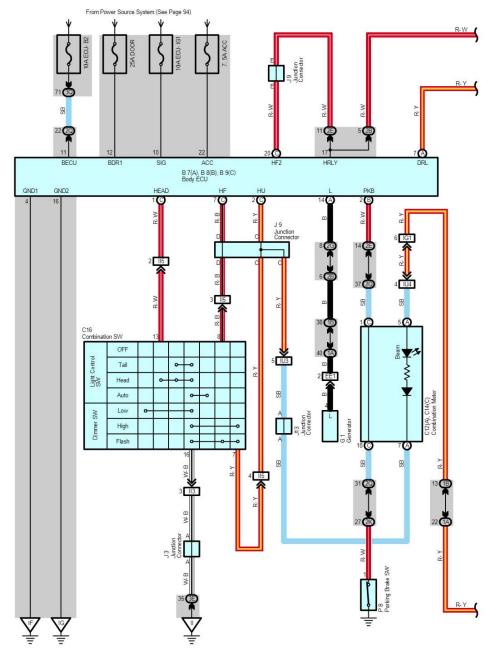
Code	See Page	Junction Block and Wire Harness (Connector Location)			
2D		Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	28				
2K	28	or No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D	10000	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3E	40				
3M	v c				
3P	43				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A		Dash Wire and J/B No.4 (Instrument Panel Center)			
4C	52				
4D					
4E	1				
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)			

: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
Ш	78	Set Bolt of Cowl Side J/B RH

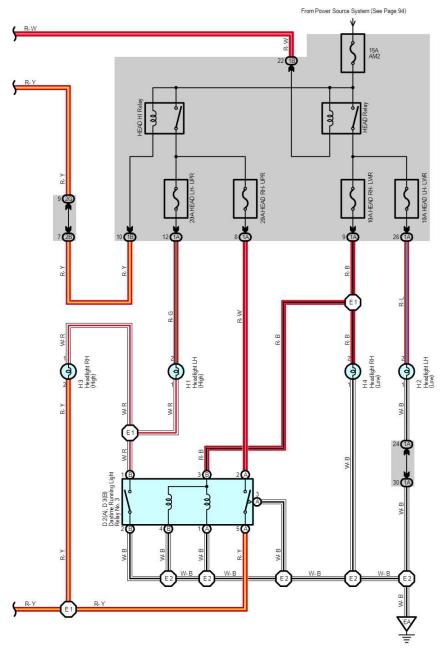
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire			



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2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)

Headlight

System Outline

Daytime Running Light Operation

When the engine is started, a signal from the generator is input into TERMINAL (A) 14 of the body ECU. At this time, if the parking brake lever is pulled up (Parking brake SW ON), the body ECU is not activated, and the daytime running light system does not operate.

When the parking brake lever is released (Parking brake SW OFF), a signal is input into TERMINAL (B) 2 of the body ECU. This activates the body ECU and the headlight turns on.

Service Hints

C16 Combination SW

13-16 : Closed with light control SW at HEAD position 8-16 : Closed with dimmer SW at FLASH position 7-16 : Closed with dimmer SW at HIGH or FLASH position

O : Parts Location

Code		See Page	See Page Code		See Page	Code	See Page
B7	Α	70	D2	Α	68	H4	69
B8	В	70	D3	В	68	J3	71
B9	С	70	G	31	68	J9	71
C12	Α	70	Н	11	69	J13	71
C14	С	70	H	12	69	P8	73
C,	16	70	H	13	69		

Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	4 Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E		D. J. W. S. J. O. J. O. J. P. J. J. A. A. K. J. D. S. D.			
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

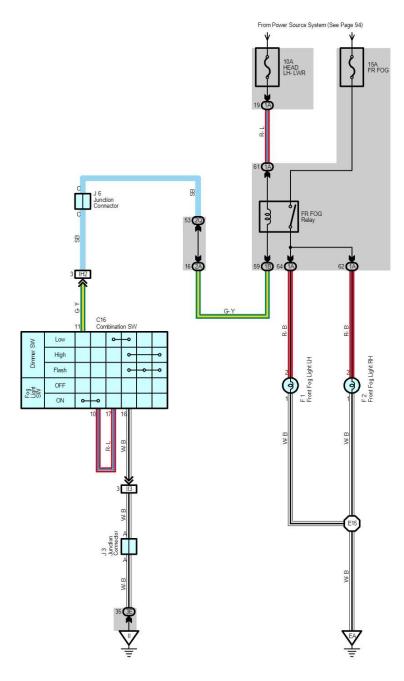
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)			
IG1	78	gine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
II3	00				
II5	80	Dash Wire and Column Wire (Near the Ignition SW)			
IU3	00	Indiana t David Lateration Miles and David Miles (David Alter Oleve David			
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			

: Ground Points

, • ·			
Code	See Page	Ground Points Location	
EA	76	Front Right Side of Fender Apron	
IF	IF	0.15 # 70 - 101 - 1011	
IG	78	Set Bolt of Cowl Side J/B LH	
11	78	Set Bolt of Cowl Side J/B RH	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
E1	76	Engine Room Main Wire	E2	76	Engine Room Main Wire	



Service Hints

C16 Combination SW

11-Ground: Continuity with light control SW at HEAD position, dimmer SW at LOW position and fog light SW at ON position

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
C16	70	F2	68	J6	71
F1	68	J3	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2A	28	ine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	ment Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				

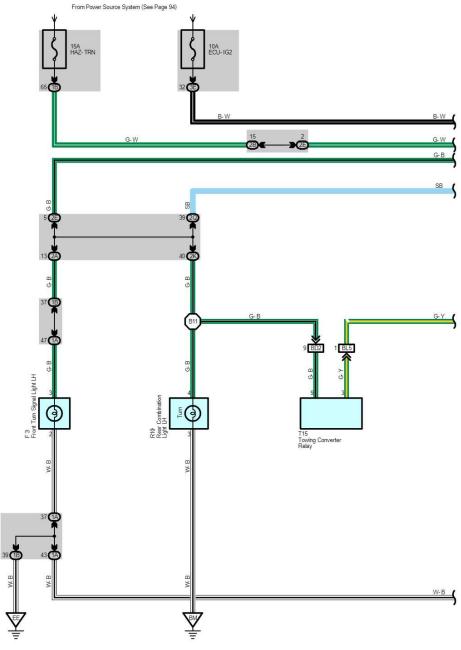
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH2 80 Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)		Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)
II3 80 Dash Wire and Column Wire (Near the Ignition SW)		Dash Wire and Column Wire (Near the Ignition SW)

: Ground Points

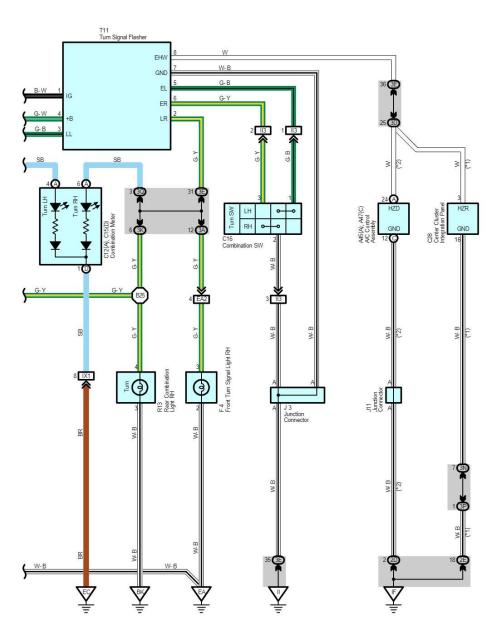
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
Ш	78	Set Bolt of Cowl Side J/B RH

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E15	76	Engine Room Main Wire			



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2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)

Turn Signal and Hazard Warning Light

Service Hints

T11 Turn Signal Flasher

4-Ground : Always approx. 12 volts 1-Ground : Approx. 12 volts with ignition SW at ON or ST position 7-Ground : Always continuity

O : Parts Location

Code		See Page	Code See Page		Code	See Page	
A45	Α	70	C28	70	R10	73	
A47	С	70	F3	68	R13	73	
C12	Α	70	F4	68	T11	71	
C15	D	70	J3	71	T15	73	
C16		70	J11	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2A					
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	28 Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2E	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
ЗА	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3D	40	Destruction 10 10 1 10 DIT (D. 1110 1 Destruction)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3N	40	Death Wise and Could Cide UD DU (District Death)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

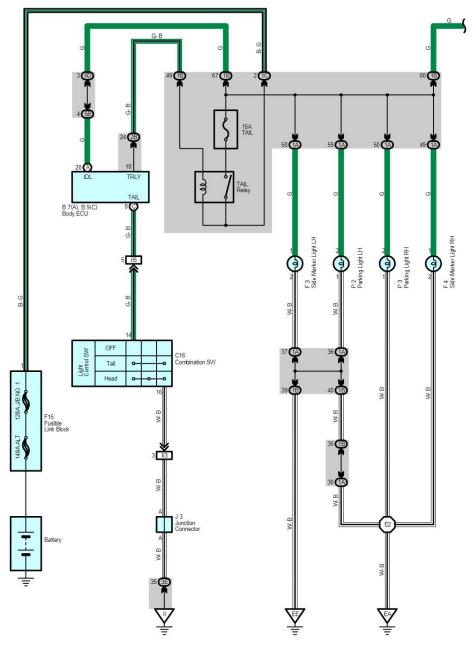
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EA2	EA2 76 Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)		
113	80	Dash Wire and Column Wire (Near the Ignition SW)	
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)	

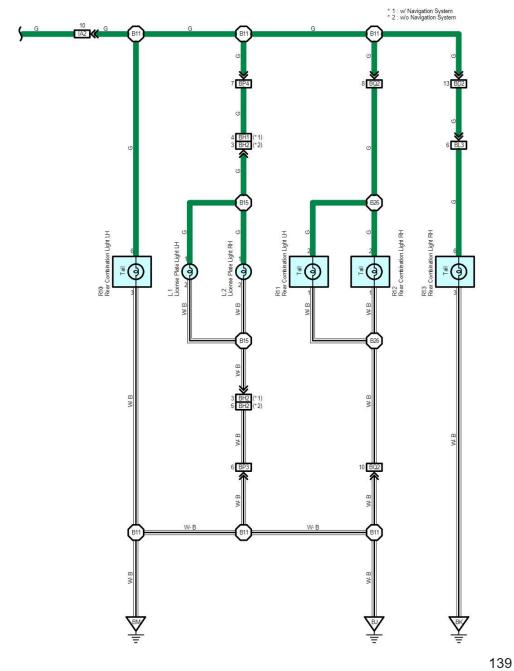
: Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH
11	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

					120
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B25	88	Floor No.2 Wire



2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)

Taillight

Service Hints

C16 Combination SW

14-16 : Closed with light control SW at TAIL or HEAD position

O : Parts Location

Code		See Page	age Code See Page		Code	See Page
B7	Α	70	F15	68	P3	69
B9	С	70	J3	71	R10	73
С	16	70	L1	72	R11	73
F3		68	L2	72	R12	73
F4		68	P2	69	R13	73

: Junction Block and Wire Harness Connector

Code	le See Page Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)		
1B				
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
5B	56	Pash Wire and J/B No.5 (Behind the Combination Meter)		
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)		

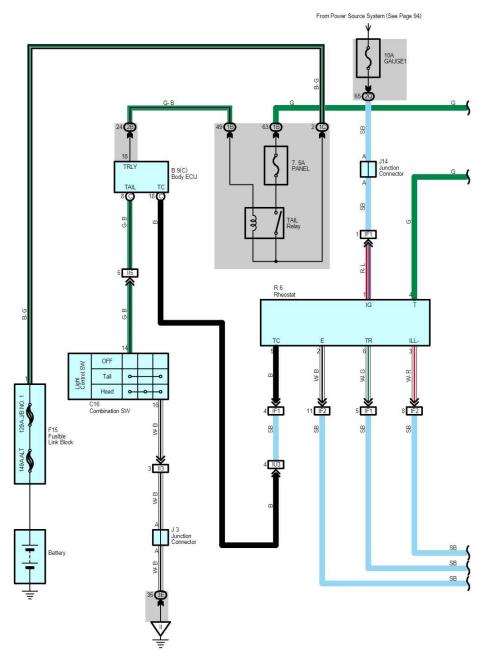
: Connector Joining Wire Harness and Wire Harness

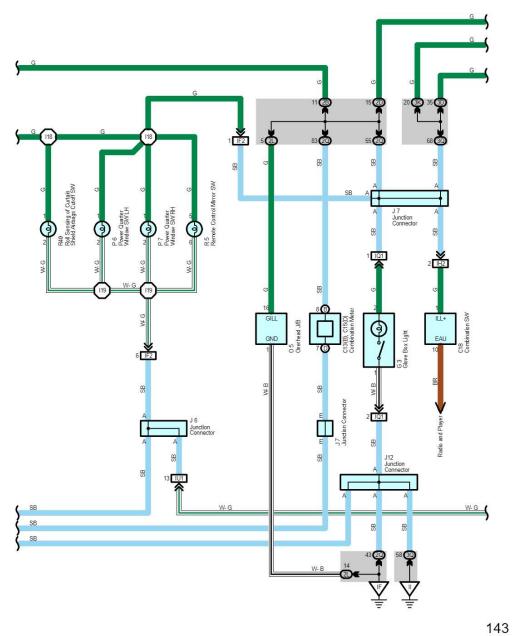
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IA2	A2 78 Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)				
II3	80	Dark Mary and Online Mary All and a last a CMA			
II5		Dash Wire and Column Wire (Near the Ignition SW)			
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1					
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BL3	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BP3		Dill N. A.W J.El. N. A.W (I. O. D C.J. O D N			
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			

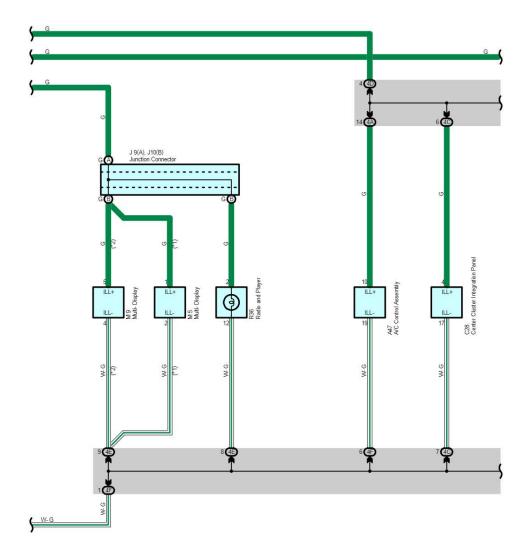
: Ground Points

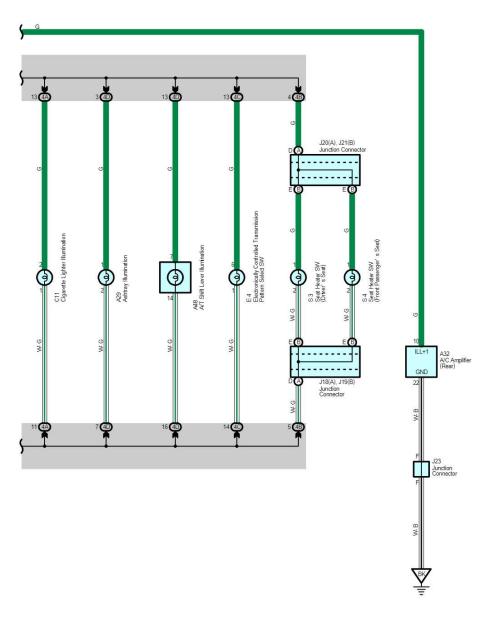
Code	See Page	Ground Points Location	
EA	76	Front Right Side of Fender Apron	
EE	76	Front Left Side of Fender Apron	
II	78	Set Bolt of Cowl Side J/B RH	
BJ	86	Under the Driver's Seat	
BK	86	Front Side Under the Front Passenger's Seat	
BM	86	Left Rear Side Quarter Panel	

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	76	Engine Room Main Wire	B15	88	Back Door Upper Wire
B11	88	Floor No.1 Wire	B26	88	Back Door Lower Wire









2005 LAND CRUISER (EWD601U)

Illumination

Service Hints

C16 Combination SW

14-16 : Closed with light control SW at TAIL or HEAD position

O : Parts Location

Code See Page Code		See Page	Code	See Page			
A29		70	G	3	70	M5	71
A32		72	J	3	71	M9	71
A	47	70	J	6	71	05	72
A	48	70	J	7	71	P6	71
B9	С	70	J9	Α	71	P7	71
C11		70	J10	В	71	R5	71
C13	В	70	J.	12	71	R6	71
C15	D	70	J.	14	71	R36	71
С	16	70	J18	Α	71	R40	71
С	18	70	J19	В	71	S3	71
C28		70	J20	Α	71	S4	71
E4		70	J21	В	71		
F	15	68	J2	23	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1B	0.4	Facing Deep No 2 Wise and Facing Deeps VD /Facing Companyont Leff)				
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3D	40	D 1 Mr 10 10:1 MD DU /D: 1 Mr 1 D 1 M				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4B	7					
4C	7	B 1 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E						
4F	7					

: Connector Joining Wire Harness and Wire Harness

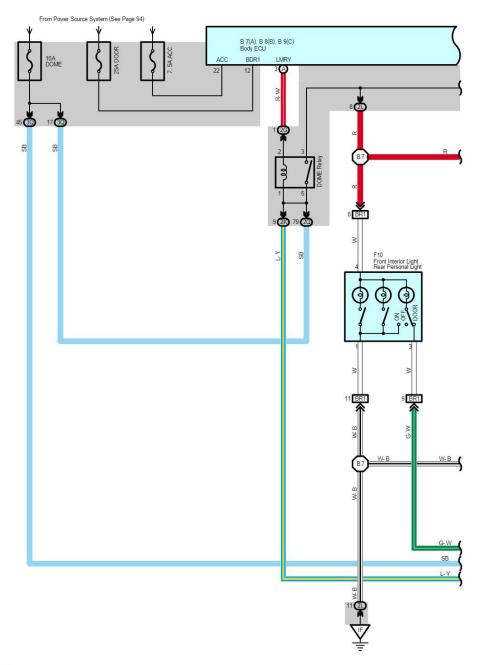
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IF1	701		
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)	
113		D. I. W. C. L. C. L. C. L. C. L. C.	
II5	80	Dash Wire and Column Wire (Near the Ignition SW)	
IQ1	80	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)	
IU1	50		
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)	

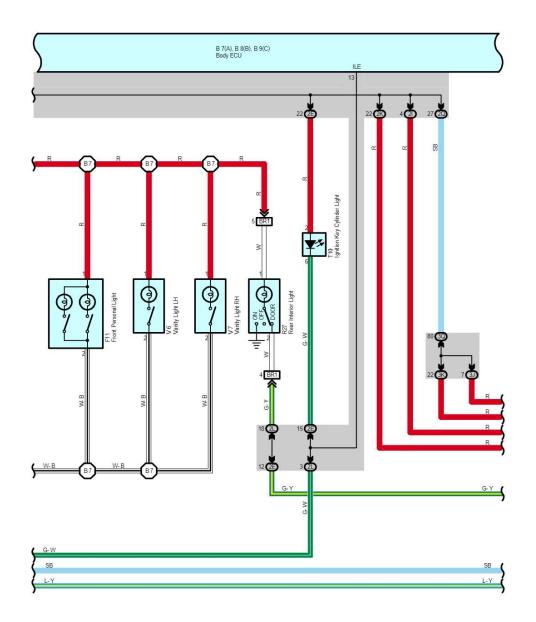
: Ground Points

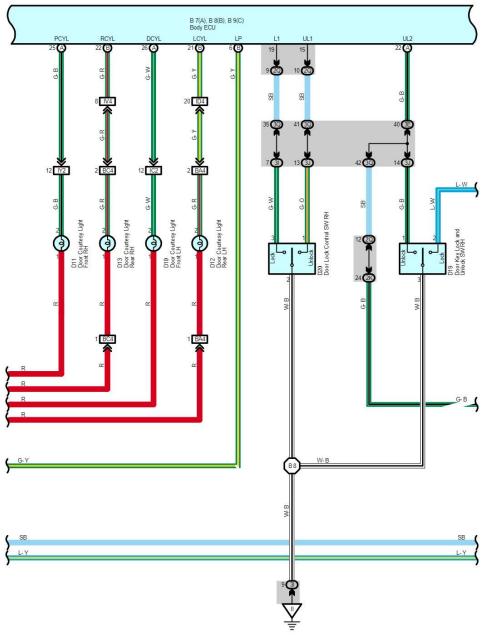
Code	See Page	Ground Points Location	
IF	78	Set Bolt of Cowl Side J/B LH	
11	78	Set Bolt of Cowl Side J/B RH	
BK	86	Front Side Under the Front Passenger's Seat	

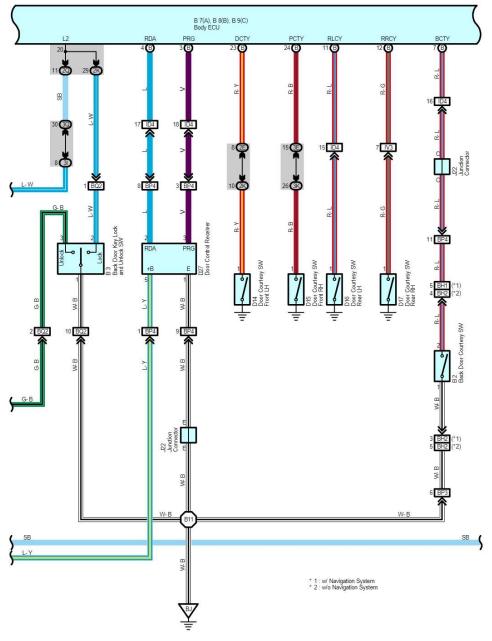


	Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
1	118	80	Instrument Panel Wire	119	80	Instrument Panel Wire

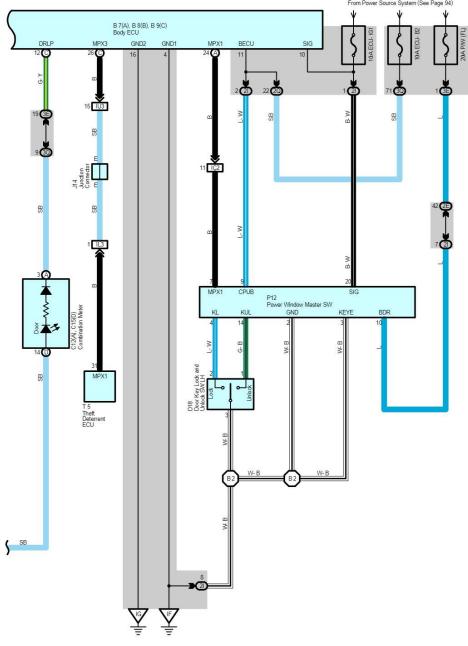








2005 LAND CRUISER (EWD601U)



System Outline

Normal Operation

- When the front Door LH or RH is opened, the door courtesy light front LH, RH and open door warning light is turned on.
 When the front door LH and RH are closed, the door courtesy light front LH, RH is turned off.
 When the rear door LH, RH or the back door is opened, door courtesy light rear LH, RH, rear interior light and the open
- door warning light is turned on. When the rear door LH, RH and back door are closed, the door courtesy light rear LH, RH is turned off.
- When all the doors are closed, the open door warning light is turned off.

Turn Off Function

When the ignition SW turned off and there is no change in the door courtesy SW for approx. 30 minute, the DOME relay is turned off. The DOME relay is turned on again when any of the following conditions are met.

* Ignition SW is turned from OFF position to ACC or ON position

- * Change to any door courtesy SW
- * Driver or front passenger door is unlocked by the key or transmitter

Immediate Turn Off Function at Door Lock

When all the doors are closed, and the driver or front passenger door is locked by the key or transmitter, the DOME relay is turned off, after approx. 80 seconds. However, when the illuminated entry system is operating, the DOME relay is turned off after the operation is completed. the DOME relay is turned on again when any of the following conditions are met.

- Ignition SW is turned from OFF position to ACC or ON position
 Change to any door courtesy SW
- * Driver or front passenger door is unlocked by the key or transmitter

Illuminated Entry System

- When any door is opened, each light is turned on.
- The light remains on for approx. 15 seconds after all doors are closed, and fades out.
 With the ignition SW is at ACC or ON position, and any door open, when all the doors are closed, each light fades out immediately.
- * When the ignition SW is turned to ACC or ON position during timer lighting, each light fades out immediately.
- When the doors are locked during timer lighting, each light fades out immediately.
 The lights include, the front interior light, ignition key cylinder light, and front door courtesy light LH, RH.

O : Parts Location

Со	de	See Page	Code	See Page	Code	See Page
В	2	72	D13	72	F11	72
В	3	72	D14	72	J14	71
B7	Α	70	D15	72	J22	72
B8	В	70	D16	72	P12	73
B9	С	70	D17	72	R27	73
C12	Α	70	D18	72	T5	71
C15	D	70	D19	72	T10	71
D'	10	72	D20	72	V6	73
D.	11	72	D27	72	V7	73
D.	12	72	F10	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
2E	28	Doob Wire and Coul Cide VD LLL (Left Kiels Done)				
2G	20	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
31	40	Forest Dans DI LAKer and Cond Cide UD DI L (Dinkt Vide Dans)				
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				

Interior Light

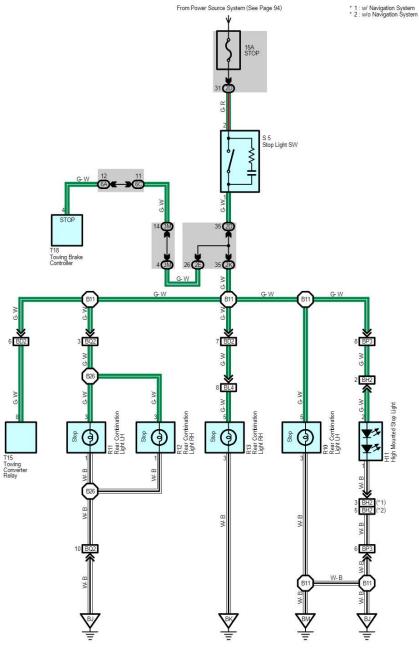
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	15.50	
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BH1		
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BP3	021	
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)

: Ground Points

Code	See Page	Ground Points Location				
IF	78	Set Bolt of Cowl Side J/B LH				
IG	10	Set boit of Cow Side 3/B LH				
II	78	Set Bolt of Cowl Side J/B RH				
BJ	86	Under the Driver's Seat				

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B7	88	Roof No.1 Wire	B11	88	Floor No.1 Wire



2005 LAND CRUISER (EWD601U)

Service Hints

\$5 Stop Light SW
2-1: Closed with brake pedal depressed

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
H11	72	R12	73	T15	73
R10	73	R13	73	T18	71
R11	73	S5	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	20	Death Miss and Could City UD LLL (Left Visit Death)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
6A	00	Destriction and I/D No. O/Delicative Occurs Destriction
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)

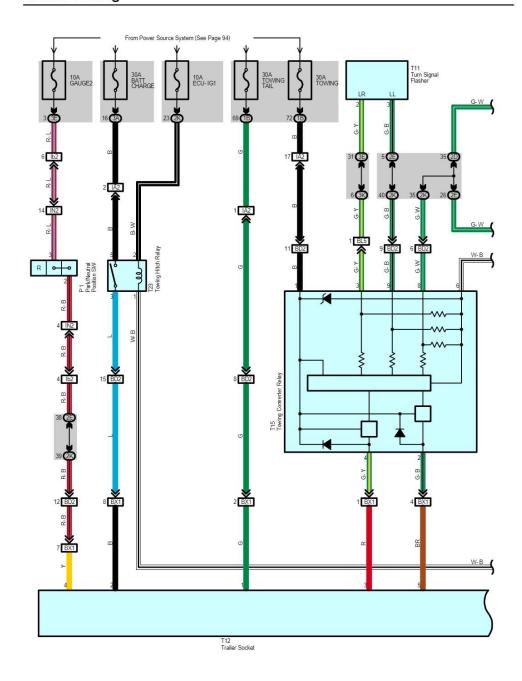
: Connector Joining Wire Harness and Wire Harness

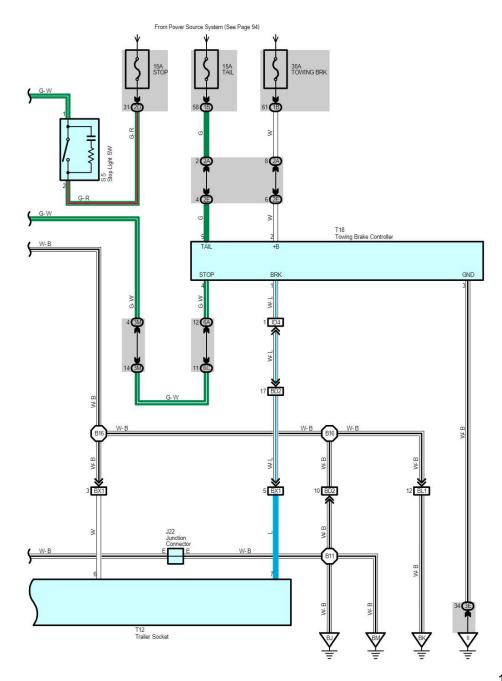
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)	
BL4	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)	
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	

: Ground Points

Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
B11	88	Floor No.1 Wire	B26	88	Back Door Lower Wire	





2005 LAND CRUISER (EWD601U)

Trailer Towing

Service Hints

T15 Towing Converter Relay

1-Ground: Always approx. 12 volts 6-Ground: Always continuity

S5 Stop Light SW

2-1 : Closed with brake pedal depressed

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
J22	72	T11	71	T18	71
P1	69	T12	73	T23	73
S5	71	T15	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	20	Date Miles and Coul City UD III (I all City David)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
ЗА	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
6A		D. L. W
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)

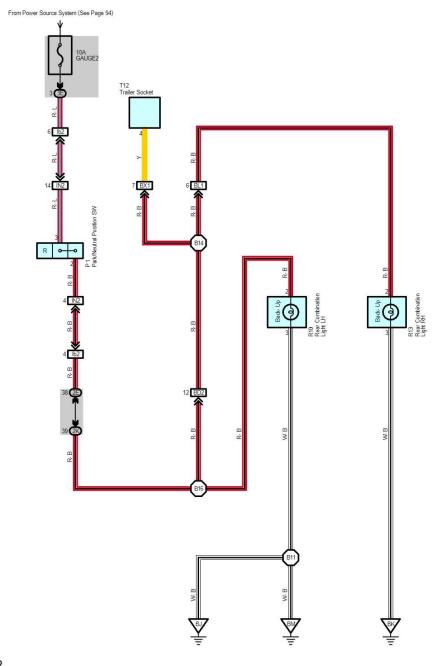
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BL1		
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

: Ground Points

Code	See Page	Ground Points Location
11	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

\sim					
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	98	Floor No 1 Wire	B16	88	Floor No 3 Wire



Service Hints

P1 Park/Neutral Position SW

3-2 : Closed with shift lever at R position

O : Parts Location

	Code	See Page	Code	See Page	Code	See Page
Ī	P1	69	R13	73		
ı	R10	73	T12	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

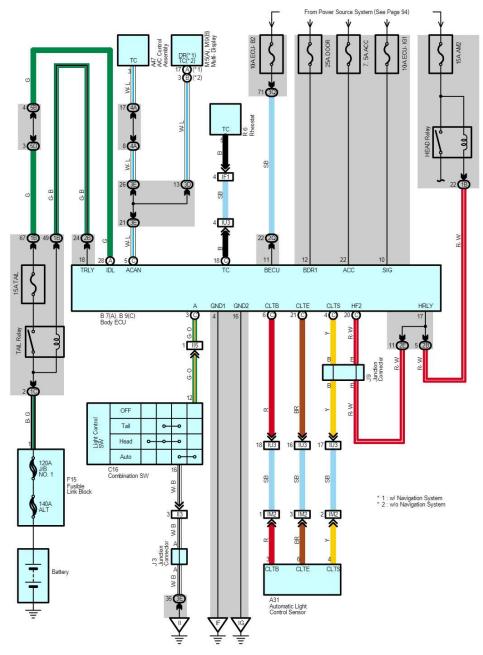
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BX1	88	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)

: Ground Points

Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire	B16	88	Floor No.3 Wire
B14	88	Floor No.2 Wire			



2005 LAND CRUISER (EWD601U)

System Outline

The automatic light control system works when the light control SW is turned to AUTO. The automatic light control sensor detects the brightness around the vehicle. By this function, the system automatically turns the taillight and headlight on if the brightness is below the regular level and turns the taillight and headlight off when the surroundings become brighter than the

Service Hints -

Body ECU

11, 12-Ground: Always approx. 12 volts
22-Ground: Approx. 12 volts with ignition SW at ACC or ON position
10-Ground: Approx. 12 volts with ignition SW at ON or ST position
4, 16-Ground: Always continuity

O : Parts Location

Code		See Page	Code See Page		Code		See Page	
A31		A31 70		70	M5	Α	71	
A	47	70	F15	68	M9	В	71	
B7	Α	70	J3	71	R	6	71	
B9	C	70	J9	71				

: Junction Block and Wire Harness Connector

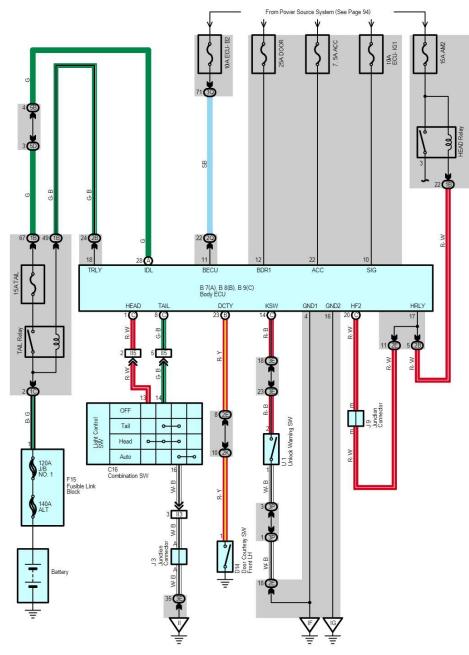
Code	See Page	Junction Block and Wire Harness (Connector Location)		
1B	0.4	Frie Death OWe and Frie Death Of Frie Country (Left)		
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)		
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)		
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)		
3E	40	Dash wire and Cowi Side 3/B RH (Right Nick Panel)		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)		
4A	52	Dash Wire and J/B No.4 (Instrument Panel Center)		
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)		
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
II3	00	D. I. W I.O. I W. Al W O. I.O.
II5	80	Dash Wire and Column Wire (Near the Ignition SW)
IM2	80	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)

: Ground Points

•		
Code	See Page	Ground Points Location
IF	- 78	Set Bolt of Cowl Side J/B LH
IG		
- 11	70	Set Polt of Coul Side I/P DU



2005 LAND CRUISER (EWD601U)

System Outline

The light auto turn off system automatically turns the taillight or headlight off according to the door open or close on the

driver's side, and prevent failing to turn off the lights. If the ignition switch is turned to OFF from ON with the headlight or taillight is on, the signal is input in the TERMINAL SIG of the body ECU. If the driver's side door is opened at that time, the signal from the door courtesy SW front LH is sent to the TERMINAL DCTY of the body ECU. The signal turns the headlight or taillight off.

Delayed turn off control

In the case of that some doors are opened, the headlight or taillight is left on for about 30 seconds after the all the doors was closed. However, if the doors are locked using the wireless door lock, the headlight or taillight is immediately turn off.

Service Hints -

Body ECU

11, 12-Ground : Always approx. 12 volts 10-Ground : Approx. 12 volts with ignition SW at ON or ST position 4, 16-Ground : Always continuity

O : Parts Location

Code		See Page	See Page Code See Page		Code	See Page	
B7	Α	70	C16	70	J3	71	
B8	В	70	D14	72	J9	71	
B9	С	70	F15	68	U1	71	

: Junction Block and Wire Harness Connector

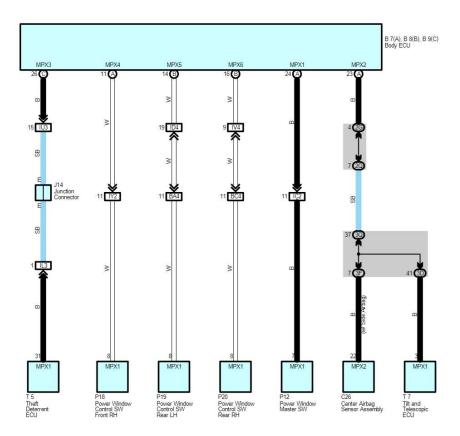
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	0.4	Frie Death OMC - 15 in Death (Frie Occupant)
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3E	40	Desk West and Could Cide VD DU /Diskt Visit Dess N
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

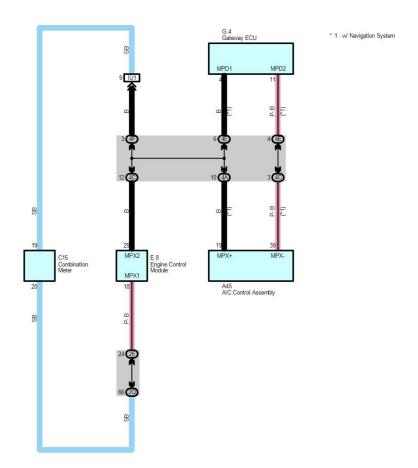
: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
113	00	Deals Miss and Calumn Miss (Mass the Isration CM)
115	00	Dash Wire and Column Wire (Near the Ignition SW)

: Ground Points

Code	See Page	Ground Points Location
IF	electric de la constitución de l	0.10 # 70 107 10111
IG	- 78	Set Bolt of Cowl Side J/B LH
П	78	Set Bolt of Cowl Side J/B RH

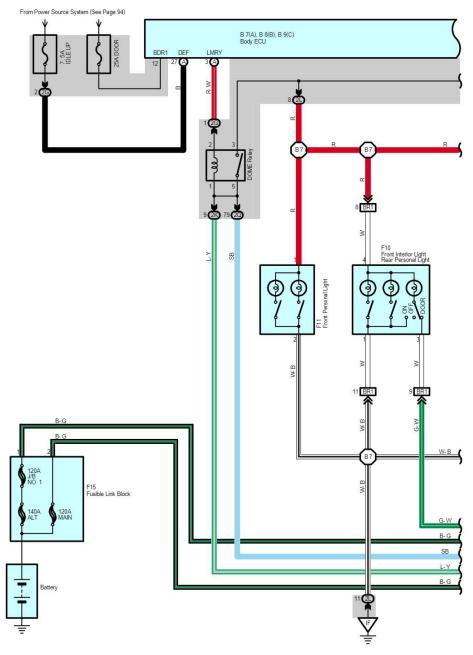


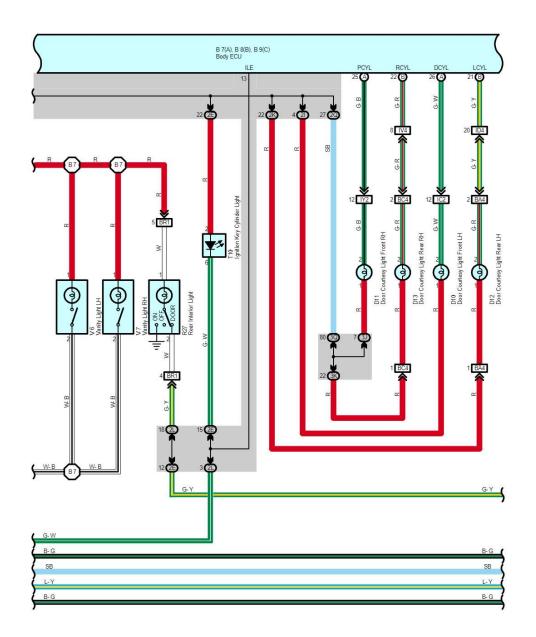


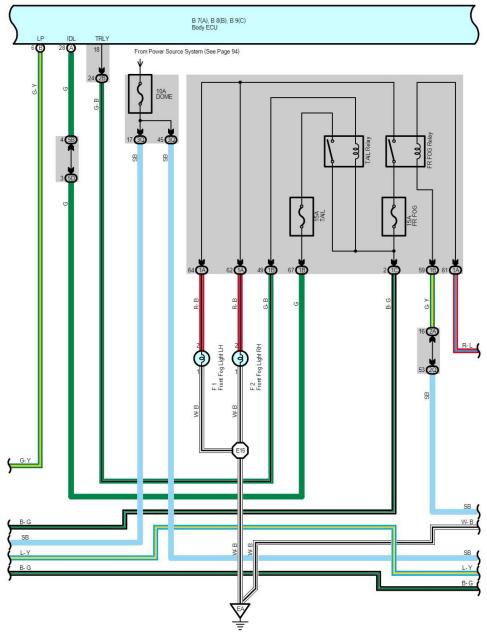
Multiplex Communication System - Communication Bus

Multiplex Communication System Includes Following Systems

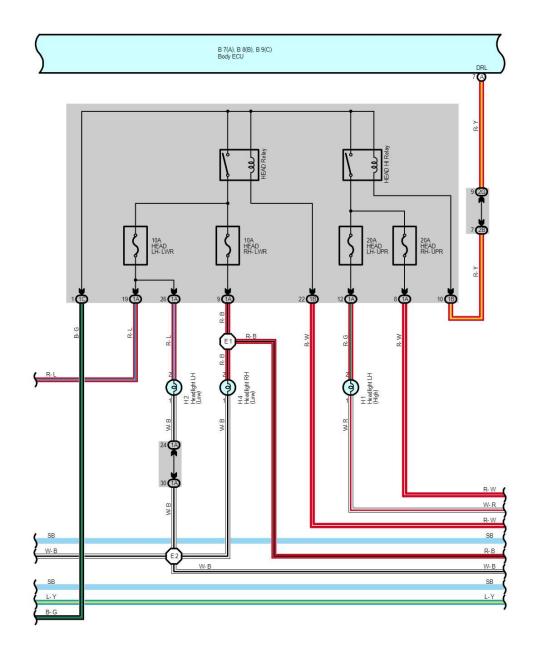
- * Automatic Light Control
- * Door Lock Control
- * Front Fog Light
- * Headlight
- * Interior Light
- * Key Reminder
- * Light Auto Turn Off System
- * Power Window
- * Theft Deterrent
- * Wireless Door Lock Control

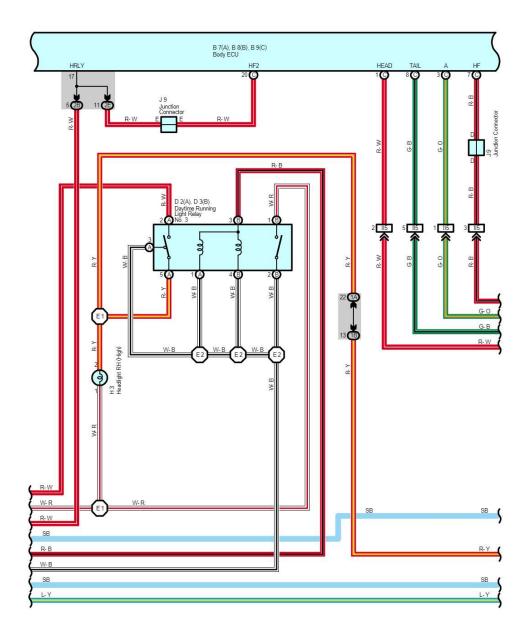


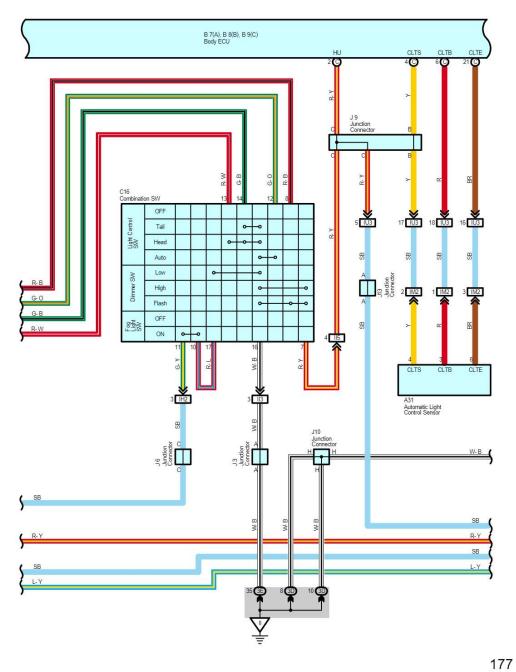


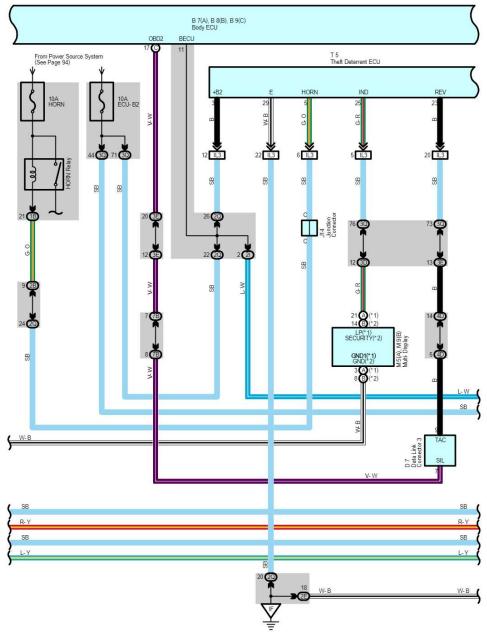


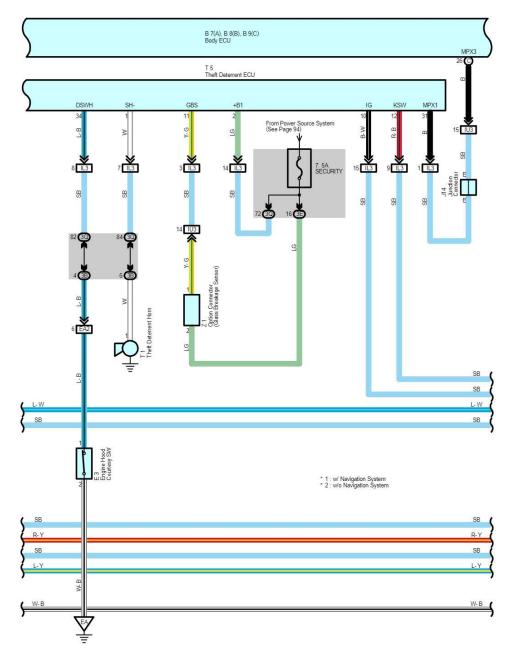
2005 LAND CRUISER (EWD601U)





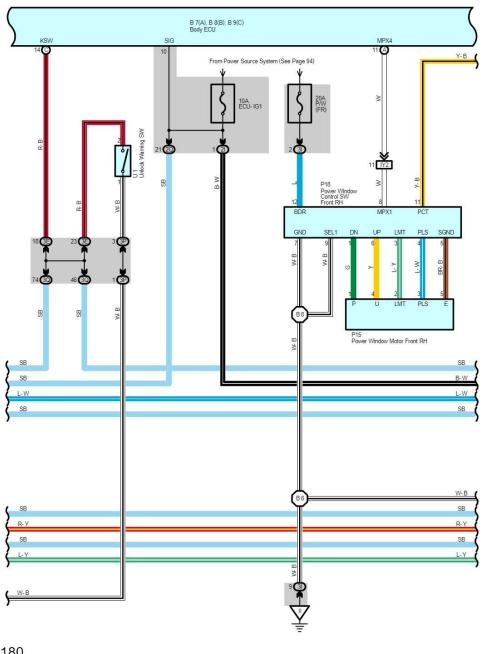


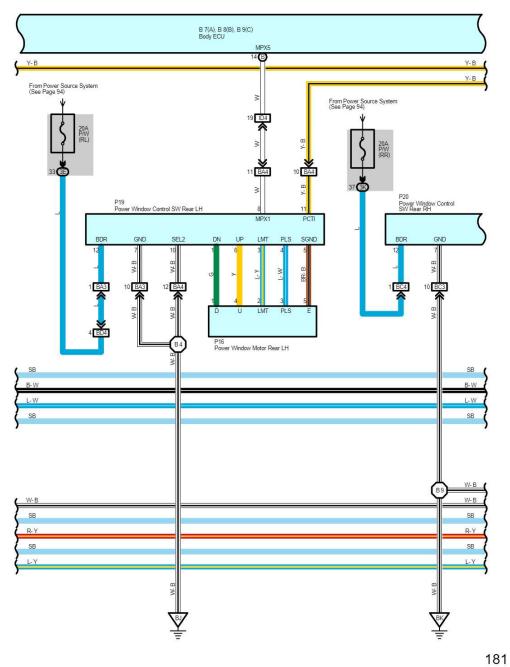


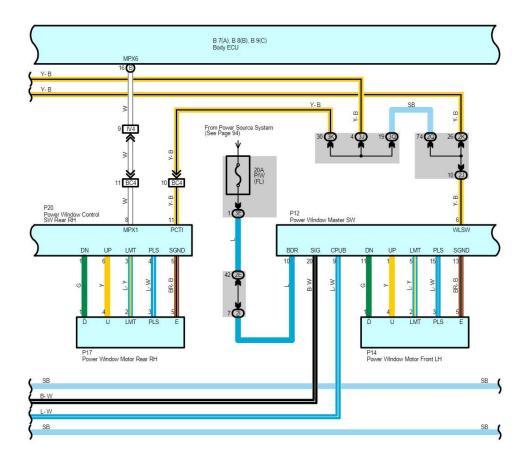


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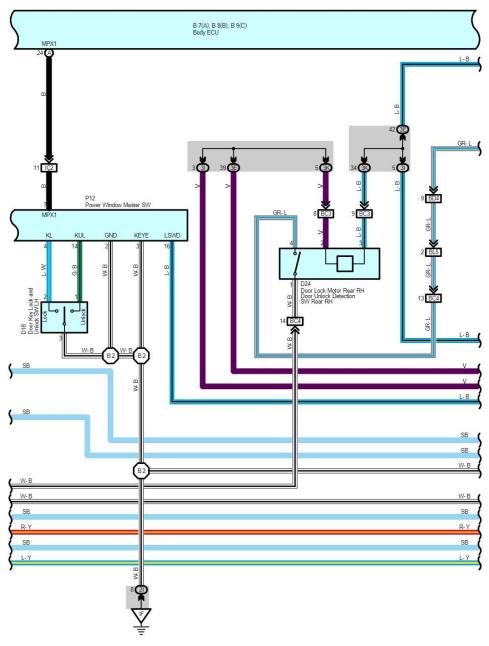
2005 LAND CRUISER (EWD601U)



