DAIHATSU



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DAIHATSU MOTOR CO., LTD. NO. 9805-JE

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PREPARATION OF TOOLS AND FLUIDS

For Pre-Delivery Inspection process with this manual, following items should be prepared.

TOOLS

- Tire pressure gauge
- Tire inflator
- Rubber hammer (for wheel cap)
- Torque wrench (for wheel hub nut torque)
- 21 mm socket (for wheel hub nuts)
- Small flat blade screwdriver (for idle speed adjustment)
- Phillips (+) screwdriver
- 8 mm wrench (for headlight adjustment)
- 10 mm wrench (for battery connection)
- 12 mm wrench (for accelerator cable adjustment)
- Pliers
- Cassette tape (for cassette operation inspection)
- Headlight aim tester
- Tachometer
- Tacho pulse pick-up (SST-09991-87402-000)
- Piece of cloth
- Battery hydrometer

FLUIDS

- Brake fluid (DOT 3 or SAE J1703)
- Engine oil (API SH or higher)
- Manual transmission oil (SAE 75W-85 or 75W-