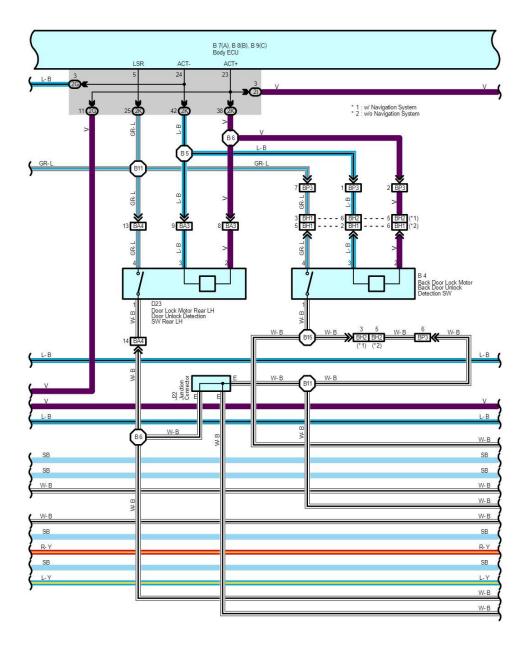


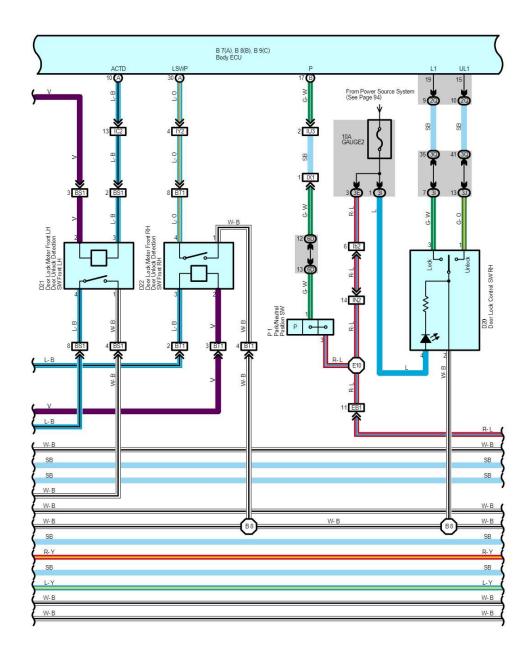


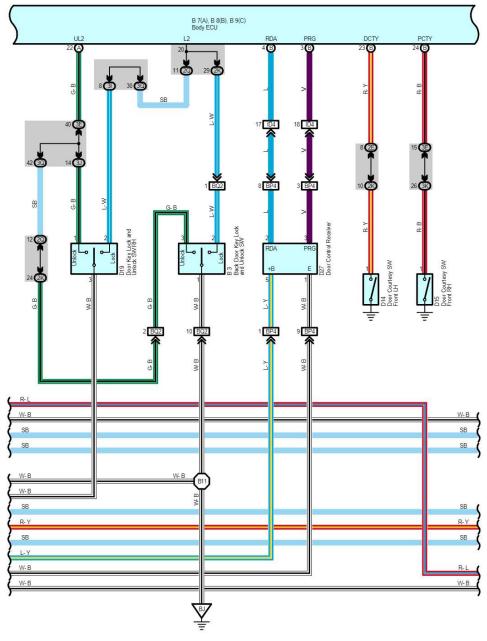


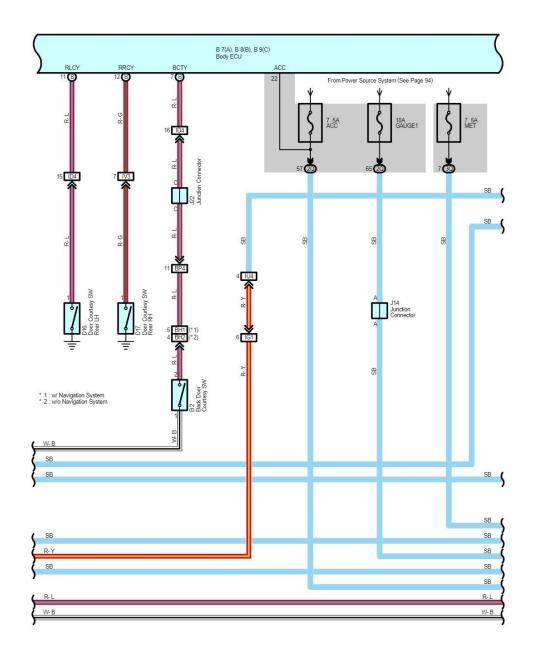


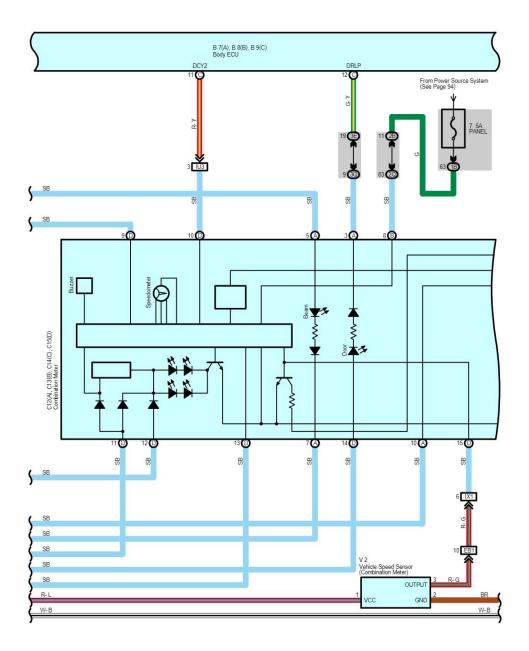
2005 LAND CRUISER (EWD601U)

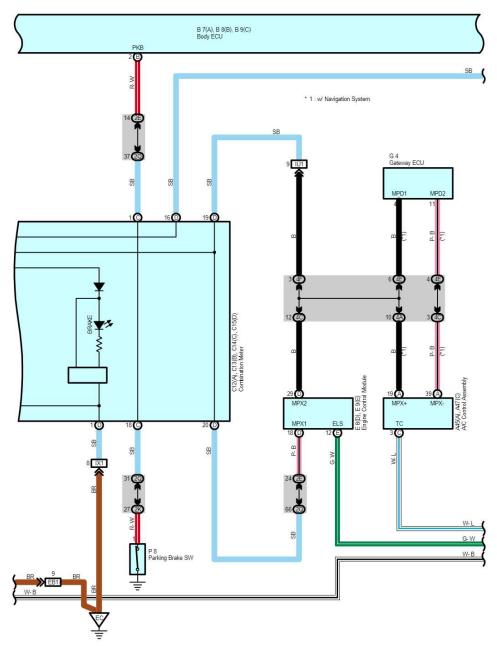




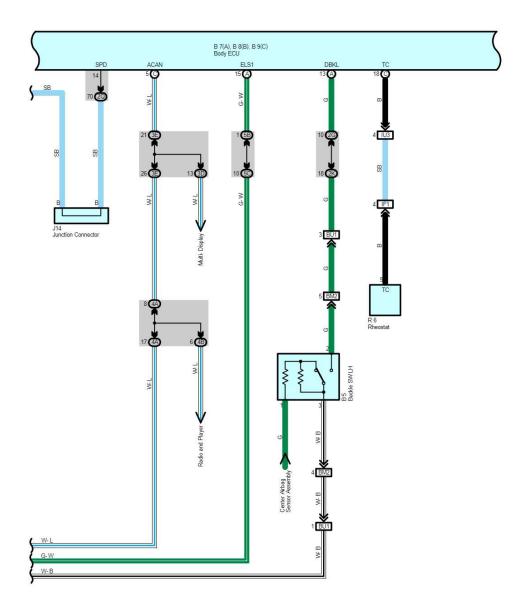


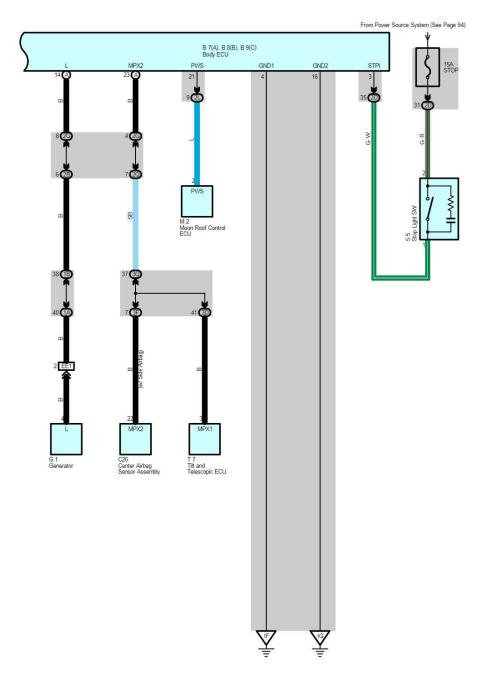






2005 LAND CRUISER (EWD601U)





2005 LAND CRUISER (EWD601U)

Multiplex Communication System

System Outline

The multiplex communication system communicates among the body ECU, theft deterrent ECU, power window master SW, power window control SW front RH, power window control SW rear RH, center airbag sensor assembly and tilt and telescopic ECU, among the combination meter, engine control module, A/C control assembly and gateway ECU and controls the following systems according to the signals from respective sensors or switches. For details, please refer to the new car features and/or the repair manual.

Service Hints

Body ECU

11, 12-Ground: Always approx. 12 volts
 22-Ground: Approx. 12 volts with ignition SW at ACC or ON position
 10-Ground: Approx. 12 volts with ignition SW at ON or ST position
 4, 16-Ground: Always continuity

O : Parts Location

Co	ode	See Page	Co	de	See Page	Co	de	See Page
A	31	70	D	18	72	J1	14	71
A45	А	70	D	19	72	J2	22	72
A47	С	70	D	20	72	M	12	72
Е	32	72	D.	21	72	M5	Α	71
Е	33	72	D	22	72	M9	В	71
E	34	72	D	23	72	P	1	69
Е	35	74	D.	24	72	P	8	73
В7	А	70	D.	27	72	P.	12	73
В8	В	70	E	3	68	P'	14	73
B9	С	70	E8	D	70	P	15	73
C12	Α	70	E9	Е	70	P'	16	73
C13	В	70	F	1	68	P.	17	73
C14	С	70	F	2	68	P'	18	73
C15	D	70	F	10	72	P	19	73
С	16	70	F	11	72	P2	20	73
С	26	70	F	15	68	R	6	71
D2	Α	68	G	1	68	R2	27	73
D3	В	68	G	4	70	S	5	71
)7	70	H	11	69	Т	1	69
D	10	72	H	12	69	T	5	71
D	11	72	H	13	69	Т	7	71
D	12	72	H	14	69	T.	10	71
D	13	72	J	3	71	U	1	71
D	14	72	J	6	71	V	2	69
D	15	72	J	9	71	V	6	73
D	16	72	J.	10	71	V	7	73
D	17	72	J.	13	71	Z	1	71



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
1C	24.	Engine room rooz wife and Engine room orb (Engine Compartment Early				
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2B		English recent research and controlled state and transfer and the state				
2D		TO A MAN OF THE PROPERTY OF THE PARTY OF THE				
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2G						
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)				
2J 2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2K 2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel) Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3D 3E	- 40	Destruction of October 100 DH 100 Halfe Destruction				
3F	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
31						
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
4A						
4B	1					
4C						
4D	- 52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E	1					
4F	1					
5B	50	Det Mercal IDAL COLLEGE AND A				
5C	- 56	Dash Wire and J/B No.5 (Behind the Combination Meter)				
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)				
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)				
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)				

Multiplex Communication System

: Connector Joining Wire Harness and Wire Harness

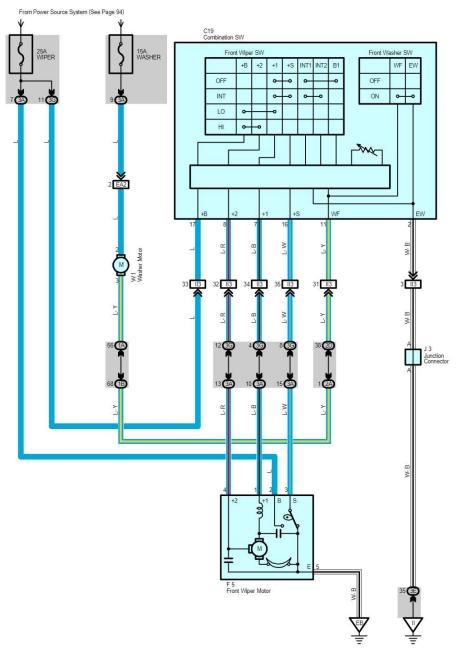
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)				
EB1	76	Engine Wire and Transmission Wire (On the Transmission)				
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)				
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)				
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)				
IF1	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)				
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)				
II3	2000 months	And the property of the proper				
II5	80	Dash Wire and Column Wire (Near the Ignition SW)				
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)				
IM2	80	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)				
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)				
IU1	THE SAME	on V introducing decides parameter opera in the symmetry of th				
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IU4		AND				
IV3						
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)				
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)				
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)				
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
BA3	00	D. D. HILLIAM A. M. A. C. L. (O. L. D.)				
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)				
BC3	00	B. B. BUW. ISL N.OW. (B. H.C.). (O. I. B.).				
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)				
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				
BH1	86	Dillochie 4 Micro and Dook Door Linner Micro // off Cide of Dook Door				
BH2	00	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)				
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)				
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)				
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				
BP4	00	Filial No.1 VVII e and 1 loof No.1 VVII e (Left Real Side Qualter Pariet)				
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				
BR1	88	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)				
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)				
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)				
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)				

: Ground Points

Code	See Page	Ground Points Location	
EA	76	Front Right Side of Fender Apron	
EC	76	Rear Bank of Right Cylinder Head	
IF	-		
IG	78	Set Bolt of Cowl Side J/B LH	
11	78	Set Bolt of Cowl Side J/B RH	
BJ	86	Under the Driver's Seat	
BK	96	Front Sida Under the Front Descender's Seat	

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	70	E-121	B6	88	Floor No.1 Wire
E2	76	Engine Room Main Wire	B7	88	Roof No.1 Wire
E10	76	Engine Wire	B8	88	Front Door RH Wire
E15	76	Engine Room Main Wire	B9	88	Floor No.2 Wire
B2	88	Front Door LH Wire	B11	88	Floor No.1 Wire
B4	00	Floor No. 4 VAGO	B15	88	Back Door Upper Wire
B5	88	Floor No.1 Wire			



System Outline

When the ignition SW turned on, the current from the WIPER fuse flows to the front wiper and washer SW TERMINAL 17, and the front wiper motor TERMINAL 2.

1 Low Position

When the front wiper SW is turned to LO position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 7 to the front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the front wiper motor at low speed

2. High Position

When the front wiper SW is turned to HI position, the current flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 8 to the front wiper motor TERMINAL 4 to TERMINAL 5 to GROUND, and operates the front wiper motor at high speed.

3. INT Position

When the front wiper SW is turned to INT position, the relay operates and the current which is connected by the relay function flows from the front wiper and washer SW TERMINAL 17 to TERMINAL 2 to GROUND, and operates the wipe. The intermittent operation is controlled by the charge/discharge function of the condenser installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

4. Washer Interlocking Operation

When the front washer SW is pulled up, the current flows from the washer motor TERMINAL 2 to TERMINAL 3 to the front wiper and washer SW TERMINAL 11 to TERMINAL 2 to GROUND, operates the washer motor and the window washer emits a water spray. This causes the current to flow to the washer continuous operation circuit in the front wiper and washer SW TERMINAL 11 to TERMINAL 7 to front wiper motor TERMINAL 1 to TERMINAL 5 to GROUND, and operates the wiper.

Service Hints

C19 Combination SW

17-Ground: Approx. 12 volts with ignition SW at ON or ST position

7-Ground: Approx. 12 volts with front wiper and washer SW at LO position

: Approx. 12 volts 1.6 to 10.7 seconds intermittently with the front wiper and washer SW at INT position

16-Ground: Approx. 12 volts with ignition SW on unless the front wiper motor at STOP position

8-Ground: Approx. 12 volts with front wiper and washer SW at HI position

2-Ground: Always continuity

F5 Front Wiper Motor

2-Ground: Approx. 12 volts with ignition SW at ON or ST position

5-Ground: Always continuity

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
C19	70	J3	71		
F5	68	W1	69		

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)	
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)	
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)	
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	
ЗА	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)	
3E	40	P-+W10-10:1-W-PH-W-10:1-W-1	
3G	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	

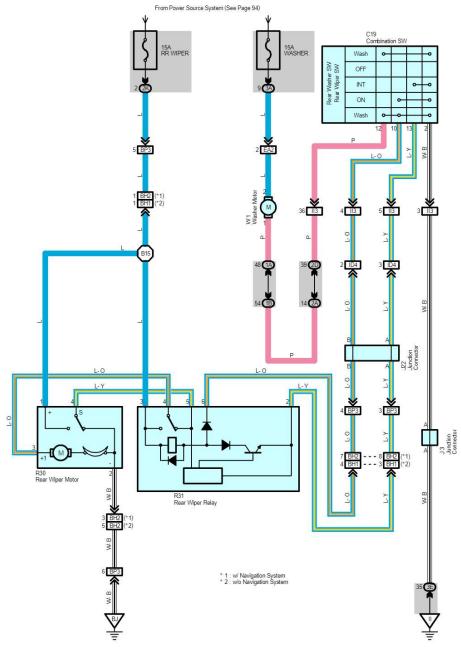
: Connector Joining Wire Harness and Wire Harness

0.00			
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)	
113	80	Dash Wire and Column Wire (Near the Ignition SW)	

Front Wiper and Washer

: Ground Points

Code	See Page	Ground Points Location
EB	76	Front Right Side of Fender Apron
- 11	78	Set Bolt of Cowl Side J/B RH



System Outline

When the ignition SW is turned on, the current flows from the WASHER fuse to washer motor TERMINAL 2, and the current flows from the RR WIPER fuse to rear wiper relay TERMINAL 3, and the rear wiper motor TERMINAL 1 respectively.

1. Rear Wiper Normal Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to ON position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 6 to the rear wiper and washer SW TERMINAL 10 to TERMINAL 2 to GROUND, and turns on the rear wiper relay. As a result, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 4 to the rear wiper motor TERMINAL 3 to TERMINAL 2 to GROUND, and operates the rear wiper.

2. Rear Wiper Intermittent Operation

When the ignition SW is turned on, and the rear wiper and washer SW is turned to INT position, the current flows from the rear wiper relay TERMINAL 3 to TERMINAL 2 to the rear wiper and washer SW TERMINAL 13 to TERMINAL 2 to GROUND, and the intermittent circuit in the rear wiper relay is controlled to operate the wiper intermittently.

When the ignition SW is turned on, and the rear wiper and washer SW is turned from OFF to WASH position, the current flows from the WASHER fuse to the washer motor TERMINAL 2 to TERMINAL 1 to the rear wiper and washer SW TERMINAL 12 to TERMINAL 2 to GROUND. This activates the washer motor, and the window washer emits a water spray. When the rear wiper and washer SW is turned to ON position, the window washer emits a water spray during rear wiper normal operation.

Service Hints

W1 Washer Motor

2-Ground: Approx. 12 volts with ignition SW at ON or ST position 1-Ground : Continuity with rear wiper and washer SW at WASH position

R30 Rear Wiper Motor

1-Ground : Approx. 12 volts with ignition SW at ON or ST position 2-Ground : Always continuity

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
C19	70	J22	72	R31	73
J3	71	R30	73	W1	69

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3A	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
113	80	Dash Wire and Column Wire (Near the Ignition SW)			
BH1	100				
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BP3	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			

Rear Wiper and Washer

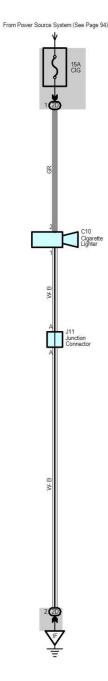
: Ground Points

C	ode	See Page	Ground Points Location
	II	78	Set Bolt of Cowl Side J/B RH
E	BJ	86	Under the Driver's Seat



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B15	88	Back Door Upper Wire			



Service Hints

C10 Cigarette Lighter

2-Ground: Approx. 12 volts with ignition SW at ACC or ON position
1-Ground: Always continuity

O : Parts Location

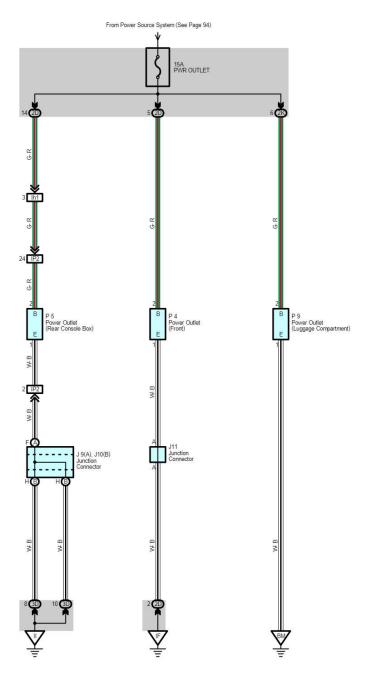
Code	See Page	Code	See Page	Code	See Page
C10	70	J11	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH



2005 LAND CRUISER (EWD601U)

Service Hints

P4 Power Outlet (Front)

2-Ground: Approx. 12 volts with ignition SW at ACC or ON position 1-Ground: Always continuity

P5 Power Outlet (Rear Console Box)

2-Ground : Approx. 12 volts with ignition SW at ACC or ON position 1-Ground : Always continuity

P9 Power Outlet (Luggage Compartment)
2-Ground: Approx. 12 volts with ignition SW at ACC or ON position
1-Ground: Always continuity

O : Parts Location

Code		See Page	Code	Code See Page		See Page
J9	Α	71	J11	71	P5	71
110	B	71	DΛ	71	PQ	73

: Junction Block and Wire Harness Connector

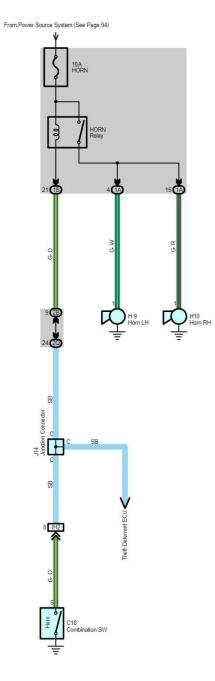
Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)
lh1	84	Dash Wire and Dash Wire (Center Side of Front Console)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
П	78	Set Bolt of Cowl Side J/B RH
BM	86	Left Rear Side Quarter Panel



Service Hints

C18 Combination SW

6-Ground :Continuity with horn SW on

O : Parts Location

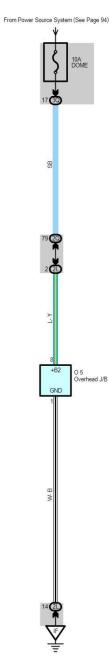
Code	See Page	Code	See Page	Code	See Page
C18	70	H10	69		
H9	69	J14	71		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)



Service Hints

O5 Overhead J/B

8-Ground: Always approx. 12 volts 1-Ground: Always continuity

O : Parts Location

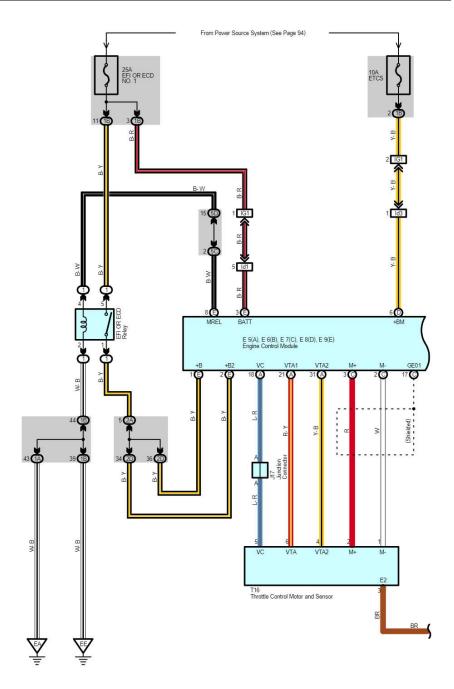
10000					200
Code	See Page	Code	See Page	Code	See Page
05	72				

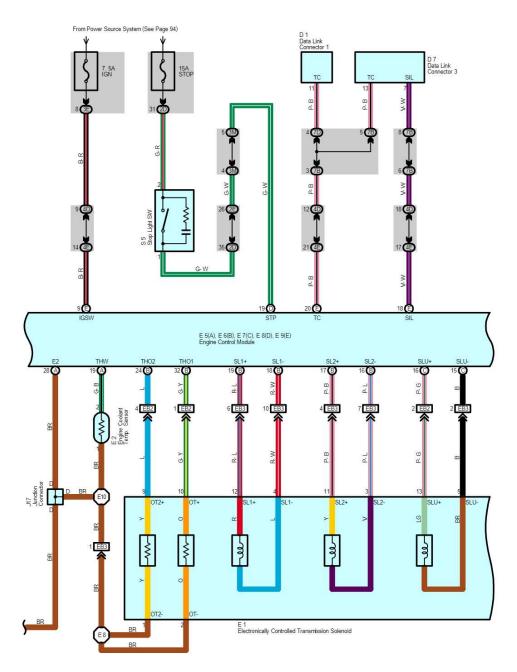
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)	
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)	

: Ground Points

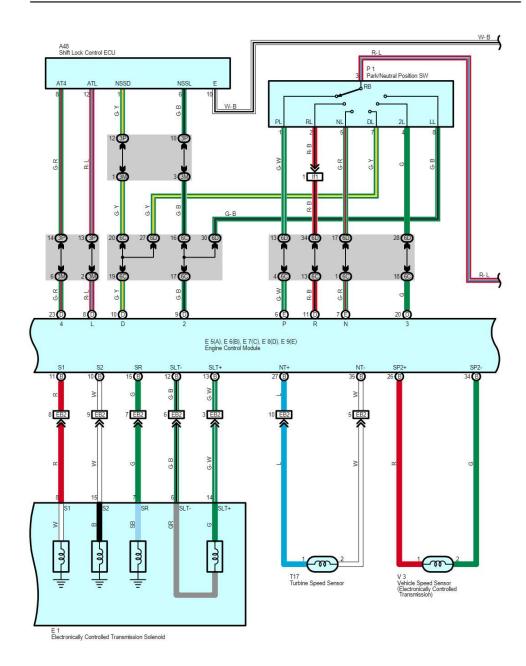
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

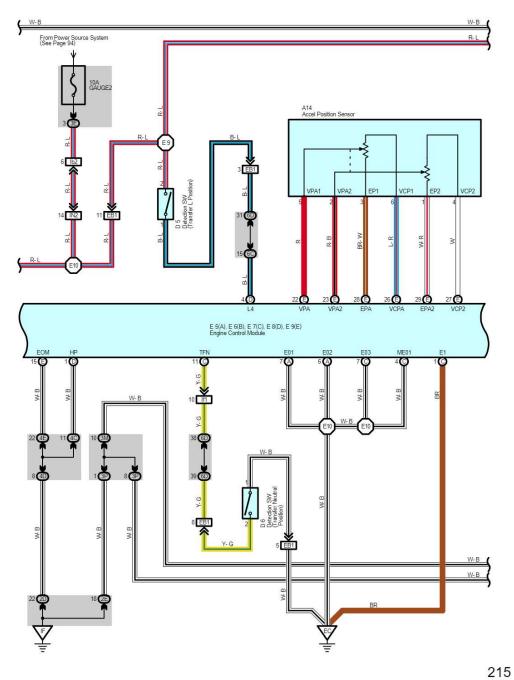


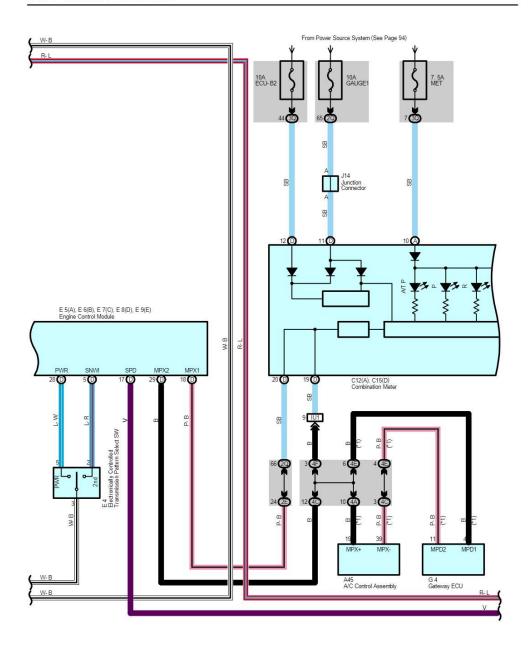


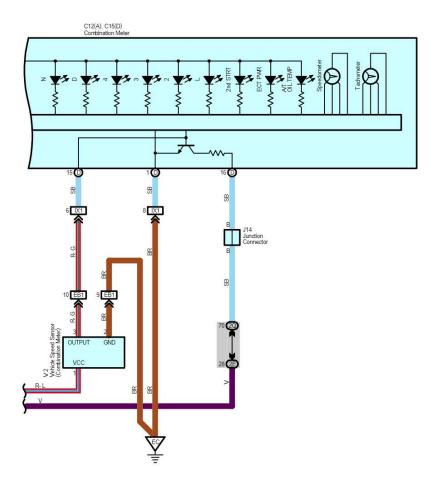
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2005 LAND CRUISER (EWD601U)









2005 LAND CRUISER (EWD601U)

ECT and A/T Indicator

System Outline

Previous automatic transmissions have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock-up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. Gear Shift Operation

When driving, the engine warm up condition is input as a signal to TERMINAL THW of the engine control module from the engine coolant temp. sensor and the vehicle speed signal from vehicle speed sensor is input to TERMINAL SP2+ of the engine control module. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1 and VTA2 of the engine control module as throttle angle signal.

Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. Line Hydraulic Pressure Control

The engine control module adjusts the line hydraulic pressure to the optimal level by controlling TERMINAL SLT+ of the module according to the engine torque data. This realizes the smooth gear shifting.

3. High Response Gear Shifting Control

The engine control module performs the high response engine torque up control to control the ignition-timing lag as well as opening the electronic throttle when shifting down. By doing this, the gear shifting is performed in a short period of time. Moreover, the engine control module uses the orifice switching control, which optimizes the speed of applying and reducing the hydraulic pressure. And it realizes the fine shifting condition by applying and reducing hydraulic pressure slowly when the gear shifting shock is important and quickly when the high response is required.

4. Clutch Hydraulic Pressure Control

The engine control module controls the clutch operation in the optimal timing and with the best hydraulic pressure according to the engine torque data and the number of the clutch revolution

5. Lock-Up and Flexible Lock-Up Control

The engine control module carries out the lock-up control by controlling the TERMINAL SLU+ of the module according to the shift position, vehicle speed, throttle opening degree and running conditions. The engine control module also steadily keeps applying the lock-up clutch a delicate slippage to improve the transmission efficiency (Fuel efficiency) of the torque converter.

6. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock-up condition, a signal is input to TERMINAL STP of the engine control module. The engine control module operates and cuts the current to the solenoid to release lock-up.

7. Ai-Shift Contro

The engine control module judges whether the road is downslope or upslope by detecting the throttle opening degree or the vehicle's speed. Moreover it can expect the winding roads by detecting the turning condition of the vehicle. The engine control module keeps unnecessary shifting up from the fourth gear from operating and carries out the automatic shifting down to the third gear in order to control the vehicle running according to the road conditions. The engine control module also reads the driver's intention during driving from his (her) accelerating operation and the running conditions of the vehicle. As a result of that, ideal shifting patters for each driver are automatically selected without any switching operations.

8. Electronically Controlled Transmission Pattern Select SW Circuit

When the electronically controlled transmission pattern select SW is switched to PWR, a signal is input to TERMINAL PWR of the engine control module. This enables shift-up and shift-down at a higher speed range.

9. Transfer Shift Operation

When the transfer shift lever is moved to L position, a signal is input into TERMINAL L4 of the engine control module. In addition when the transfer shift lever is moved to N position a signal is input to engine control module TERMINAL TFN. The engine control module detects the transfer condition through this.

Service Hints

E4 Electronically Controlled Transmission Pattern Select SW

5-3 : Closed with select SW at PWR position2-3 : Closed with select SW at 2nd position

E7 (C), E9 (E) Engine Control Module

BATT-E1: Always 9.0-14.0 volts

+B-E1: 9.0-14.0 volts with ignition SW at ON or ST position
+B2-E1: 9.0-14.0 volts with ignition SW at ON or ST position IGSW-E1: 9.0-14.0 volts with ignition SW at ON or ST position

P1 Park/Neutral Position SW

3-1: Closed with shift lever in P position3-2: Closed with shift lever in R position3-5: Closed with shift lever in N position 3-7: Closed with shift lever in D position
3-4: Closed with shift lever in 2 position
3-8: Closed with shift lever in L position

O : Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A ²	A14 70		E1		68	J14	71
A45		70	E2		68	J17	71
A	48	70	E	4	70	P1	69
C12	Α	70	E5	А	70	S5	71
C15	D	70	E6	В	70	T16	69
D	1	68	E7	С	70	T17	69
D	5	68	E8	D	70	V2	69
D	6	68	E9	Е	70	V3	69
D	7	70	G	4	70		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

ECT and A/T Indicator

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)					
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)					
2D	28	Dark West and Could Cide VD LLU (1-41/Cide Dare)					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)					
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)					
3E	40						
3M		Dash Wire and Cowl Side J/B RH (Right Kick Panel)					
3P	43	3 000 8					
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)					
4A	52						
4C							
4D		Dash Wire and J/B No.4 (Instrument Panel Center)					
4E	1						
4F	1						
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)					
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)					
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)					
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)					
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)					
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)					

: Connector Joining Wire Harness and Wire Harness

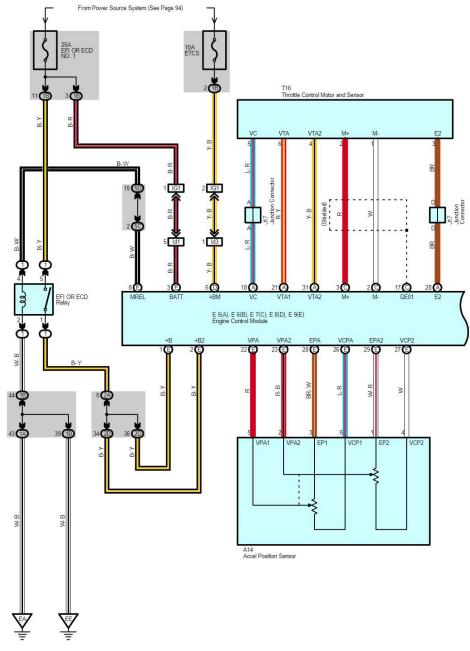
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1						
EB2	76	Engine Wire and Transmission Wire (On the Transmission)				
EB3		10 Table 10				
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)				
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)				
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
ld1	0.4	Dark Mine and Dark Mine (Instrument Darie) Control				
ld3	84	Dash Wire and Dash Wire (Instrument Panel Center)				
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)				

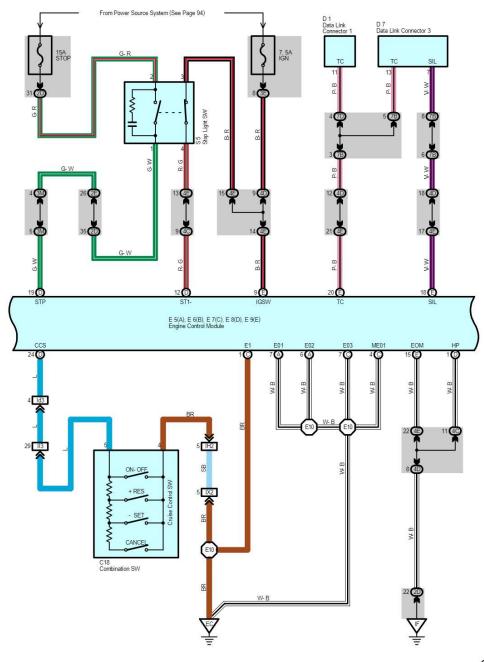
Ground Points

Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
EE	76	Front Left Side of Fender Apron
IF	78	Set Bolt of Cowl Side J/B LH

: Splice Points

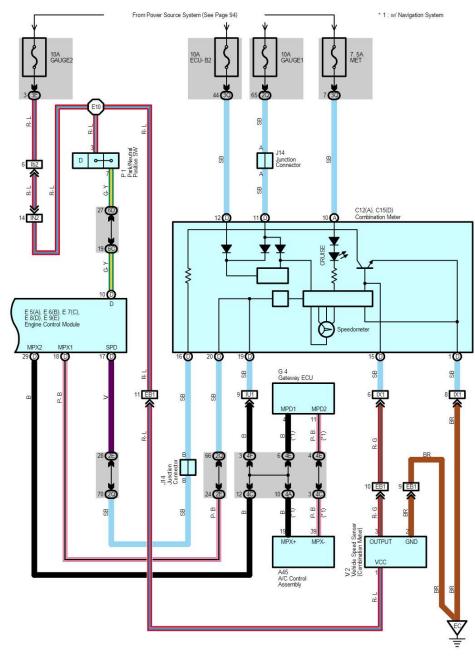
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	76	Transmission Wire	E10	76	Engine Wire
F9	76	Transmission vvire			*





2005 LAND CRUISER (EWD601U)

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System Outline

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

When the ON-OFF SW is turned on, the systems starts preparations for cruise control and turns on the indicator light in the

Set Speed Control

When the - SET SW is operated with the ON-OFF SW turned on during driving, the speed is controlled at a constant speed.

When the - SET SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to decelerate the vehicle speed.

Every time the - SET SW is turned on instantaneously, the vehicle speed is decelerated by approx. 1.5 km/h.

Every time the + RES SW is turned on instantaneously, the vehicle speed is accelerated by approx. 1.5 km/h.

When the + RES SW is kept turned on during cruise control driving, the engine control module controls the throttle valve to accelerate the vehicle speed.

If the vehicle speed is within the low speed limit (Approx. 40 km/h, 25 mph) when canceling the cruise control, operation of the + RES SW accelerates the vehicle speed and resumes the level before canceling the cruise control.

Manual Cancel Mechanism

If any of the following signals are input during cruise control driving, the cruise control is canceled.

- * The stop light SW is on * The CANCEL SW is turned on * The ON-OFF SW is turned off
- * Gear is shifted from D position to other positions than D.

Auto Cancel Function

If any of the following conditions are detected, the cruise control is canceled:

- * Failure in the stop light SW wiring
- Abnormality in the vehicle speed signal
- Malfunction in the electronically controlled throttle parts
- When the vehicle speed gets slower than the low speed limit.
 When the vehicle speed falls to 16 km/h less than the set speed.

The overdrive may be canceled if the vehicle travels on a upward slope during cruise control driving. When the throttle opening information indicates the hill climbing is finished after the overdrive is canceled, the vehicle returns to overdrive mode again as the overdrive return timer is completed.

Service Hints

E7 (C), E8 (D), E9 (E) Engine Control Module

BATT-E1: Always 9.0-14.0 volts

IGSW-E1: 9.0-14.0 volts with ignition SW at ON or ST position STP-E1: 9.0-14.0 volts with brake pedal is depressed : Below 1.5 volts with brake pedal is released

C18 Combination SW

5-4 : Approx. 1540 Ω with CANCEL SW on : Approx. 240 Ω with + RES SW on : Approx. 630 Ω with - SET SW on

Cruise Control

O : Parts Location

Co	ode	See Page	Co	ode	See Page	Code	See Page
A.	14	70	E5	Α	70	J17	71
A	45	70	E6	В	70	P1	69
C12	А	70	E7	С	70	S5	71
C15	D	70	E8	D	70	T16	69
C.	18	70	E9	Е	70	V2	69
D)1	68	G	64	70		
D)7	70	J.	14	71		

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)					
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)					
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)					
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)					
2D	00	Dash Wire and Cowl Side J/B LH (Left Kick Panel)					
2E	28						
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)					
3E	40	D 1 Mr. 10 10:1 ND DI 10:11/C 1 D 10					
3M	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)					
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)					
4A							
4C							
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)					
4E							
4F							
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)					
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)					
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)					
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)					
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)					
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)					

: Connector Joining Wire Harness and Wire Harness

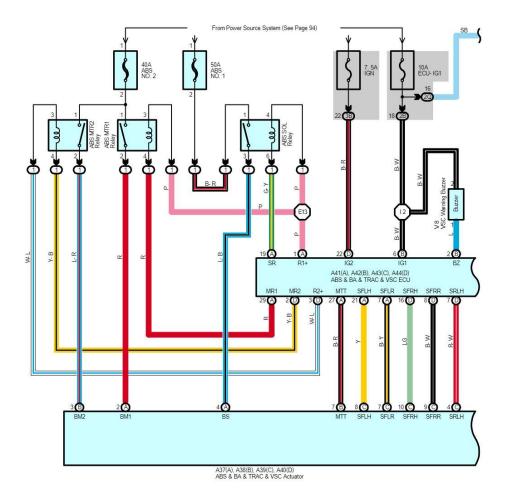
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	76	Engine Wire and Transmission Wire (On the Transmission)			
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
II3	80	Dash Wire and Column Wire (Near the Ignition SW)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IX1	00	Laborat Double - Control Misson - A Control Misson			
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
ld1	0.4	Death Wise and Death Wise (Instrument Death Control			
ld3	84	Dash Wire and Dash Wire (Instrument Panel Center)			

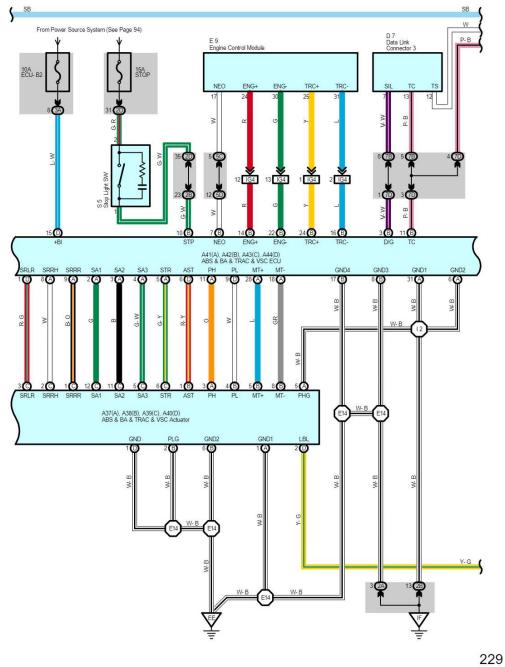
: Ground Points

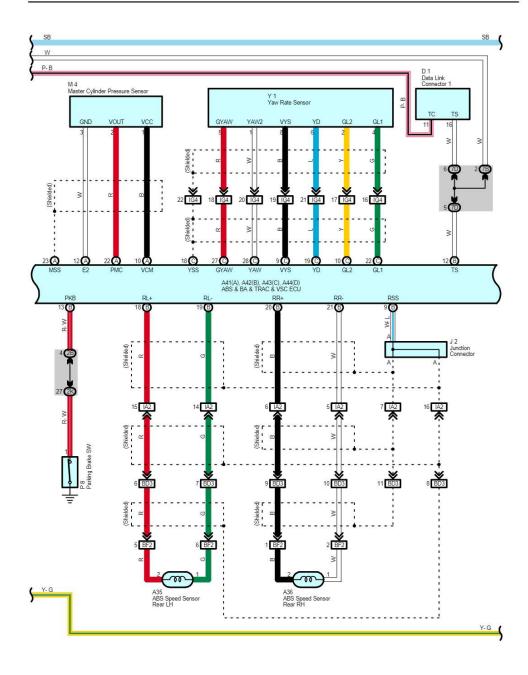
Code	See Page	Ground Points Location	
EA	76	Front Right Side of Fender Apron	
EC	76	Rear Bank of Right Cylinder Head	
EE	76	Front Left Side of Fender Apron	
IF	78	Set Bolt of Cowl Side J/B LH	

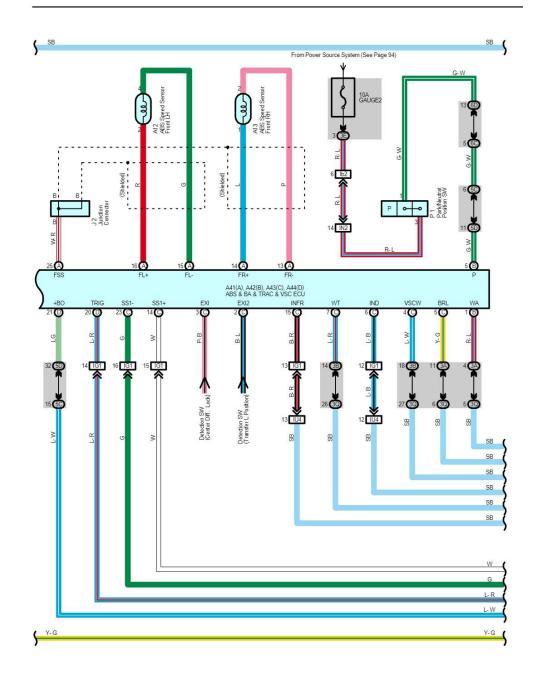
Code See Page

100 mm - 100 mm					
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire			

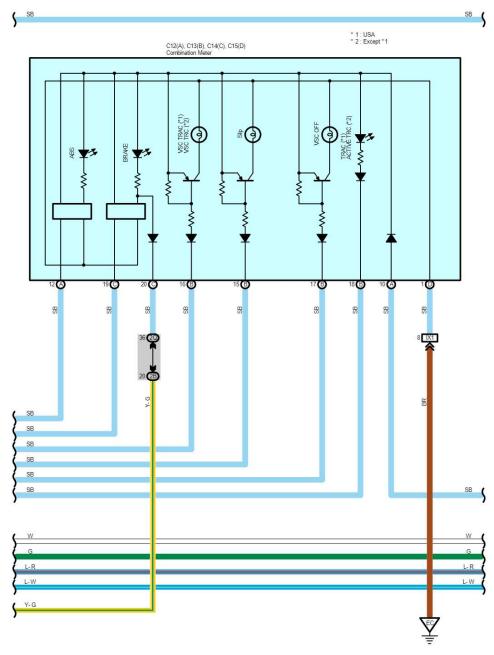


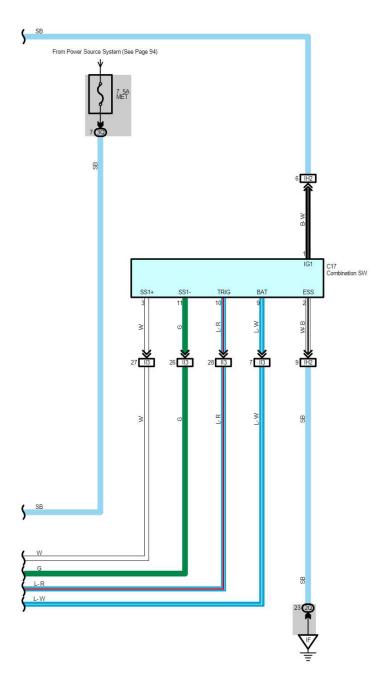






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2005 LAND CRUISER (EWD601U)

System Outline

1. ABS Operation

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders for all the four wheels to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle. If the brake pedal is depressed suddenly, the ABS & BA & TRAC & VSC ECU controls the solenoids in the actuators using the signals from the sensors to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the ABS & BA & TRAC & VSC ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ECU controls the solenoids in the actuators to increase the braking pressure.

2. Traction Control Operation

The traction control system controls the engine torque, the hydraulic pressure of the driving wheel cylinders, slipping of the wheels which may occur at start or acceleration of the vehicle, to ensure an optimal driving power and vehicle stability corresponding to the road conditions.

3. VSC Operation

Unexpected road conditions, vehicle speed, emergency situation, and any other external factors may cause large under- or over-steering of the vehicle. If this occurs, the VSC system automatically controls the engine power and wheel brakes to reduce the under- or over-steering.

To reduce large over-steering :

If the VSC system determines that the over-steering is large, it activates the brakes for the outer turning wheels depending on the degree of the over-steering to produce the moment toward the outside of the vehicle and reduce the over-steering. To reduce large under-steering :

If the VSC system determines that the under-steering is large, it controls the engine power and activates the rear wheel brakes to reduce the under-steering.

VSC indicator light

If an error occurs in the VSC system, the VSC indicator lights up to warn the driver.

4. Traction Mode and VSC Function

When the center differential of the transfer is locked, the VSC function is turned off. At this time, the VSC OFF indicator light in the combination meter will come on, and informs the driver that the VSC function is OFF.

Engine throttle control

To efficiently operate the VSC system at its optimal level, the VSC system and other control systems are mutually controlled while the VSC system is being operated.

The engine power does not interfere with the VSC brake control by controlling the opening of the throttle and reducing the

Engine control and electronically controlled transmission control

The strong braking force does not interfere with the braking force control of the VSC system by turning off the accel. and reducing changes in the driving torque at shift-down.

VSC system operation indication

The slip indicator light flashes and the buzzer sounds intermittently to warn the driver that the current road is slippery, while the VSC system is being operated.

6. Fail Safe Function

If an error occurs in the ABS & BA & TRAC & VSC ECU, sensor signals, and/or actuators, the ABS & BA & TRAC & VSC ECU inhibits the brake actuator control and inputs the error signal to the engine control module. According to the error signal, the brake actuator turns off the solenoid and the engine control module rejects any electronically controlled throttle open request from the VSC system. As a result, the vehicle functions without the ABS, BA, TRAC, and VSC systems.

Service Hints

A41 (A), A42 (B), A44 (D) ABS & BA & TRAC & VSC ECU

(D)15-Ground: Always approx. 12 volts
(B) 6-Ground: Approx. 12 volts with ignition SW at ON or ST position
(D)22-Ground: Approx. 12 volts with ignition SW at ON or ST position
(B)10-Ground: Approx. 12 volts with brake pedal depressed
(A) 6, (A) 31, (B) 8, (B) 17-Ground: Always continuity

A12 ABS Speed Sensor Front LH

2-4 : Approx. 1.07 kΩ (20 °C, 68 °F)

A13 ABS Speed Sensor Front RH

1-2 : Approx. 1.07 k Ω (20 °C, 68 °F)

A35, A36 ABS Speed Sensor Rear LH, RH

1-2 : Approx. 1.2 kΩ (25 °C, 77 °F)

O : Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A1	12	68	A42	В	70	D7	70
A1	13	68	A43	С	70	E9	70
A3	35	72	A44	D	70	J2	71
A36		72	C12	Α	70	M4	69
A37	Α	68	C13	В	70	P1	69
A38	В	68	C14	С	70	P8	73
A39	С	68	C15	D	70	S5	71
A40	D	68	C1	17	70	V8	71
A41	Α	70	D	1	68	Y1	71

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)		
1	22	Engine Room R/B (Engine Compartment Left)		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2A	20	Facility December 2 Miss and Could Cide 1/D LL (1 - A Viola December 2)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
ЗА	10				
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)			
6C	60	Dash Wire and J/B No.6 (Behind the Grove Box)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)			
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)			
IG1					
IG4	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
IH2	80	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)			
II3	80	Dash Wire and Column Wire (Near the Ignition SW)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
BD3	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BF2	86	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)			

: Ground Points

Code	See Page	und Points Location			
EC	76	r Bank of Right Cylinder Head			
EE	76	nt Left Side of Fender Apron			
IF	78	Set Bolt of Cowl Side J/B LH			

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E13	76	Engine Room No.2 Wire	12	80	Engine Room No.2 Wire
E14					

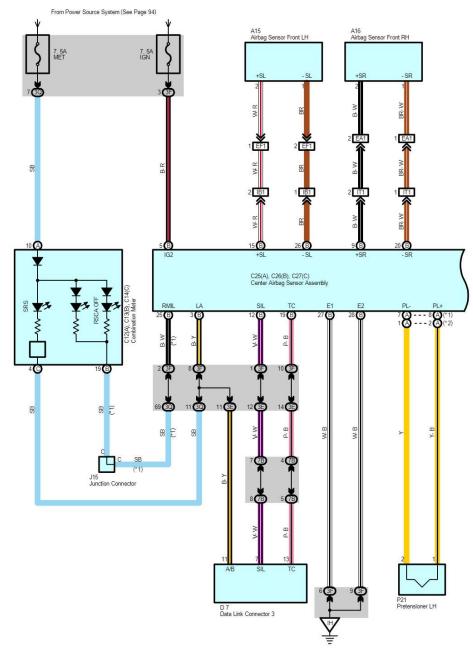
NOTICE: When inspecting or repairing the SRS, perform service in accordance with the following precautionary instructions and the procedure, and precautions in the Repair Manual applicable for the model year

- · Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- . Work must be started more than 90 seconds after the ignition SW is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.

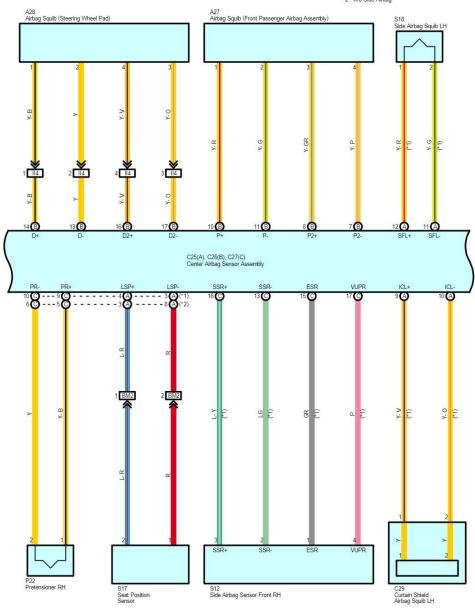
 (The SRS is equipped with a back-up power source so that if work is started within 90 seconds from disconnecting the negative (-) terminal cable of the battery, the SRS may deploy.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be
 cleared. So before starting work, make a record of the contents in the audio memory system. When work is finished,
 reset the audio systems as they were before and adjust the clock. Some vehicles have power tilt steering, power telescopic steering, power seat and power outside rear view mirror which are all equipped with memory function. However, it is not possible to make a record of these memory contents. So when the work is finished, it will be necessary to explain it to your customer, and ask the customer to adjust the features and reset the memory. To avoid erasing the memory in each system, never use a back-up power supply from outside the vehicle.
- Before repair, remove the airbag sensor if shocks are likely to be applied to the sensor during repair.
- · Do not expose the following parts directly to hot air or flame;
- Even in cases of a minor collision where the SRS does not deploy, the following parts should be inspected;
- · Never use SRS parts from another vehicle. When replacing parts, replace with new parts.
- For the purpose of reuse, never disassemble and repair the following parts.
- If the following parts have been dropped, or have cracks, dents and other defects in their case, bracket, and connector,
- Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting electrical circuits of the system.
- Information labels are attached to the periphery of the SRS components. Follow the instructions of the notice.
- After work on the SRS is completed, check the SRS warning light.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair
 - Steering wheel pad
 - Front passenger airbag assembly Side airbag assembly

 - Curtain shield airbag assembly
 - Seat belt pretensioner

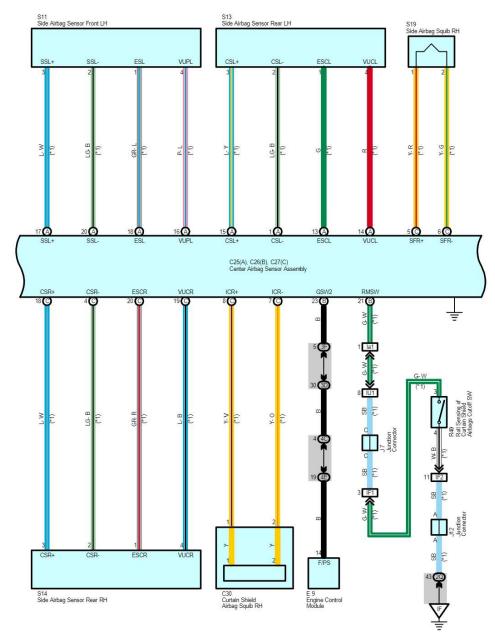
 - Center airbag sensor assembly Front airbag sensor assembly
 - Side airbag sensor assembly
 - Rear airbag sensor assembly

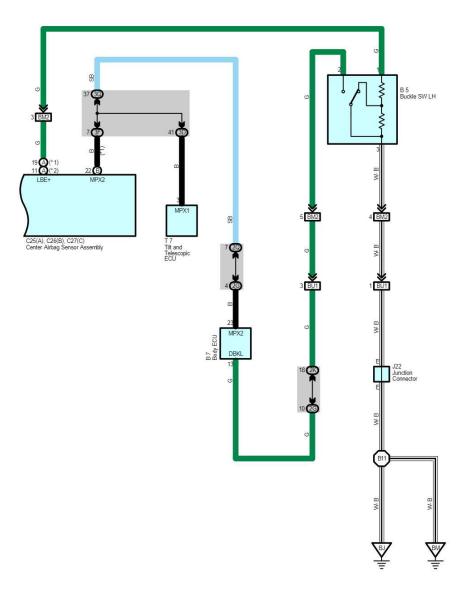






2005 LAND CRUISER (EWD601U)





2005 LAND CRUISER (EWD601U)

System Outline

- * The SRS airbag are provided for the driver and front passenger. The SRS airbags have been designed to help reducing the shocks to the heads and chests of the driver and front passenger in the event of a severe frontal impact collision as supplements to the seat belts.
- This system is a 3-sensor type airbag system to detect the impact during a front collision using the center airbag sensor assembly and airbag sensor front LH, RH, and to make the airbag system and pretensioner operate as well.

 In this system, a front side collision is detected by the side airbag sensor front LH, RH in order to simultaneously deploy the side and curtain shield airbags. A rear side collision is detected by the side airbag sensor rear LH, RH in order to deploy only the curtain shield airbag.
- Roll sensing of curtain shield airbags control has been adopted in order to deploy the curtain shield airbags and the
 pretensioners for the driver and front passenger, in the event that the vehicle rolls over.
 A roll sensing of curtain shield airbags cutoff SW is provided on the driver side of the instrument panel to enable the driver
- to disable this system.

 Dual-stage SRS airbags system, that controls the airbag inflating output optimum by judging the extent of impact and seat position (Driver seat), has been used for the driver and front passenger airbags.
- * In accordance with the adoption of the dual-stage SRS airbag system, a seat position sensor has been established for the driver seat.
- * This system has adopted a fuel cut control that stops the fuel pump when the airbag is deployed.

O : Parts Location

Co	de	See Page	Code	See Page	Code	See Page
A	15	68	C27 C	70	R40	71
A ²	16	68	C29	72	S11	73
A2	27	70	C30	72	S12	73
A2	28	70	D7	70	S13	73
В	5	74	E9	70	S14	73
В	7	70	J7	71	S17	74
C12	Α	70	J12	71	S18	74
C13	В	70	J15	71	S19	74
C14	С	70	J22	72	Т7	71
C25	Α	70	P21	73		
C26	В	70	P22	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D		
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3F		
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4C	50	
4E	52	Dash Wire and J/B No.4 (Instrument Panel Center)
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

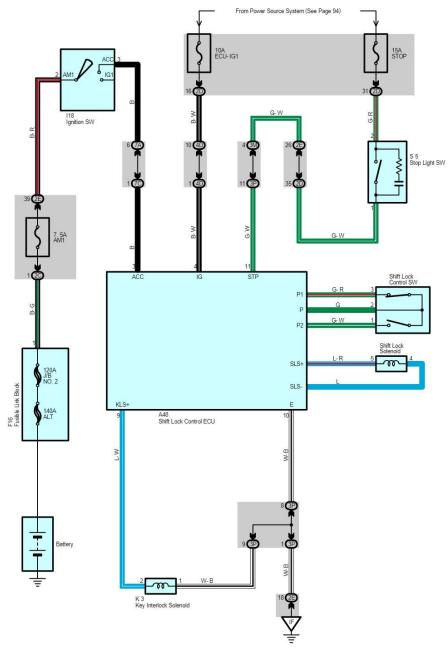
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA1	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EF1	76	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)
IB1	78	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IF1	70	1-4
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
114	80	Dash Wire and Column Wire (Near the Ignition SW)
IT1	80	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
la1	84	Dash Wire and Dash Wire (Behind the Combination Meter)
BM2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)

: Ground Points

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
IH	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BM	86	Left Rear Side Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire			



2005 LAND CRUISER (EWD601U)

System Outline

1. Shift Lock Mechanism

When the brake pedal is depressed with the ignition SW is turned on (Stop light SW on), the shift lock control ECU is activated and allows the driver to change the shift lever to a position other than P position.

2. Key Interlock Mechanism

When the ignition SW is turned on and the shift lever is at a position other than P position, shift lock control ECU is activated to flow current to the key interlock solenoid. This inhibits to turn the ignition SW from on to OFF position.

Service Hints

A48 Shift Lock Control ECU

3-Ground: Approx. 12 volts with ignition SW at ACC or ON position
4-Ground: Approx. 12 volts with ignition SW at ON or ST position
11-Ground: Approx. 12 volts with brake pedal depressed
10-Ground: Always continuity

O : Parts Location

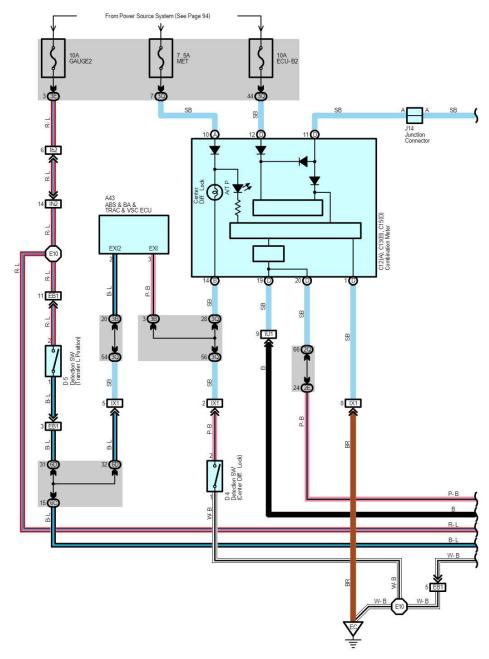
	Code	See Page	Code	See Page	Code	See Page
	A48	70	I18	70	S5	71
ı	F16	68	K3	71		

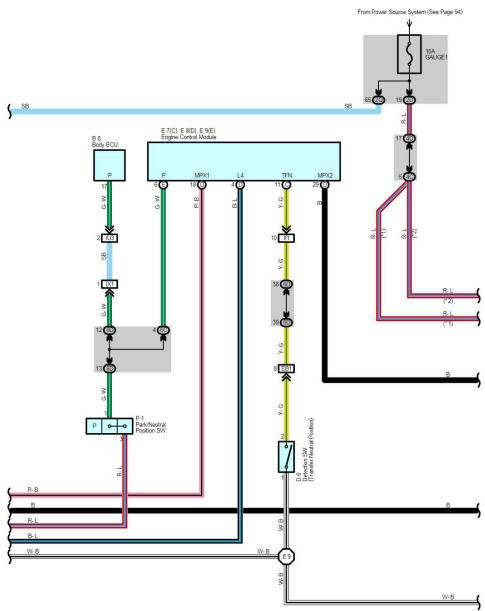
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2C	* *	
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2E	7	
ЗМ		Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3P	43	
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
7A	0.1	
7C	64	Dash Wire and J/B No.7 (Behind the Glove Box)

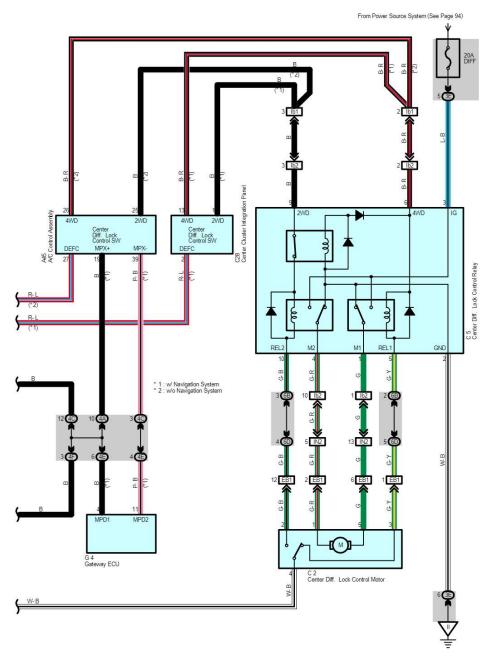
: Ground Points

Code See Page Ground Points Location		Ground Points Location	
	IF	78	Set Bolt of Cowl Side J/B LH





* 1 : w/ Navigation System * 2 : w/o Navigation System



Service Hints

C5 Center Diff. Lock Control Relay

3-Ground: Approx. 12 volts with ignition SW at ON or ST position 2-Ground: Always continuity

O : Parts Location

Co	de	See Page	Co	de	See Page	Co	de	See Page
A	43	70	C13	В	70	E7	С	70
A	45	70	C15	D	70	E8	D	70
В	8	70	C	28	70	E9	E	70
С	2	68	D	4	68	G	4	70
С	5	70	D	5	68	J.	14	71
C12	Α	70	D	6	68	F	1	69

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2D	20	Death Marriand Could Cide UD III (I at 1/Cole Death)
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A	- 1 d	
4C		
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E		N H
4F		
6B	00	Dash Wire and J/B No.6 (Behind the Grove Box)
6C	60	Dash white and 3/B No.6 (Benind the Grove Box)
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)

: Connector Joining Wire Harness and Wire Harness

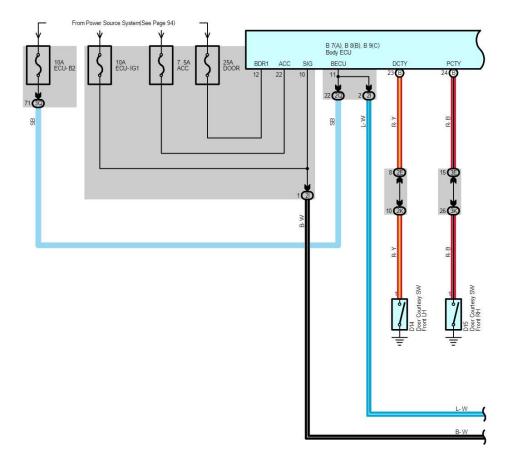
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
EB1	76	Engine Wire and Transmission Wire (On the Transmission)	
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)	
IU1	1440		
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)	
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)	
lb1			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)	
If1	84	Engine Wire and Engine Wire (Behind the Glove Box)	

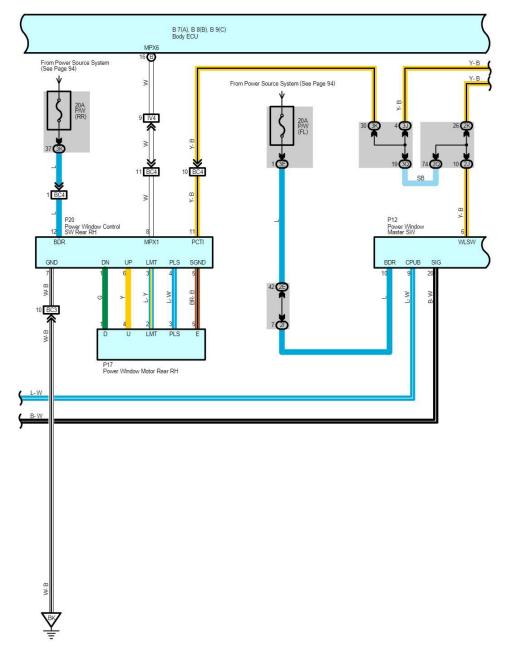
: Ground Points

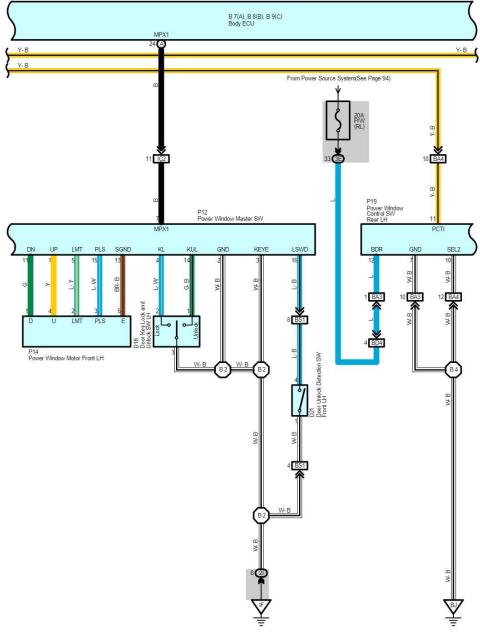
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
II.	78	Set Bolt of Cowl Side J/B RH

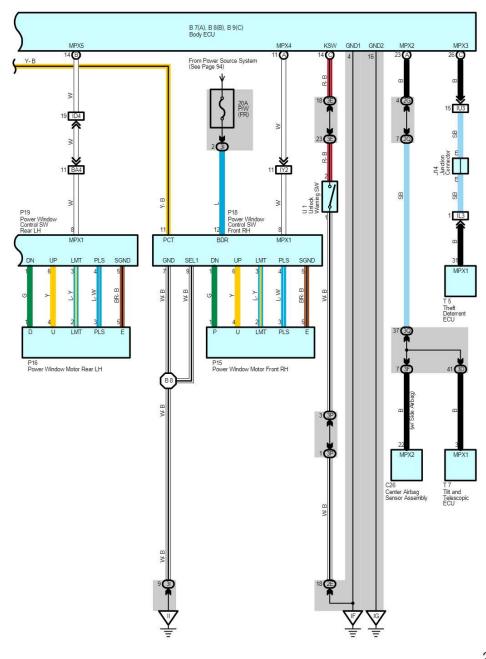
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
F9	76	Transmission Wire	F10	76	Engine Wire	









2005 LAND CRUISER (EWD601U)

Power Window

System Outline

1. Manual Down or Up Operation

When the power window master SW is pressed one step, the current flows from the power window master SW TERMINAL DN to the power window motor front LH to the power window master SW TERMINAL UP to GROUND, and rotates the motor to open the window.

When the power window master SW is pulled one step, the current flows from the power window master SW TERMINAL UP to the power window motor front LH to the power window master SW TERMINAL DN to GROUND, and rotates the motor to close the window.

For the other windows, as the power window master SW and the power window SW is operated, the relevant door window is opened or closed.

2. Auto Down or Up Operation

When the power window master SW is pushed two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL DN to the power window motor front LH to the power window master SW TERMINAL UP to GROUND, and rotates the motor to open the window automatically.

When the power window master SW is pulled two steps, the power window master SW determines it is in auto mode and the current flows from the power window master SW TERMINAL UP to the power window motor front LH to the power window master SW TERMINAL DN to GROUND, and rotates the motor to close the window automatically.

Accordingly, when each window switch of the power window control SW is operated, the relevant door window is automatically opened/closed.

3. Catching Prevention Function

When any foreign matter is caught in the window during power window up operation, the pulse sensor in the power window motor detects the changes in the number of motor rotations and forcibly opens the door window 50 mm, or when the window opening is less than 200 mm, it opens the window until the opening is 200 mm.

4. Key Off Power Window Operation

It is possible to operate the power window for approx. 43 seconds after the ignition SW is turned from on to off. However, when the door is opened while the window is being operated, the power window operation is stopped even though 43 seconds have not elapsed.

O : Parts Location

Co	ode	See Page	Code	Code See Page		See Page
B7	Α	70	D21	72	P18	73
B8	В	70	J14	71	P19	73
B9	С	70	P12	73	P20	73
С	26	70	P14	73	T5	71
D	14	72	P15	73	T7	71
D	15	72	P16	73	U1	71
D	18	72	P17	73		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2E					
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
21	0.0	5 48 4445 48 48 48 48 48 48			
2J	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D					
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3F					
31	10	5 - 1 D - DUMS - 1 O - 10:1 10 DU / D: 10 (1 D - 1)			
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q 42		Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			

: Connector Joining Wire Harness and Wire Harness

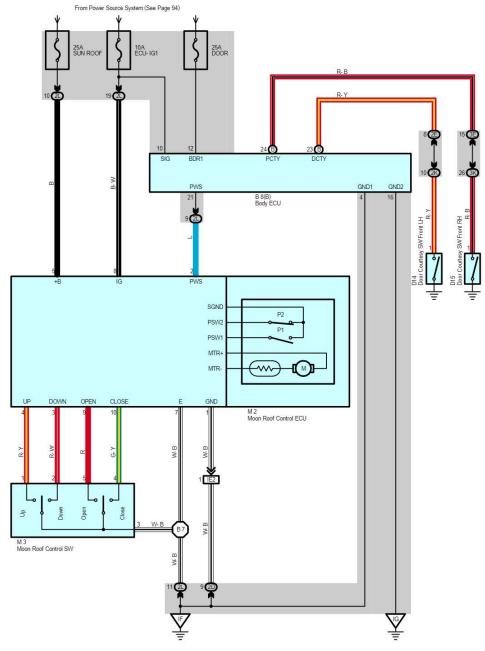
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)				
ID4 78 Dash Wire and Floor No.1 Wire (Left Kick Panel) IL3 80 Instrument Panel Integration Wire and Computer Wire (Instrument Panel Ce		Dash Wire and Floor No.1 Wire (Left Kick Panel)				
		Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)				
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)				
IY2 82		Front Door RH Wire and Dash Wire (Right Kick Panel)				
BA3						
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)				
BC3		B B BUIL 15 N BUIL 55 N BUIL 15 N BU				
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)				
BD4	BD4 86 Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)					
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)				

: Ground Points

Code	See Page	Ground Points Location			
IF	70	Cat Dall of Court Cida 1/D LLI			
IG	78	Set Bolt of Cowl Side J/B LH			
П	78	Set Bolt of Cowl Side J/B RH			
BJ	86	Under the Driver's Seat			
BK	86	Front Side Under the Front Passenger's Seat			

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2 88		Front Door LH Wire	B8	88	Front Door RH Wire
B4	88	Floor No.1 Wire			



2005 LAND CRUISER (EWD601U)

System Outline

In this system, the HALL IC in the moon roof control ECU detects the changes in motor rotation, and allows opening/closing, tilting up/down of the moon roof by one touch operation. In addition, catching prevention function during moon roof operation is also provided.

Voltage is constantly applied from the SUN ROOF fuse to the moon roof control ECU TERMINAL 5 of the moon roof control **FCII**

When the ignition SW is turned on, the current flows from the ECU-IG1 fuse to TERMINAL 8 of the moon roof control ECU.

1. Slide Open Operation

When the moon roof control SW is kept pressed to OPEN position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 5 to the moon roof control ECU TERMINAL 9. This activates the moon roof control ECU and rotates the motor to open the moon roof automatically. However, in case of pressing the moon roof control SW for 0.3 seconds or less, the moon roof can be operated manually. Then, when the limit SW No.1 is turned on and then turned off again, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is fully open, and stops the motor. If other operation SW or the open SW is operated while the moon roof is being opened, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is tilted up, the slide open operation does not function.

2. Slide Close Operation

When the moon roof control SW is kept pressed to CLOSE position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 off), a signal is input from the moon roof control SW TERMINAL 4 to the moon roof control ECU TERMINAL 10. This activates the moon roof control ECU and rotates the motor to close the moon roof automatically. However, in case of pressing the moon roof control SW for 0.3 seconds or less, the moon roof can be operated manually. Then, when the limit SW No.2 is turned on, the pulse signal sent from the HALL IC activates the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor. If other operation SW or the close SW is operated while the moon roof is being closed, the moon roof control ECU is activated to stop the moon roof operation.

When the moon roof control SW is kept pressed to UP position for approx. 0.3 seconds or longer (Limit SW No.1 off, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 1 to the moon roof control ECU TERMINAL 4. This activates the moon roof control ECU and rotates the motor to tilt up the moon roof automatically. If the pulse signal is not input from the HALL IC for 0.5 seconds or longer, it determines that the moon roof is fully tilted up, and stops the motor. If other operation SW or the tilt up SW is operated while the moon roof is being tilted up, the moon roof control ECU is activated to stop the moon roof operation. In addition, when the moon roof is opened, the tilt up operation does not function.

4. Tilt Down Operation

When the moon roof control SW is kept pressed to DOWN position for approx. 0.3 seconds or longer (Limit SW No.1 on, limit SW No.2 on), a signal is input from the moon roof control SW TERMINAL 2 to the moon roof control ECU TERMINAL 3. This activates the moon roof control ECU and rotates the motor to tilt down the moon roof automatically.

Then, when the limit SW No.1 is turned off, the pulse signal sent from the HALL IC activated the moon roof control ECU, and determines that the moon roof is closed fully, and stops the motor.

If other operation SW or the tilt down SW is operated while the moon roof is being tilted down, the moon roof control ECU is activated to stop the moon roof operation.

5. Catching Prevention Function

During slide close or tilt down operation, if the moon roof control ECU detects a catching load from the changes in the rotation of the motor, the operation is stopped, and the motor is rotated in the reverse direction.

Slide close operation

The moon roof is moved approx. 200 mm in the reverse direction (Slide open) after a catching load has been detected. However, if the full open position is detected before moving approx. 200 mm, the reverse movement is stopped.

Tilt down operation

If a catching load is detected, the moon roof is moved in the reverse direction until fully tilted up.

6. Key Off Moon Roof Operation

Within approx. 43 seconds after the ignition SW is turned from on to off, the moon roof can be operated. However, if the driver or front passenger door is opened during this period of time, the moon roof operation is stopped even though 43 seconds have not elapsed.

7. Fail-Safe Function

If the moon roof is operated continuously in the same direction, the current flowing to the motor is cut off when the time shown below has elapsed after the motor operation has been started.

- * Slide open/close operation by the moon roof SW approx. 20 seconds
- Tilt up/down operation by the moon roof SW approx. 2 second
- Slide open operation for reverse movement in case of catching prevention function approx. 20 seconds
- Tilt up operation for reverse movement in case of catching prevention function approx. 2 seconds

Moon Roof

O : Parts Location

Co	de	See Page Code See Page		Code	See Page	
B8	В	70	D15	72	M3	72
D14		72	M2	72		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
2D	20	Deeb Wire and Coul Cide I/D LLL/Left Viels Denell				
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2K 28		Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3K 40		Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				

: Connector Joining Wire Harness and Wire Harness

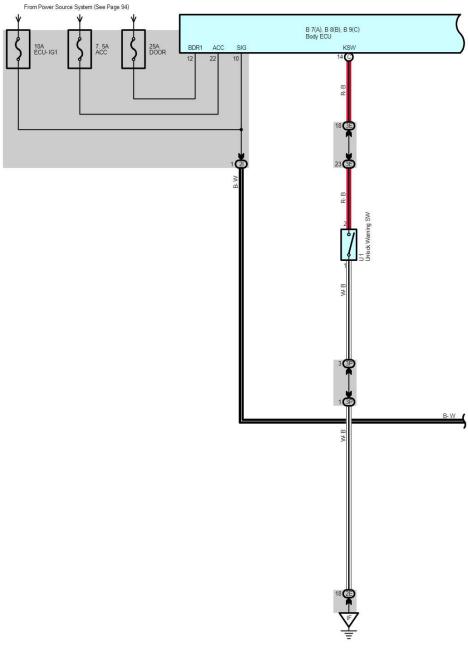
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)

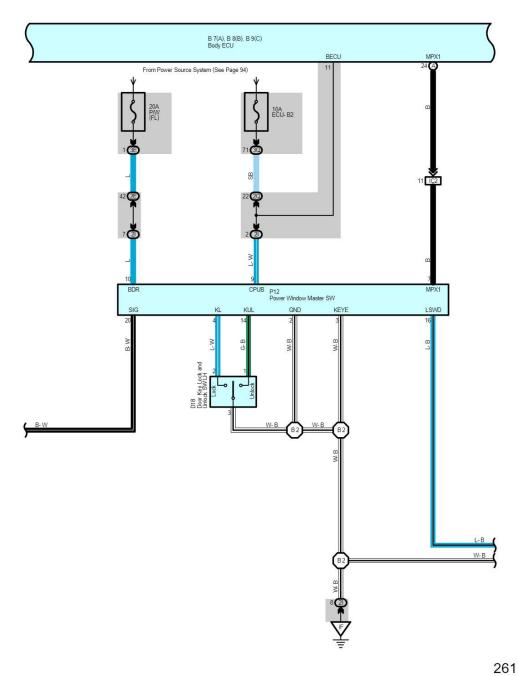
: Ground Points

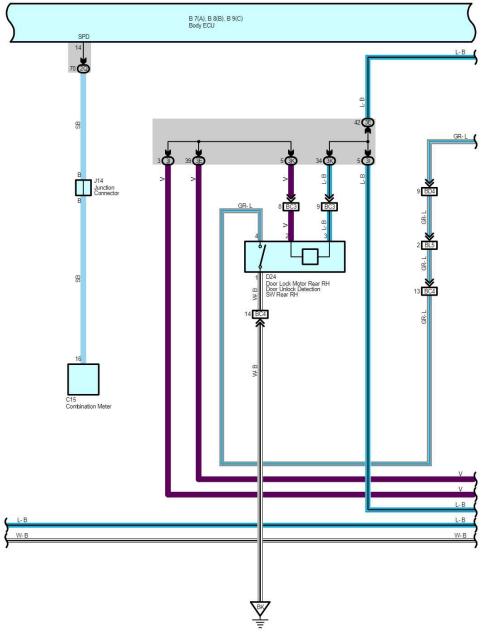
Cod	e See Page	Ground Points Location
IF	70	Set Bolt of Cowl Side J/B LH
IG	70	Set Bolt of Cowl Side 3/B LH

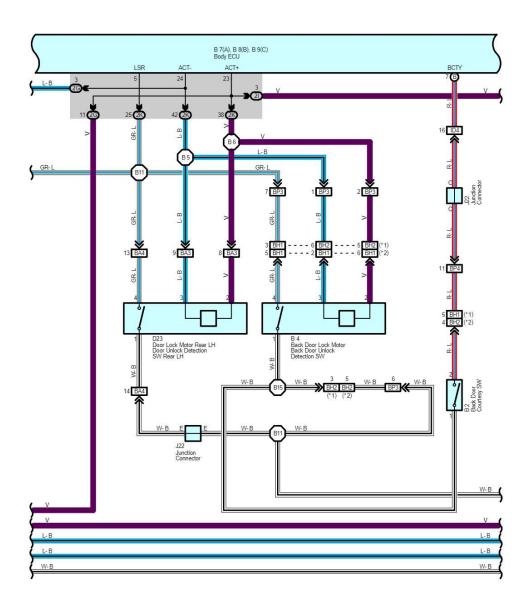
: Splice Points

Code	Code See Page Wire Harness with Splice Points		Code	See Page	Wire Harness with Splice Points
B7 88 Roof No.1 Wire					

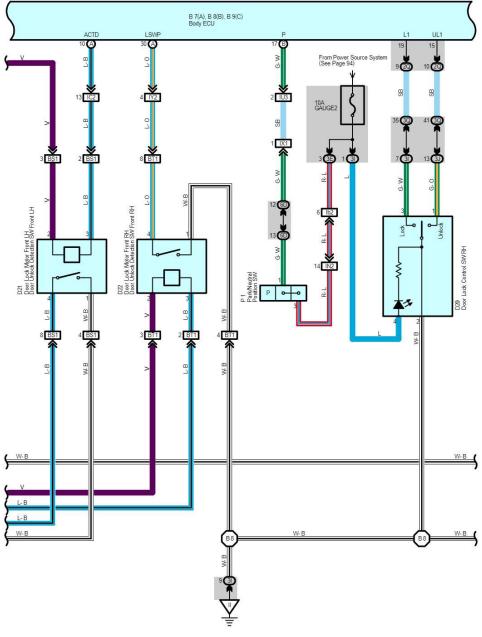


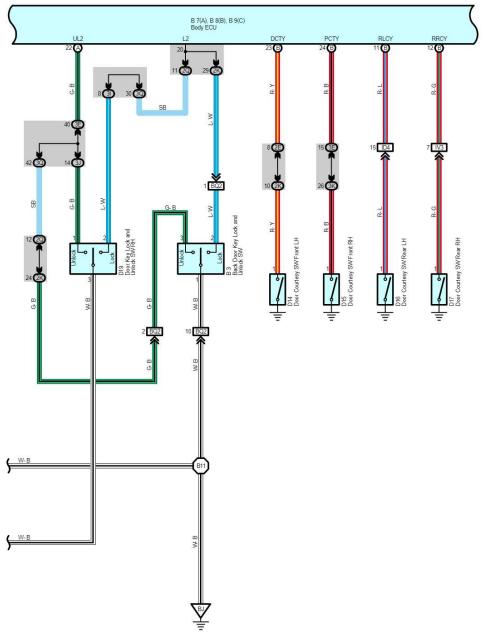




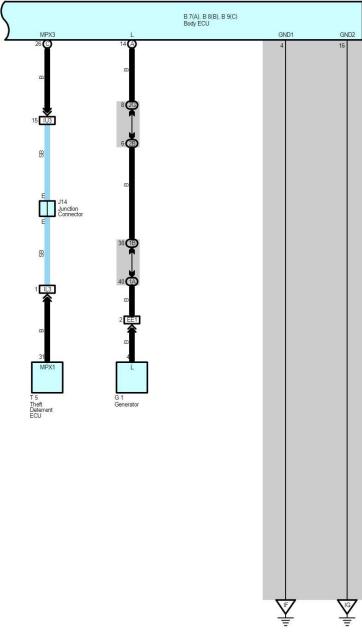


* 1 : w/ Navigation System * 2 : w/o Navigation System





2005 LAND CRUISER (EWD601U)



System Outline

The door lock control system is controlled by the body ECU.

This system has following features. However, the adopted function differs depending on the establishment.

1. Manual Lock and Unlock Operation

Pressing the power door lock switch on the driver or front passenger door to the lock side will lock all the doors and pressing it to the unlock side will unlock all the doors.

2. Key-Linked Lock and Unlock Function

This function, which is linked with the key cylinder, can lock or unlock all the doors when a lock or unlock operation is effected.

3. Manual Unlock Prohibition Function

Performing the door lock operation with a transmitter or an ignition key will prohibit the unlock operation by the door lock

4. 2-Step Unlock Function

This function is provided to unlock the driver's door by turning the key cylinder first and unlock passenger's door by turning it

5. Key Confine Prevention Function

When the key is inserted in the ignition key cylinder and if you perform the door lock operation, all the doors will be unlocked.

6. Shift-Linked Automatic Door Lock

When the conditions listed below are met consecutively, this function causes all the doors to be automatically locked.

- The ignition switch is turned from the OFF or ACC position to the ON position.
 All doors are closed.
- The shift lever is moved out of P position.
- * Either one of the doors is unlocked.

7. Theft Deterrent System-Linked Door Lock Function

When the body ECU receives the door lock signal from the theft deterrent system, "all doors lock" operation will be performed in spite of the current door lock condition.

O : Parts Location

Co	ode	See Page	Code	See Page	Code	See Page	
B2 B3 B4		72	D16 D17 D18	72	G1	68	
		72		72	J14	71	
		72		72	J22	72	
B7	Α	70	D19	72	P1	69	
B8	В	70	D20	72	P12	73	
B9	С	70	D21	72	T5	71	
С	15	70	D22	72	U1	71	
D	14	72	D23	72			
D	15	72	D24	72			

Door Lock Control

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)				
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)				
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)				
2E		Dark Wiss and Could Cide 1/D LL// -# Visit Dare)				
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	Floor No:1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
31	40	5 ID BUW IO IO I ID BUR IVI I D I				
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)				
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)				
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)				
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)				
IL3	80	ument Panel Integration Wire and Computer Wire (Instrument Panel Center)				
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)				
IU3	82	strument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)				
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)				
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)				
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
BA3						
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)				
BC3		B. B. BURY AND MORE PRINCIPLE OF BRIDE				
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)				
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				
BH1	200					
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)				
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)				
BP3		Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				
BP4	88					
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)				
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)				
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)				

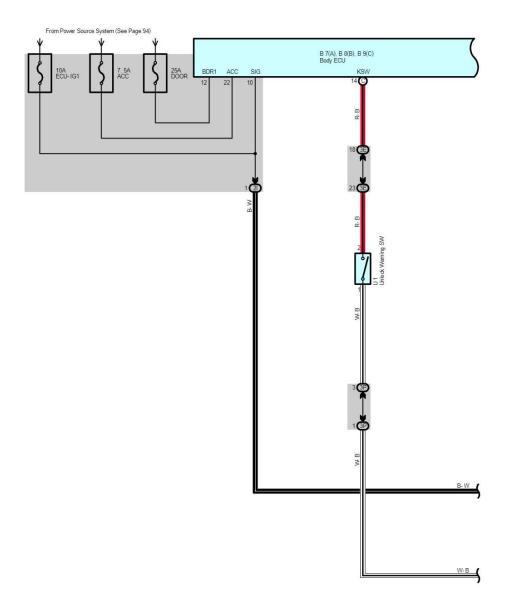
Ground Points

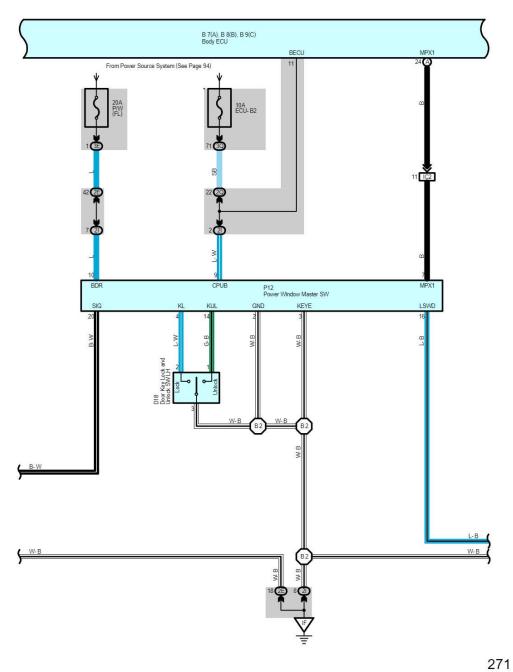
2.0			
Code	See Page	Ground Points Location	
IF	70		
IG	78	Set Bolt of Cowl Side J/B LH	
П	78	Set Bolt of Cowl Side J/B RH	
BJ	86	Under the Driver's Seat	
BK	86	Front Side Under the Front Passenger's Seat	

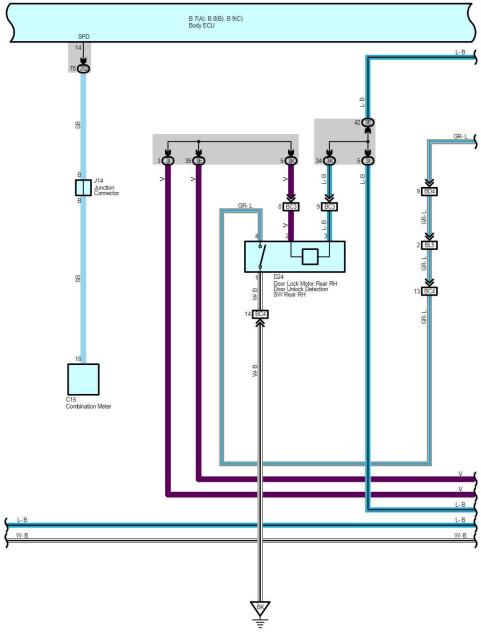


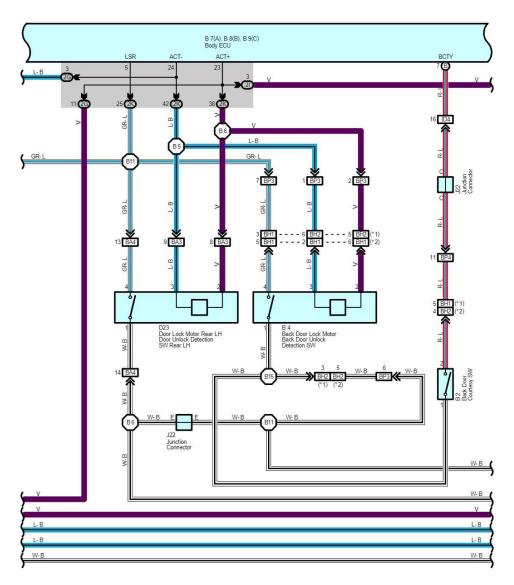
: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B5	- 88	Floor No.1 Wire	B11	88	Floor No.1 Wire
B6			B15	88	Back Door Upper Wire

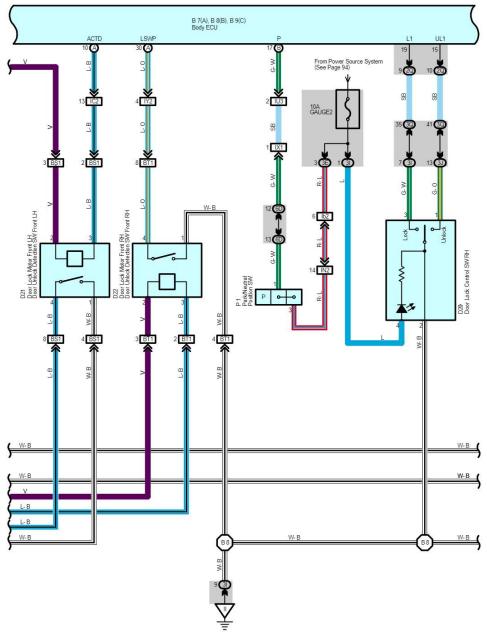


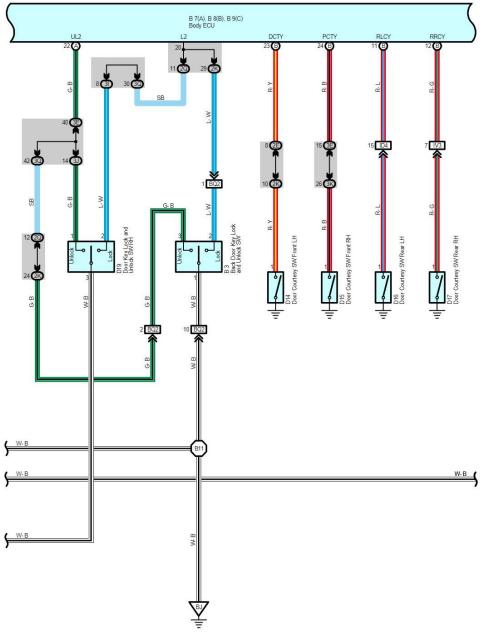




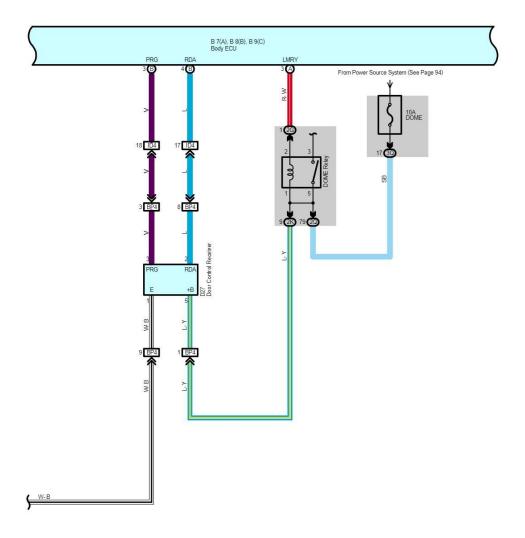


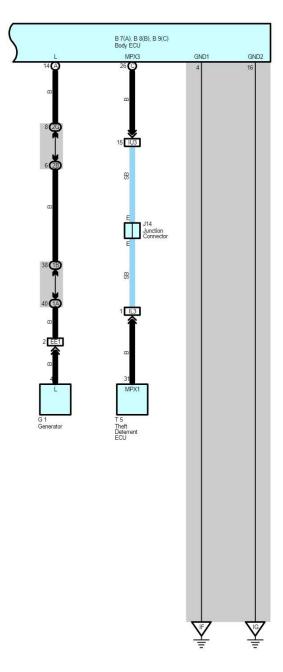
* 1 : w/ Navigation System * 2 : w/o Navigation System





2005 LAND CRUISER (EWD601U)





2005 LAND CRUISER (EWD601U)

System Outline

In this system, the door control receiver receivers weak radio wave transmitted from the transmitter built-into the ignition key, and outputs a signal to the body ECU. Accordingly, all the doors are can be locked and unlocked by remote control.

1. Normal Operation

* Lock operation

When the lock SW on the transmitter is pressed, all the doors are locked.

Unlock operation

When the unlock SW on the transmitter is pressed once, only the driver door is unlocked. When the unlock SW is pressed again within 3 seconds, all the doors are unlocked.

2. Auto Lock Function

When the door is not actually opened within 30 seconds after the door has been unlocked by the unlock SW on the transmitter, all the doors are automatically locked. If any of the following conditions are detected, the wireless door lock does

- Any door is opened.
- The ignition key is inserted into the ignition SW.
 When the unlock detection SW of all the doors are locked.

3. Wireless Door Lock Stop Function

If any of the following conditions are detected, the wireless door lock does not function.

Lock operation

- * When any door is open (Door courtesy SW on)
- * The ignition key is inserted into the ignition SW (Unlock warning SW on)
- Ignition SW is on

Unlock operation

* Ignition SW is on

4. Visual Confirmation of Lock or Unlock

During lock operation, when the door control receiver receives a lock signal from the door unlock detection SW, the turn signal light is flashed once. During unlock operation, when the door control receiver receives an unlock signal from the door unlock detection SW, the turn signal light is flashed twice.

5. Panic Mode Function

When the panic SW on the transmitter is pressed, the door control receiver receives a signal and enters the panic mode. The signal input into the theft deterrent ECU from the body ECU turns on the theft deterrent horn, and flashes the taillight and headlight. When the panic SW or the unlock SW of the transmitter is pressed during the panic mode, the panic mode is canceled, and the theft deterrent horn stops, and the taillight and headlight are turned off.

6. Repeat Function

If the lock detection signal in response to the output signal is not received after the door control receiver has output the lock signal, the lock signal is output again.

Service Hints

D27 Door Control Receiver

5-Ground: Always approx. 12 volts 1-Ground: Always continuity

D21, D22, D23, D24 Door Unlock Detection SW Front LH, RH, Rear LH, RH

1-Ground: Always continuity

B4 Back Door Unlock Detection SW

1-Ground: Always continuity

O : Parts Location

Co	ode	See Page	Code	See Page	Code	See Page	
E	32	72	D16	72	D27	72	
E	33	72	D17	72	G1	68	
Е	34	72	D18	72	J14	71	
В7	Α	70	D19	72	J22	72	
B8	В	70	D20	72	P1	69	
B9	С	70	D21	72	P12	73	
С	15	70	D22	72	T5	71	
D	14	72	D23	72	U1	71	
D	15	72	D24	72			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B 24		Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E					
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
31	10	E ID BUILD IO IO I DE DUID III CI D			
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
6D	60	Engine Wire and J/B No.6 (Behind the Grove Box)			

Wireless Door Lock Control

: Connector Joining Wire Harness and Wire Harness

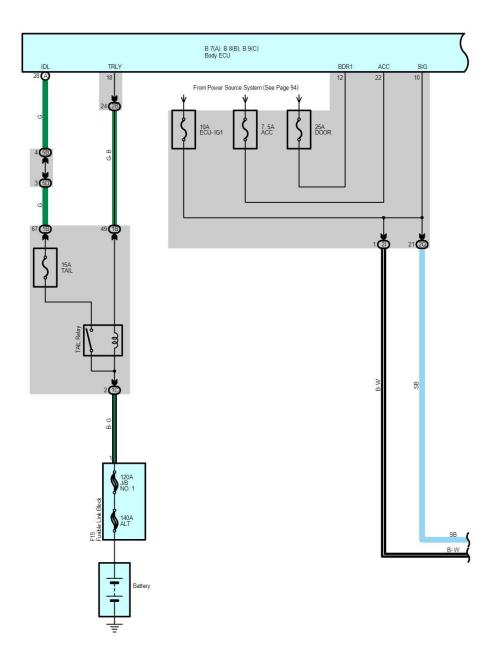
Code	See Page	ee Page Joining Wire Harness and Wire Harness (Connector Location)			
EE1	76	Engine Room Main Wire and Alternator Wire (Near the Battery)			
IC2	78 Front Door LH Wire and Dash Wire (Left Kick Panel)				
ID4	4 78 Dash Wire and Floor No.1 Wire (Left Kick Panel)				
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
BA3	86	D. D. LUME AFEL N. AMC A ACCI CO. L. DIL.)			
BA4	80	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)			
BC3	86	Described Dilly Control Class No. 2 May (Diebb Cide of Control Dilly)			
BC4	80	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1	00	Dille No. 4 May and Dead Dead Harry May (Laft City of Dead Dead)			
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BP3	00				
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)			
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)			

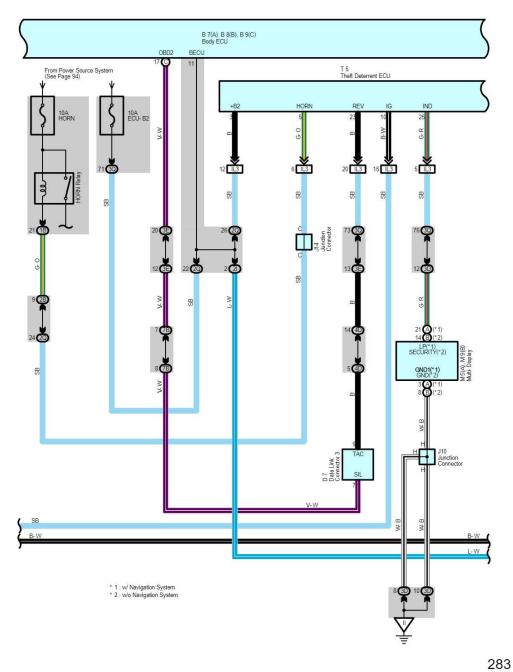
: Ground Points

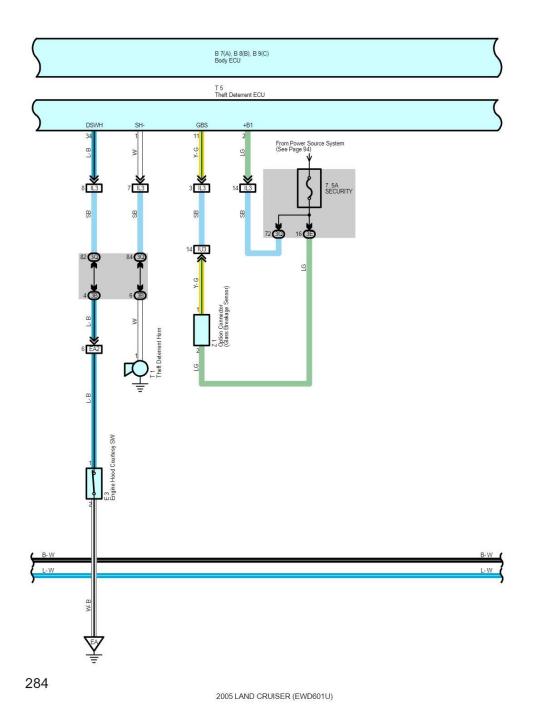
Code	See Page	Ground Points Location
IF	70	0.4.0.4.6040.410.111
IG	78	Set Bolt of Cowl Side J/B LH
11	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK 86		Front Side Under the Front Passenger's Seat

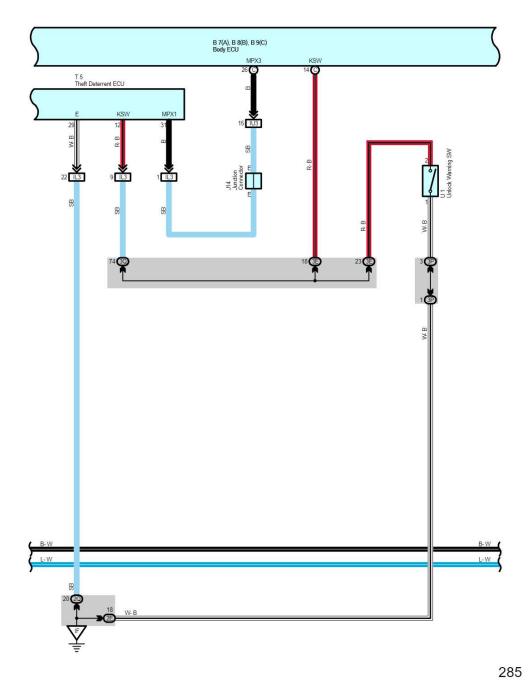
: Splice Points

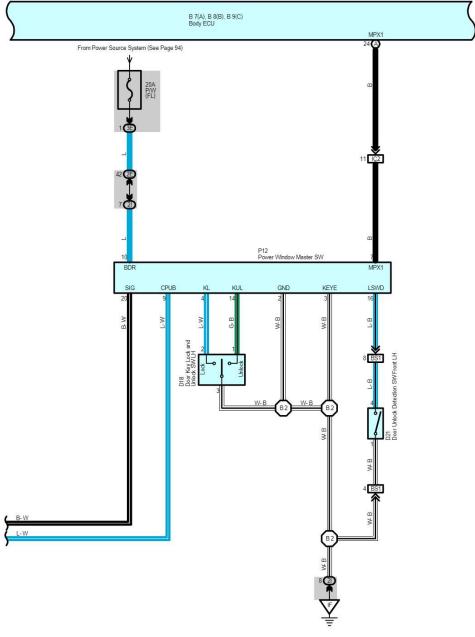
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B8	88	Front Door RH Wire
B5	0.0	ELN-4WE-	B11	88	Floor No.1 Wire
B6	88	Floor No.1 Wire	B15	88	Back Door Upper Wire

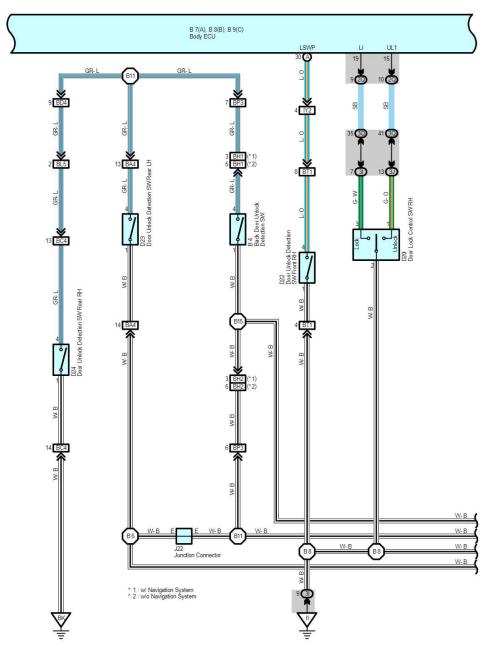




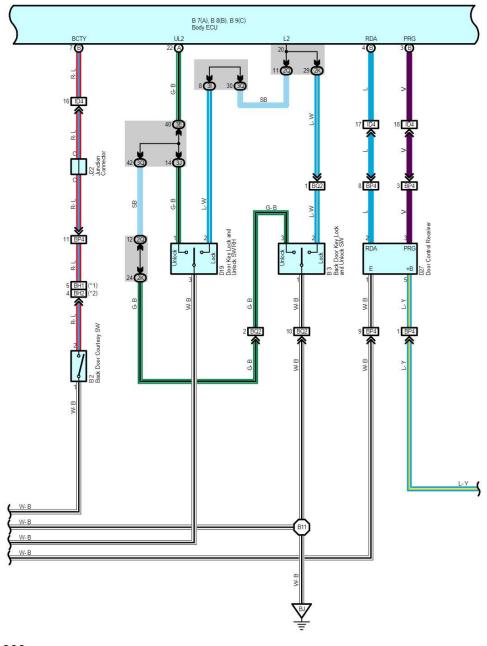




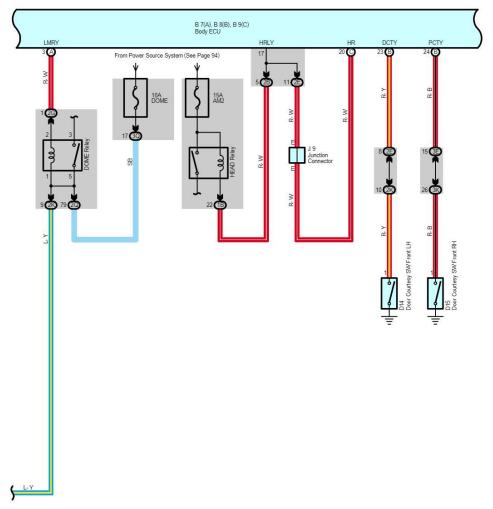




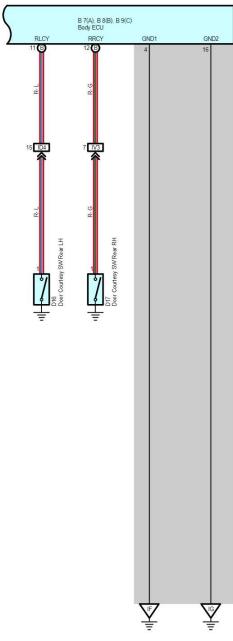
2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)



* 1 : w/ Navigation System * 2 : w/o Navigation System



Service Hints

D18, D19 Door Key Lock and Unlock SW LH, RH

1-3 : Closed with door lock cylinder unlocked with key 2-3 : Closed with door lock cylinder locked with key

B3 Back Door Key Lock and Unlock SW

3-1 : Closed with door lock cylinder unlocked with key 2-1 : Closed with door lock cylinder locked with key

E3 Engine Hood Courtesy SW

1-2 : Opened with engine hood open

U1 Unlock Warning SW
2-1: Closed with ignition key in cylinder

T5 Theft Deterrent ECU

2, 3-Ground : Always approx. 12 volts 10-Ground : Approx. 12 volts with ignition SW at ON or ST position 29-Ground : Always continuity

12-Ground : Continuity with ignition key in cylinder 34-Ground : Continuity with engine hood close

O : Parts Location

Code		See Page	Code	See Page	Co	de	See Page
B2		72	D18	72	J'	10	71
B3		72	D19	72	J ^r	14	71
B4		72	D20	72	J2	22	72
B7	Α	70	D21	72	M5	Α	71
B8	В	70	D22	72	M9	В	71
B9	С	70	D23	72	P	12	73
D	7	70	D24	72	T	1	69
D	14	72	D27	72	T	5	71
D15		72	E3	68	U	11	71
D16		72	F15	68	Z	1	71
D	17	72	J9	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	0.4	E : D NOW IE : D NOE : O 1 H M			
1C	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	00	Dest Message 4 October 10 Half (1-4 Message)			
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
21	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)			
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3D	40	D - LW 10 - 101 - WD DU /D: LU /C L D 0			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
31	40	E ID DILW. 10 10:1 ID DILW: IVICI D IV			
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3P	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
5B	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)			
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)			

Theft Deterrent

: Connector Joining Wire Harness and Wire Harness

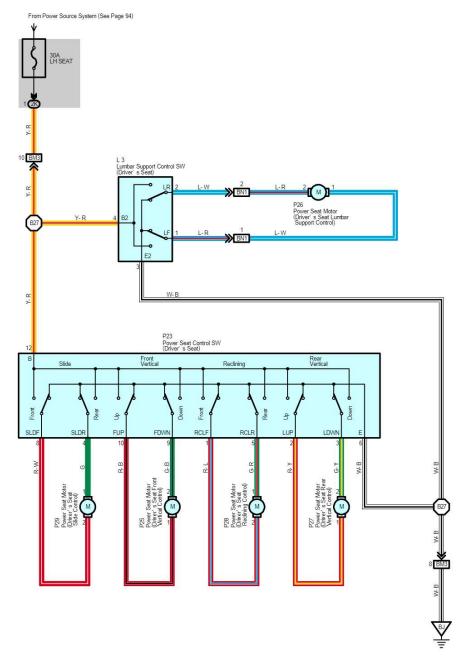
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EA2	76	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IV3	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)
BA4	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BC4	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)
BD4	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BH1		
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BL5	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BP3		
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BQ2	88	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BS1	88	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	88	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)

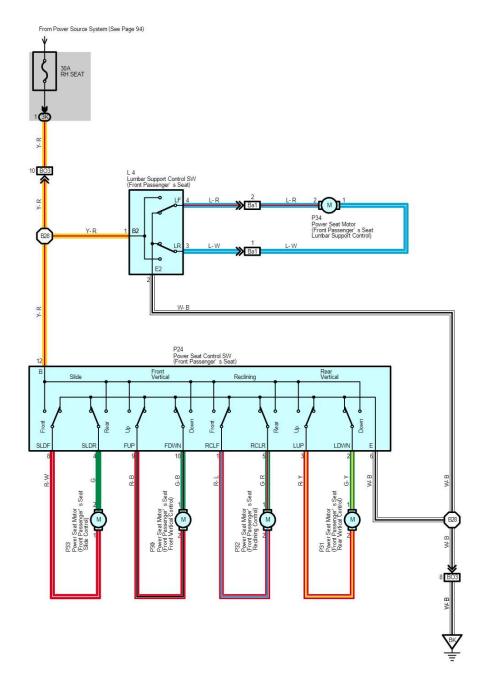
: Ground Points

Code	See Page	Ground Points Location			
EA	EA 76 Front Right Side of Fender Apron				
IF	70	0.10-11-10-10:1-10:11			
IG	78	Set Bolt of Cowl Side J/B LH			
- 11	78	Set Bolt of Cowl Side J/B RH			
BJ	86	Under the Driver's Seat			
BK 86 Front Side Under the Front Passenger's Seat		Front Side Under the Front Passenger's Seat			

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B11	88	Floor No.1 Wire
B6	88	Floor No.1 Wire	B15	88	Back Door Upper Wire
B8	88	Front Door RH Wire			





2005 LAND CRUISER (EWD601U)

Power Seat

Service Hints

P23 Power Seat Control SW (Driver's Seat)

- 12-1 : Closed with driver's seat at front reclining operation
- 12-5 : Closed with driver's seat at rear reclining operation 12-10 : Closed with driver's seat at front vertical up operation
- 12-9 : Closed with driver's seat at front vertical down operation
- 12-2 : Closed with driver's seat at rear vertical up operation 12-3 : Closed with driver's seat at rear vertical down operation
- 12-8 : Closed with driver's seat at front slide operation
- 12-4 : Closed with driver's seat at rear slide operation

6-Ground: Always continuity

P24 Power Seat Control SW (Front Passenger's Seat)

- 12-1: Closed with front passenger's seat at front reclining operation
 12-5: Closed with front passenger's seat at rear reclining operation
 12-9: Closed with front passenger's seat at front vertical up operation
- 12-10 : Closed with front passenger's seat at front vertical down operation 12-3 : Closed with front passenger's seat at rear vertical up operation 12-2 : Closed with front passenger's seat at rear vertical down operation

- 12-8 : Closed with front passenger's seat at front slide operation
- 12-4 : Closed with front passenger's seat at rear slide operation

6-Ground: Always continuity

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
L3	74	P26	74	P31	74
L4	74	P27	74	P32	74
P23	74	P28	74	P33	74
P24	74	P29	74	P34	74
P25	74	P30	74		

Junction Block and Wire Harness Connector

Code See Page Junction Block and Wire Harness (Connector Location)		Junction Block and Wire Harness (Connector Location)	
Γ	2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
Г	3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

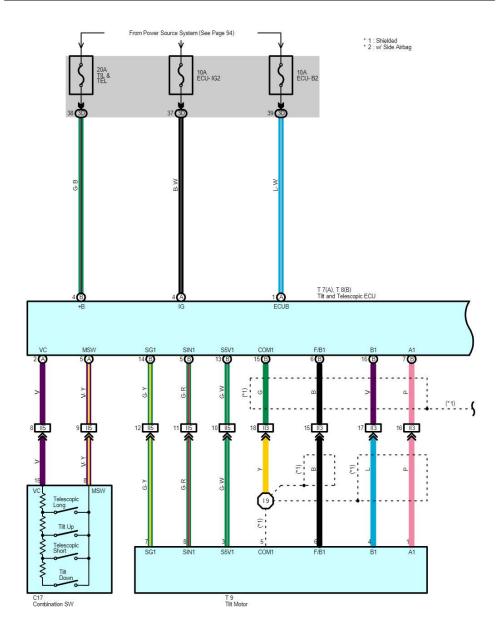
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BM3	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)
BN1	90	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)
BO3	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)
Ba1	90	Seat No.2 Wire and Front Seat RH Wire (Rear Side Under the Front Passenger's Seat)

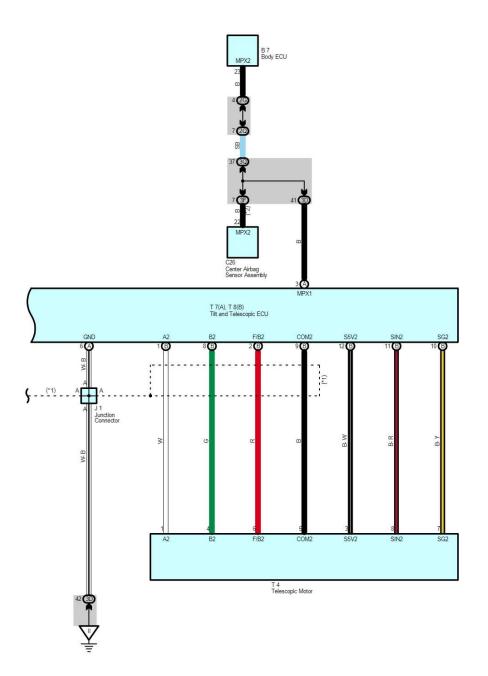
: Ground Points

Code	See Page	Ground Points Location
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B27	90	Front Seat LH Wire	B28	90	Front Seat RH Wire





2005 LAND CRUISER (EWD601U)

Power Tilt and Power Telescopic

System Outline

This system provides the automatic tilt and telescopic mechanisms using the motor drive, tilt and telescopic ECU control, allowing variable steering movement in the back and forth, and vertical directions. This makes it possible to set the steering to the desired steering position.

Service Hints

T7 (A), T8 (B) Tilt and Telescopic ECU

(A) 1-Ground : Always approx. 12 volts
(B) 4-Ground : Always approx. 12 volts
(A) 4-Ground : Approx. 12 volts with ignition SW at ON or ST position
(A) 6-Ground : Always continuity

C17 Combination SW

16-8 : Approx. 160 Ω with telescopic long operation : Approx. 360 Ω with tilt up operation : Approx. 790 Ω with telescopic short operation : Approx. 1.99 $k\Omega$ with tilt down operation

O : Parts Location

Code	See Page	Co	de	See Page	Co	de	See Page
B7	70	J	1	71	T8	В	71
C17	70	Т	4	71	Т	9	71
C26	70	T7	Α	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Deals Wise and Court Side 1/0 DH / Dialet Kiels Deals)
3F	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

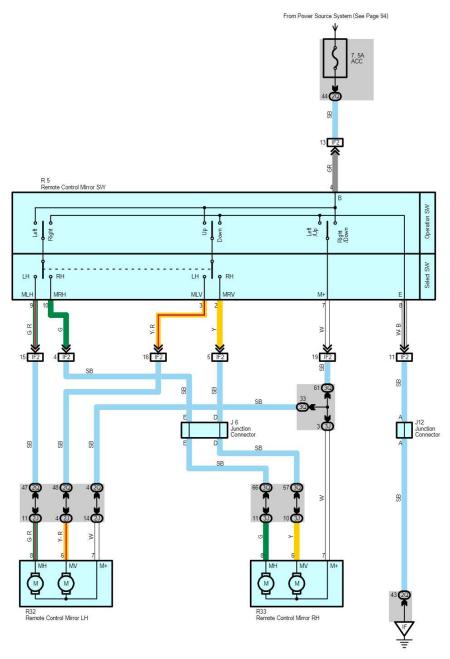
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
II3	00	Dash Wire and Column Wire (Near the Ignition SW)
115	80	Dash wire and Column wire (Near the Ignition Sw)

: Ground Points

Code	See Page	Ground Points Location
II	78	Set Bolt of Cowl Side J/B RH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	٦
19	80	Column Wire				\neg



Service Hints

R5 Remote Control Mirror SW

7-8 : Continuity with operation SW at LEFT or UP position
4-7 : Continuity with operation SW at RIGHT or DOWN position
4-9 : Continuity with operation SW at LEFT position and the select SW at LH position
4-3 : Continuity with operation SW at UP position and the select SW at LH position
8-10 : Continuity with operation SW at RIGHT position and the select SW at RH position
2-8 : Continuity with operation SW at DOWN position and the select SW at RH position
4-Ground : Approx. 12 volts with ignition SW at ACC or ON position
8-Ground : Always continuity

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
J6	71	R5	71	R33	73
J12	71	R32	73		

: Junction Block and Wire Harness Connector

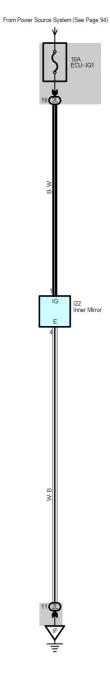
Code	See Page	Junction Block and Wire Harness (Connector Location)	
2J	28	Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)	
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)	
3J	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)

: Ground Points

	Code	See Page	Ground Points Location
Γ	IF	78	Set Bolt of Cowl Side J/B LH



Service Hints -

122 Inner Mirror

1-Ground: Approx. 12 volts with ignition SW at ON or ST position 4-Ground: Always continuity

O : Parts Location

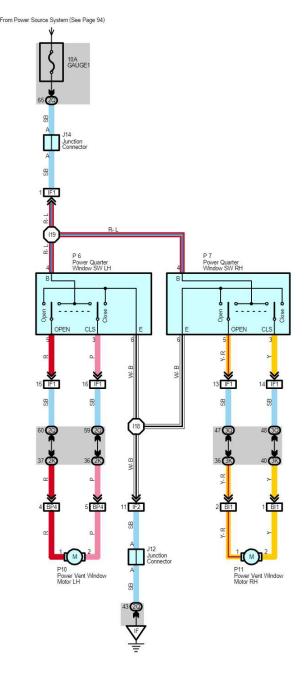
	1 (The state of t						
Code	See Page	Code	See Page	Code	See Page		
122	72						

: Junction Block and Wire Harness Connector

	Code See Page Junction Block and Wire Harness (Connector Location)		Junction Block and Wire Harness (Connector Location)
ſ	2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)

: Ground Points

Code	See Page	Ground Points Location
1F	78	Set Bolt of Cowl Side J/B LH



Service Hints

P6 Power Quarter Window SW LH

4-Ground: Approx. 12 volts with ignition SW at ON or ST position 6-Ground: Always continuity

P7 Power Quarter Window SW RH

4-Ground: Approx. 12 volts with ignition SW at ON or ST position 6-Ground: Always continuity

O : Parts Location

Code	See Page	Code	See Page	Code	See Page
J12	71	P6	71	P10	73
J14	71	P7	71	P11	73

: Junction Block and Wire Harness Connector

Code	See Page Junction Block and Wire Harness (Connector Location)		
2K 28 Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q 30 Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3K 40 Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)		Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

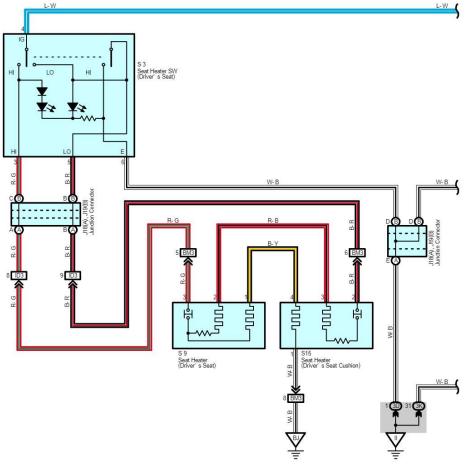
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IF1	70		
IF2	78	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)	
BI1	86	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)	
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	

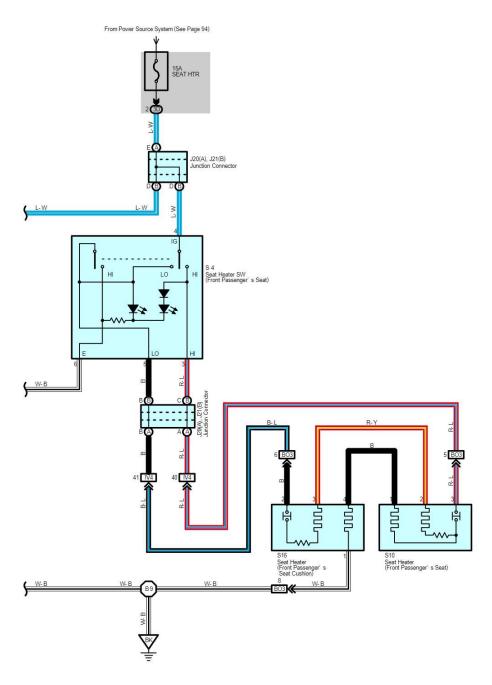
: Ground Points

Code See Page		Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
118	80	Instrument Panel Wire	119	80	Instrument Panel Wire





2005 LAND CRUISER (EWD601U)

Seat Heater

Service Hints

S3 Seat Heater SW (Driver's Seat)

4-Ground: Approx. 12 volts with ignition SW at ON or ST position 6-Ground: Always continuity

S4 Seat Heater SW (Front Passenger's Seat)
4-Ground: Approx. 12 volts with ignition SW at ON or ST position
6-Ground: Always continuity

O : Parts Location

Code		See Page	Code See Page		Code	See Page
J18	Α	71	S3	71	S15	74
J19	В	71	S4	71	S16	74
J20	Α	71	S9	74		
J21	В	71	S10	74		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)

: Connector Joining Wire Harness and Wire Harness

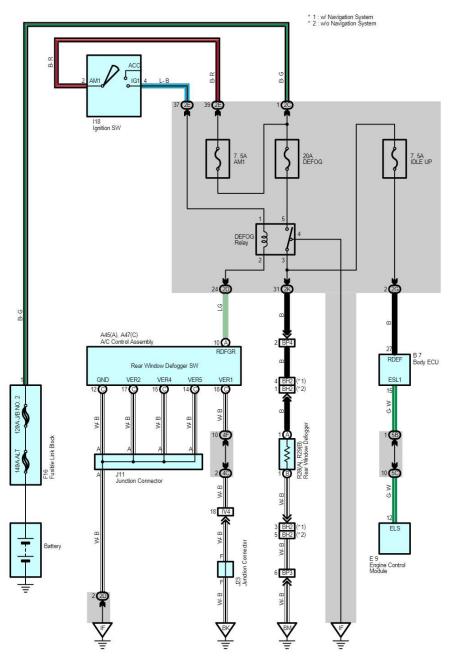
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
ID3	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)	
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)	
BM3	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)	
BO3	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)	

: Ground Points

Code	See Page	Ground Points Location
Ш	78	Set Bolt of Cowl Side J/B RH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B9	88	Floor No.2 Wire			



2005 LAND CRUISER (EWD601U)

Service Hints

A45 (A), A47 (C) A/C Control Assembly
(A)10-Ground: Approx. 12 volts with ignition SW at ON or ST position (C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground: Always continuity

O : Parts Location

Code		See Page	Code See Page		Co	ide	See Page
A45	Α	70	F16	68	R28	Α	73
A47	С	70	I18	70	R29	В	73
В	7	70	J11	71			
E9		70	J23	72			

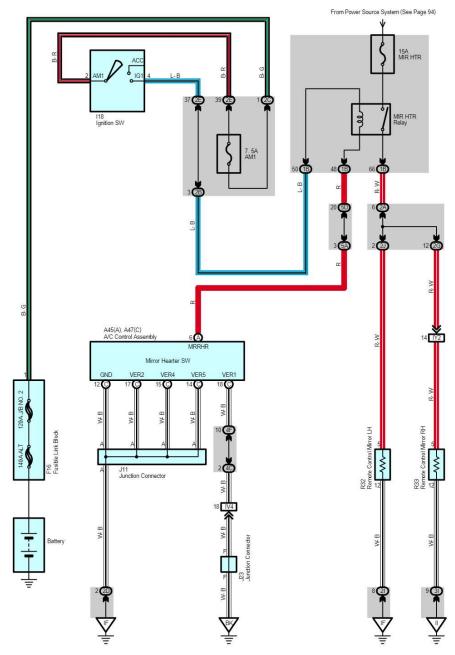
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)		
2C	2C 28 Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D				
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)		
2G				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)		
4C	50	5 1 10 10 10 10 10 10 10 10 10 10 10 10 1		
4F	52	Dash Wire and J/B No.4 (Instrument Panel Center)		
5B	50			
5C	56	Dash Wire and J/B No.5 (Behind the Combination Meter)		

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)	
BH2	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)	
BP3		57 H 492 15 H 492 4 4 5 6 4 5 H	
BP4	88	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel



2005 LAND CRUISER (EWD601U)

Service Hints

A45 (A), A47 (C) A/C Control Assembly
(A) 6-Ground: Approx. 12 volts with ignition SW at ON or ST position (C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground: Always continuity

O : Parts Location

Code		See Page	Code	See Page	Code	See Page
A45	Α	70	I18	70	R32	73
A47	С	70	J11	71	R33	73
F*	16	68	J23	72		

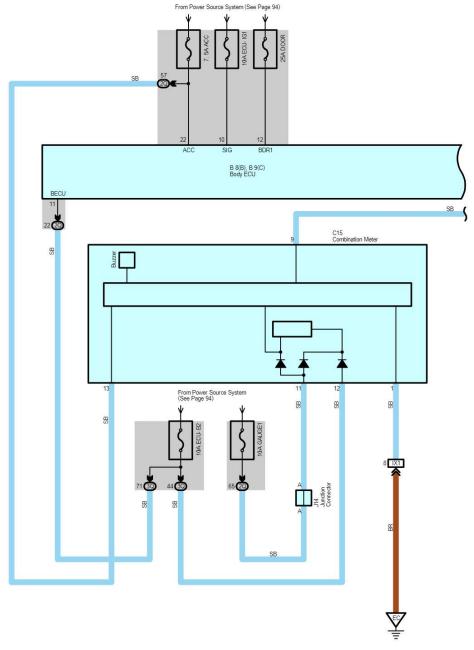
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2A		
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2C		
2D		
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2G		
21	28	F+ D 111Mf 1 C 1 Cid- 1/D 111 // -# 1/Cid- D 1)
2J		Front Door LH Wire and Cowl Side J/B LH (Left Kick Panel)
31	40	Front Door RH Wire and Cowl Side J/B RH (Right Kick Panel)
4C	FO	Back Miles and JID No. 47 and a second Back Control
4F	52	Dash Wire and J/B No.4 (Instrument Panel Center)
5A	56	Dash Wire and J/B No.5 (Behind the Combination Meter)
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)

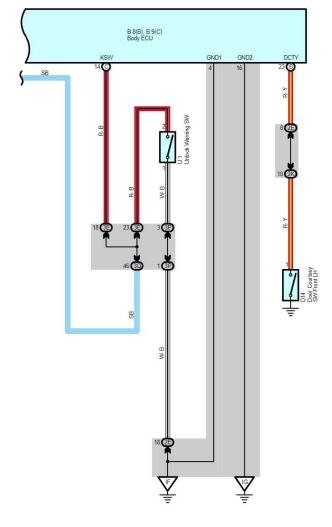
: Connector Joining Wire Harness and Wire Harness

Code	See Page	See Page Joining Wire Harness and Wire Harness (Connector Location)	
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)	
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)	

Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
П	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat



2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)

Key Reminder

System Outline

When the driver door is opened with the ignition SW off and ignition key remaining in the key cylinder (Unlock warning SW on), a signal is input from the unlock warning SW to the combination meter TERMINAL 9, the body ECU TERMINAL (C) 14, and from the door courtesy SW front LH to the body ECU TERMINAL (B)23. As a result, the buzzer in the combination meter goes on and warns the driver that the key is remaining in the key cylinder.

- Service Hints

D14 Door Courtesy SW Front LH

1-Ground: Closed with driver's door open

O : Parts Location

Code		See Page	Code	See Page	Code	See Page
B8	В	70	C15	70	J14	71
B9	С	70	D14	72	U1	71

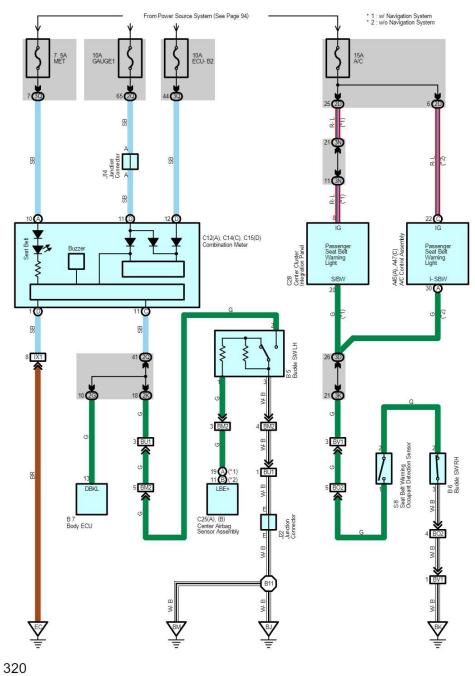
: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)				
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
2K	28	oor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)				
2Q	30	nstrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)				
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3P	43					
3Q	42	strument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)				

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	70	
IG	78	Set Bolt of Cowl Side J/B LH



2005 LAND CRUISER (EWD601U)

System Outline

When the ignition SW turned on, a signal is input to the combination meter and the center cluster integration panel (w/ navigation system) or the A/C control assembly (w/o navigation system). To determine whether the driver has fastened the seat belt, a signal is input from the buckle SW LH to the combination meter. When the seat belt is not fastened, the seat belt warning light in the combination meter blinks, and emits a warning sound.

In addition, the front passenger is recognized by a sensor (Seat belt warning occupant detection sensor) is installed in the front passenger seat, and determines whether the seat belt is fastened. When not fastened, the signals from the seat belt warning occupant detection sensor and the buckle SW RH is input to the center cluster integration panel (w/ navigation system) or the A/C control assembly (w/o navigation system), and the passenger seat belt warning light blinks to warn the passenger.

Service Hints

S8 Seat Belt Warning Occupant Detection Sensor

1-2 : Closed with passenger sit on the front passenger seat

O : Parts Location

Co	de	See Page	Co	de	See Page	Code	See Page
A45	Α	70	C12	Α	70	C28	70
A47	С	70	C14	С	70	J14	71
В	5	74	C15	D	70	J22	72
В	6	74	005	Α	70	S8	74
В	7	70	C25	В	70		

0

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)	
2D	00	B I W I I I I I I I I I I I I I I I I I	
2G	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)	
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)	
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)	
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)	

: Connector Joining Wire Harness and Wire Harness

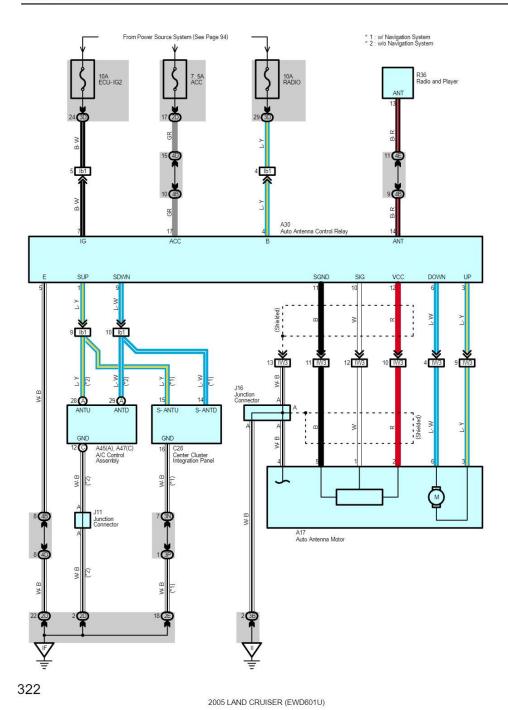
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
IX1	IX1 82 Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)					
ВМ2	90	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)				
BO2	90	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)				
BU1	88	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)				
BV1 88 Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)						

: Ground Points

Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat
BM	86	Left Rear Side Quarter Panel

: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B11	88	Floor No.1 Wire			



Service Hints

A30 Auto Antenna Control Relay

4-Ground: Always approx. 12 volts
17-Ground: Approx. 12 volts with ignition SW at ACC or ON position
7-Ground: Approx. 12 volts with ignition SW at ON or ST position
5-Ground: Always continuity

O : Parts Location

Code		See Page	Co	de	See Page	Code	See Page
A17		68	A47	С	70	J16	71
A3	30	70	C	28	70	R36	71
A45	Α	70	J.	11	71	e	

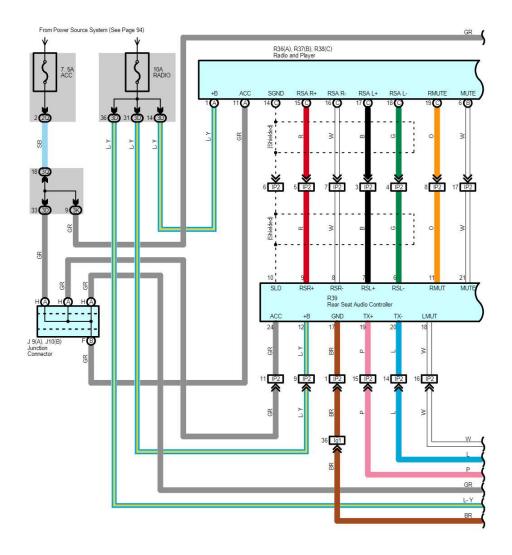
: Junction Block and Wire Harness Connector

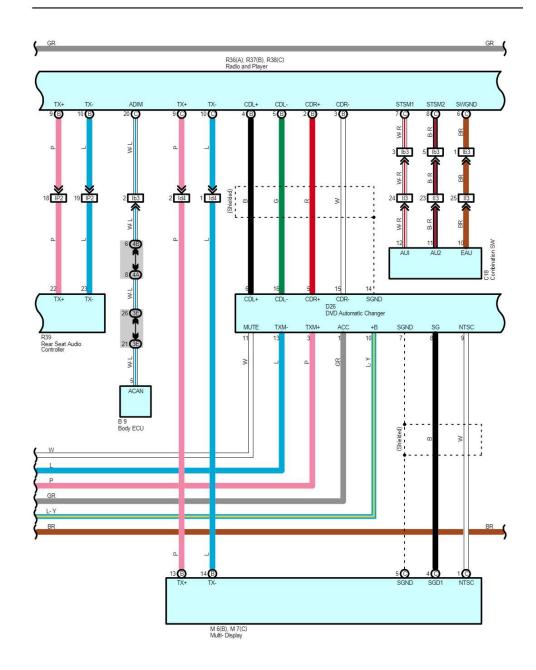
Code	See Page	Junction Block and Wire Harness (Connector Location)				
2D	00					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)				
3B	40	Engine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)				
3D	40					
3N	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)				
3P	43					
4B						
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)				
4E		and the state of t				

: Connector Joining Wire Harness and Wire Harness

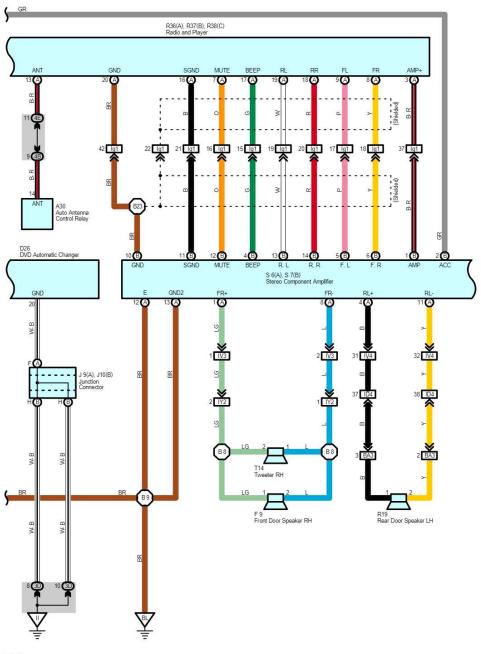
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IW3	82	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
lb1	84	Dash Wire and Dash Wire (Behind the Combination Meter)

	Code	See Page	Ground Points Location
Γ	IF	78	Set Bolt of Cowl Side J/B LH
	II	78	Set Bolt of Cowl Side J/B RH

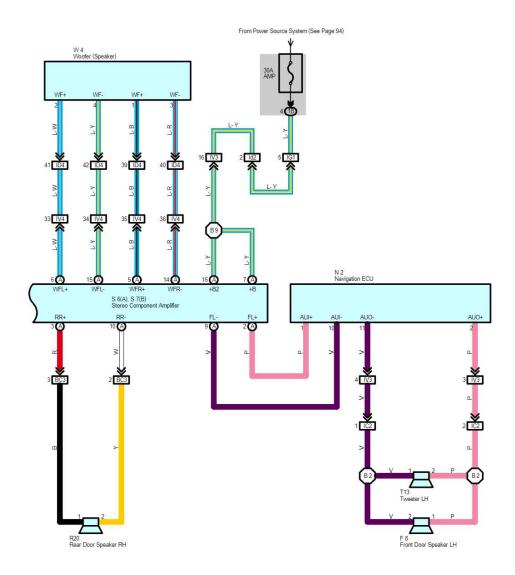




2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)



Audio System with Navigation System

Service Hints

R36 Radio and Player

1-Ground: Always approx. 12 volts
11-Ground: Approx. 12 volts with ignition SW at ACC or ON position

S6 (A), S7 (B) Stereo Component Amplifier

(A) 7, (A) 16-Ground : Always approx. 12 volts
(B) 2-Ground : Approx. 12 volts with ignition SW at ACC or ON position
(A) 12, (A) 13-Ground : Always continuity

O : Parts Location

Co	ode	See Page	Co	de	See Page	Co	de	See Page
A:	30	70	M6	В	71	R	39	71
В	39	70	M7	С	71	S6	Α	73
C.	18	70	N	2	72	S7	В	73
D:	26	70	R	19	73	T.	13	73
F	8	72	R	20	73	T.	14	73
F	9	72	R36	Α	71	V	/4	73
J9	А	71	R37	В	71			
J10	В	71	R38	С	71			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	40	Deat Wise and Could Cide UP DU (Dieth Kiel Death)
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A		
4B	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E	3	

: Connector Joining Wire Harness and Wire Harness

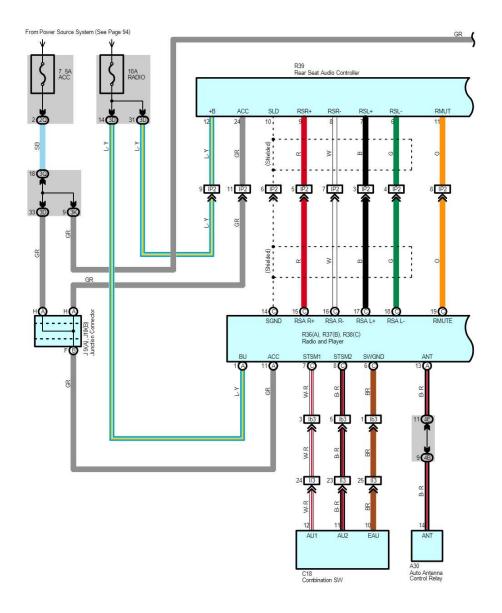
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)			
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)			
113	80	Dash Wire and Column Wire (Near the Ignition SW)			
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)			
IV3	-	B. LUE. LEE, M. BUE. (B. LUEL B. M.			
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)			
lb3	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
ld2	0.4	D-1M51D-1M5-//-11D-10-1-1			
ld4	84	Dash Wire and Dash Wire (Instrument Panel Center)			
lg1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)			
BA3	BA3 86 Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)				
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)			

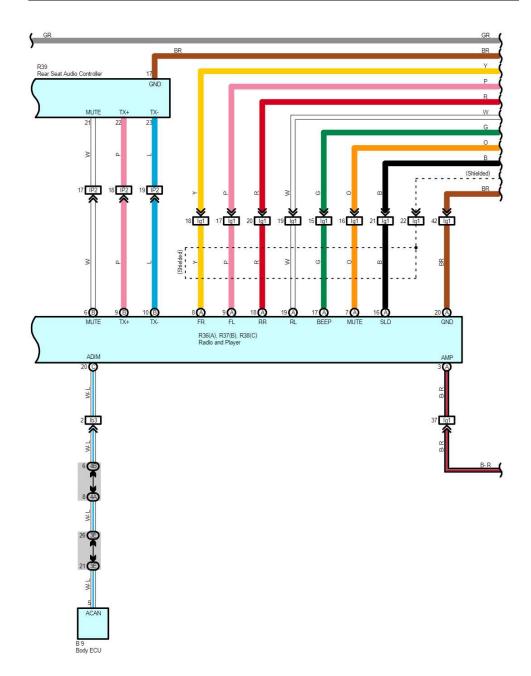
Code	See Page	Ground Points Location
П	78	Set Bolt of Cowl Side J/B RH
BL 86 Rear Side Under the Front Passend		Rear Side Under the Front Passenger's Seat



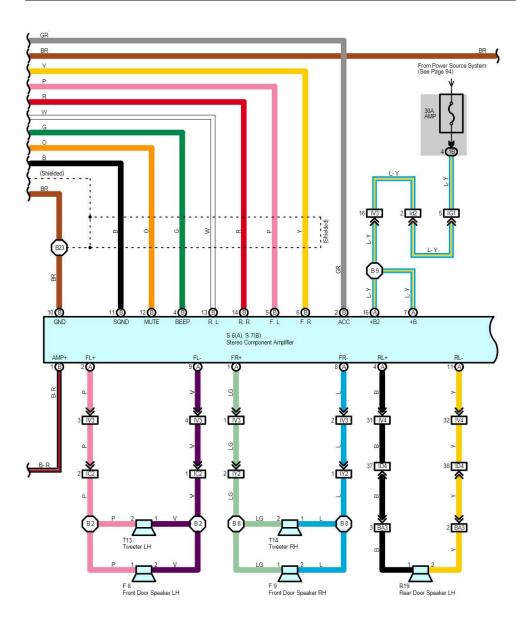
: Splice Points

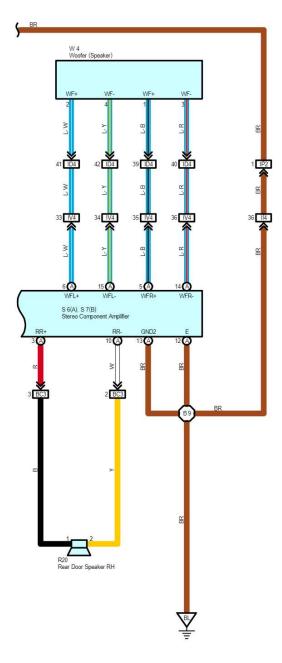
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points	
B2	88	Front Door LH Wire	B9	00	Fire No 2 Mare	
B8	88	Front Door RH Wire	B23	88	Floor No.2 Wire	





2005 LAND CRUISER (EWD601U)





2005 LAND CRUISER (EWD601U)

Audio System without Navigation System

Service Hints

R36 Radio and Player

1-Ground: Always approx. 12 volts
11-Ground: Approx. 12 volts with ignition SW at ACC or ON position

S6 (A), S7 (B) Stereo Component Amplifier

(A) 7, (A) 16-Ground : Always approx. 12 volts
(B) 2-Ground : Approx. 12 volts with ignition SW at ACC or ON position
(A) 12, (A) 13-Ground : Always continuity

O : Parts Location

Co	de	See Page	Co	de	See Page	Co	de	See Page	
A30		70	J10	В	71	R39		71	
В	9	70	R	19	73	S6	Α	73	
C,	18	70	R	20	73	S7	В	73	
F	8	72	R36	Α	71	T	13	73	
F	9	72	R37	В	71	T.	14	73	
J9 A		71 R38 C		С	71	W4		73	

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D	40	D. LWC. TO TOTAL IN BULGET U.S.			
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4B	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4E					

: Connector Joining Wire Harness and Wire Harness

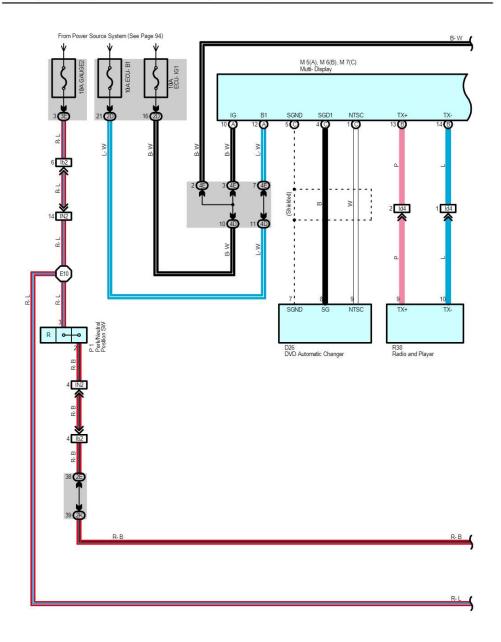
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)				
ID4	78	Dash Wire and Floor No.1 Wire (Left Kick Panel)				
IG1	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)				
II3		D 1 10 1 10 1 10 1 10 1 10 10 10 10 10 10				
114	80	Dash Wire and Column Wire (Near the Ignition SW)				
IP2	80	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)				
IV3		Dash Wire and Floor No.2 Wire (Right Kick Panel)				
IV4	82					
IY2	82	Front Door RH Wire and Dash Wire (Right Kick Panel)				
lb3	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
ld2	84	Dash Wire and Dash Wire (Instrument Panel Center)				
lg1 84		Dash Wire and Floor No.2 Wire (Right Side of Front Console)				
BA3	86	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)				
BC3	86	Rear Door RH Wire and Floor No.2 Wire (Right Side of Center Pillar)				

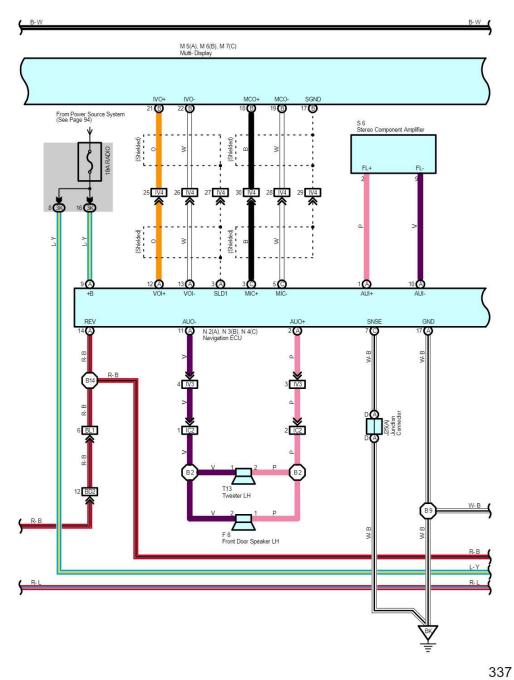
Code	See Page	Ground Points Location
BL	86	Rear Side Under the Front Passenger's Seat



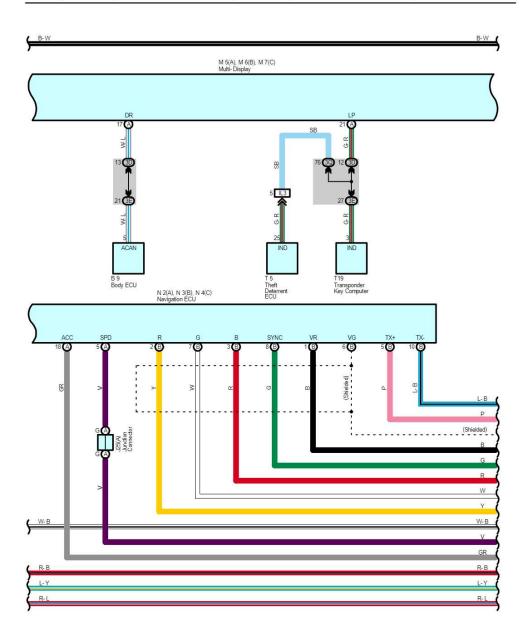
: Splice Points

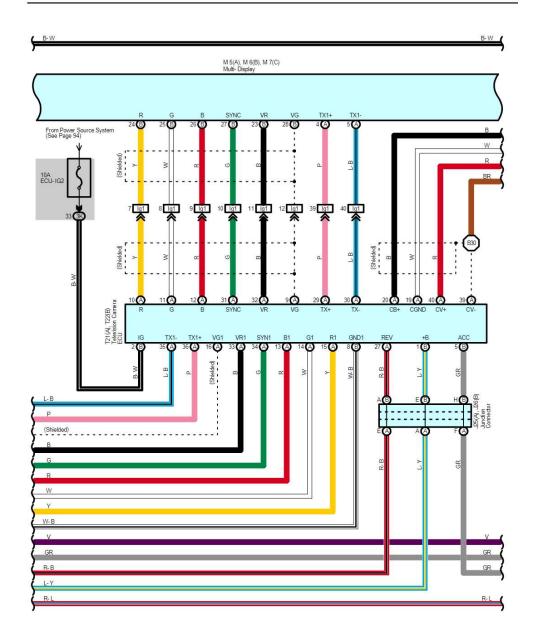
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	88	Front Door LH Wire	B9	00	Fire-N- 2MG
B8	88	Front Door RH Wire	B23	88	Floor No.2 Wire

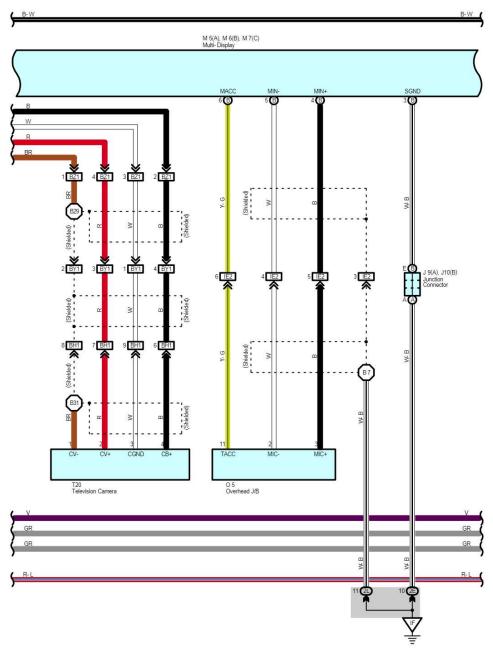




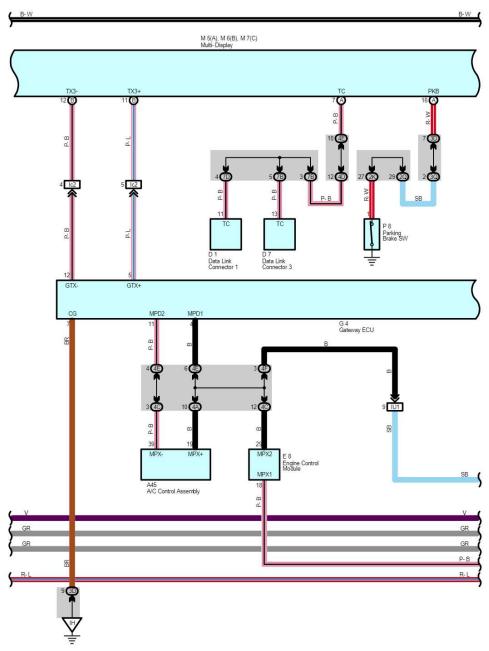
2005 LAND CRUISER (EWD601U)



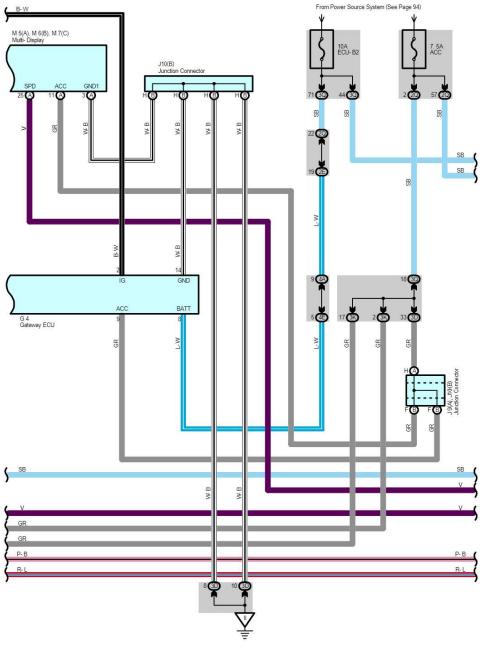




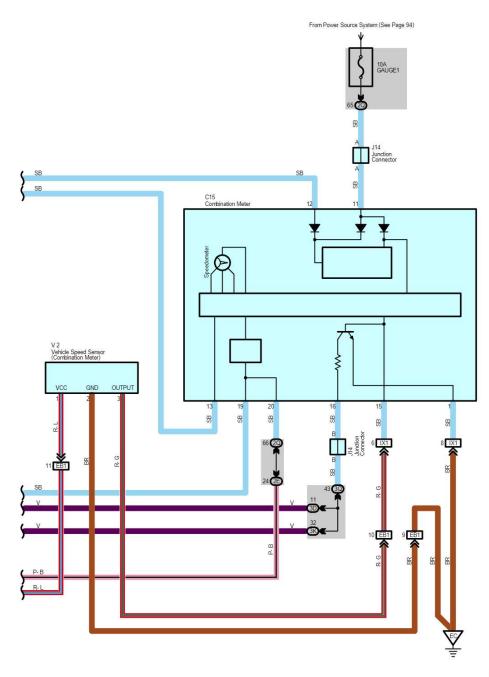
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2005 LAND CRUISER (EWD601U)

Navigation System and Parking Assist (Rear View Monitor)

System Outline

The navigation system displays the operating status and instructions for the automatic air conditioning or radio and player, as well as trip information. Additionally, the navigation system precisely measures the current vehicle position, displays the map obtained from the map database on the screen, and informs the route to the destination shown on the map using voice

Service Hints

N2 (A), N4 (C) Navigation ECU

(A) 9-Ground: Always approx. 12 volts (A)18-Ground: Approx. 12 volts with ignition SW at ACC or ON position (A)17-Ground: Always continuity

(C) 7-Ground : Always continuity

M5 (A), M6 (B) Multi-Display

(A)12-Ground: Always approx. 12 volts
(A)11-Ground: Always approx. 12 volts with ignition SW at ACC or ON position
(A)10-Ground: Approx. 12 volts with ignition SW at ON or ST position
(A) 3-Ground: Always continuity

(B) 3-Ground : Always continuity

T22 Television Camera ECU

1-Ground: Always approx. 12 volts 5-Ground: Approx. 12 volts with ignition SW at ACC or ON position 2-Ground: Approx. 12 volts with ignition SW at ON or ST position

8-Ground: Always continuity

O : Parts Location

Co	ode	See Page Code		de	See Page		de	See Page	
A	45	70	J14		71	P	8	73	
Е	39	70	J25	J25 A 72		R38		71	
С	15	70	J26	В	72	S	6	73	
Г)1	68	M5	Α	71	Т	5	71	
)7	70	M6	В	71	T.	13	73	
D	26	70	M7	С	71	T	19	71	
E	8	70	N2	Α	72	T2	20	73	
F	8	72	N3	В	72	T21	Α	73	
G	94	70	N4	С	72	T22	В	73	
J9	Α	71	0	5	72	V	2	69	
J10	В	71	P	1	69				



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
2D	20	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2E	28				
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2L	28	Roof No.1 Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3E					
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4C	52				
4D		Dash Wire and J/B No.4 (Instrument Panel Center)			
4E		8			
4F					
7B	64	Dash Wire and J/B No.7 (Behind the Grove Box)			
7D	64	Engine Room No.2 Wire and J/B No.7 (Behind the Grove Box)			

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)			
EB1	76	Engine Wire and Transmission Wire (On the Transmission)			
IC2	78	Front Door LH Wire and Dash Wire (Left Kick Panel)			
IE2	78	Dash Wire and Roof No.1 Wire (Left Kick Panel)			
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)			
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)			
IU1	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)			
IV3		B LW IF W AW B LUCI B A			
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)			
IX1	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)			
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)			
lc2	84	Dash Wire and Dash Wire (Behind the Center Panel)			
ld4	84	Dash Wire and Dash Wire (Instrument Panel Center)			
lg1	84	Dash Wire and Floor No.2 Wire (Right Side of Front Console)			
BD2	86	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)			
BH1	86	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)			
BL1	88	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)			
BY1	88	Pillar No.1 Wire and Floor No.3 Wire (Left Rear Side Quarter Panel)			
BZ1	88	Floor No.3 Wire and Floor No.2 Wire (Right Side of Rear Floor Crossmember)			

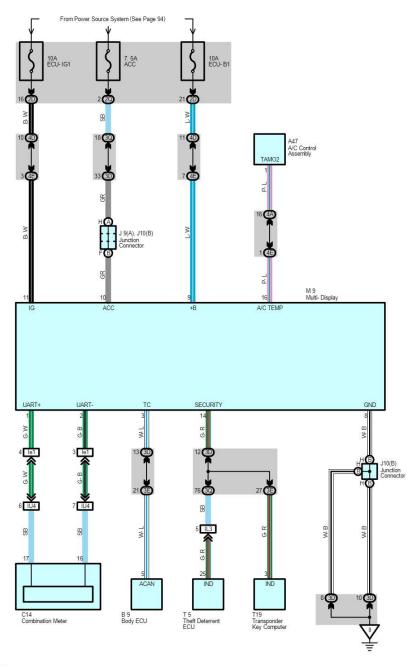
Code	See Page	Ground Points Location	
EC	76	Rear Bank of Right Cylinder Head	
IF	78	Set Bolt of Cowl Side J/B LH	
IH			
II	78	Set Bolt of Cowl Side J/B RH	
BK	86	Front Side Under the Front Passenger's Seat	

Navigation System and Parking Assist (Rear View Monitor)



: Splice Points

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	76	Engine Wire	B14	88	Floor No.2 Wire
B2	88	Front Door LH Wire	B29	88	Floor No.3 Wire
В7	88	Roof No.1 Wire	B30	88	Floor No.2 Wire
B9	88	Floor No.2 Wire	B31	88	Back Door Upper Wire



2005 LAND CRUISER (EWD601U)

Service Hints

M9 Multi-Display

9-Ground: Always approx. 12 volts
10-Ground: Approx. 12 volts with ignition SW at ACC or ON position
11-Ground: Approx. 12 volts with ignition SW at ON or ST position
8-Ground: Always continuity

O : Parts Location

Code	See Page	Co	de	See Page	Code	See Page
A47	70	J9	Α	71	T5	71
B9	70	J10	В	71	T19	71
C14	70	IV.	19	71	8 8	

: Junction Block and Wire Harness Connector

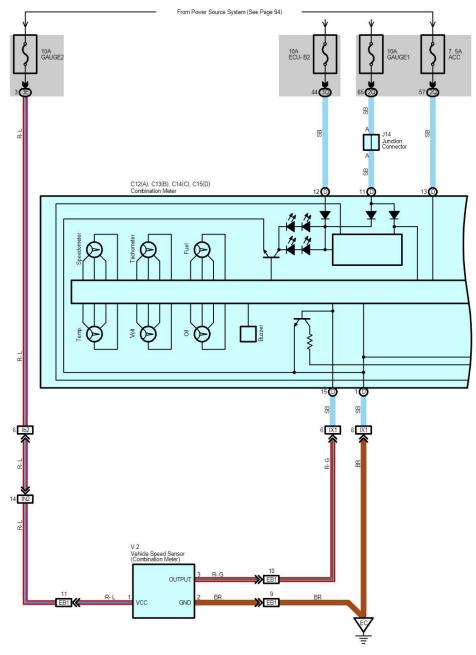
Code	See Page	Junction Block and Wire Harness (Connector Location)	
2D	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)	
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)	
3D	10	D. LW. LO. LOT INDRIVE LIKELD IN	
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)	
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)	
4A			
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)	
4F			

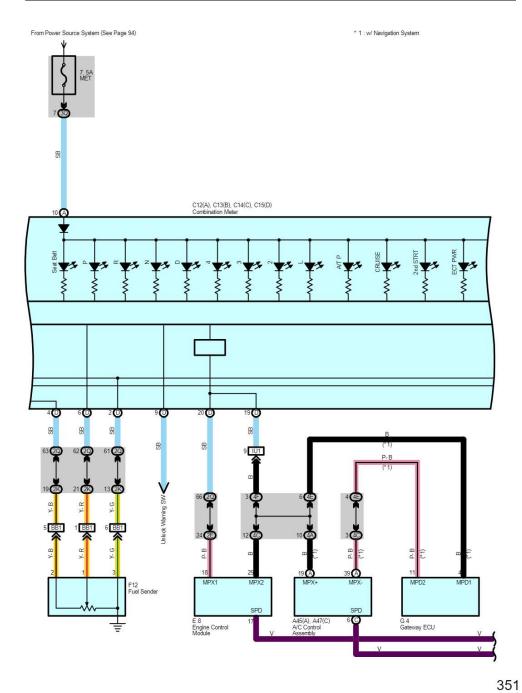
: Connector Joining Wire Harness and Wire Harness

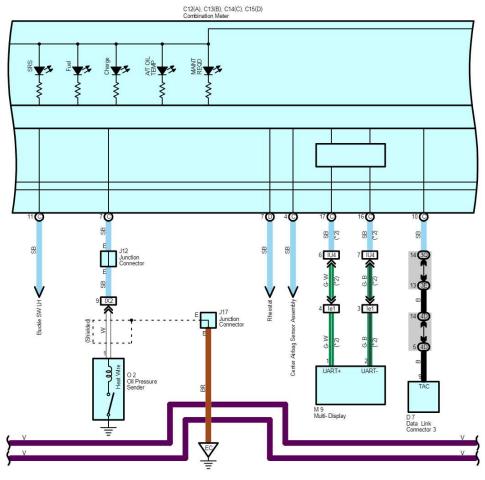
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IL3	80	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)	
IU4	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)	
le1	84	Dash Wire and Dash Wire (Behind the Glove Box)	

: Ground Points

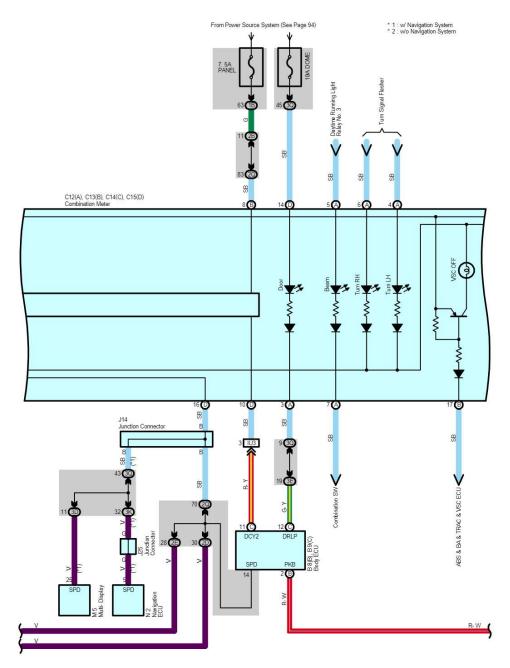
Code	See Page	Ground Points Location
- II	78	Set Bolt of Cowl Side J/B RH





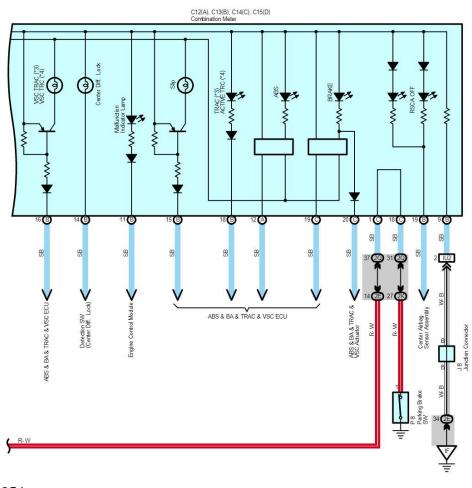


2005 LAND CRUISER (EWD601U)



2005 LAND CRUISER (EWD601U)

* 3 : USA * 4 : Except *3



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Service Hints

C12 (A), C13 (B), C15 (D) Combination Meter

(D)12, (D) 14-Ground: Always approx. 12 volts
(D) 13-Ground: Approx. 12 volts with ignition SW at ACC or ON position
(A) 10, (D) 11-Ground: Approx. 12 volts with ignition SW at ON or ST position
(B) 8-Ground: Approx. 12 volts with light control SW at TAIL or HEAD position
(B) 9, (D) 1-Ground: Always continuity

O : Parts Location

Code		See Page	Code	See Page	Code	See Page
A45	Α	70	D7	70	J25	72
A47	С	70	E8	70	M5	71
B8	В	70	F12	72	M9	71
B9	С	70	G4	70	N2	72
C12	Α	70	J8	71	O2	69
C13	В	70	J12	71	P8	73
C14	С	70	J14	71	V2	69
C15	D	70	J17	71		

: Junction Block and Wire Harness Connector

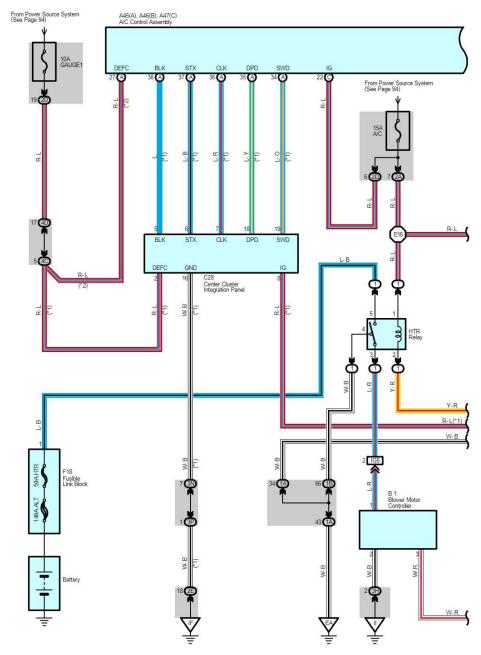
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)
2B	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)
2D	-	D. LW LO. LGL. IDLUG BIKLD. B
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2K	28	Floor No.1 Wire and Cowl Side J/B LH (Left Kick Panel)
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3D	10	Destable and out of the DITABLE Production
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)
4A		
4C	7	
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)
4E		The second secon
4F	7	

: Connector Joining Wire Harness and Wire Harness

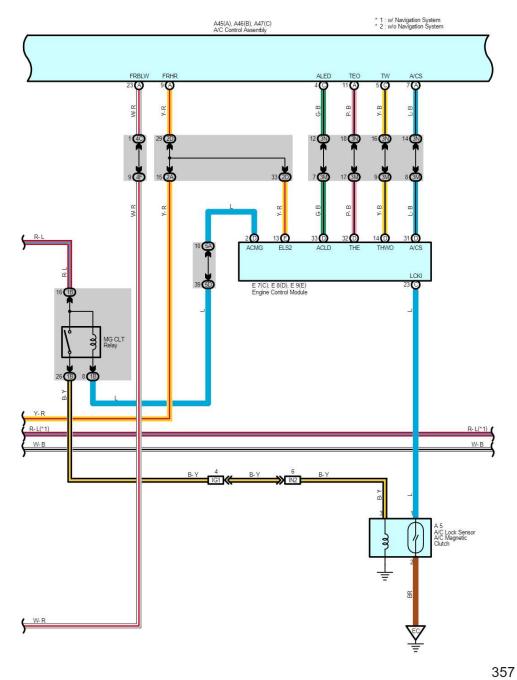
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)				
EB1	76	Engine Wire and Transmission Wire (On the Transmission)				
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)				
IU1						
IU2						
IU3	82	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)				
IU4						
IX1	00					
IX2	82	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)				
lb2	84	Dash Wire and Dash Wire (Behind the Combination Meter)				
le1	84	Dash Wire and Dash Wire (Behind the Glove Box)				
BB1	86	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)				

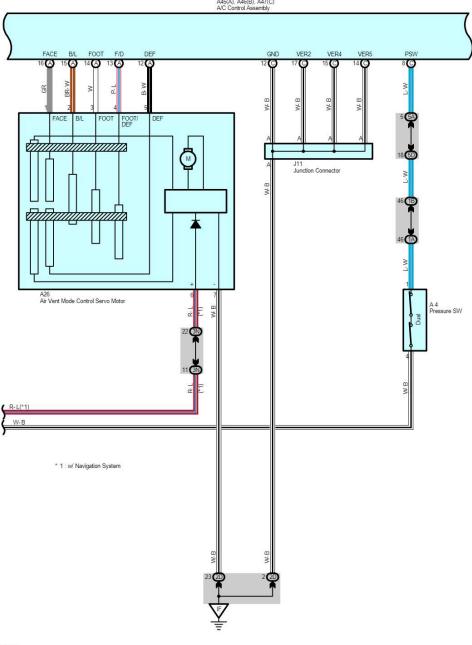
: Ground Points

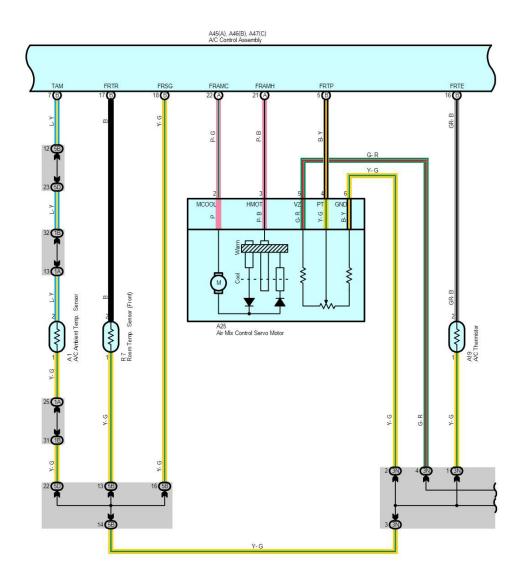
15		
Code	See Page	Ground Points Location
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH

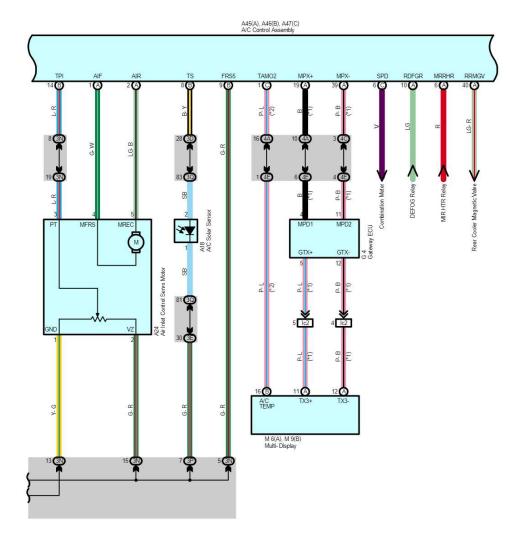


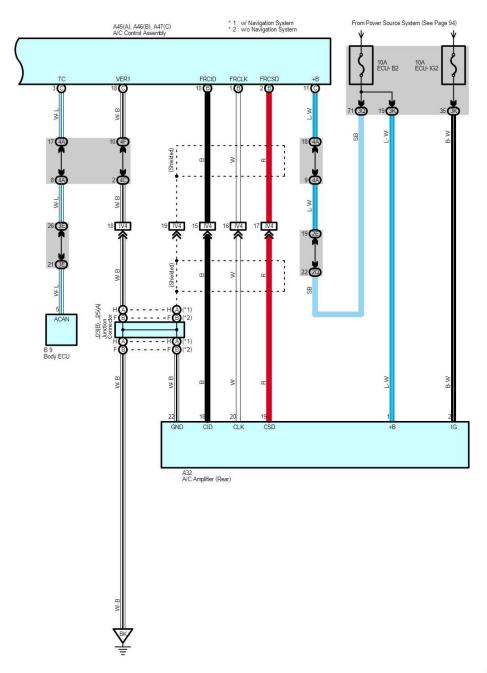
2005 LAND CRUISER (EWD601U)











2005 LAND CRUISER (EWD601U)

Air Conditioning (Front)

System Outline

1. Heater Blower Operation

Manual operation

When the blower speed is set ant any speed by the blower control SW, the A/C control assembly sends a signal to the blower motor controller, and controls the blower motor speed.

When the auto SW is operated, the A/C control assembly sends signals to the blower motor controller, according to the signals from respective sensors, commands from the temperature SW etc., and controls the blower motor automatically.

2. Air Inlet Control Servo Motor Control

When the FRESH/RECIRC select SW is switched to RECIRC, the motor in the air inlet control servo motor rotates to move the damper to the RECIRC side. The damper position is recognized by the A/C control assembly TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is switched to FRESH, the motor in the air inlet control servo motor rotates to move the damper to the FRESH side. The damper position is recognized by the A/C control assembly TERMINAL TPI, and rotates the motor until the damper reaches its position.

When the FRESH/RECIRC select SW is set to auto, the exhaust gas sensor in the engine room detects the ingredient of the exhaust emission, and switches the FRESH/RECIRC mode automatically.

3. Air Vent Mode Control Servo Motor

When the mode select SW in the A/C control assembly is pushed, a signal is sent from the A/C control assembly, and activates the air vent mode control servo motor. This causes the servo motor to rotate to the position selected using the mode select SW (FACE, BI-LEVEL, FOOT, FOOT/DEF, DEF), and moves the damper.

When the temperature control SW in the A/C control assembly is pushed, a signal is sent from the A/C control assembly, and activates the air mix control servo motor. The motor and damper is moved until it reaches the temperature set by the temperature control SW.

5. Air Conditioning Operation

The A/C control assembly receives various signals, i. e., the engine RPM from the crankshaft position sensor, outlet temperature from the A/C ambient temp. sensor, coolant temperature from the engine coolant temp. sensor, and the lock signal from the A/C compressor, etc. When the engine is started and the A/C SW is turned on, a signal is sent to the A/C

control assembly. As a result, the magnetic clutch is turned on and operates the compressor. In addition, when the engine control module detects that the magnetic clutch is on and the A/C compressor is operating, it controls the engine in the direction to avoid lowering the engine RPM during A/C operation.

When any of the following signals are sent to the A/C control assembly, the A/C is turned off.

- * Coolant temp. is high.
- * Outlet air temp, is low.
- Large difference between the engine speed and compressor speed.
- * The refrigerant pressure is abnormally high or low.

Service Hints

A45 (A), A47 (C) A/C Control Assembly

(C)11-Ground: Always approx. 12 volts

(C)22-Ground: Approx. 12 volts with ignition SW at ON or ST position

(A)27-Ground: Approx. 12 volts with ignition SW at ON or ST position (w/o navigation system) (C)12, (C) 14, (C) 15, (C) 17, (C) 18-Ground: Always continuity

C28 Center Cluster Integration Panel (w/ Navigation System)

2-Ground: Approx. 12 volts with ignition SW at ON or ST position 16-Ground: Always continuity

O : Parts Location

Code	See Page	Co	de	See Page	Co	de	See Page
A1	68	A45	Α	70	F1	18	68
A4	68	A46	В	70	G	4	70
A5	68	A47	С	70	J1	11	71
A18	70	В	1	70	J23	В	72
A19	70	В	9	70	J25	Α	72
A24	70	C	28	70	M6	Α	71
A25	70	E7	С	70	M9	В	71
A26	70	E8	D	70	R	7	71
A32	72	E9	Е	70			

: Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
1	22	Engine Room R/B (Engine Compartment Left)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1A	24	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2A	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D	20	Death Miss and Cond Cide UD LLL (Left Viel Death)			
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3D					
3E	40	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3H					
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
ЗМ					
3N	43	Dash Wire and Cowl Side J/B RH (Right Kick Panel)			
3P					
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4C					
4D	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4E					
4F					
5A	56	Dash Wire and J/B No.5 (Behind the Combination Meter)			
5B	30	Dash write and 3/D No.3 (Defined the Combination Weter)			
5D	56	Engine Room No.2 Wire and J/B No.5 (Behind the Combination Meter)			

: Connector Joining Wire Harness and Wire Harness

_			
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IG1	and the second	E : E U OUE 15 JUE 15 J	
IG5	78	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)	
IN2	80	Engine Wire and Dash Wire (Behind the Glove Box)	
IV4	82	Dash Wire and Floor No.2 Wire (Right Kick Panel)	
Ic2	84	Dash Wire and Dash Wire (Rehind the Center Panel)	

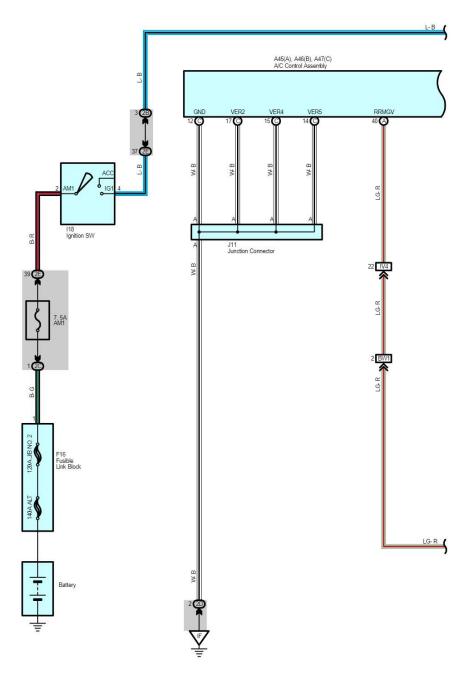
Air Conditioning (Front)

: Ground Points

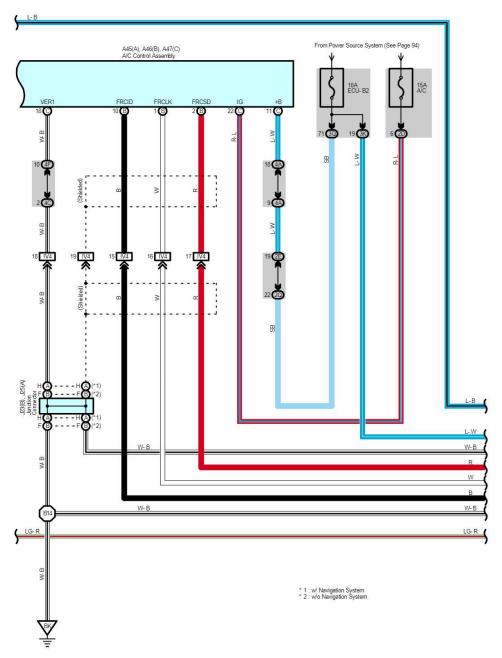
Code	See Page	Ground Points Location
EA	76	Front Right Side of Fender Apron
EC	76	Rear Bank of Right Cylinder Head
IF	78	Set Bolt of Cowl Side J/B LH
П	78	Set Bolt of Cowl Side J/B RH
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

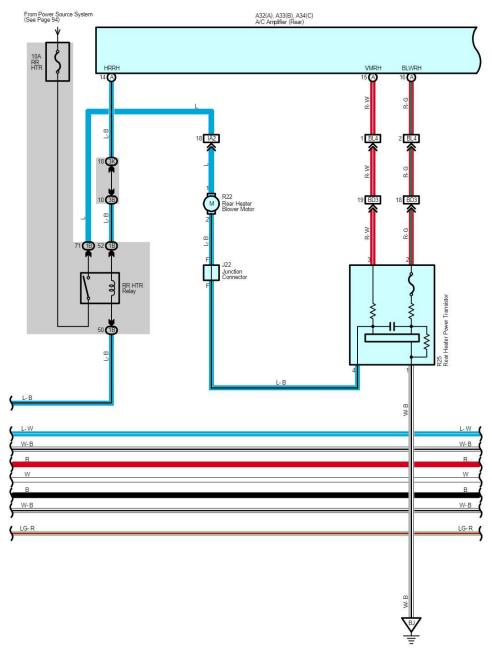
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E16	76	Engine Room No.2 Wire			

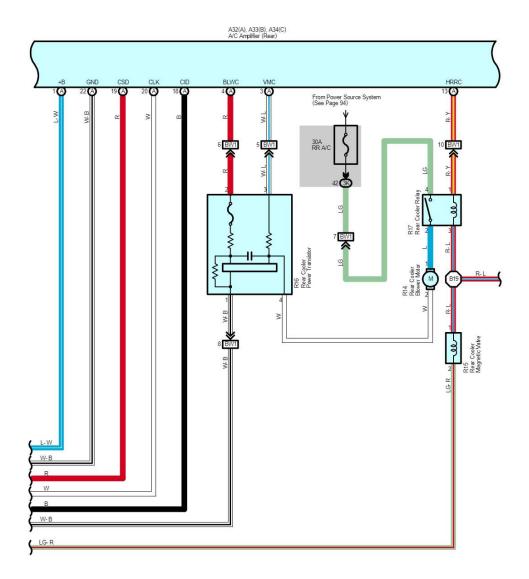


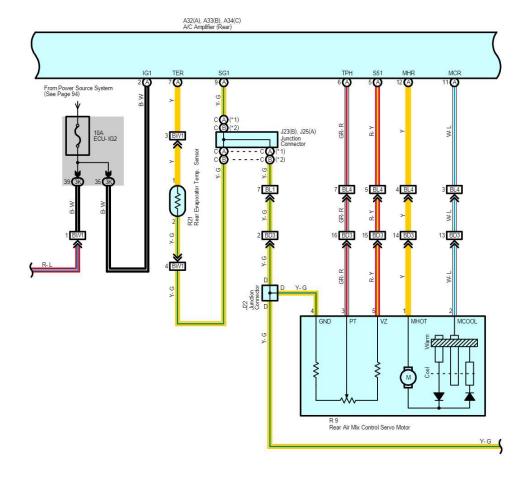
2005 LAND CRUISER (EWD601U)



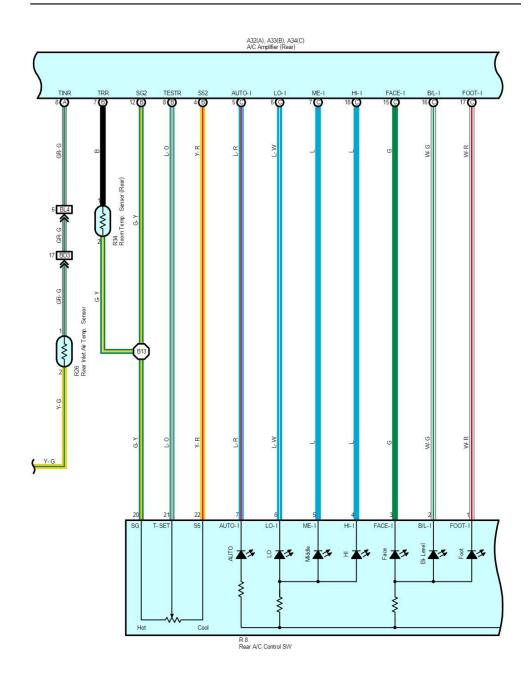
2005 LAND CRUISER (EWD601U)



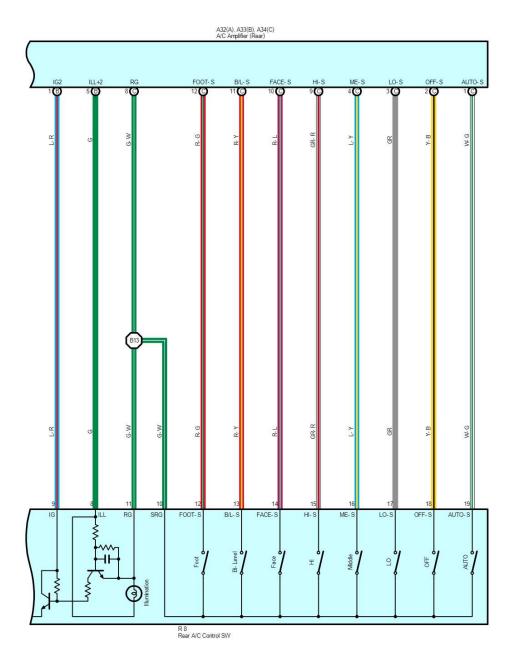




* 1 : w/ Navigation System * 2 : w/o Navigation System



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System Outline

1. Cooler and Heater Blower Operation

Manual operation

When the blower control SW in the rear A/C control SW is set to any blower speed, a signal is sent to the A/C amplifier. The A/C amplifier controls the power transistor and operates the rear cooler blower motor and rear heater blower motor at

* Auto operation
When the auto SW in the rear A/C control SW is operated, a signal is sent to the A/C amplifier. The A/C amplifier controls the power transistor according to the signals from respective sensors, and operates the rear cooler blower motor and rear

2. Air Mix Control Servo Motor Control

When the temperature control lever in the rear A/C control SW is operated, a signal is sent to the A/C amplifier. The A/C amplifier controls the rear air mix control servo motor to operate the damper until it reaches the temperature set by the temperature control lever.

3. Air Conditioning Operation

The cooler and heater operation can be switched by the mode select SW in the rear A/C control SW.

Service Hints

A32 A/C Amplifier (Rear)

1-Ground: Always approx. 12 volts
2-Ground: Approx. 12 volts with ignition SW at ON or ST position
22-Ground: Always continuity

O : Parts Location

Code		See Page	Co	de	See Page	Code	See Page	
A32	Α	72	J,	11	71	R16	73	
A33	В	72	J2	22	72	R17	73	
A34	С	72	J23	В	72	R21	73	
A45	Α	70	J25	Α	72	R22	73	
A46	В	70	R	.8	73	R25	73	
A47	С	70	R	.9	73	R26	73	
F1	16	68	R.	14	73	R34	73	
118		70	R	15	73			

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)			
1B	24	Engine Room No.2 Wire and Engine Room J/B (Engine Compartment Left)			
2B	-	5 : 5 - N OW - 10 ION POINT APRIL II			
2C	28	Engine Room No.2 Wire and Cowl Side J/B LH (Left Kick Panel)			
2D					
2E	28	Dash Wire and Cowl Side J/B LH (Left Kick Panel)			
2Q	30	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)			
3B	40	gine Room No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3K	40	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)			
3Q	42	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)			
4A					
4C	52	Dash Wire and J/B No.4 (Instrument Panel Center)			
4F					

Air Conditioning (Rear)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)	
IA2	78	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)	
IV4	82 Dash Wire and Floor No.2 Wire (Right Kick Panel)		
BD3	86	No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)	
BL1	- 88	Floor No 2 Wire and Floor No 2 Wire (Dight Cide of Door Floor Crossmannhar)	
BL4	88 Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)		
BW1	88	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)	

: Ground Points

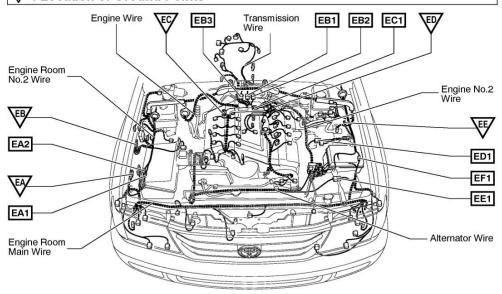
Code	See Page	Ground Points Location
IF	78	Set Bolt of Cowl Side J/B LH
BJ	86	Under the Driver's Seat
BK	86	Front Side Under the Front Passenger's Seat

: Splice Points

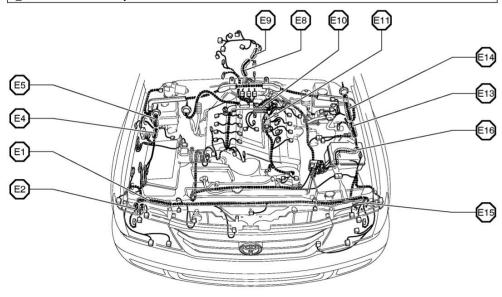
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B13	88	Roof No.2 Wire	B19	88	A/C Sub Wire
B14	88	Floor No.2 Wire			

G ELECTRICAL WIRING ROUTING

☐ : Location of Connector Joining Wire Harness and Wire Harness

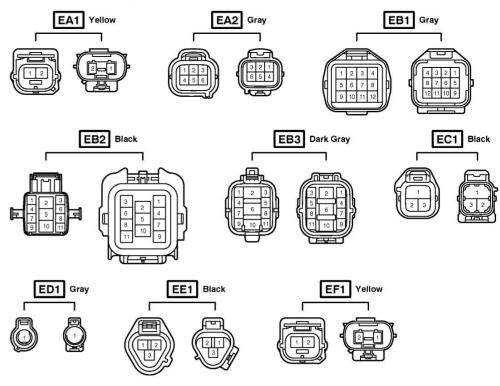


: Location of Splice Points



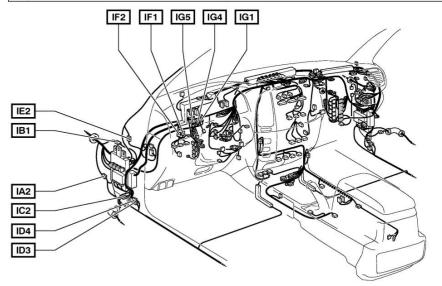
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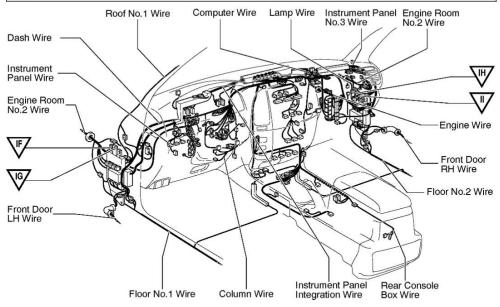
Connector Joining Wire Harness and Wire Harness



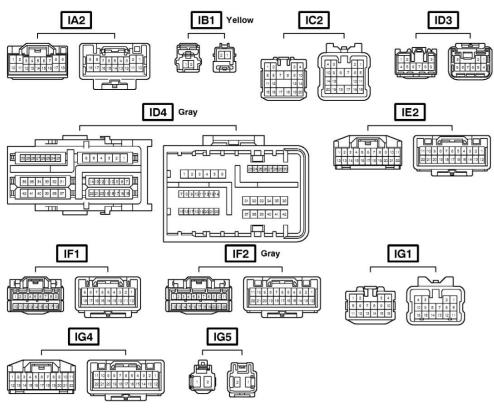
Code	Joining Wire Harness and Wire Harness (Connector Location)
EA1	Facing Deem Main Wire and Facing Deem No 2 Wire (Facing Compared part Dight)
EA2	Engine Room Main Wire and Engine Room No.2 Wire (Engine Compartment Right)
EB1	
EB2	Engine Wire and Transmission Wire (On the Transmission)
EB3	
EC1	Engine No.2 Wire and Engine Wire (On the Transmission)
ED1	Engine No.2 Wire and Engine Room No.2 Wire (Near the Engine Room J/B)
EE1	Engine Room Main Wire and Alternator Wire (Near the Battery)
EF1	Engine Room No.2 Wire and Engine Room Main Wire (Under the Engine Room J/B)

☐ : Location of Connector Joining Wire Harness and Wire Harness



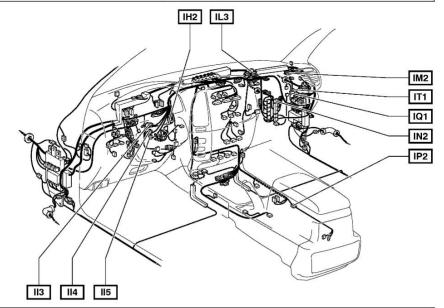


Connector Joining Wire Harness and Wire Harness

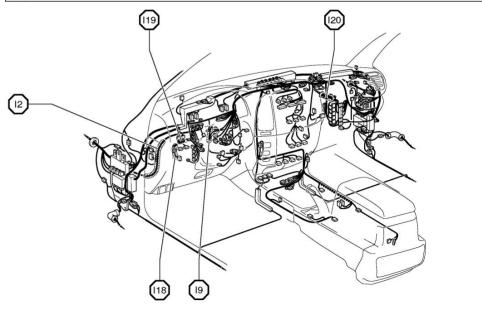


Code	Joining Wire Harness and Wire Harness (Connector Location)
IA2	Engine Room No.2 Wire and Floor No.1 Wire (Left Kick Panel)
IB1	Engine Room No.2 Wire and Dash Wire (Left Kick Panel)
IC2	Front Door LH Wire and Dash Wire (Left Kick Panel)
ID3	Dark Wiss and Flore N. of Wiss Dark S.
ID4	Dash Wire and Floor No.1 Wire (Left Kick Panel)
IE2	Dash Wire and Roof No.1 Wire (Left Kick Panel)
IF1	had mad Day Ustanada War and Indonesia Day War (1-4 Cid. of Indonesia Day)
IF2	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IG1	
IG4	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IG5	

☐ : Location of Connector Joining Wire Harness and Wire Harness

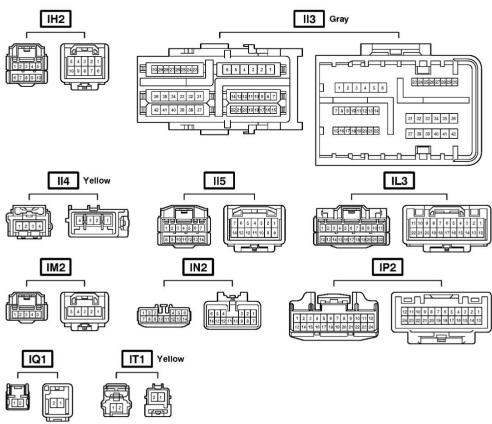


: Location of Splice Points



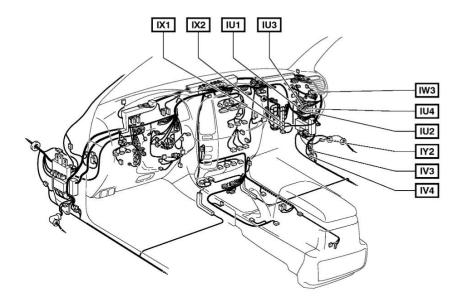
80

Connector Joining Wire Harness and Wire Harness

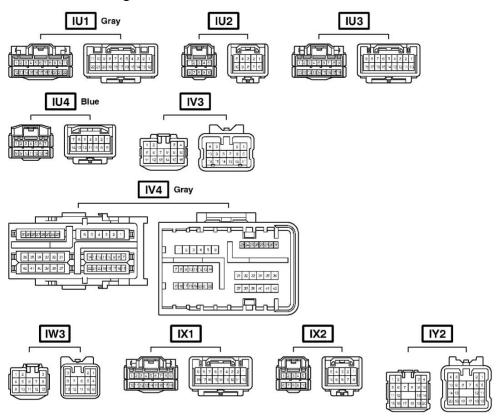


Code	Joining Wire Harness and Wire Harness (Connector Location)	
IH2	Instrument Panel Integration Wire and Column Wire (Near the Ignition SW)	
113		
114	Dash Wire and Column Wire (Near the Ignition SW)	
115		
IL3	Instrument Panel Integration Wire and Computer Wire (Instrument Panel Center)	
IM2	Instrument Panel Integration Wire and Instrument Panel No.3 Wire (Right Side of Instrument Panel)	
IN2	Engine Wire and Dash Wire (Behind the Glove Box)	
IP2	Rear Console Box Wire and Dash Wire (Right Side of Rear Console)	
IQ1	Instrument Panel Integration Wire and Lamp Wire (Behind the Glove Box)	
IT1	Engine Room No.2 Wire and Dash Wire (Right Kick Panel)	

☐ : Location of Connector Joining Wire Harness and Wire Harness

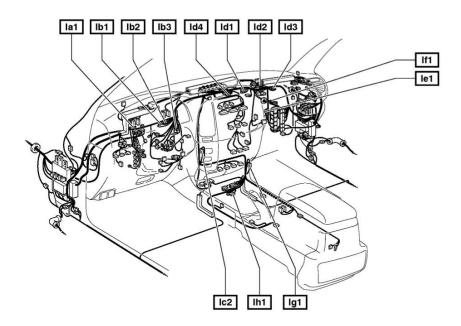


Connector Joining Wire Harness and Wire Harness

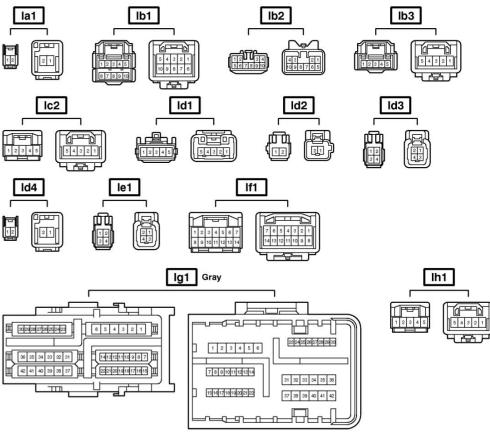


Code	Joining Wire Harness and Wire Harness (Connector Location)
IU1	Instrument Panel Integration Wire and Dash Wire (Behind the Glove Box)
IU2	
IU3	
IU4	
IV3	Dark William and Flore No. O. William (Florida Dark)
IV4	Dash Wire and Floor No.2 Wire (Right Kick Panel)
IW3	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
IX1	
IX2	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IY2	Front Door RH Wire and Dash Wire (Right Kick Panel)

☐ : Location of Connector Joining Wire Harness and Wire Harness

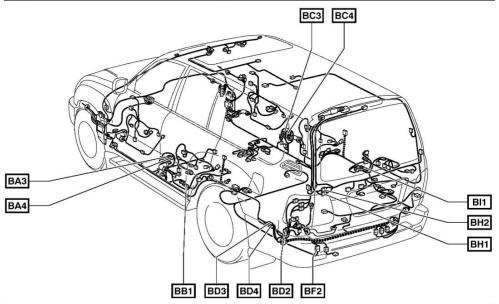


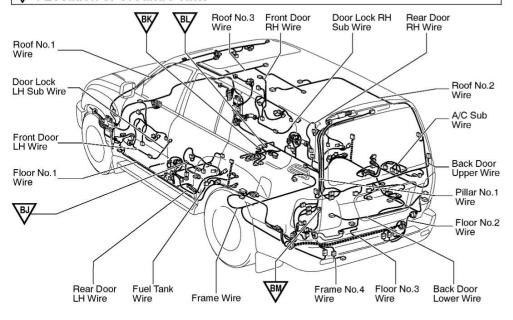
Connector Joining Wire Harness and Wire Harness



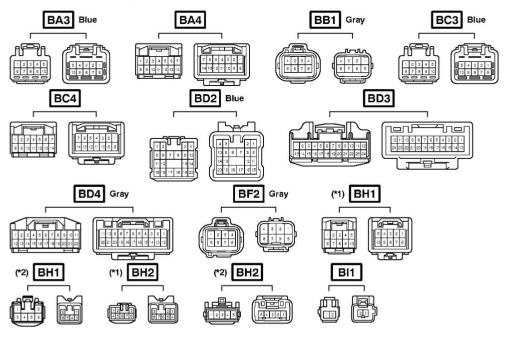
Code	Joining Wire Harness and Wire Harness (Connector Location)
la1	Dash Wire and Dash Wire (Behind the Combination Meter)
lb1	
lb2	Dash Wire and Dash Wire (Behind the Combination Meter)
lb3	
lc2	Dash Wire and Dash Wire (Behind the Center Panel)
ld1	
ld2	1
ld3	Dash Wire and Dash Wire (Instrument Panel Center)
ld4	1
le1	Dash Wire and Dash Wire (Behind the Glove Box)
If1	Engine Wire and Engine Wire (Behind the Glove Box)
lg1	Dash Wire and Floor No.2 Wire (Right Side of Front Console)
lh1	Dash Wire and Dash Wire (Center Side of Front Console)

☐ : Location of Connector Joining Wire Harness and Wire Harness





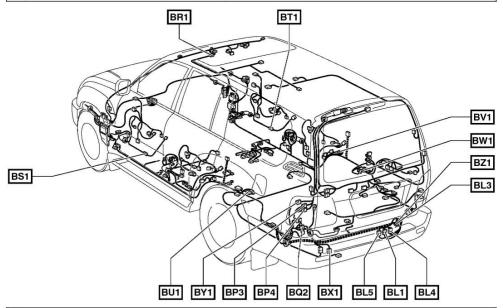
Connector Joining Wire Harness and Wire Harness



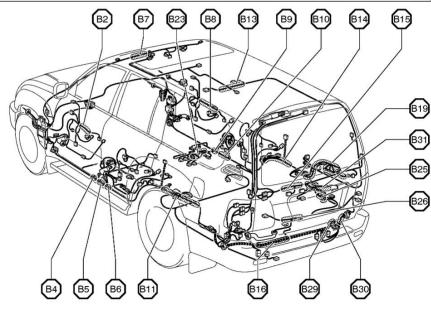
- * 1:w/ Navigation System * 2:w/o Navigation System

Code	Joining Wire Harness and Wire Harness (Connector Location)
BA3	
BA4	Rear Door LH Wire and Floor No.1 Wire (Left Side of Center Pillar)
BB1	Floor No.1 Wire and Fuel Tank Wire (Near the Fuel Tank)
BC3	Rear Door RH Wire and Floor No 2 Wire (Right Side of Center Pillar)
BC4	
BD2	
BD3	Floor No.3 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BD4	1
BF2	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BH1	
BH2	Pillar No.1 Wire and Back Door Upper Wire (Left Side of Back Door)
BI1	Roof No.2 Wire and Floor No.2 Wire (Right Side Rear Quarter Panel)

☐ : Location of Connector Joining Wire Harness and Wire Harness

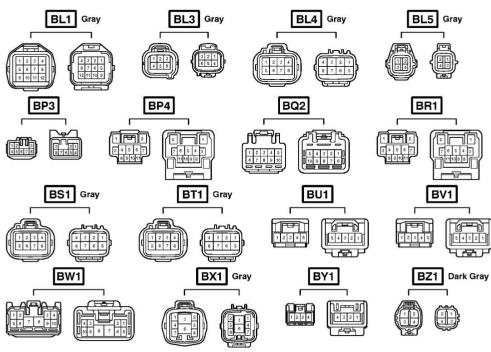


: Location of Splice Points



88

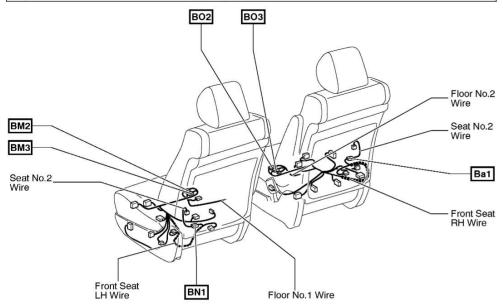
Connector Joining Wire Harness and Wire Harness



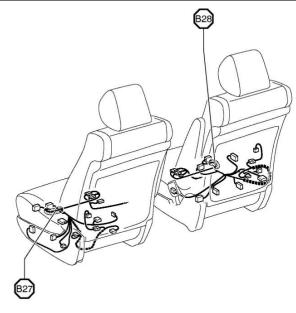
Code	Joining Wire Harness and Wire Harness (Connector Location)
BL1	
BL3	To the Office of Fig. N. Office (Fig. 7)
BL4	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL5	
BP3	
BP4	Pillar No.1 Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BQ2	Back Door Lower Wire and Floor No.1 Wire (Left Rear Side Quarter Panel)
BR1	Roof No.3 Wire and Roof No.1 Wire (Front Side of Roof)
BS1	Door Lock LH Sub Wire and Front Door LH Wire (Front Door LH)
BT1	Door Lock RH Sub Wire and Front Door RH Wire (Front Door RH)
BU1	Floor No.1 Wire and Floor No.1 Wire (Near the Left Rear Suspension Support)
BV1	Floor No.2 Wire and Floor No.2 Wire (Near the Right Rear Suspension Support)
BW1	Floor No.2 Wire and A/C Sub Wire (Right Side Rear Quarter Panel)
BX1	Frame No.4 Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BY1	Pillar No.1 Wire and Floor No.3 Wire (Left Rear Side Quarter Panel)
BZ1	Floor No.3 Wire and Floor No.2 Wire (Right Side of Rear Floor Crossmember)

G ELECTRICAL WIRING ROUTING

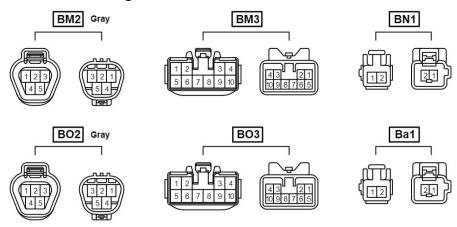
☐ : Location of Connector Joining Wire Harness and Wire Harness



: Location of Splice Points

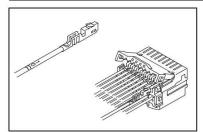


Connector Joining Wire Harness and Wire Harness



Code	Joining Wire Harness and Wire Harness (Connector Location)	
BM2	Floor No.1 Wire and Front Seat LH Wire (Front Side Under the Driver's Seat)	
ВМ3		
BN1	Seat No.2 Wire and Front Seat LH Wire (Rear Side Under the Driver's Seat)	
BO2	Floor No.2 Wire and Front Seat RH Wire (Front Side Under the Front Passenger's Seat)	
BO3		
Ba1	Seat No.2 Wire and Front Seat RH Wire (Rear Side Under the Front Passenger's Seat)	

HINT

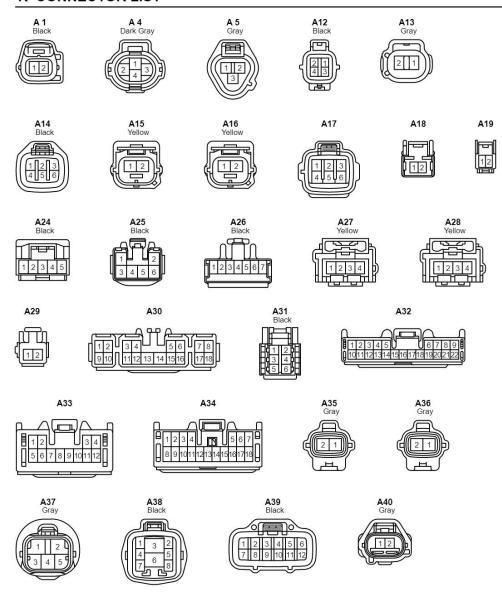


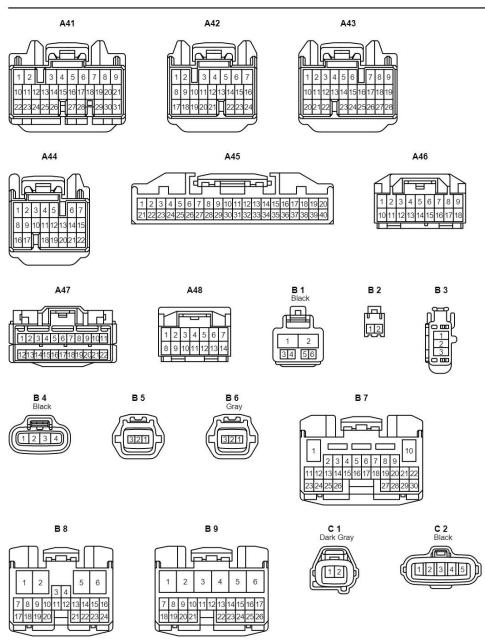
WIRE COLOR AND TERMINAL NUMBER

In some parts of the instrumental panel wiring harness, the same wire color (i.e. SB: Sky Blue) is used for all the wiring to a specific connector. In order to identify the wiring, the terminal number is printed

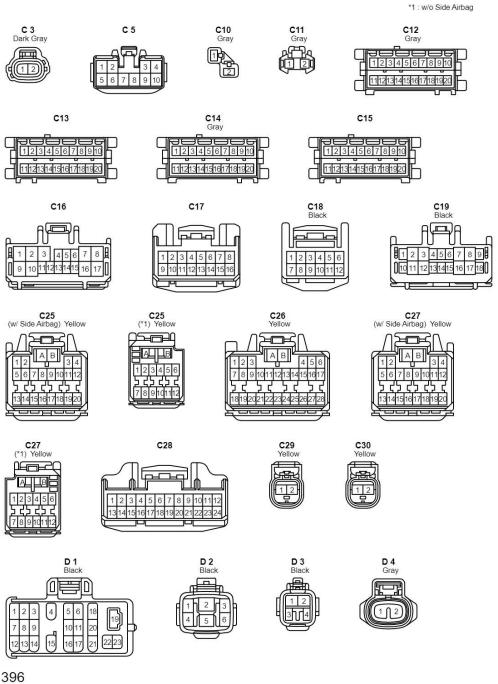
on the wiring.
Install the wiring to the connector position with the same terminal number.
Some early production Vehicles may not have these terminal numbers printed.

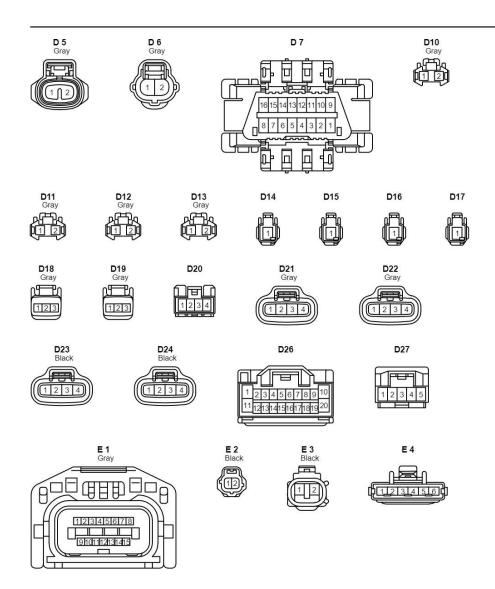
K CONNECTOR LIST



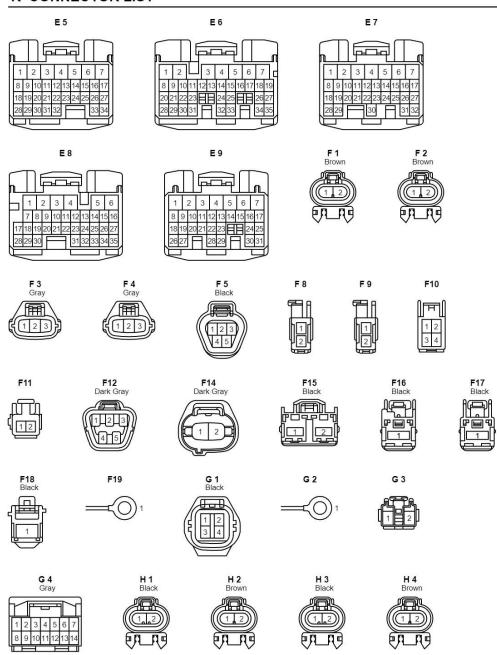


395

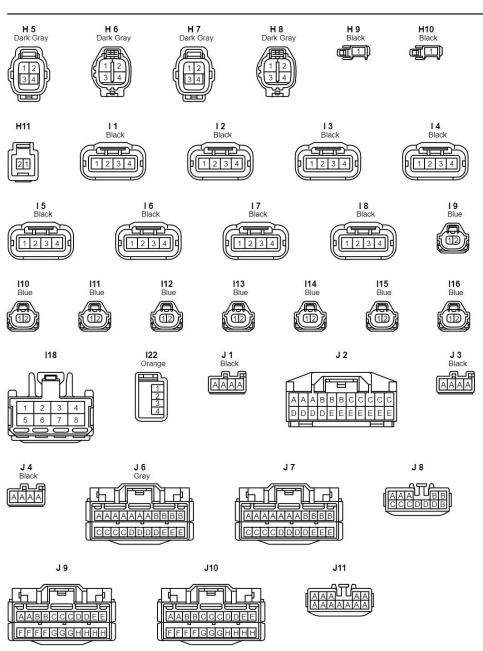




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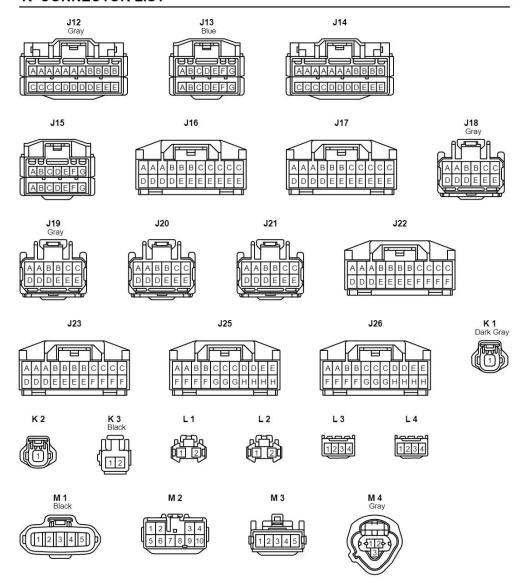


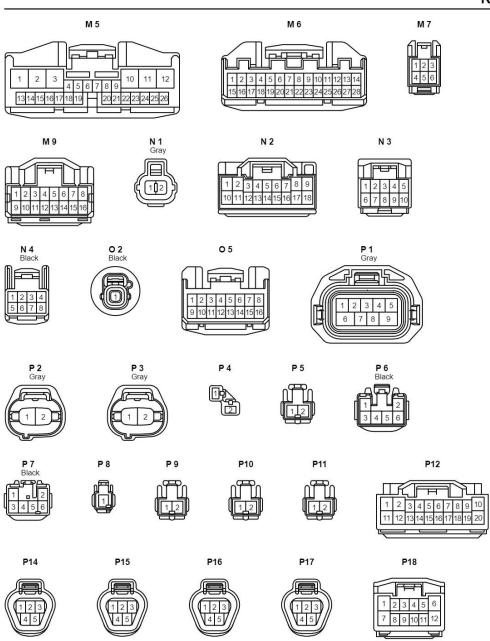
398



399

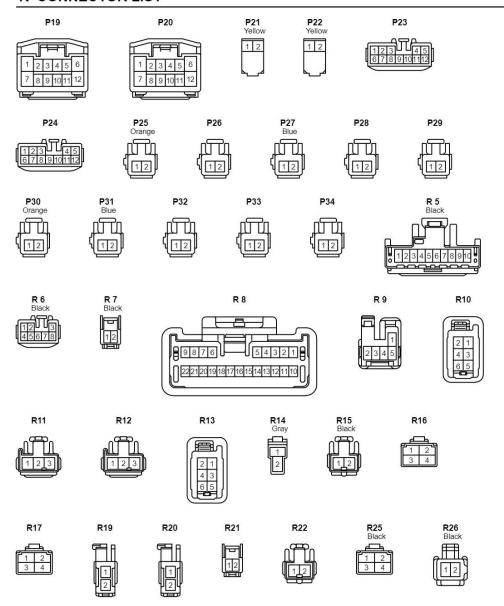
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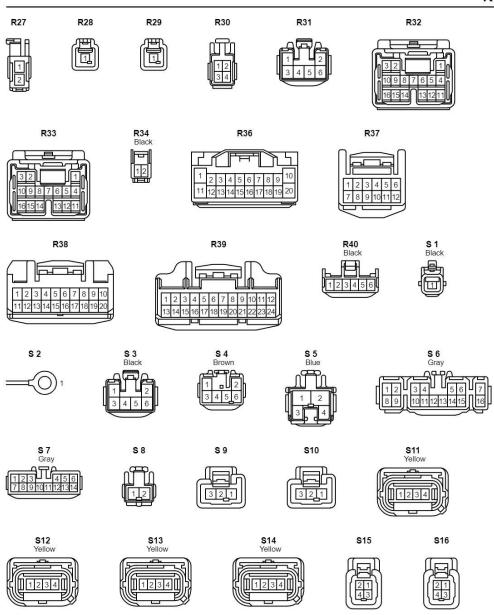




2005 LAND CRUISER (EWD601U)

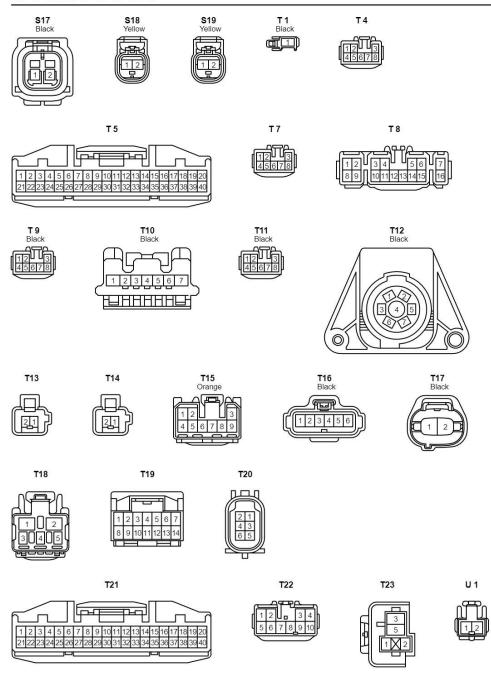
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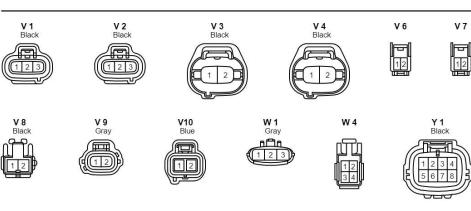
2005 LAND CRUISER (EWD601U)

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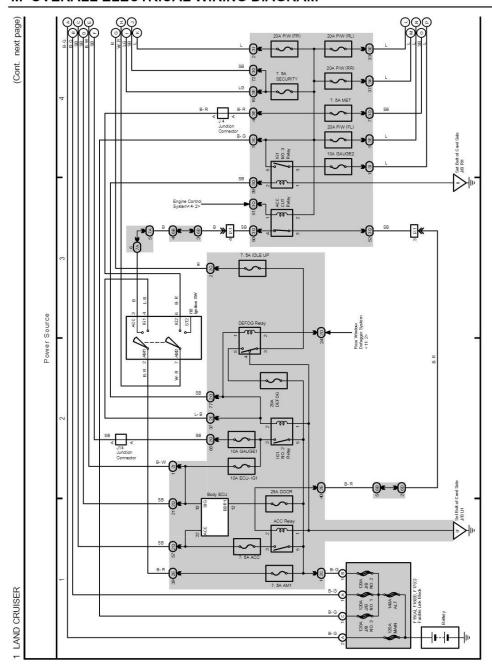


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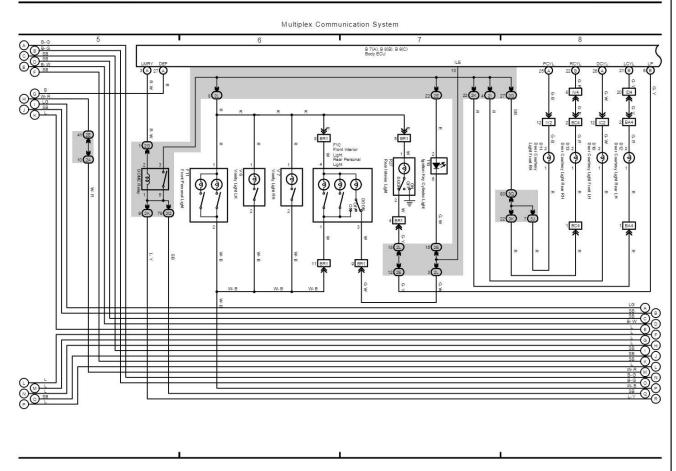




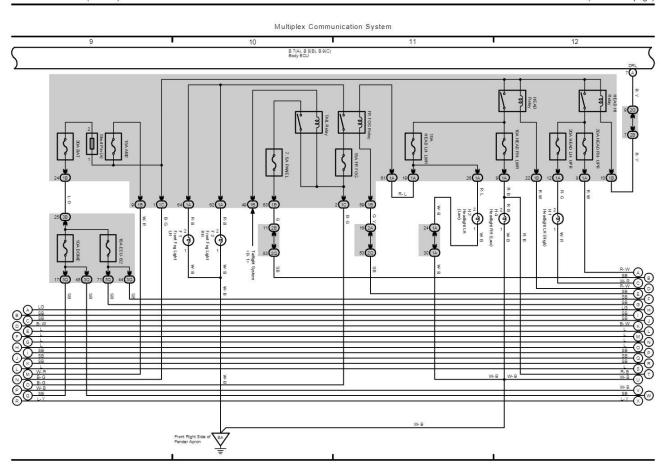
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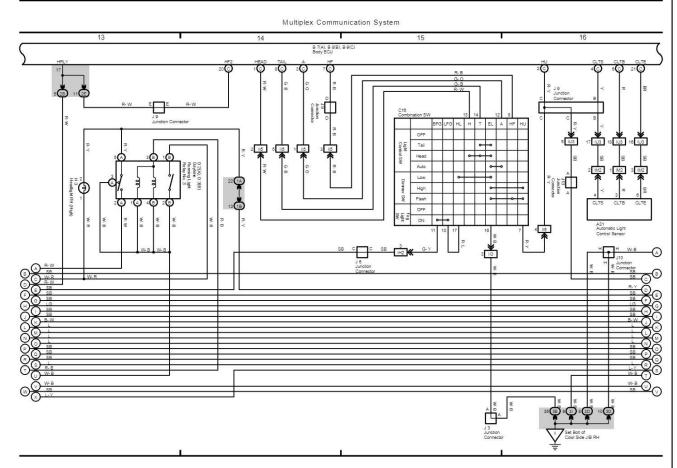


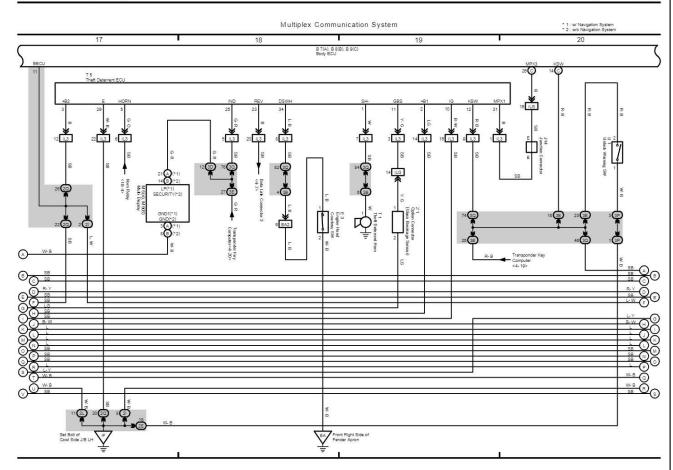
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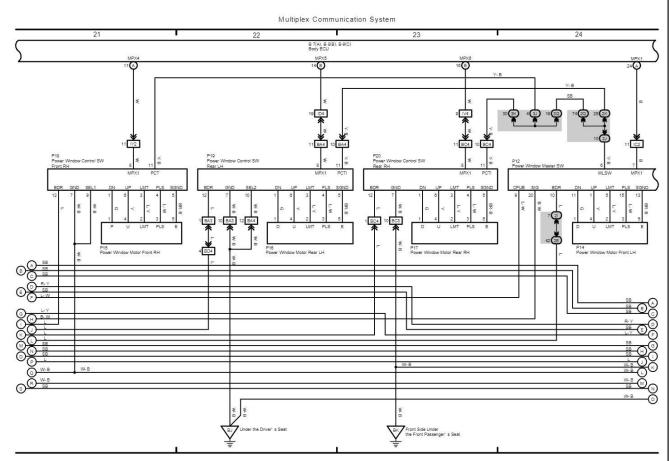


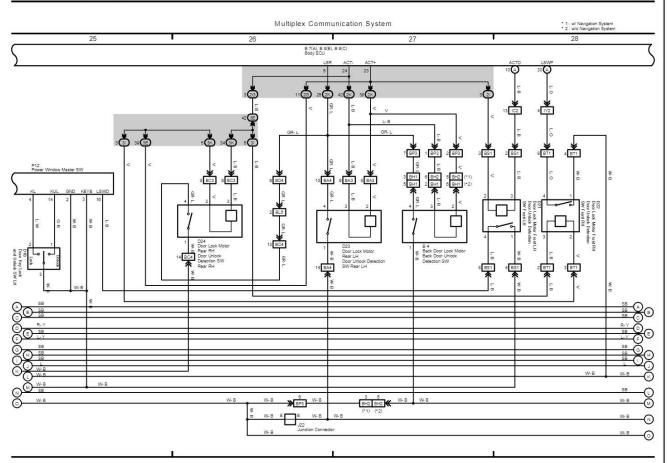
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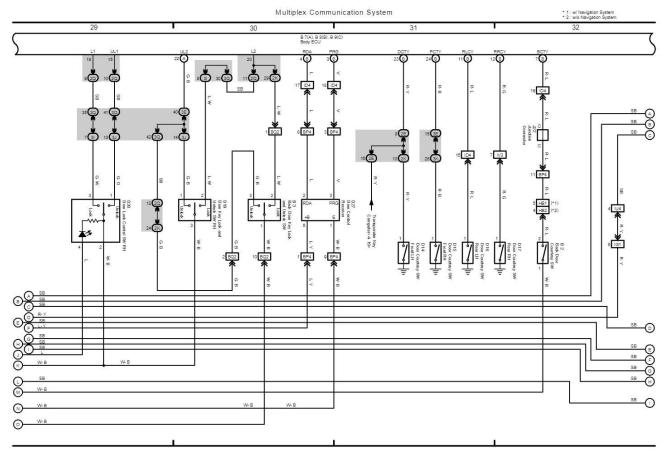


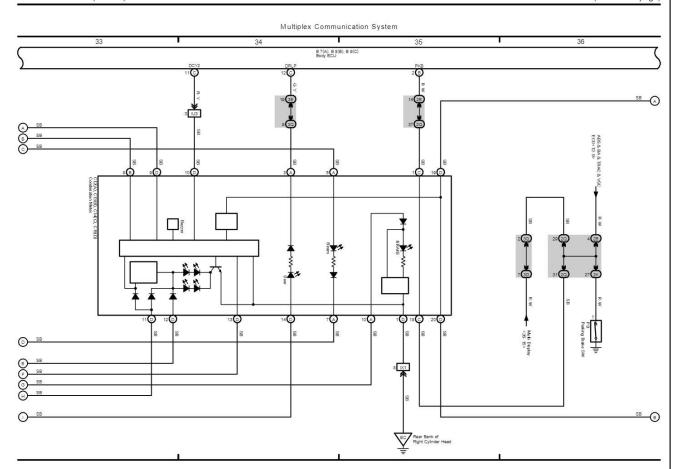






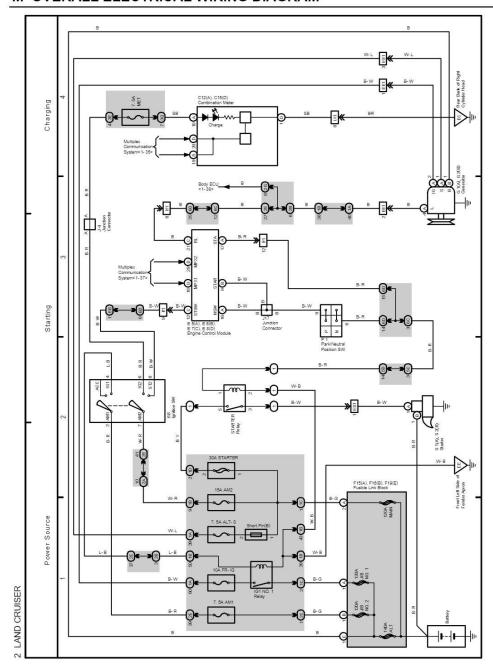


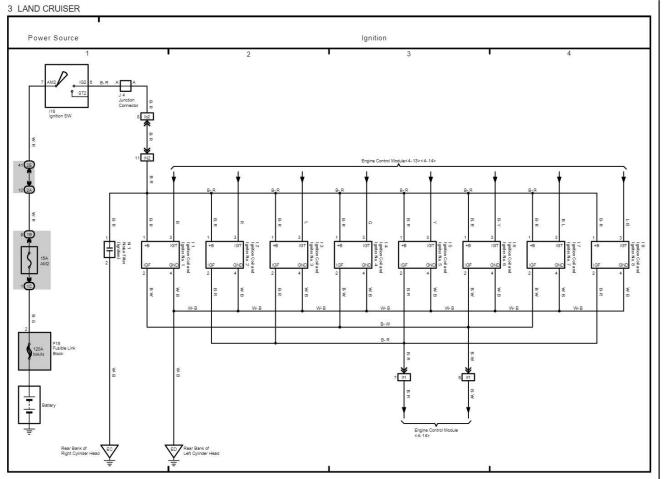




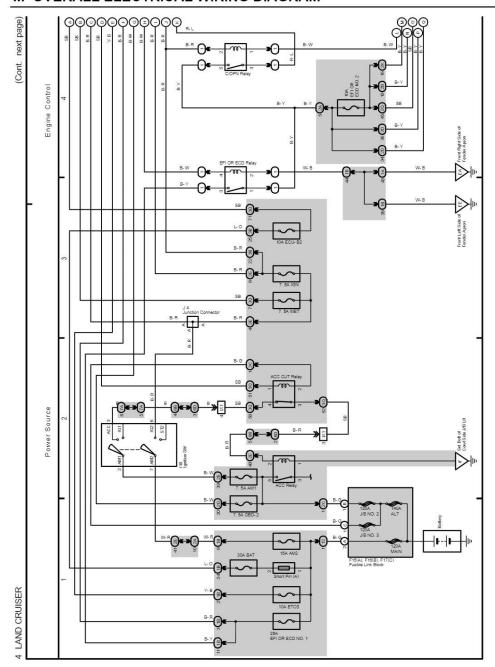
Multiplex Communication System

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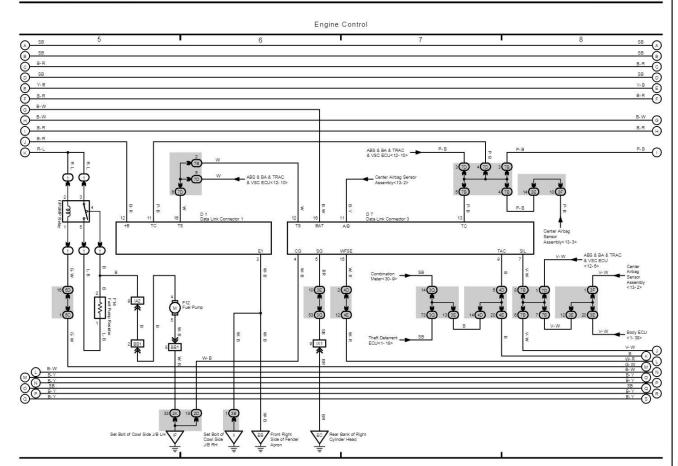


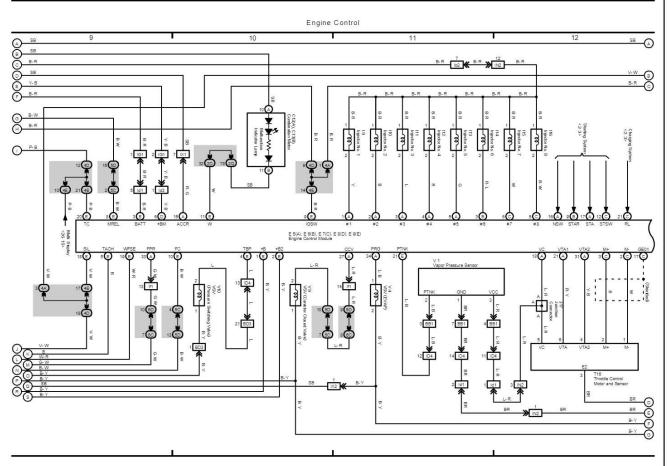


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2005 LAND CRUISER (EWD601U)

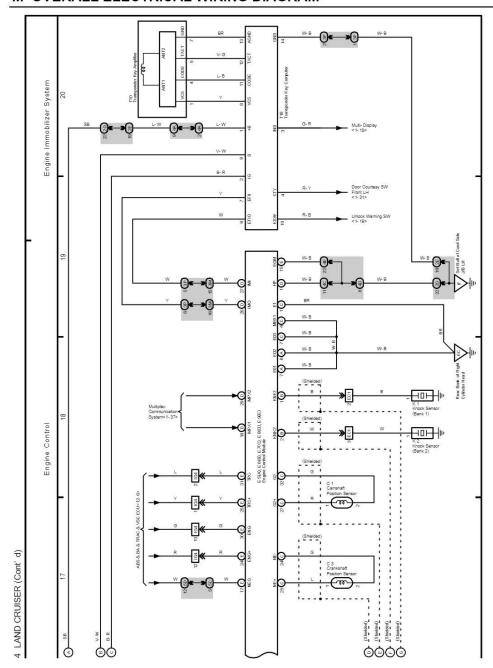




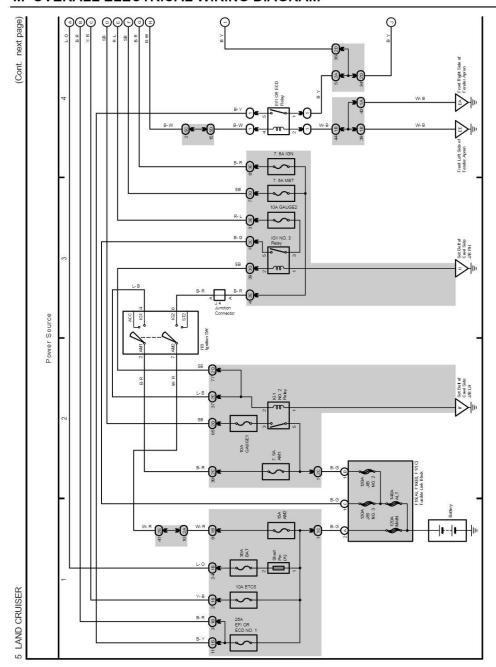
Engine Control

Service Control

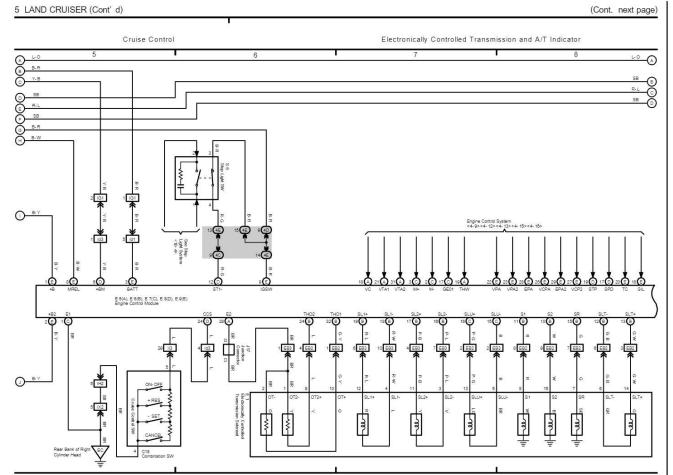
Service

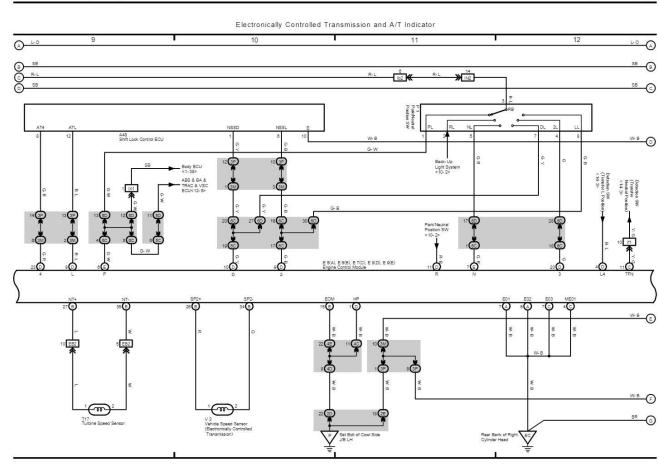


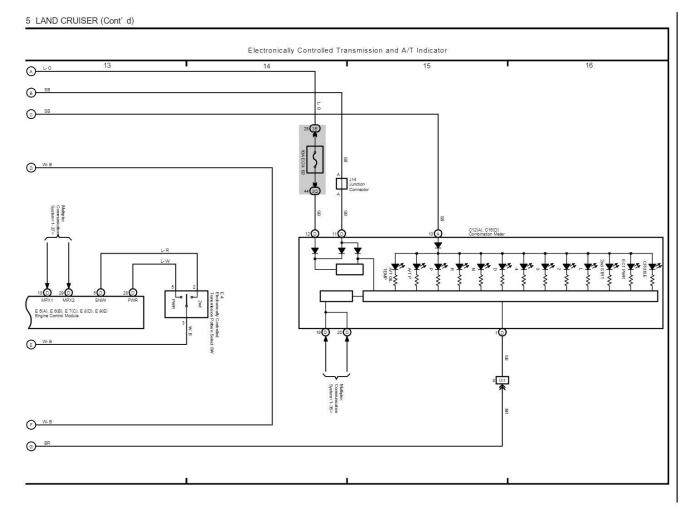
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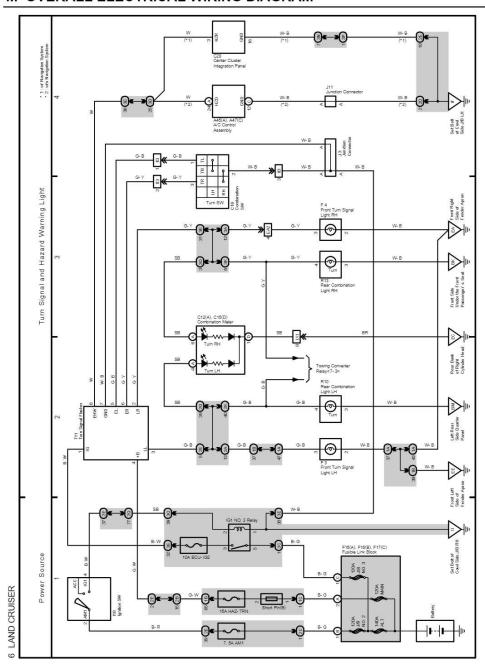


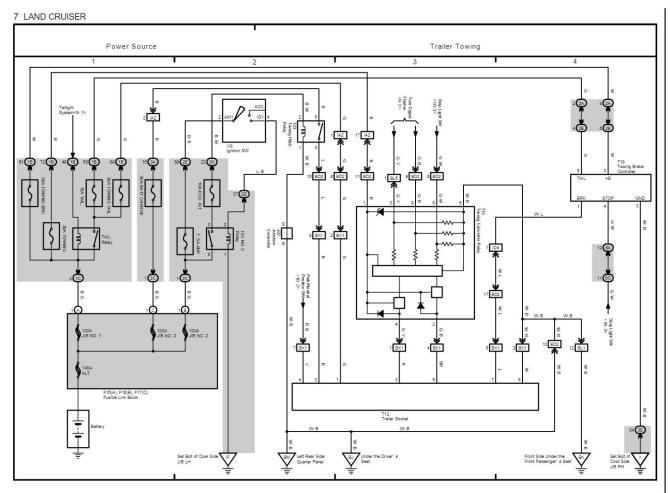


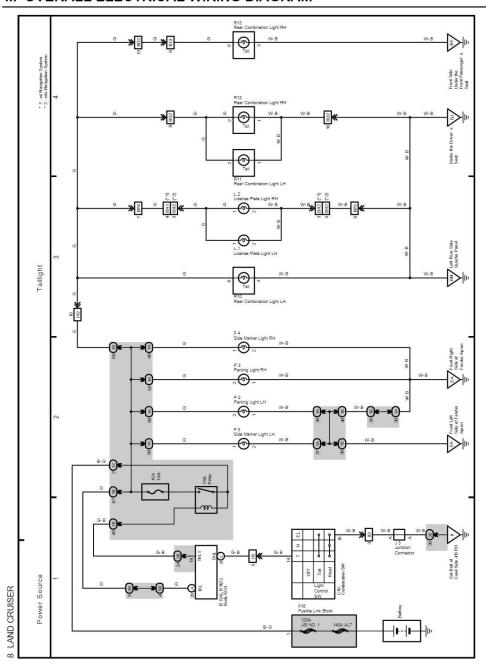


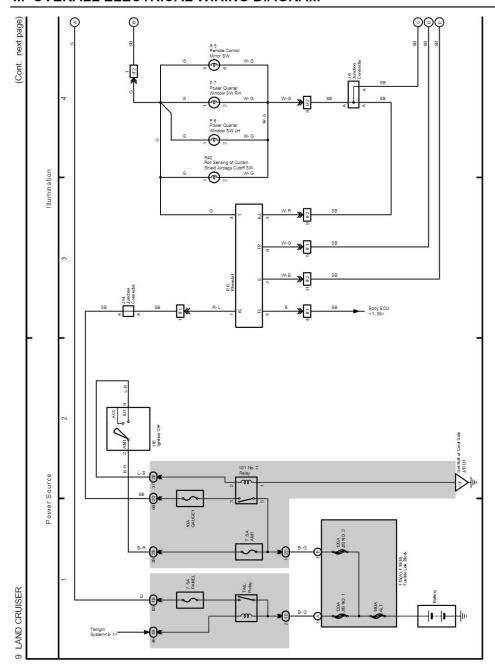


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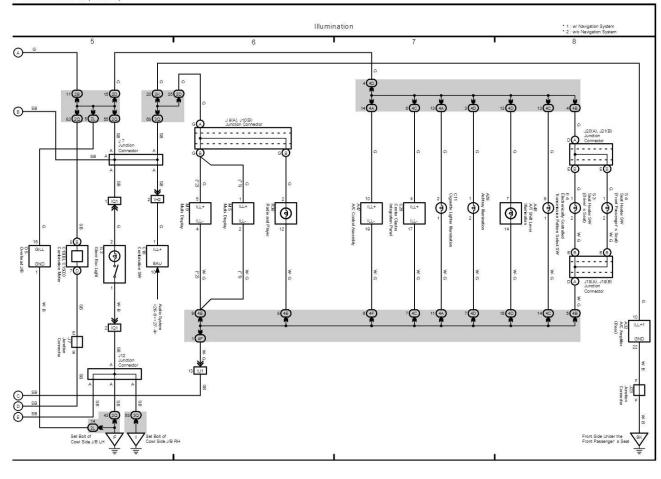


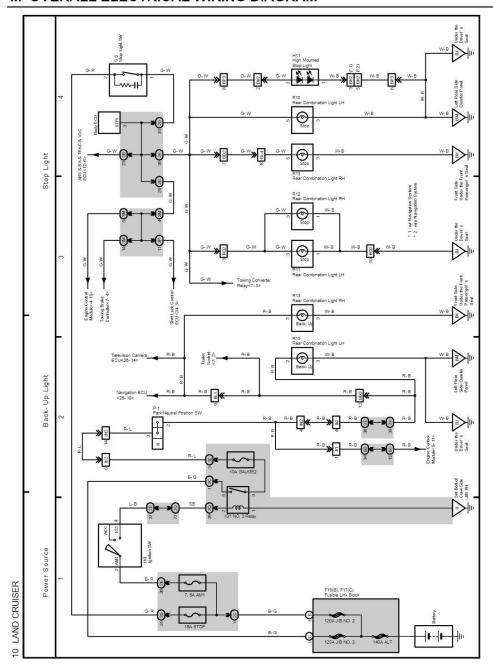




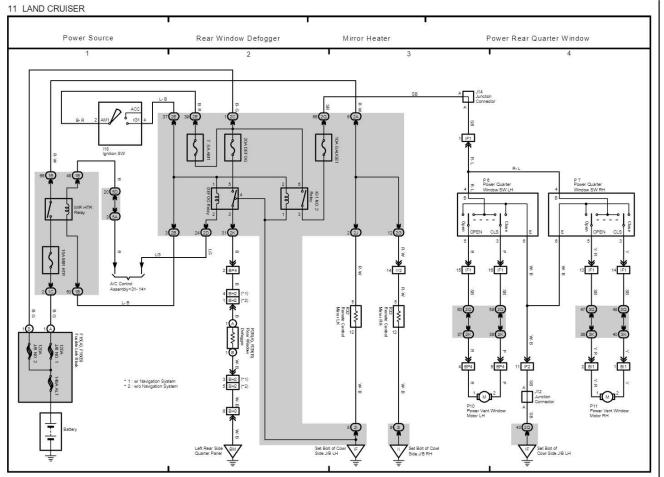


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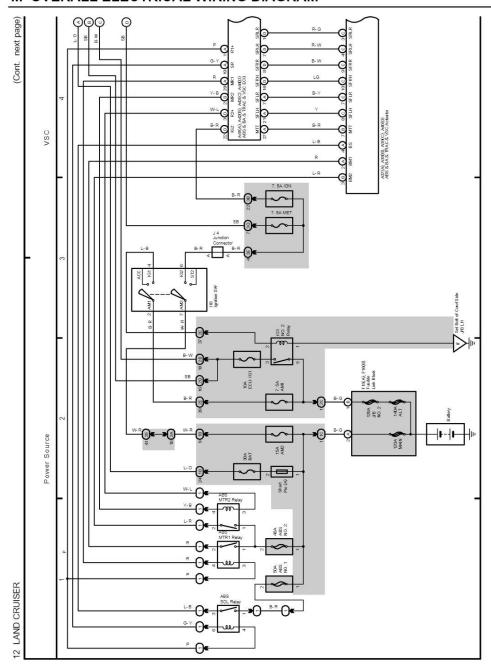


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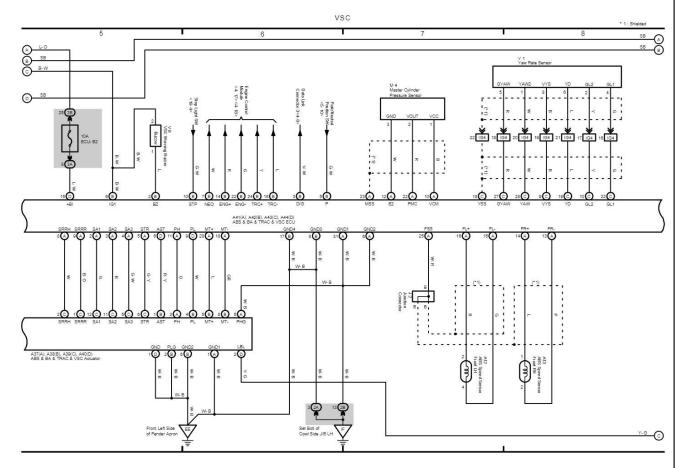


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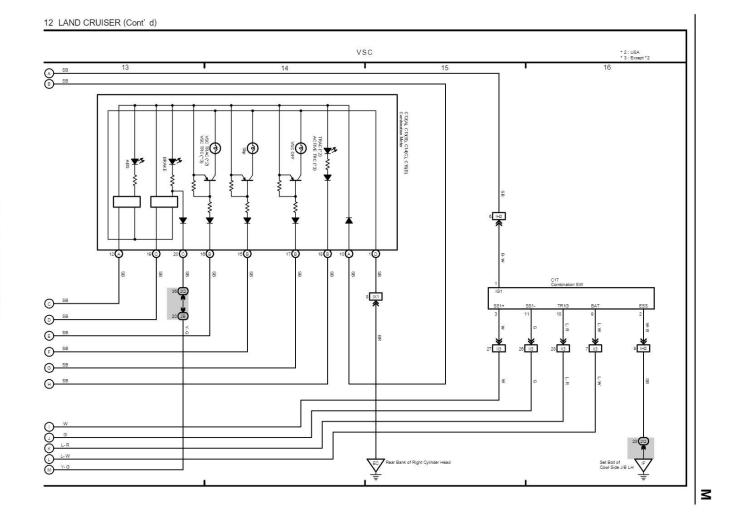
M OVERALL ELECTRICAL WIRING DIAGRAM

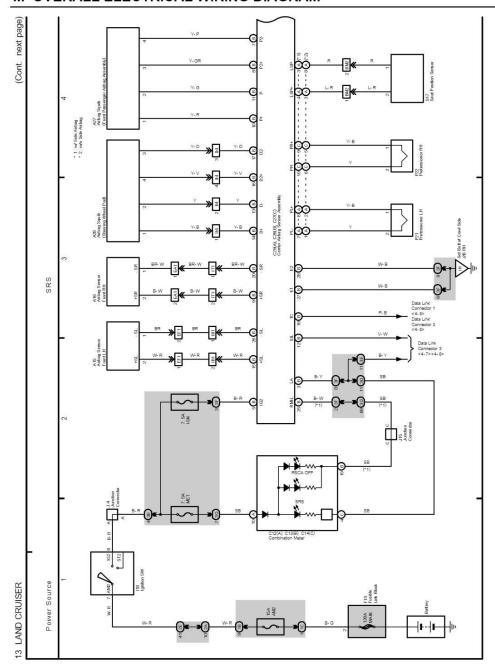


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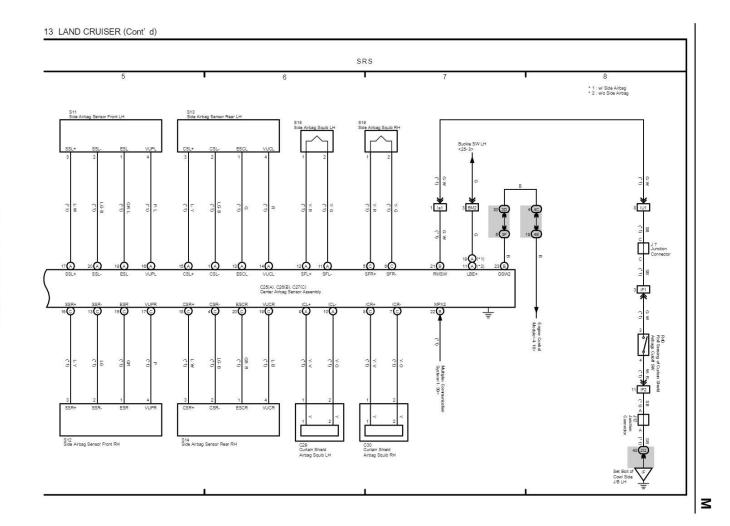


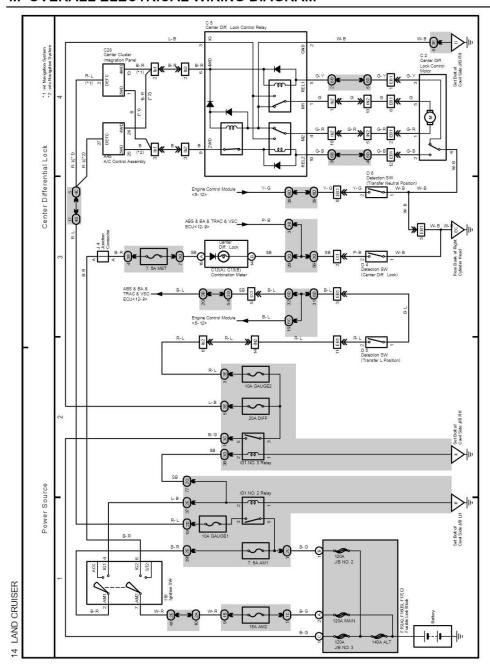
M OVERALL ELECTRICAL WIRING DIAGRAM

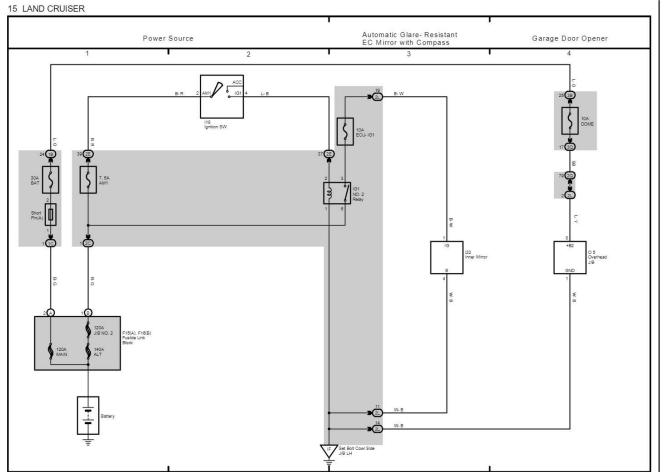


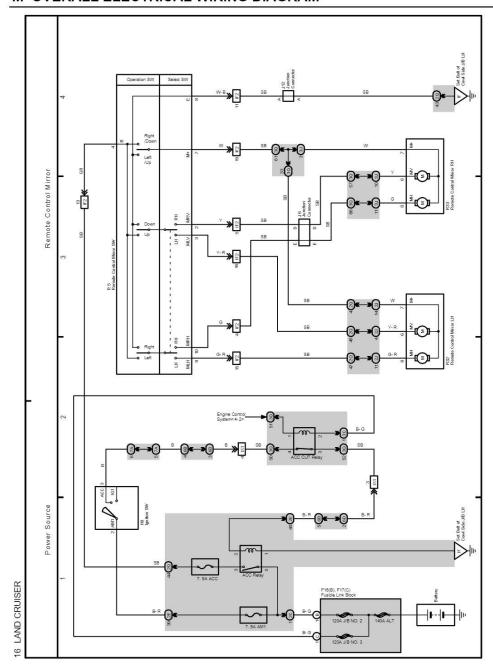


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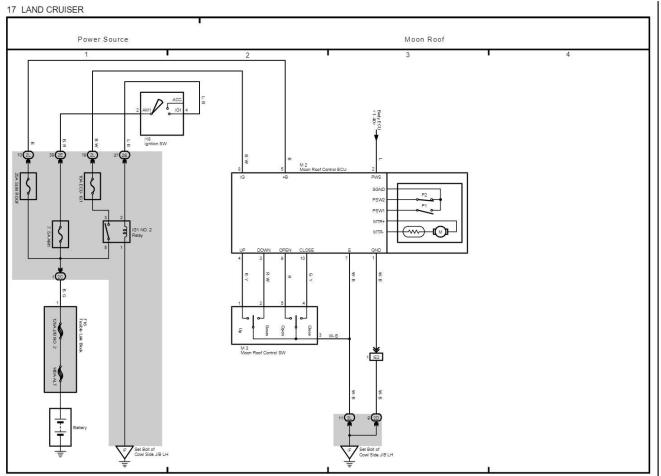


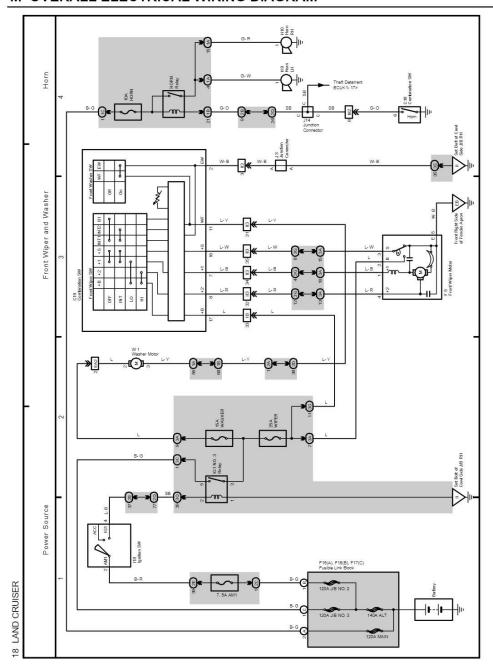




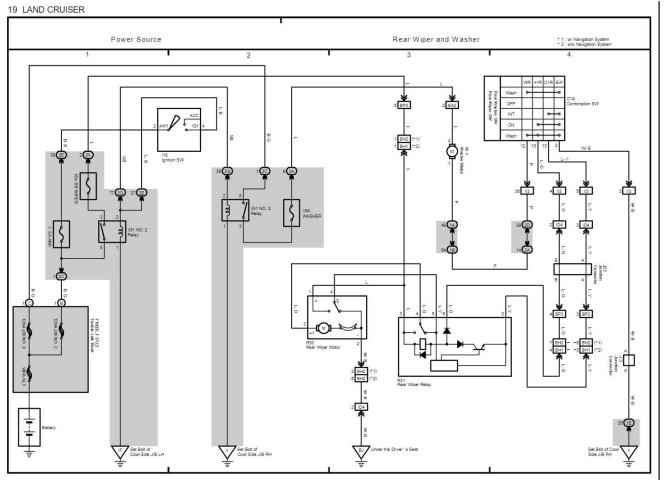


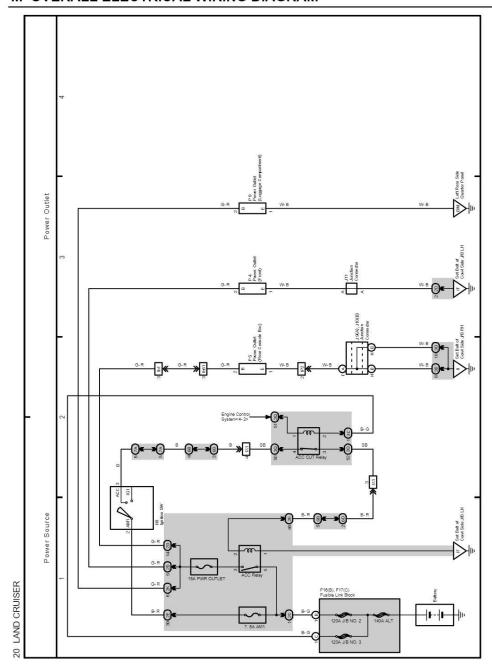
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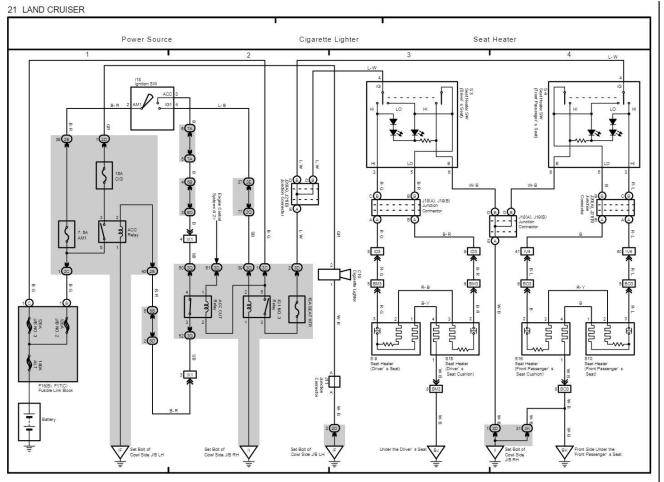


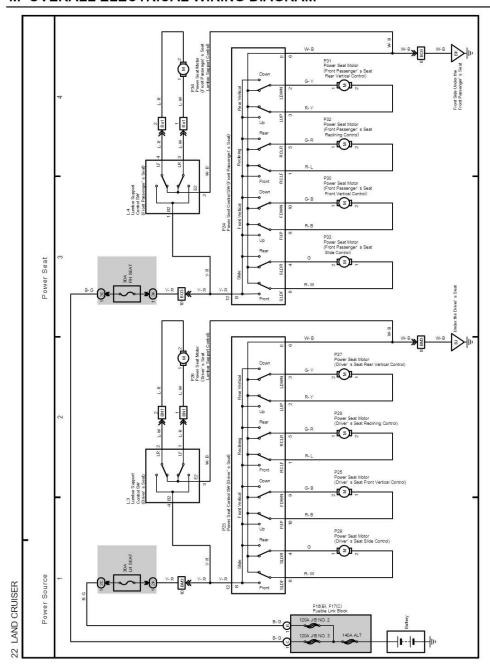


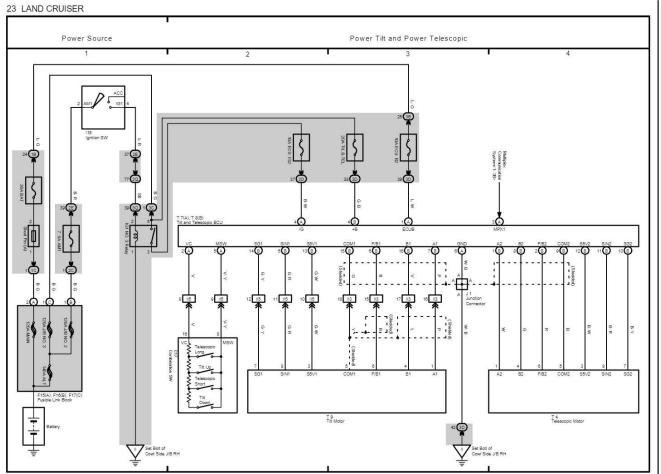
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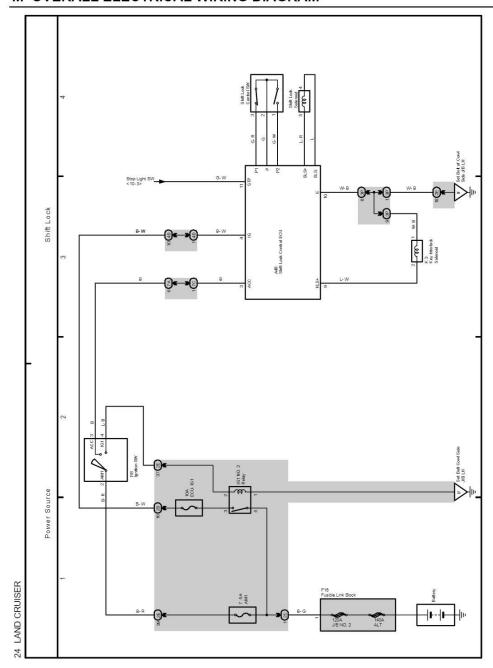




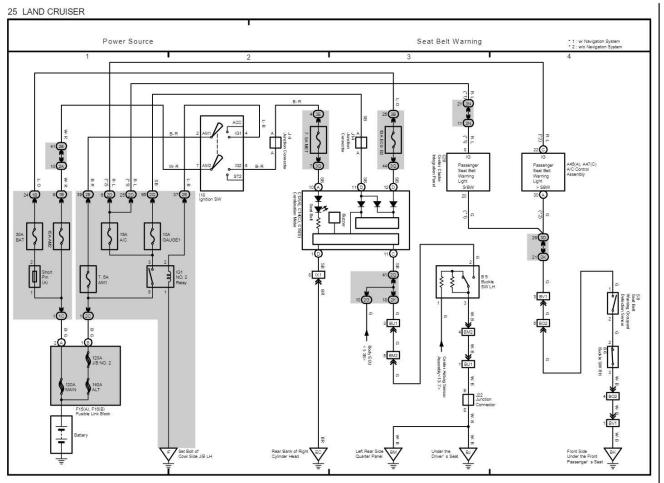


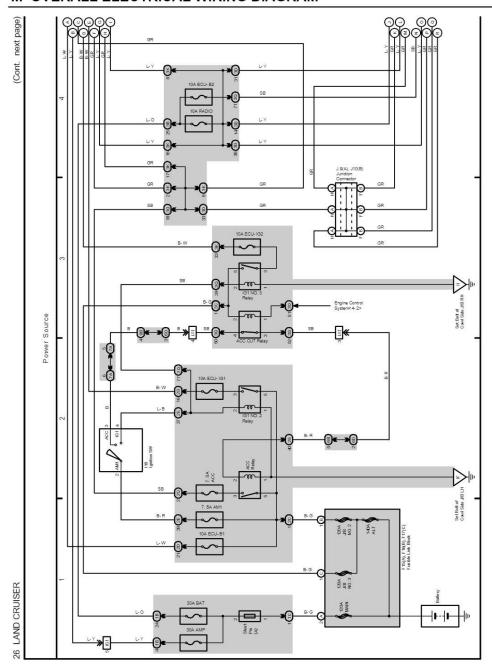




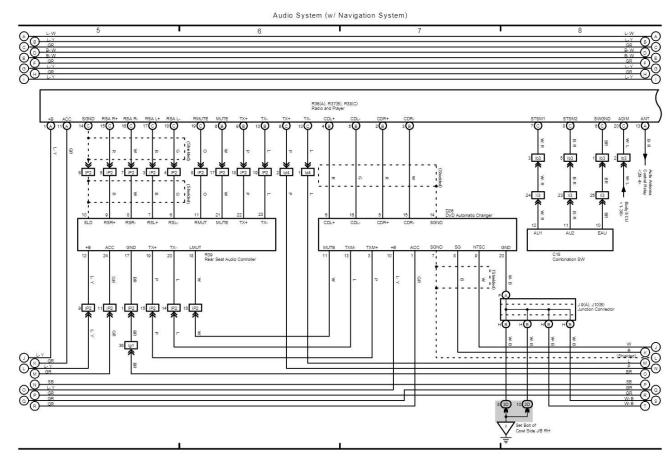


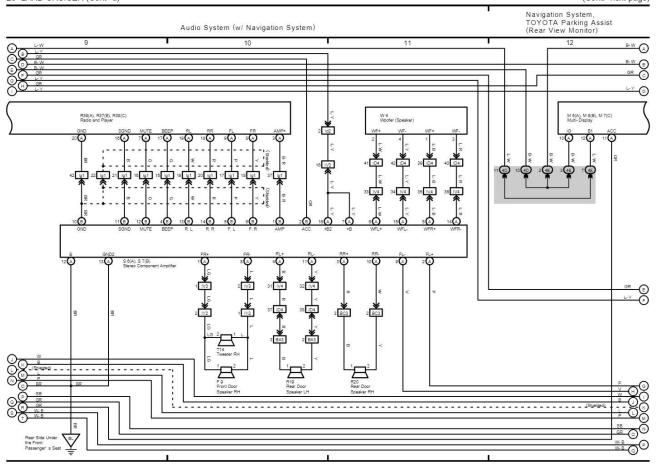
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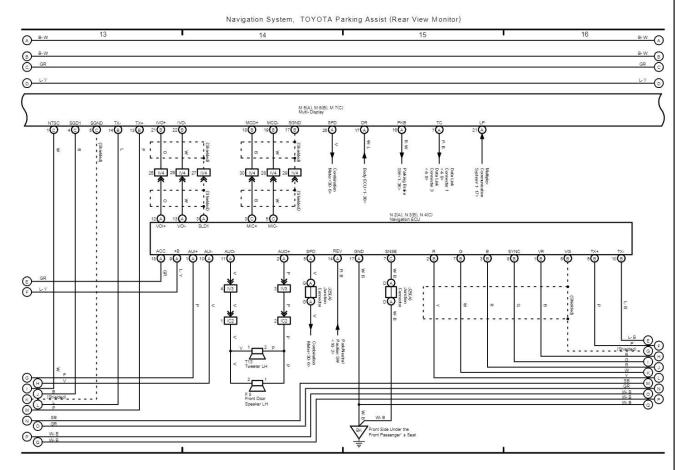


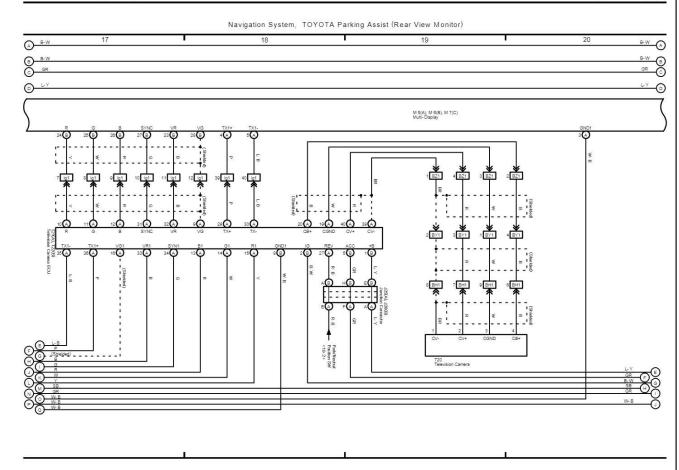


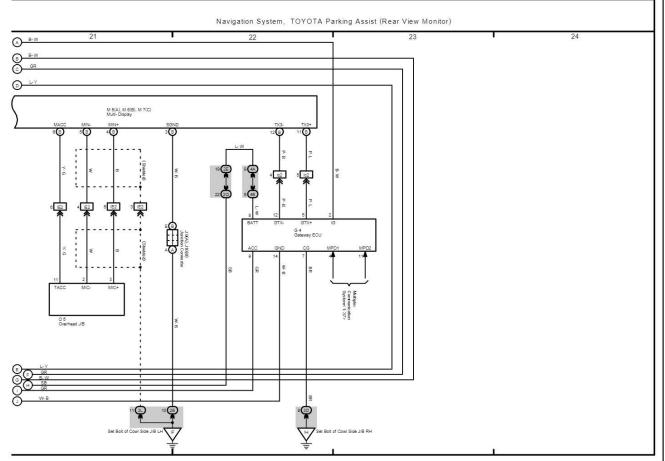
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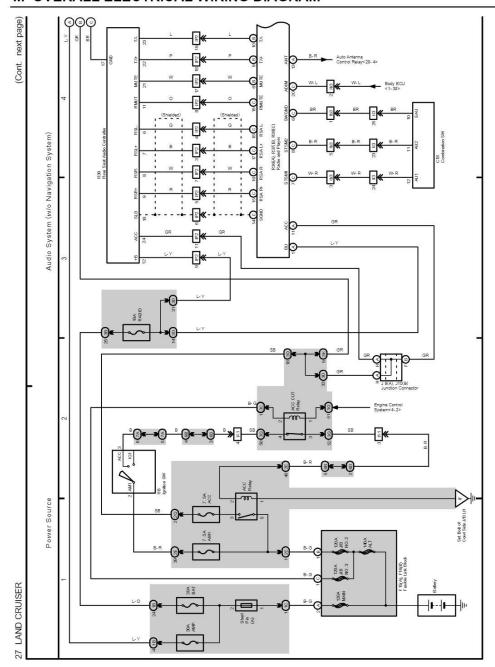




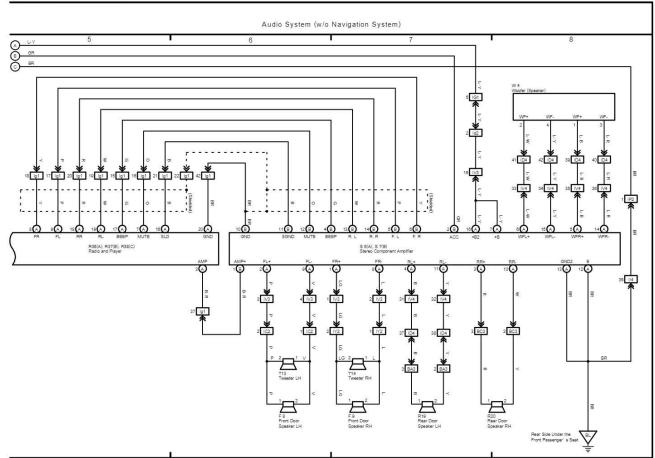


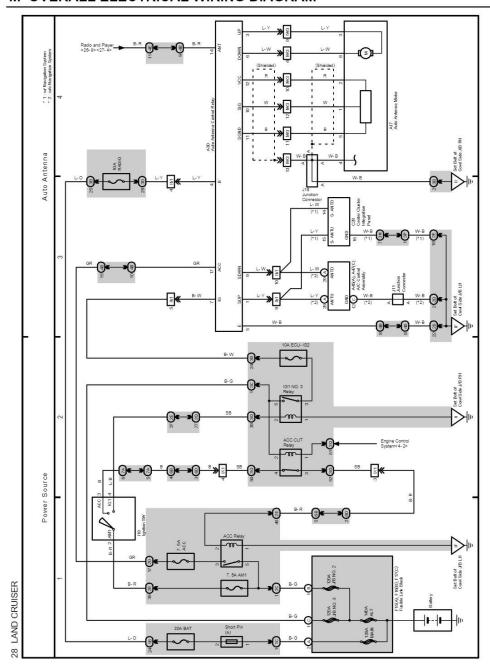


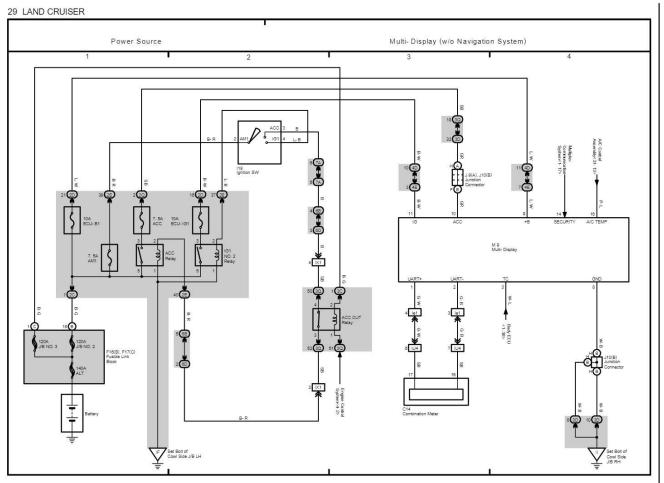




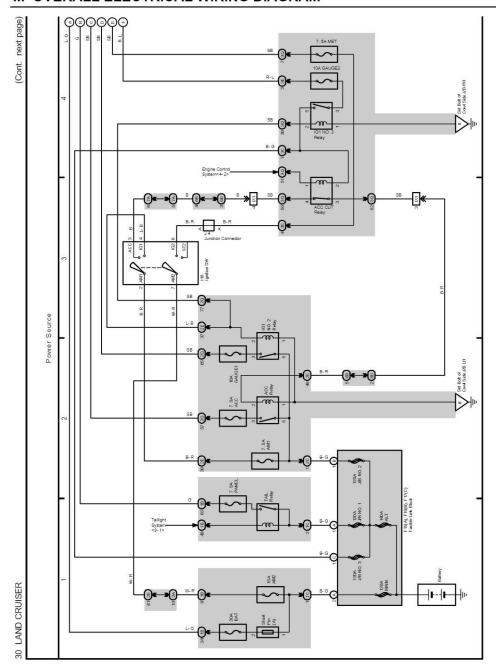
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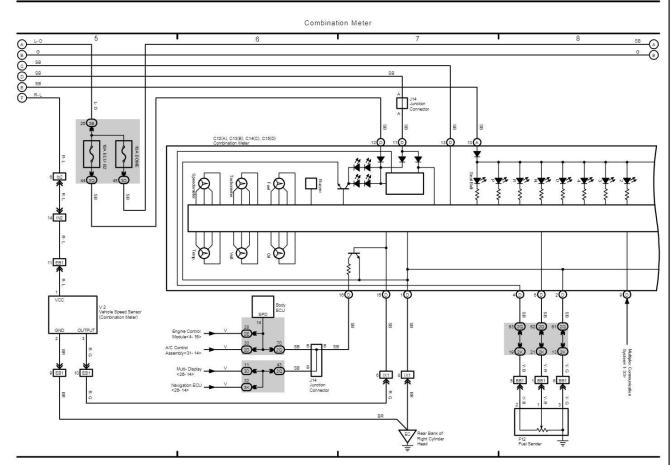


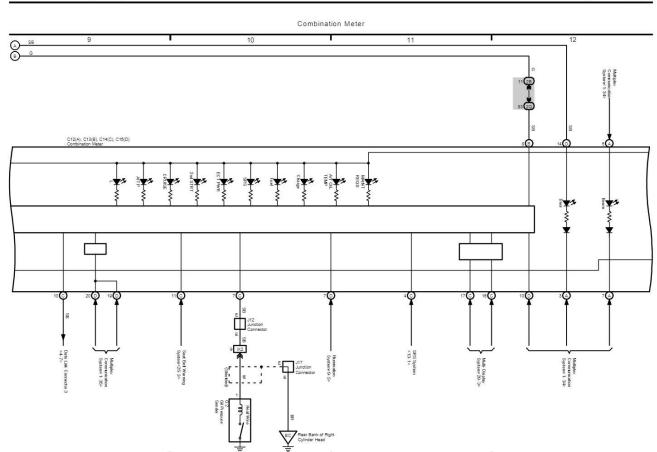




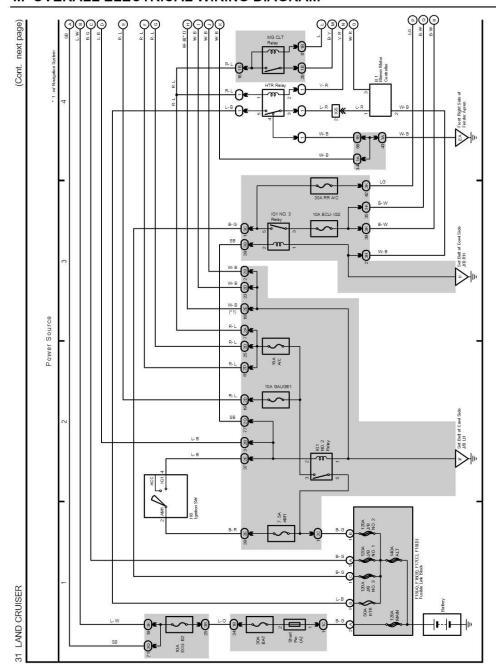
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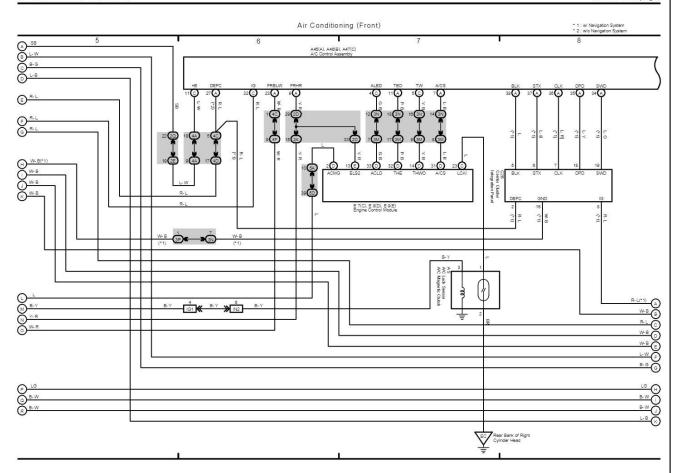


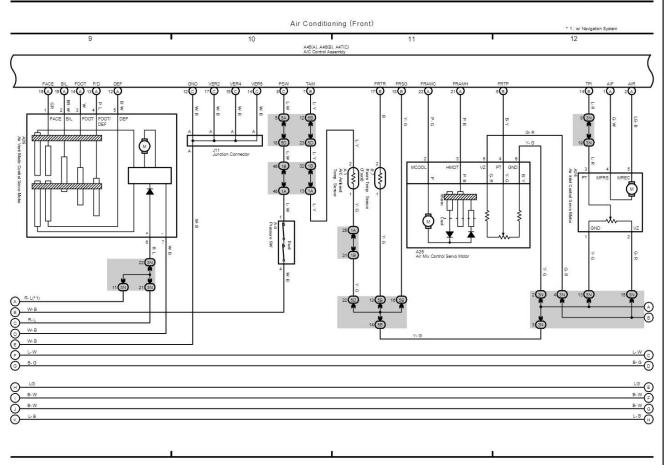
M OVERALL ELECTRICAL WIRING DIAGRAM

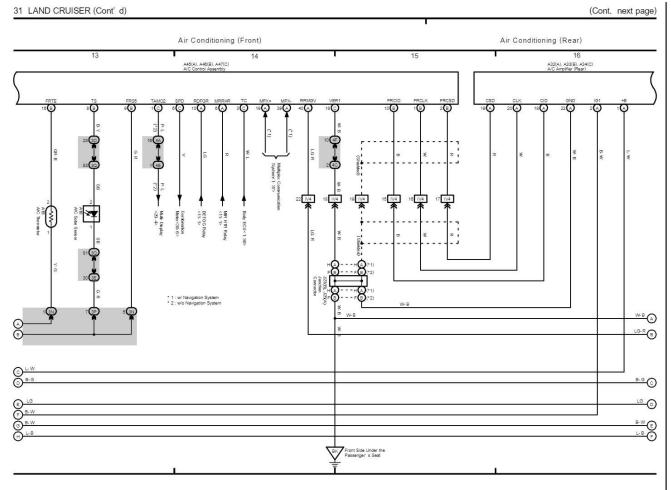


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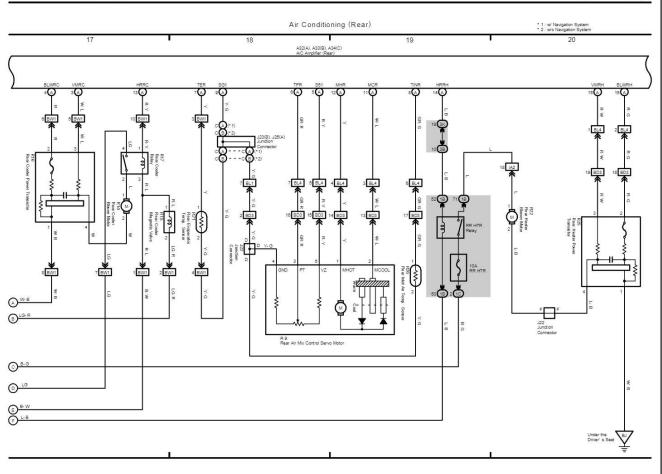


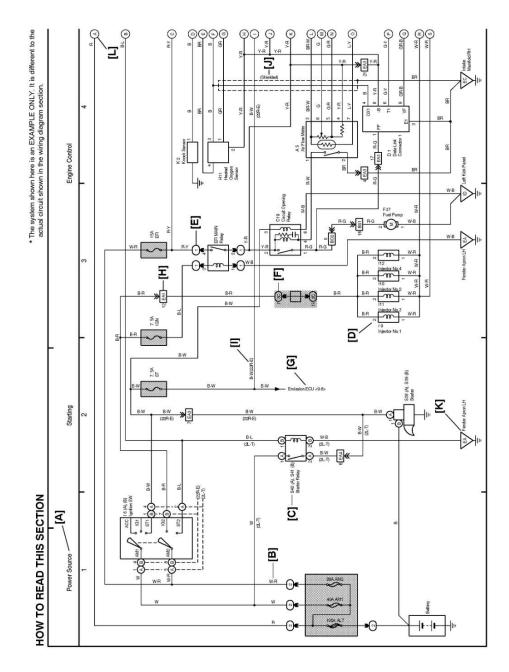






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[A] : System Title

[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

 B
 = Black
 W
 = White
 BR = Brown

 L
 = Blue
 V
 = Violet
 SB = Sky Blue

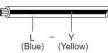
 R
 = Red
 G
 = Green
 LG = Light Green

 P
 = Pink
 Y
 = Yellow
 GR = Gray

O = Orange

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L - Y



[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left





The numbering system for the overall wiring diagram is the same as above

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example : 1 Indicates Relay Block No.1

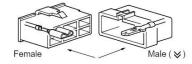
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (⋈). Outside numerals are pin numbers.



[I] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[J] : Indicates a shielded cable.



[K] : Indicates and located on ground point.

[L] : The same code occuring on the next page indicates that the wire harness is continuous.

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number	
A 1	A/C Ambient Temp. Sensor	90980-11070	В7	Body ECU	90980-12151	
A 4	Pressure SW	90980-10943	В8	Body ECU	90980-12149	
100120	A/C Lock Sensor	100000 000000	В9	B 9 Body ECU		
A 5	A/C Magnetic Clutch	90980-11016	C 1	Camshaft Position Sensor	90980-10947	
A12	ABS Speed Sensor Front LH	90980-10941	C 2	Center Diff. Lock Control Motor	90980-11024	
A13	ABS Speed Sensor Front RH	90980-11002	С3	Crankshaft Position Sensor	90980-11162	
A14	Accel Position Sensor	90980-11144	C 5	Center Diff. Lock Control Relay	90980-10801	
A15	Airbag Sensor Front LH		C10	Cigarette Lighter	90980-10760	
A16	Airbag Sensor Front RH	90980-11856	90980-11856 C11 Cigarette Lighter Illumination		90980-11148	
A17	Auto Antenna Motor	90980-11194	C12	Combination Meter	82824-60060	
A18	A/C Solar Sensor	90980-11919	C13	Combination Meter	82824-60050	
A19	A/C Thermistor	90980-11918	C14	Combination Meter	82824-60060	
A24	Air Inlet Control Servo Motor	90980-11909	C15	Combination Meter	82824-60050	
A25	Air Mix Control Servo Motor	90980-10797	C16	Combination SW	90980-11672	
A26	Air Vent Mode Control Servo Motor	90980-11165	C17	Combination SW	90980-12155	
A27	Airbag Squib (Front Passenger Airbag		C18	C18 Combination SW		
33,000,000	Assembly)	90980-12160	C19	Combination SW	90980-11594	
A28	Airbag Squib (Steering Wheel Pad)			Center Airbag Sensor Assembly (w/ Side		
A29	Ashtray Illumination	90980-10825	C25	Airbag)	82824-50160	
A30	Auto Antenna Control Relay	90980-10819		Center Airbag Sensor Assembly (w/o Side Airbag)	90980-11873	
A31	Automatic Light Control Sensor	90980-12056	C26	C26 Center Airbag Sensor Assembly		
A32	A/C Amplifier (Rear)	90980-11502	020	Center Airbag Sensor Assembly (w/ Side		
A33	A/C Amplifier (Rear)	90980-11475		Airbag)	90980-11871	
A34	A/C Amplifier (Rear)	90980-11497	C27	Center Airbag Sensor Assembly (w/o Side		
A35	ABS Speed Sensor Rear LH	90980-11073		Airbag)		
A36	ABS Speed Sensor Rear RH		C28	Center Cluster Integration Panel	90980-12200	
A37	ABS & BA & TRAC & VSC Actuator	90980-11413	. 506001.000	C29 Curtain Shield Airbag Squib LH		
A38	ABS & BA & TRAC & VSC Actuator	90980-10895	C30	Curtain Shield Airbag Squib RH	90980-11864	
A39	ABS & BA & TRAC & VSC Actuator	90980-11151	D 1	Data Link Connector 1	90980-11195	
A40	ABS & BA & TRAC & VSC Actuator	90980-11009	D2	Daytime Running Light Relay No.3	90980-10939	
A41	ABS & BA & TRAC & VSC ECU	90980-11935	D 3	Daytime Running Light Relay No.3	90980-10940	
A42	ABS & BA & TRAC & VSC ECU	90980-11476	D 4	Detection SW (Center Diff. Lock)	90980-11250	
A43	ABS & BA & TRAC & VSC ECU	90980-11637	D 5	Detection SW (Transfer L Position)	3000000 1000000	
A44	ABS & BA & TRAC & VSC ECU	90980-11638	D6	Detection SW (Transfer Neutral Position)	90980-11025	
A45	A/C Control Assembly	90980-12170	D 7	Data Link Connector 3	90980-11665	
A46	A/C Control Assembly	90980-11913	D10	Door Courtesy Light Front LH		
A47	A/C Control Assembly	90980-11927	D11	Door Courtesy Light Front RH	90980-11148	
A48	A/T Shift Lever Illumination	90980-11911	D12	Door Courtesy Light Rear LH	30300-11140	
AHO	Shift Lock Control ECU	30300-11311	D13	Door Courtesy Light Rear RH		
B 1	Blower Motor Controller	90980-10910	D14	Door Courtesy SW Front LH		
B 2	Back Door Courtesy SW	90980-10039	D15	Door Courtesy SW Front RH	90980-10871	
В3	Back Door Key Lock and Unlock SW	90980-11490	D16	Door Courtesy SW Rear LH	30900-10071	
B 4	Back Door Lock Motor	90980-11150	D17	Door Courtesy SW Rear RH		
D 4	Back Door Unlock Detection SW	90900-11150	D18	Door Key Lock and Unlock SW LH	00000 11170	
B 5	Buckle SW LH	90980-11169	D19	Door Key Lock and Unlock SW RH	90980-11170	
B 6	Buckle SW RH	90900-11169	D20	Door Lock Control SW RH	90980-11950	

Note: Not all of the above part numbers of the connector are established for the supply.

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Code	Part Name	Part Number	Code	Part Name	Part Number
D21	Door Lock Motor Front LH		Н3	Headlight RH (High)	90980-11659
DZT	Door Unlock Detection SW Front LH		H 4	Headlight RH (Low)	90980-11660
D22	Door Lock Motor Front RH		H 5	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980-10869
DZZ	Door Unlock Detection SW Front RH	00000 44450	H 6	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11028
D23	Door Lock Motor Rear LH	90980-11150	H 7	Heated Oxygen Sensor (Bank 2 Sensor 1)	90980-10869
D23	Door Unlock Detection SW Rear LH		Н8	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028
D24	Door Lock Motor Rear RH		Н9	Hom LH	00000 40040
D24	Door Unlock Detection SW Rear RH		H10	Hom RH	90980-10619
D26	DVD Automatic Changer	90980-11971	H11	High Mounted Stop Light	90980-11211
D27	Door Control Receiver	90980-11909	11	Ignition Coil and Igniter No.1	
E 1	Electronically Controlled Transmission Solenoid	90980-12293	12	Ignition Coil and Igniter No.2 Ignition Coil and Igniter No.3	1
E2	Engine Coolant Temp. Sensor	90980-10736	14	Ignition Coil and Igniter No.4	-
E 3	Engine Hood Courtesy SW	90980-11003	15	Ignition Coil and Igniter No.5	90980-11885
E 4	Electronically Controlled Transmission Pattern Select SW	90980-10933	16	Ignition Coil and Igniter No.6	
E 5	Engine Control Module	90980-12144	17	Ignition Coil and Igniter No.7	1
E 6	Engine Control Module	90980-12145	18	Ignition Coil and Igniter No.8	1
E7	Engine Control Module	90980-12143	19	Injector No.1	
E8	Engine Control Module	90980-12146	110	Injector No.2	1
E 9	Engine Control Module	90980-12142	I11	Injector No.3	1
F 1	Front Fog Light LH	33333 12112	112	Injector No.4	90980-11153
F 2	Front Fog Light RH	90980-11660	113	Injector No.5	90980-11153
	Front Turn Signal Light LH		I14	Injector No.6	1
F 3	Side Marker Light LH		115	Injector No.7	1
	Front Turn Signal Light RH	90980-11020	116	Injector No.8	1
F 4	Side Marker Light RH	-	118	Ignition SW	90980-11615
F 5	Front Wiper Motor	90980-11599	122	Inner Mirror	90980-11186
F 8	Front Door Speaker LH		J1	Junction Connector	90980-11398
F 9	Front Door Speaker RH	90980-10935	J2	Junction Connector	90980-11915
10 900	Front Interior Light		J3	Junction Connector	90980-11398
F10	Rear Personal Light	90980-12211	J 4	Junction Connector	90900-1138
F11	Front Personal Light	90980-10825	J6	Junction Connector	90980-1192
-10000	Fuel Pump		J7	Junction Connector	90900-1192
F12	Fuel Sender	90980-11077	18	Junction Connector	90980-10803
F14	Fuel Pump Resistor	90980-11156	19	Junction Connector	90980-1192
F15	Fusible Link Block	90980-11996	J10	Junction Connector	30300-1192
F16	Fusible Link Block	90980-11881	J11	Junction Connector	90980-10803
F17	Fusible Link Block	90980-11775	J12	Junction Connector	90980-1192
F18	Fusible Link Block	90980-10995	J13	Junction Connector	90980-11925
F19	Fusible Link Block	82675-60050	J14	Junction Connector	90980-1192
G 1	Generator	90980-11964	J15	Junction Connector	90980-1192
G 2	Generator	90980-09212	J16	Junction Connector	90980-1191
G 3	Glove Box Light	90980-11098	J17	Junction Connector	30300-1191
G 4	Gateway ECU	90980-11911			
H 1	Headlight LH (High)	90980-11659			
H 2	Headlight LH (Low)	90980-11660	1		

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number	
J18	Junction Connector	P18		Power Window Control SW Front RH		
J19	Junction Connector	90980-11661	P19	Power Window Control SW Rear LH	90980-11947	
J20	Junction Connector	90960-11001	P20	Power Window Control SW Rear RH		
J21	Junction Connector		P21	Pretensioner LH	90980-11862	
J22	Junction Connector		P22	Pretensioner RH	90900-11002	
J23	Junction Connector	90980-11915	P23	Power Seat Control SW (Driver's Seat)		
J25	Junction Connector	90980-11913	P24	Power Seat Control SW (Front Passenger's	90980-10803	
J26	Junction Connector			Seat)		
K 1	Knock Sensor (Bank 1)	90980-11166	P25	Power Seat Motor (Driver's Seat Front Vertical Control)		
K 2	Knock Sensor (Bank 2)	90960-11166		Power Seat Motor (Driver's Seat Lumbar		
К3	Key Interlock Solenoid	90980-10825	P26	Support Control)		
L 1	License Plate Light LH	90980-11148	P27	Power Seat Motor (Driver's Seat Rear	1	
L2	License Plate Light RH	90960-11146		Vertical Control)		
L 3	Lumbar Support Control SW (Driver's Seat)		P28	Power Seat Motor (Driver's Seat Reclining Control)		
L 4	Lumbar Support Control SW (Front Passenger's Seat)	90980-10601	P29	Power Seat Motor (Driver's Seat Slide Control)	-	
M 1	Mass Air Flow Meter	90980-11317		Power Seat Motor (Front Passenger's Seat	90980-10825	
M 2	Moon Roof Control ECU	90980-10997	P30	Front Vertical Control)		
М3	Moon Roof Control SW	90980-10789	P31	P31 Power Seat Motor (Front Passenger's Seat Rear Vertical Control)		
M 4	Master Cylinder Pressure Sensor	90980-11451				
M 5	Multi-Display	90980-12203	P32	P32 Power Seat Motor (Front Passenger's Seat Reclining Control)		
M 6	Multi-Display	90980-12410		P33 Power Seat Motor (Front Passenger's Seat Slide Control) Power Seat Motor (Front Passenger's Seat Power Seat Motor (Front Passenger's Seat		
M 7	Multi-Display	90980-12012	P33			
M 9	Multi-Display	90980-12094	D34			
N 1	Noise Filter (Ignition)	90980-10843	1050	Lumbar Support Control)		
N 2	Navigation ECU	90980-11973	R5	Remote Control Mirror SW	90980-11657	
N 3	Navigation ECU	90980-11923	R6	Rheostat	90980-10799	
N 4	Navigation ECU	90980-12221	R7	Room Temp. Sensor (Front)	90980-11918	
02	Oil Pressure Sender	90980-11363	R8	Rear A/C Control SW	90980-11503	
05	Overhead J/B	90980-12155	R9	Rear Air Mix Control Servo Motor	90980-11319	
P1	Park/Neutral Position SW	90980-11784	R10	Rear Combination Light LH	90980-11587	
P 2	Parking Light LH	00000 11150	R11	Rear Combination Light LH	90980-10908	
P 3	Parking Light RH	90980-11156	R12	Rear Combination Light RH		
P 4	Power Outlet (Front)	90980-10760	R13	Rear Combination Light RH	90980-11587	
P 5	Power Outlet (Rear Console Box)	90980-10860	R14	Rear Cooler Blower Motor	90980-10214	
P6	Power Quarter Window SW LH	90980-10797	R15	Rear Cooler Magnetic Valve	90980-10860	
P 7	Power Quarter Window SW RH	90980-10996	R16	Rear Cooler Power Transistor	90980-10171	
P8	Parking Brake SW	90980-10871	R17	Rear Cooler Relay	o encontrate contrate to	
P 9	Power Outlet (Luggage Compartment)		R19	Rear Door Speaker LH	90980-10935	
P10	Power Vent Window Motor LH	90980-10860	R20	Rear Door Speaker RH		
P11	Power Vent Window Motor RH	The state of the s	R21	Rear Evaporator Temp. Sensor	90980-11918	
P12	Power Window Master SW	90980-12166	R22	Rear Heater Blower Motor	90980-10860	
P14	Power Window Motor Front LH		R25	Rear Heater Power Transistor	90980-10171	
P15	Power Window Motor Front RH		R26	Rear Inlet Air Temp. Sensor	90980-11369	
P16	Power Window Motor Rear LH	90980-11599	R27	Rear Interior Light	90980-10935	
P17	Power Window Motor Rear RH	i i				

Note: Not all of the above part numbers of the connector are established for the supply.

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Code	Part Name	Part Number	Code	Part Name	Part Number	
R28	Rear Window Defogger	00000 44007	Т5	Theft Deterrent ECU	90980-12169	
R29	Rear Window Defogger	90980-11097	Т7	Tilt and Telescopic ECU	90980-10799	
R30	Rear Wiper Motor	90980-10795	Т8	Tilt and Telescopic ECU	90980-10848	
R31	Rear Wiper Relay	90980-10797	Т9	T 9 Tilt Motor		
R32	Remote Control Mirror LH	00000 44570	740	Ignition Key Cylinder Light	00000 40000	
R33	Remote Control Mirror RH	90980-11573	T10	Transponder Key Amplifier	90980-12092	
R34	Room Temp. Sensor (Rear)	90980-11918	T11	Turn Signal Flasher	90980-10799	
R36	Radio and Player	90980-12038	T12	Trailer Socket	82824-34030	
R37	Radio and Player	90980-12183	T13 Tweeter LH			
R38	Radio and Player	90980-12259	T14	Tweeter RH	90980-11300	
R39	Rear Seat Audio Controller	90980-12200	T15	Towing Converter Relay	90980-11535	
R40	Roll Sensing of Curtain Shield Airbags	90980-10957	T16	T16 Throttle Control Motor and Sensor T17 Turbine Speed Sensor		
70.00000	Cutoff SW		T17			
S 1	Starter	90980-11400	T18	Towing Brake Controller	90980-11603	
S 2	Starter	90980-09585	T19	Transponder Key Computer	90980-11911	
S 3	Seat Heater SW (Driver's Seat)	90980-10797	T20	T20 Television Camera		
S 4	Seat Heater SW (Front Passenger's Seat)	90980-10996	121		90980-12169	
S 5	Stop Light SW	90980-11118			90980-10997	
S 6	Stereo Component Amplifier	90980-10848			82660-20340	
S 7	Stereo Component Amplifier	90980-10807	U 1	Unlock Warning SW	90980-10860	
S 8	Seat Belt Warning Occupant Detection Sensor	90980-10860	V 1	Vapor Pressure Sensor	90980-11143	
S 9	Seat Heater (Driver's Seat)	V 2 Vehicle Speed Sensor (Combination Meter)		00000 111.10		
S10	Seat Heater (Front Passenger's Seat)	90980-10907	V 3	Vehicle Speed Sensor (Electronically Controlled Transmission)	90980-11156	
S11	Side Airbag Sensor Front LH		V 4	VSV (EVAP)		
S12	Side Airbag Sensor Front RH	90980-12225	V 6	Vanity Light LH		
S13	Side Airbag Sensor Rear LH	90900-12225	V 7	Vanity Light RH	90980-11918	
S14	Side Airbag Sensor Rear RH		V 8	VSC Warning Buzzer	90980-10906	
S15	Seat Heater (Driver's Seat Cushion)		V9	VSV (Canister Closed Valve)	90980-11162	
S16	Seat Heater (Front Passenger's Seat Cushion)	90980-10794	V10	VSV (Pressure Switching Valve)	90980-11859	
S17	Seat Position Sensor	90980-12195	W 1	Washer Motor	90980-11294	
S18	Side Airbag Squib LH		W 4	Woofer (Speaker)	90980-10795	
S19	Side Airbag Squib RH	90980-11864	Y 1	Yaw Rate Sensor	90980-12080	
T 1	Theft Deterrent Horn	90980-10619	Z 1	Option Connector (Glass Breakage Sensor)	90980-10825	
T 4	Telescopic Motor	90980-10799				

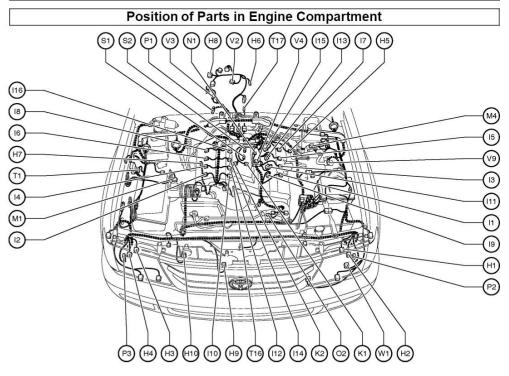
Position of Parts in Engine Compartment (F16) (E3) (3)(A5) (F18)

- A 1 A/C Ambient Temp. Sensor A 4 Pressure SW A 5 A/C Lock Sensor

- A/C Magnetic Clutch
 A12 ABS Speed Sensor Front LH
 A13 ABS Speed Sensor Front RH
- A15 Airbag Sensor Front LH
- A16 Airbag Sensor Front RH
- A17 Auto Antenna Motor
- A37 ABS & BA & TRAC & VSC Actuator
- A38 ABS & BA & TRAC & VSC Actuator
- A39 ABS & BA & TRAC & VSC Actuator
- A40 ABS & BA & TRAC & VSC Actuator
- C 1 Camshaft Position Sensor
- C 2 Center Diff. Lock Control Motor C 3 Crankshaft Position Sensor
- D 1 Data Link Connector 1
- D 2 Daytime Running Light Relay No.3
 D 3 Daytime Running Light Relay No.3
 D 4 Detection SW (Center Diff. Lock)

- D 5 Detection SW (Transfer L Position) D 6 Detection SW (Transfer Neutral Position)

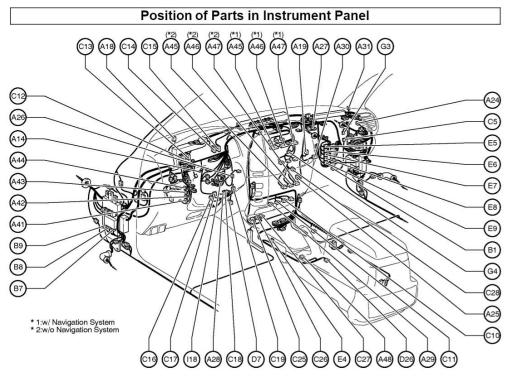
- E 1 Electronically Controlled Transmission Solenoid
- 2 Engine Coolant Temp. Sensor
- E 3 Engine Hood Courtesy SW
- 1 Front Fog Light LH 2 Front Fog Light RH
- 3 Front Turn Signal Light LH Side Marker Light LH
- F 4 Front Turn Signal Light RH Side Marker Light RH
- F 5 Front Wiper Motor
- F14 Fuel Pump Resistor
- F15 Fusible Link Block
- F16 Fusible Link Block
- F17 Fusible Link Block
- F18 Fusible Link Block
- F 19 Fusible Link Block
- G 1 Generator G 2 Generator



- 1 Headlight LH (High) 2 Headlight LH (Low)
- 3 Headlight RH (High)
- H 3 Headlight RH (Low)
 H 5 Heated Oxygen Sensor (Bank 1 Sensor 1)
 H 6 Heated Oxygen Sensor (Bank 2 Sensor 2)
 H 7 Heated Oxygen Sensor (Bank 2 Sensor 3)
- H 8 Heated Oxygen Sensor (Bank 2 Sensor 2) H 9 Horn LH
- H10 Horn RH
- Ignition Coil and Igniter No.1
- Ignition Coil and Igniter No.2
- 3 Ignition Coil and Igniter No.3
- 4 Ignition Coil and Igniter No.4 5 Ignition Coil and Igniter No.5
- Ignition Coil and Igniter No.6
- 7 Ignition Coil and Igniter No.78 Ignition Coil and Igniter No.8
- Injector No.1
- 10 Injector No.2
- I 11 Injector No.3 12 Injector No.4
- I 13 Injector No.5
- I 14 Injector No.6 I 15 Injector No.7
- I 16 Injector No.8

- K 1 Knock Sensor (Bank 1) K 2 Knock Sensor (Bank 2)
- M 1 Mass Air Flow Meter
- M 4 Master Cylinder Pressure Sensor
- N 1 Noise Filter (Ignition)
- O 2 Oil Pressure Sender
- Park/Neutral Position SW
 Parking Light LH
 Parking Light RH

- S 1 Starter
- S 2 Starter
- T 1 Theft Deterrent Horn T16 Throttle Control Motor and Sensor
- T17 Turbine Speed Sensor
- V 2 Vehicle Speed Sensor (Combination Meter)V 3 Vehicle Speed Sensor
- (Electronically Controlled Transmission)
- V 4 VSV (EVAP) V 9 VSV (Canister Closed Valve)
- W 1 Washer Motor



- A14 Accel Position Sensor

- A14 Accel Position Sensor
 A18 A/C Solar Sensor
 A19 A/C Thermistor
 A24 Air Inlet Control Servo Motor
 A25 Air Mix Control Servo Motor
 A26 Air Vent Mode Control Servo Motor
 A27 Airbag Squib (Front Passenger Airbag Assembly)
 A28 Airbag Squib (Steering Wheel Pad)
 A29 Ashtray Illumination
 A30 Auto Antenna Control Relay
 A31 Automatic Light Control Sensor
 A41 ABS & BA & TRAC & VSC ECU
 A42 ABS & BA & TRAC & VSC ECU
 A43 ABS & BA & TRAC & VSC ECU
 A44 ABS & BA & TRAC & VSC ECU
 A45 A/C Control Assembly

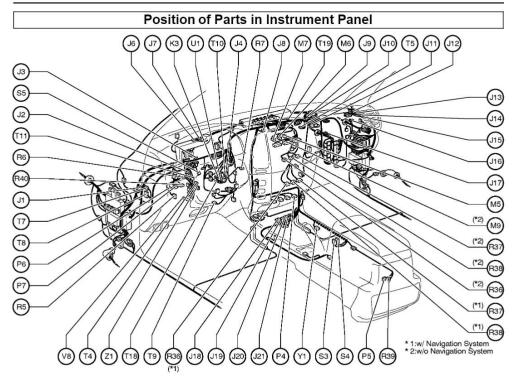
- A44 ABS & BA & IRAC & VSC A45 A/C Control Assembly A46 A/C Control Assembly A47 A/C Control Assembly A48 A/T Shift Lever Illumination Shift Lock Control ECU
- Blower Motor Controller
- B 1 Blower Mot B 7 Body ECU B 8 Body ECU B 9 Body ECU

- C 5 Center Diff. Lock Control Relay
 C10 Cigarette Lighter
 C11 Cigarette Lighter Illumination
 C12 Combination Meter
 C13 Combination Meter
 C14 Combination Meter
 C15 Combination Meter
 C16 Combination SW
 C17 Combination SW
 C18 Combination SW
 C19 Combination SW
 C20 Center Airbag Sensor Assembly
 C20 Center Airbag Sensor Assembly
 C21 Center Airbag Sensor Assembly
 C22 Center Airbag Sensor Assembly
 C23 Center Airbag Sensor Assembly
 C24 Center Cluster Integration Panel

- D 7 Data Link Connector 3 D26 DVD Automatic Changer

- E 4 Electronically Controlled Transmission Pattern Select SW
 E 5 Engine Control Module
 E 6 Engine Control Module
 F 7 Engine Control Module
 E 8 Engine Control Module
 9 Engine Control Module

- G 3 Glove Box Light G 4 Gateway ECU
- I 18 Ignition SW

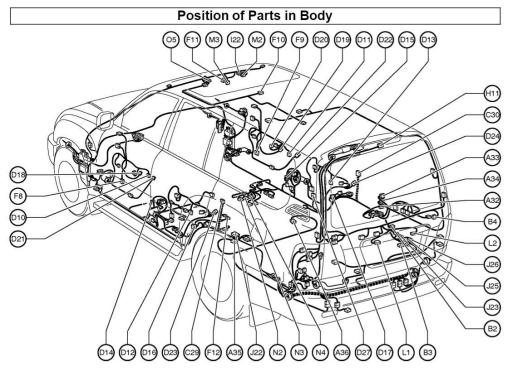


- Junction Connector
 Junction Connector 123467 J 8 J 9 J 10 J 11 J 12 J 13 J 14 J 15 J 16 J 17 J 18 J 19 J 20 J 21
- K 3 Key Interlock Solenoid
- M 5 Multi-Display M 6 Multi-Display M 7 Multi-Display M 9 Multi-Display
- Power Outlet (Front) Power Outlet (Rear Console Box) Power Quarter Window SW LH Power Quarter Window SW RH 4 5 6 7

- R 5 Remote Control Mirror SW
 R 6 Rheostat
 R 7 Room Temp. Sensor (Front)
 R36 Radio and Player
 R37 Radio and Player
 R38 Radio and Player
 R38 Radio and Player
 R39 Rear Seat Audio Controller
 R40 Roll Sensing of Curtain Shield Airbags Cutoff SW
- S 3 Seat Heater SW (Driver's Seat)
 S 4 Seat Heater SW (Front Passenger's Seat)
 S 5 Stop Light SW

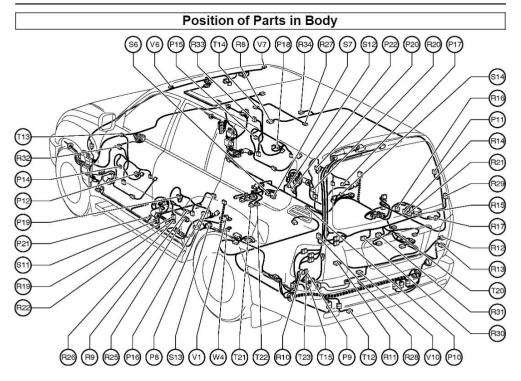
- T 4 Telescopic Motor
 T 5 Theft Deterrent ECU
 T 7 Tilt and Telescopic ECU
 T 8 Tilt and Telescopic ECU
 T 9 Tilt Motor
 T10 Ignition Key Cylinder Light
 Transponder Key Amplifier
 T11 Turn Signal Flasher
 T18 Towing Brake Controller
 T19 Transponder Key Computer

- U 1 Unlock Warning SW
- V 8 VSC Warning Buzzer
- Y 1 Yaw Rate Sensor
- Z 1 Option Connector (Glass Breakage Sensor)



- A32 A/C Amplifier (Rear) A33 A/C Amplifier (Rear) A34 A/C Amplifier (Rear) A35 ABS Speed Sensor Rear LH A36 ABS Speed Sensor Rear RH
- B 2 Back Door Courtesy SW B 3 Back Door Key Lock and Unlock SW B 4 Back Door Lock Motor Back Door Unlock Detection SW
- C29 Curtain Shield Airbag Squib LH C30 Curtain Shield Airbag Squib RH
- C30 Curtain Shield Airbag Squib RH
 D10 Door Courtesy Light Front LH
 D11 Door Courtesy Light Front RH
 D12 Door Courtesy Light Rear LH
 D13 Door Courtesy Light Rear LH
 D14 Door Courtesy SW Front LH
 D15 Door Courtesy SW Front RH
 D16 Door Courtesy SW Front RH
 D17 Door Courtesy SW Rear RH
 D19 Door Key Lock and Unlock SW LH
 D19 Door Key Lock and Unlock SW RH
 D20 Door Lock Control SW RH
 D21 Door Lock Motor Front LH
 D00 Unlock Detection SW Front LH
 D00 Unlock Detection SW Front RH
 D00 Unlock Detection SW Front RH
 D00 Unlock Detection SW Rear LH
 D24 Door Lock Motor Rear LH
 D00 Unlock Detection SW Rear LH
 D27 Door Lock Motor Rear RH
 D00 Unlock Detection SW Rear RH
 D00 Unlock Detection SW Rear RH
 D00 Unlock Detection SW Rear RH
 D00 Control Receiver

- Front Door Speaker LH Front Door Speaker RH Front Interior Light Rear Personal Light Front Personal Light F 8 F 9 F10
- F 11 F 12 Fuel Pump Fuel Sender
- H11 High Mounted Stop Light
- I 22 Inner Mirror
- J 22 Junction Connector J 23 Junction Connector J 25 Junction Connector J 26 Junction Connector
- 1 License Plate Light LH 2 License Plate Light RH
- M 2 Moon Roof Control ECU M 3 Moon Roof Control SW
- N 2 Navigation ECU N 3 Navigation ECU N 4 Navigation ECU
- O 5 Overhead J/B



- P 8 Parking Brake SW P 9 Power Outlet (Luggage Compartment) P10 Power Vent Window Motor LH P11 Power Vent Window Motor RH P12 Power Window Master SW

- P12 Power Window Master SW P14 Power Window Motor Front LH P15 Power Window Motor Front RH P16 Power Window Motor Rear LH P17 Power Window Motor Rear RH
- P18 Power Window Control SW Front RH P19 Power Window Control SW Rear LH
- P20 Power Window Control SW Rear RH P21 Pretensioner LH
- P22 Pretensioner RH
- R 8 Rear A/C Control SW
 R 9 Rear Air Mix Control Servo Motor
 R10 Rear Combination Light LH
 R11 Rear Combination Light LH

- R11 Rear Combination Light RH
 R12 Rear Combination Light RH
 R13 Rear Combination Light RH
 R14 Rear Cooler Blower Motor
 R15 Rear Cooler Magnetic Valve
 R16 Rear Cooler Power Transistor
 R17 Rear Cooler Relay

- R19 Rear Door Speaker LH R20 Rear Door Speaker RH
- R21 Rear Evaporator Temp. Sensor R22 Rear Heater Blower Motor
- R25 Rear Heater Power Transistor R26 Rear Inlet Air Temp. Sensor

- R27 Rear Interior Light R28 Rear Window Defogger R29 Rear Window Defogger

- R30 Rear Window Derogger R31 Rear Wiper Motor R31 Rear Wiper Relay R32 Remote Control Mirror LH R33 Remote Control Mirror RH
- R34 Room Temp. Sensor (Rear)

- S 6 Stereo Component Amplifier
 S 7 Stereo Component Amplifier
 S 11 Side Airbag Sensor Front LH
 S 12 Side Airbag Sensor Front RH
 S 13 Side Airbag Sensor Rear LH
 S 14 Side Airbag Sensor Rear LH
 S 14 Side Airbag Sensor Rear LH
- S14 Side Airbag Sensor Rear RH
- Trailer Socket

- T13 Tweeter LH
 T14 Tweeter RH
 T15 Towing Converter Relay
 T20 Television Camera ECU
 T22 Television Camera ECU
 T22 Television Camera ECU
 T23 Towing Hitch Polary
- T 23 Towing Hitch Relay

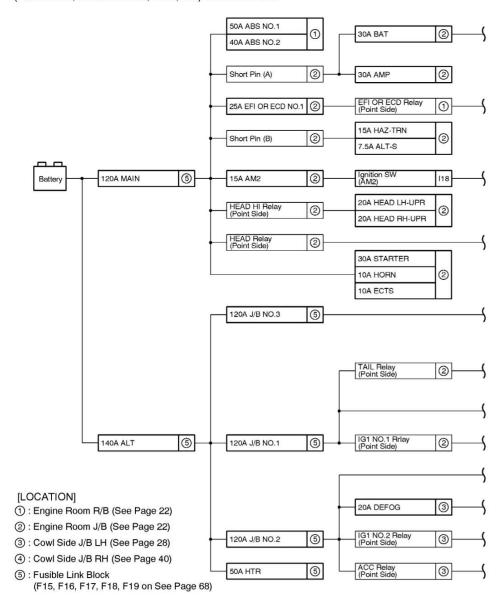
- V 1 Vapor Pressure Sensor V 6 Vanity Light LH V 7 Vanity Light RH V10 VSV (Pressure Switching Valve)
- W 4 Woofer (Speaker)

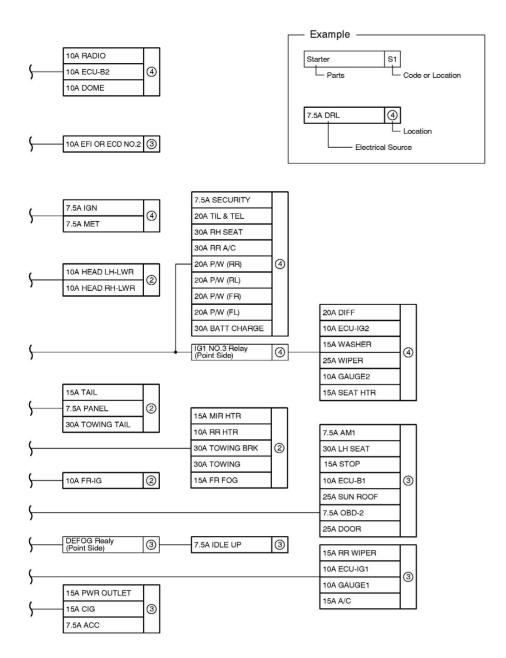
Position of Parts in Seat P26 P27 S9 B5 B6 P31

- B 5 Buckle SW LH
- B 6 Buckle SW RH
- L 3 Lumbar Support Control SW (Driver's Seat)
- L 4 Lumbar Support Control SW (Front Passenger's Seat)
- P23 Power Seat Control SW (Driver's Seat)
- P24 Power Seat Control SW (Front Passenger's Seat)
- P25 Power Seat Motor (Driver's Seat Front Vertical Control)
- P26 Power Seat Motor
 - (Driver's Seat Lumbar Support Control)
- P27 Power Seat Motor (Driver's Seat Rear Vertical Control)
 P28 Power Seat Motor (Driver's Seat Reclining Control)
- P29 Power Seat Motor (Driver's Seat Slide Control)
- P30 Power Seat Motor
- (Front Passenger's Seat Front Vertical Control) P31 Power Seat Motor
- (Front Passenger's Seat Rear Vertical Control)
- P32 Power Seat Motor
- (Front Passenger's Seat Reclining Control)
- P33 Power Seat Motor
- (Front Passenger's Seat Slide Control)
- P34 Power Seat Motor
- - (Front Passenger's Seat Lumbar Support Control)

- S 8 Seat Belt Warning Occupant Detection Sensor
- S 9 Seat Heater (Driver's Seat)
- S10 Seat Heater (Front Passenger's Seat)
- S15 Seat Heater (Driver's Seat Cushion)
- S16 Seat Heater (Front Passenger's Seat Cushion)
- S17 Seat Position Sensor
- S18 Side Airbag Squib LH
- S19 Side Airbag Squib RH

The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.





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J POWER SOURCE (Current Flow Chart)

Engine Room R/B (See Page 22)

Fuse		System	Page
40A	ABS NO.2	VSC	228
50A	ABS NO.1	VSC	228

Engine Room J/B (See Page 22)

	Fuse	System	Page
7.5A	ALT-S	Charging	104
3		Combination Meter	350
7.5A	PANEL	Illumination	142
		Multiplex Communication System	172
		Cruise Control	222
10A	ETCS	Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
10A	FR-IG	Charging	104
		Front Fog Light	132
10A	HEAD LH-LWR	Headlight	128
		Multiplex Communication System	172
404	LIEAD DILLIMD	Headlight	128
10A	HEAD RH-LWR	Multiplex Communication System	172
		Horn	208
10A	HORN	Multiplex Communication System	172
		Theft Deterrent	282
10A	RR HTR	Air Conditioning (Rear)	366
		Automatic Light Control	164
		Engine Control	108
		Headlight	128
15A	AM2	Ignition	100
		Light Auto Turn Off System	166
		Starting	98
		Theft Deterrent	282
15A	FR FOG	Front Fog Light	132
IJA	IKIOG	Multiplex Communication System	172
15A	HAZ-TRN	Turn Signal and Hazard Warning Light	134
15A	MIR HTR	Mirror Heater	314
		Automatic Light Control	164
		Light Auto Turn Off System	166
454	TAIL	Multiplex Communication System	172
15A	TAIL	Taillight	138
		Theft Deterrent	282
		Trailer Towing	158
20.4	HEAD III UDD	Headlight	128
20A	HEAD LH-UPR	Multiplex Communication System	172

 $^{\,^*\,}$ These are the page numbers of the first page on which the related system is shown.

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Fuse		System	Page
20A	HEAD RH-UPR	Headlight	128
20A	HEAD KH-UPK	Multiplex Communication System	172
		Cruise Control	222
25A	EFI OR ECD NO.1	Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
30A	AMP	Audio System (w/ Navigation System)	324
SUA	AIVIF	Audio System (w/o Navigation System)	330
30A	STARTER	Engine Control	108
SUA	SIARIER	Starting	98
30A	TOWING	Trailer Towing	158
30A	TOWING BRK	Trailer Towing	158
30A	TOWING TAIL	Trailer Towing	158

Cowl Side J/B LH (See Page 28)

	Fuse	System	Page
		Audio System (w/ Navigation System)	324
		Audio System (w/o Navigation System)	330
		Auto Antenna	322
		Automatic Light Control	164
		Combination Meter	350
		Door Lock Control	260
		Engine Control	108
		Headlight	128
		Interior Light	148
7.5A	ACC	Key Reminder	316
		Light Auto Turn Off System	166
		Multi-Display (w/o Navigation System)	348
		Multiplex Communication System	330 322 164 350 260 108 128 148 316 166 348 172 336 250 302 282 270 366 108 314 312 244
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Window	250
		Remote Control Mirror	302
		Theft Deterrent	282
		Wireless Door Lock Control	270
		Air Conditioning (Rear)	366
		Engine Control	108
7.5A	AM1	Mirror Heater	314
		Rear Window Defogger	312
		Shift Lock	244
7.5A	IDLE UP	Multiplex Communication System	172
AC.1	IDLE UP	Rear Window Defogger	312
7.5A	OBD-2	Engine Control	108
			100

^{*} These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

	Fuse	System	Page
		Multi-Display (w/o Navigation System)	348
10A	ECU-B1	Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Automatic Glare-Resistant EC Mirror with Compass	304
		Automatic Light Control	164
		Door Lock Control	260
		Headlight	128
		Interior Light	148
		Key Reminder	316
		Light Auto Turn Off System	166
		Moon Roof	256
10A	ECU-IG1	Multi-Display (w/o Navigation System)	348
IUA	ECO-10 1	Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Window	250
		Shift Lock	244
		Theft Deterrent	282
		Trailer Towing	158
		VSC	228
		Wireless Door Lock Control	270
10A	EFI OR ECD NO.2	Engine Control	108
		Air Conditioning (Front)	356
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
10A	GAUGE1	Illumination	142
		Key Reminder	316
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Rear Quarter Window	306
		Seat Belt Warning	320
		Air Conditioning (Front)	356
15A	A/C	Air Conditioning (Rear)	366
		Seat Belt Warning	320
15A	CIG	Cigarette Lighter	204
15A	PWR OUTLET	Power Outlet	206
15A	RR WIPER	Rear Wiper and Washer	200
		Cruise Control	222
15A	STOP	Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108

 $[\]ast$ These are the page numbers of the first page on which the related system is shown.

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Fuse		System	Page
		Multiplex Communication System	172
		Shift Lock	244
15A	STOP	Stop Light	156
		Trailer Towing	158
		VSC	228
20A	DEFOG	Rear Window Defogger	312
		Automatic Light Control	164
		Door Lock Control	260
		Headlight	128
		Interior Light	148
		Key Reminder	316
25A	DOOR	Light Auto Turn Off System	166
		Moon Roof	256
		Multiplex Communication System	172
		Power Window	250
		Theft Deterrent	282
		Wireless Door Lock Control	270
25A	SUN ROOF	Moon Roof	256
30A	LH SEAT	Power Seat	294

Cowl Side J/B RH (See Page 40)

Fuse		System	Page
7		Cruise Control	222
		Electronically Controlled Transmission and A/T Indicator	212
7.5A	IGN	Engine Control	222
1.5A	IGN	Engine Immobilizer System	124
		SRS	237
		VSC	228
		Center Differential Lock	246
		Charging	104
		Combination Meter	350
		Cruise Control	222
7.5A	MET	Electronically Controlled Transmission and A/T Indicator	212
7.5A	IVIET	Engine Control	108
		Multiplex Communication System	172
		Seat Belt Warning	320
		SRS	237
		VSC	228
7.5A	SECURITY	Multiplex Communication System	172
7.5A	SECURIT	Theft Deterrent	282
) (c	Combination Meter	350
10A	DOME	Garage Door Opener	210
IUA	DOME	Interior Light	148
		Multiplex Communication System	172

^{*} These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

	Fuse	System	Page
10A	DOME	Theft Deterrent	282
IUA	DOME	Wireless Door Lock Control	270
		Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Automatic Light Control	164
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Door Lock Control	260
		Electronically Controlled Transmission and A/T Indicator	212
		Engine Control	108
		Engine Immobilizer System	124
		Headlight	128
10A	ECU-B2	Interior Light	148
		Key Reminder	316
		Light Auto Turn Off System	166
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist	THE STATE OF THE S
		(Rear View Monitor)	336
		Power Tilt and Power Telescopic	298
		Power Window	250
		Seat Belt Warning	320
		Theft Deterrent	282
		VSC	228
		Wireless Door Lock Control	270
		Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Auto Antenna	322
10A	ECU-IG2	Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Power Tilt and Power Telescopic	298
		Turn Signal and Hazard Warning Light	134
		Back-Up Light	162
		Center Differential Lock	246
		Combination Meter	350
		Cruise Control	222
		Door Lock Control	260
		Electronically Controlled Transmission and A/T Indicator	212
10A	GAUGE2	Engine Control	108
		Multiplex Communication System	172
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
		Trailer Towing	158
	1	VSC	228
		1 4 3 C	220

^{*} These are the page numbers of the first page on which the related system is shown.

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	Fuse	System	Page
		Audio System (w/ Navigation System)	324
		Audio System (w/o Navigation System)	330
10A	RADIO	Auto Antenna	322
		Navigation System and TOYOTA Parking Assist (Rear View Monitor)	336
15A	SEAT HTR	Seat Heater	308
15A	WASHER	Front Wiper and Washer	196
ISA	WASHER	Rear Wiper and Washer	200
20A	DIFF	Center Differential Lock	246
		Door Lock Control	260
		Interior Light	322 336 308 196 200 246 260 148 172 250 282 270 172 250 172 250 172 250 298
20A	P/W (FL)	Multiplex Communication System	172
20A	F/VV (I L)	Power Window	250
		Theft Deterrent	282
	15	Wireless Door Lock Control	270
20A	P/W (FR)	Multiplex Communication System	172
20A	F/VV (1 K)	Power Window	250
20A	P/W (RL)	Multiplex Communication System	172
207	1 /VV (IXL)	Power Window	250
20A	P/W (RR)	Multiplex Communication System	172
207	1777 (1818)	Power Window	250
20A	TIL & TEL	Power Tilt and Power Telescopic	298
25A	WIPER	Front Wiper and Washer	
30A	BATT CHARGE	Trailer Towing	158
30A	RH SEAT	Power Seat	294
30A	RR A/C	Air Conditioning (Rear)	366

Fusible Link Block (F15, F16, F17, F18, F19 on See Page 68)

Fuse		System	Page
50A	HTR	Air Conditioning (Front)	356
		Automatic Light Control	164
		Illumination	142
4004	L/D NO 4	Light Auto Turn Off System	166
120A	J/B NO.1	Multiplex Communication System	172
		Taillight	138
		Theft Deterrent	282
		Air Conditioning (Rear)	366
		Engine Control	108
120A	J/B NO.2	Mirror Heater	314
		Rear Window Defogger	312
		Shift Lock	244
120A	J/B NO.3	Engine Control	108

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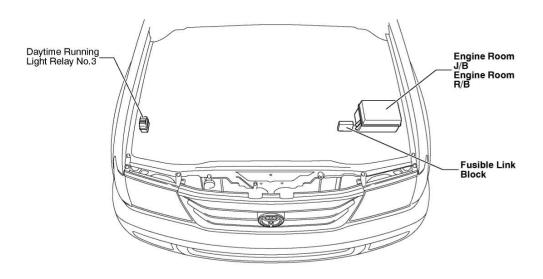
J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
		Ignition	100
120A	MAIN	Multiplex Communication System	172
		Starting	98
		Air Conditioning (Front)	356
		Air Conditioning (Rear)	366
		Automatic Light Control	164
		Charging	104
		Engine Control	108
		Illumination	142
140A	ALT	Light Auto Turn Off System	166
		Mirror Heater	314
		Multiplex Communication System	172
		Rear Window Defogger	312
		Shift Lock	244
		Taillight	138
		Theft Deterrent	282

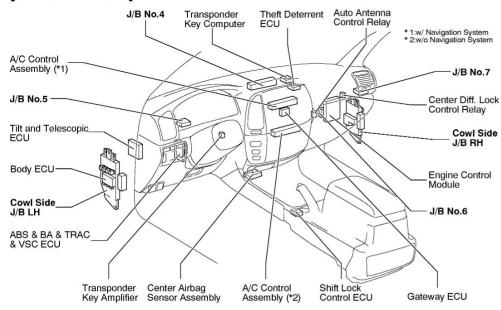
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^{*} These are the page numbers of the first page on which the related system is shown.

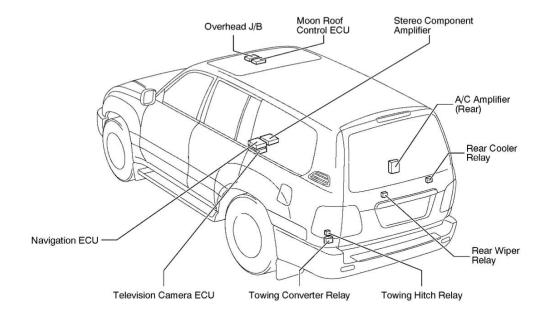
[Engine Compartment]



[Instrument Panel]

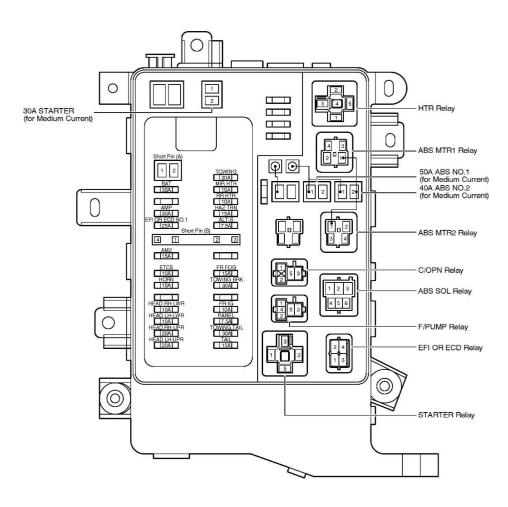


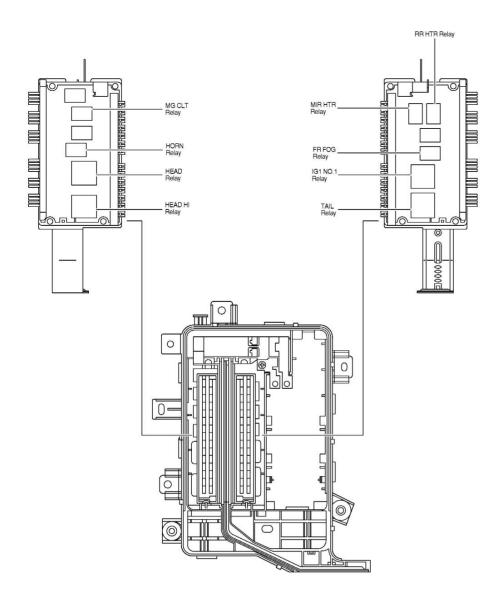
[Body]



○ : Engine Room J/B	Engine Compartment Left (See Page 20)
① : Engine Room R/B	Lingine Compartment Left (See Fage 20)

(Inner Circuit : See Page 26)

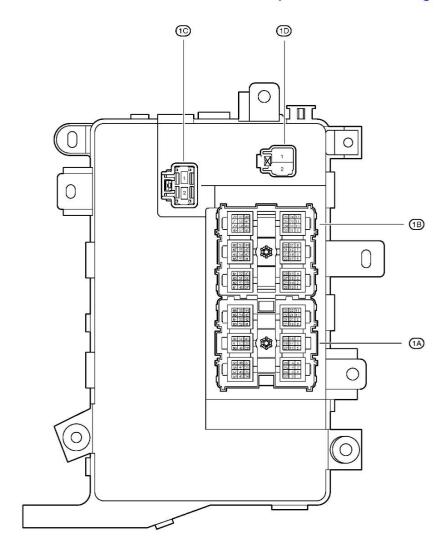


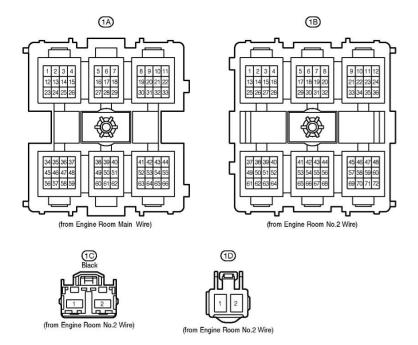


: Engine Room J/B

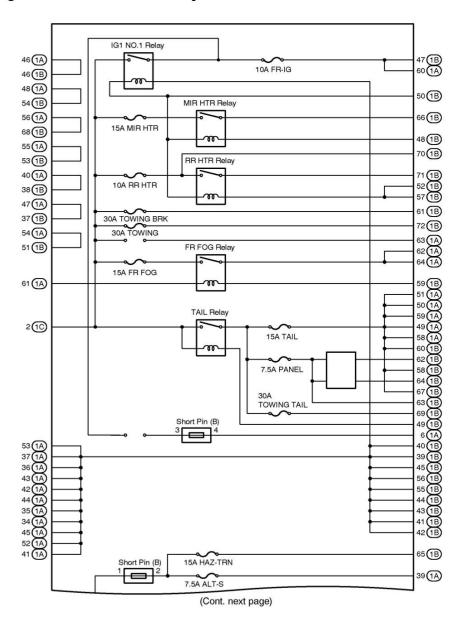
Engine Compartment Left (See Page 20)

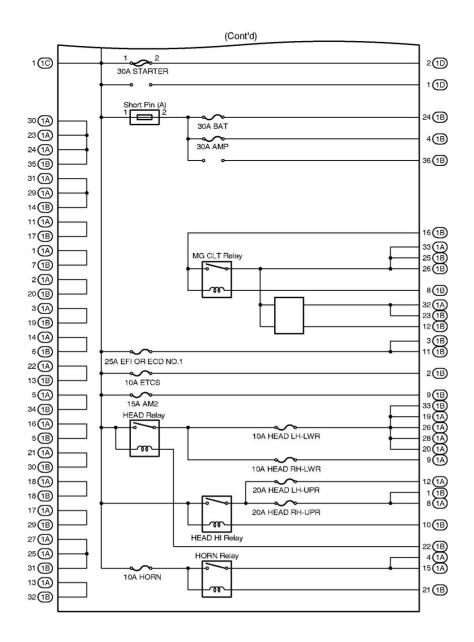
(Inner Circuit : See Page 26)





[Engine Room J/B Inner Circuit]

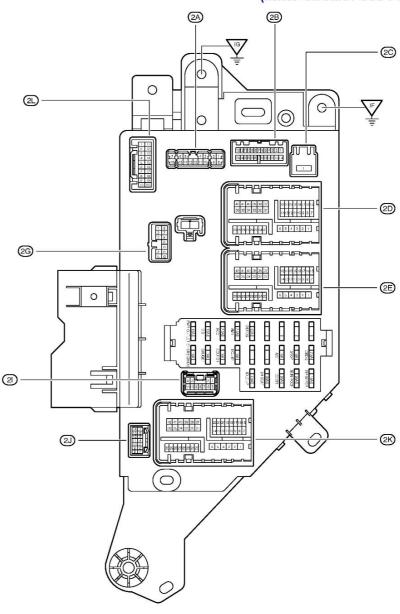


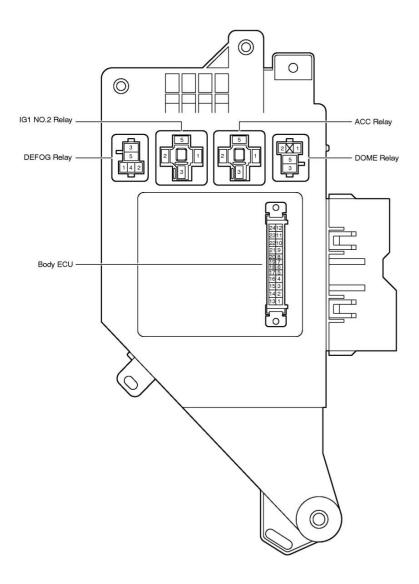


C : Cowl Side J/B LH

Left Kick Panel (See Page 20)

(Inner Circuit : See Page 34)

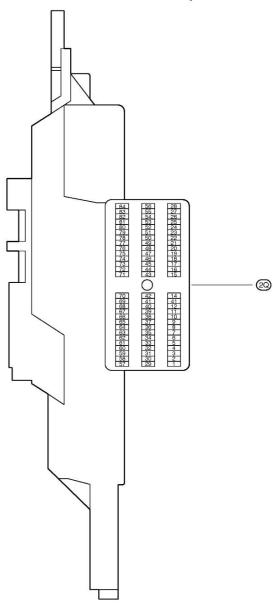




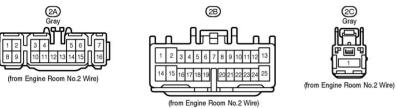
C : Cowl Side J/B LH

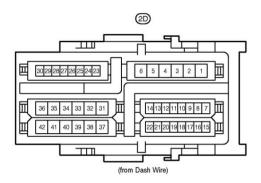
Left Kick Panel (See Page 20)

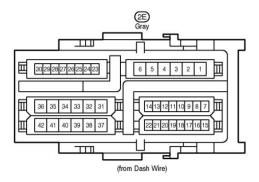
(Inner Circuit : See Page 34)







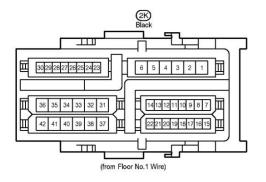


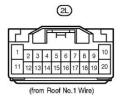


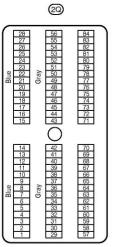






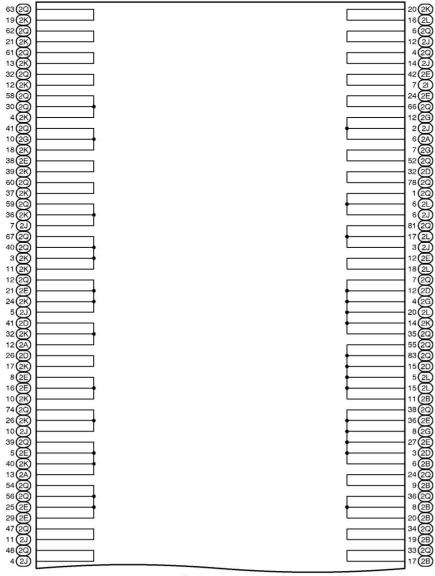






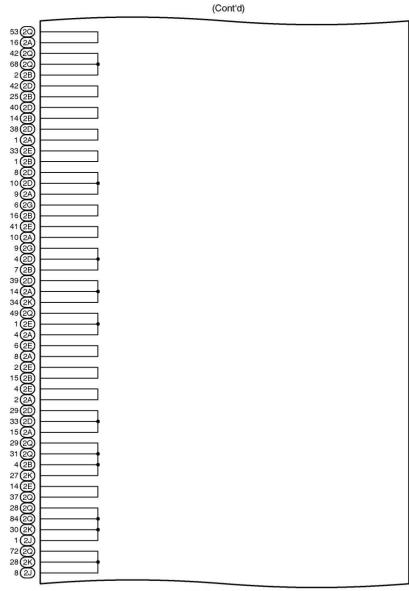
(from Instrument panel Integration Wire)

[Cowl Side J/B LH Inner Circuit]



(Cont. next page)

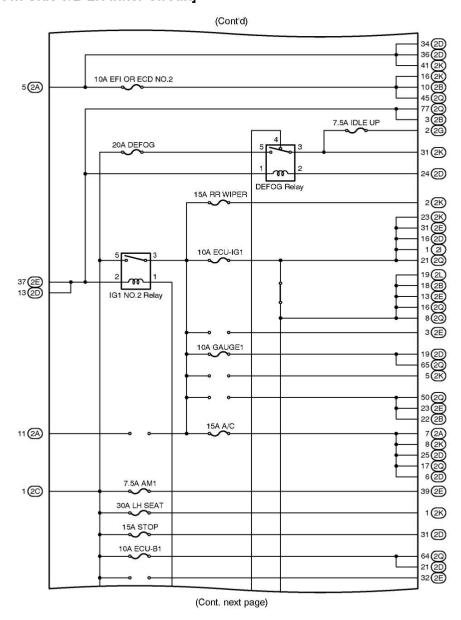
34

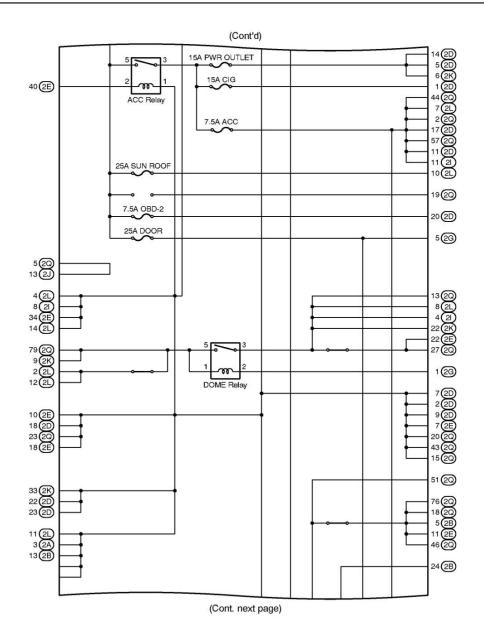


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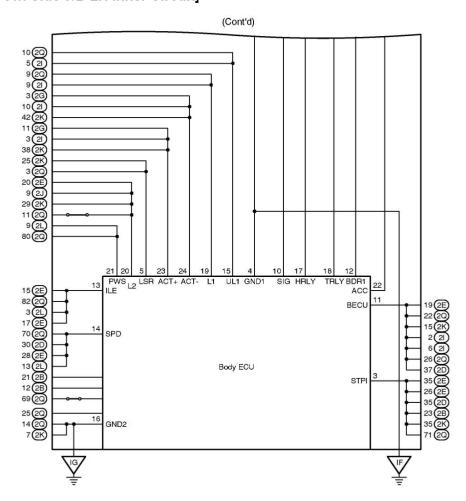
35

[Cowl Side J/B LH Inner Circuit]



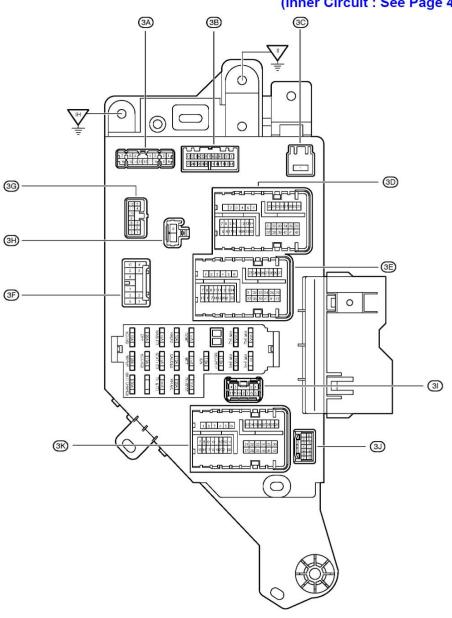


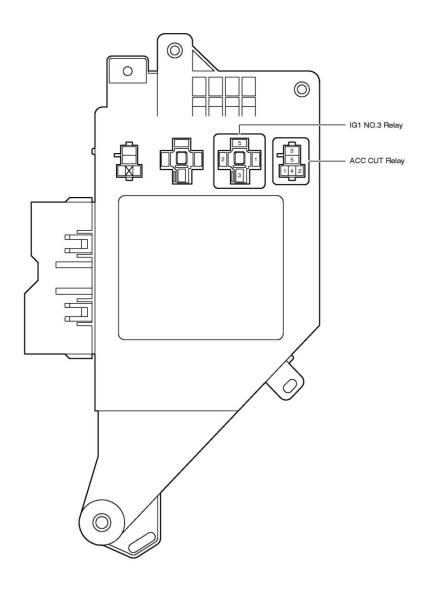
[Cowl Side J/B LH Inner Circuit]



C : Cowl Side J/B RH Right Kick Panel (See Page 20)

(Inner Circuit : See Page 46)

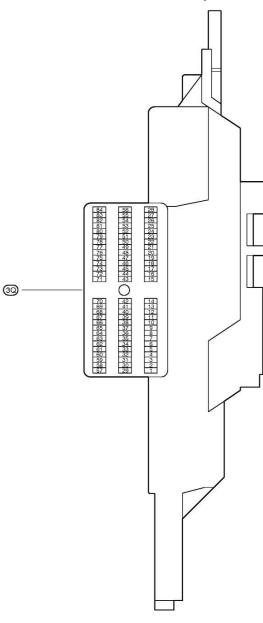


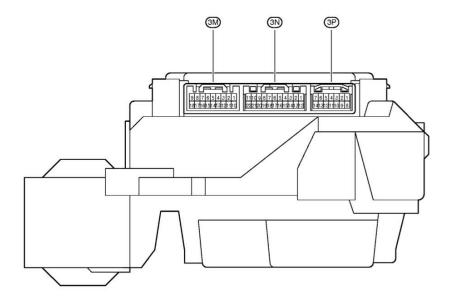


C : Cowl Side J/B RH

Right Kick Panel (See Page 20)

(Inner Circuit : See Page 46)

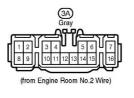


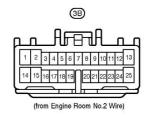




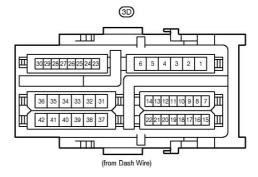
Right Kick Panel (See Page 20)

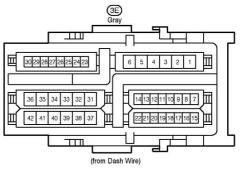
(Inner Circuit : See Page 46)











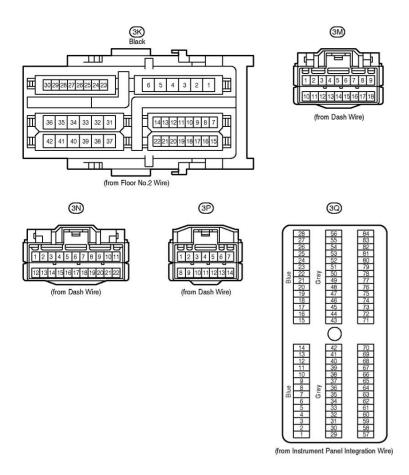




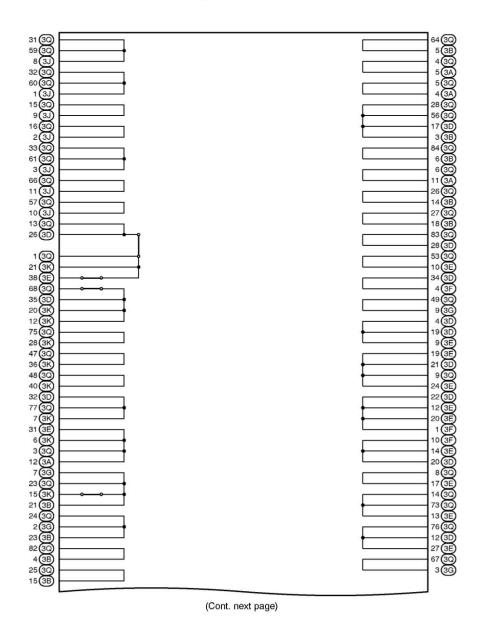




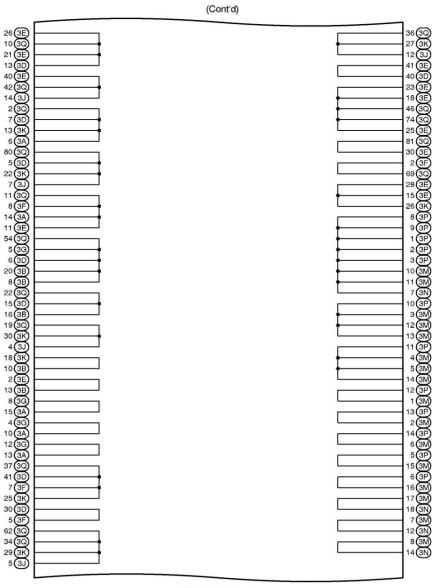




[Cowl Side J/B RH Inner Circuit]

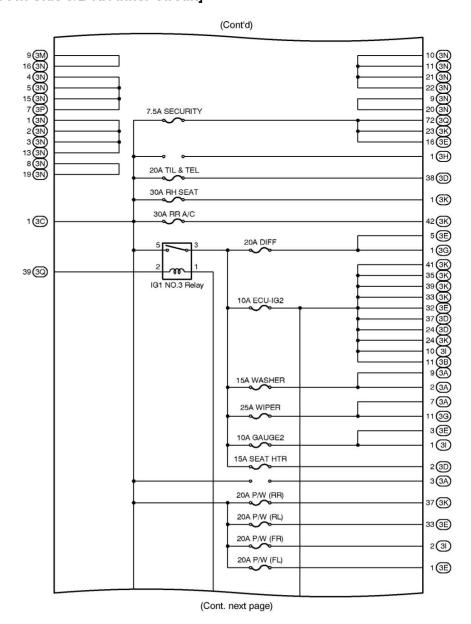


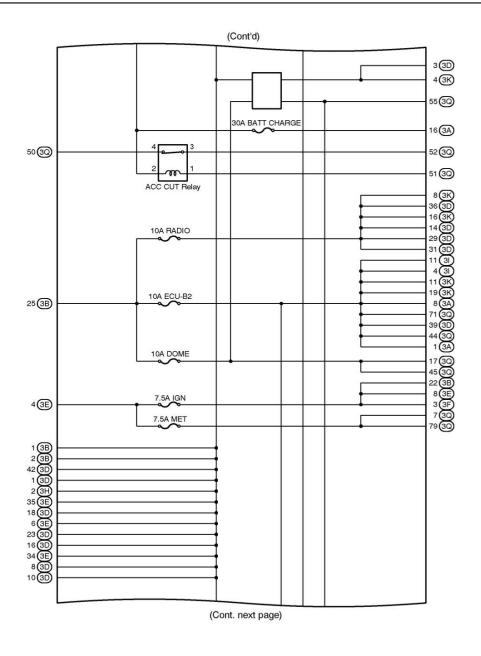
46



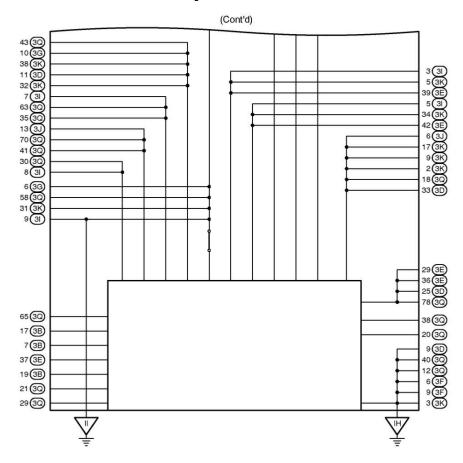
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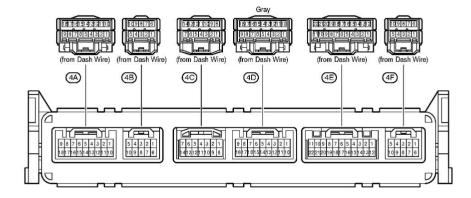
[Cowl Side J/B RH Inner Circuit]



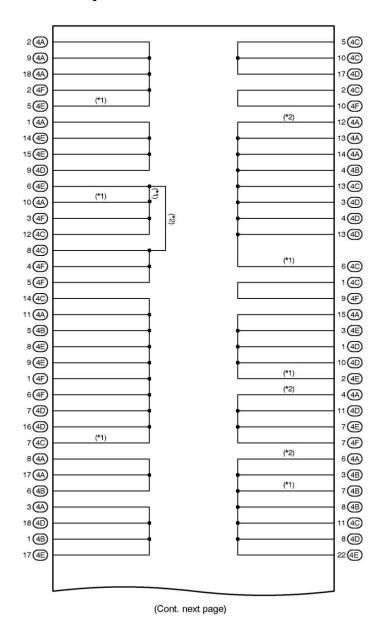


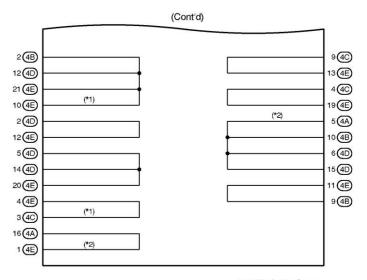
[Cowl Side J/B RH Inner Circuit]



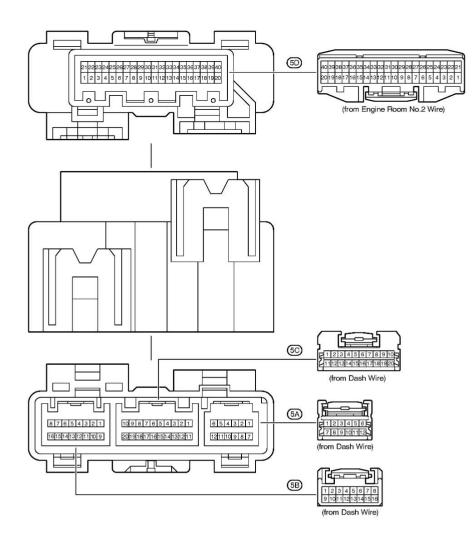


[J/B No.4 Inner Circuit]

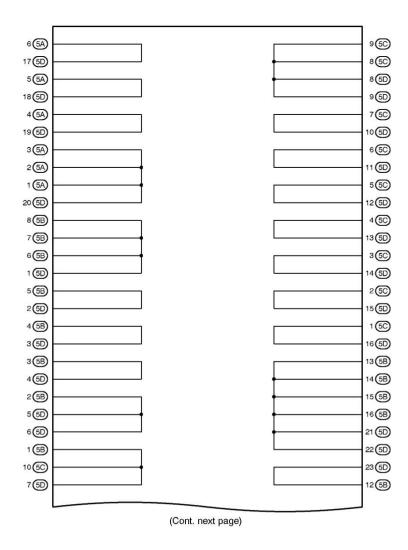


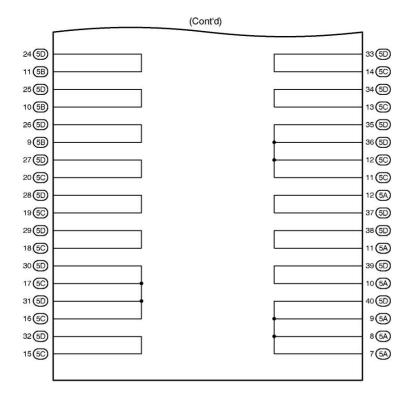


* 1:w/ Navigation System * 2:w/o Navigation System



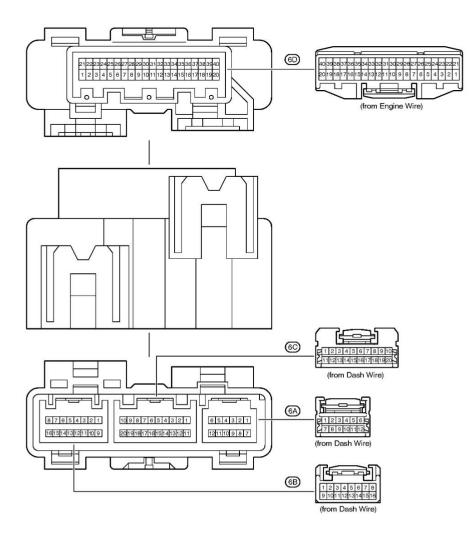
[J/B No.5 Inner Circuit]



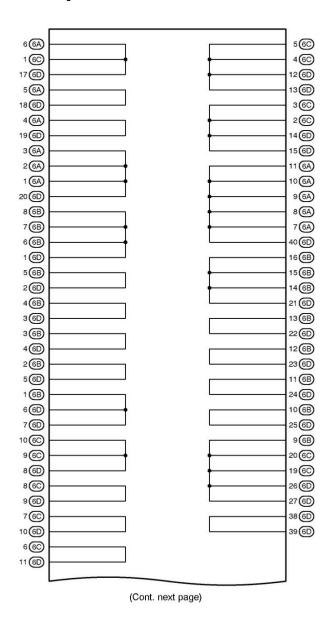


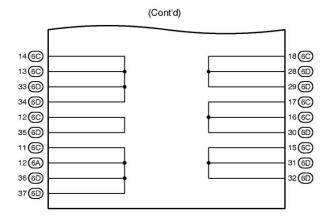
O: J/B No.6

Behind the Glove Box (See Page 20)



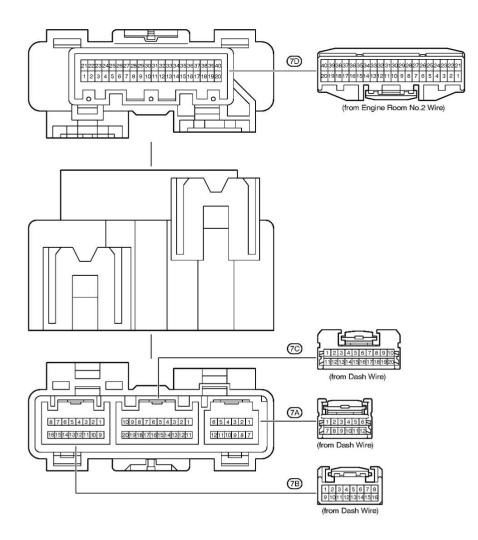
[J/B No.6 Inner Circuit]



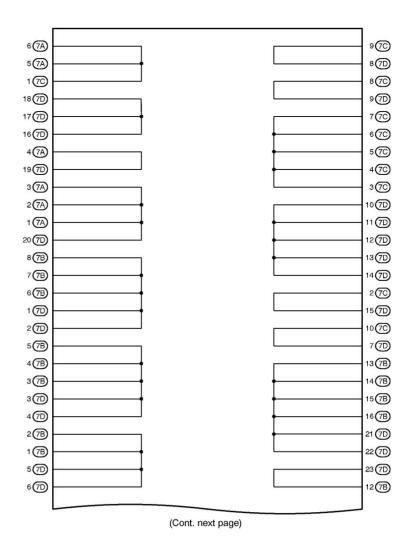


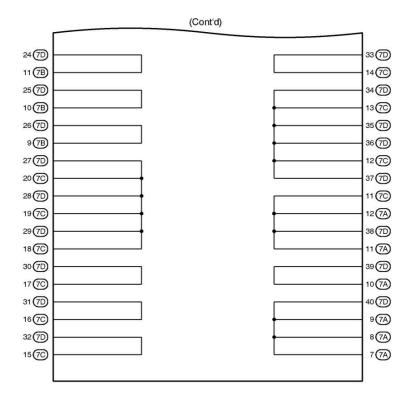
O: J/B No.7

Behind the Glove Box (See Page 20)



[J/B No.7 Inner Circuit]





2005 LAND CRUISER ELECTRICAL WIRING DIAGRAM SYSTEM CIRCUITS

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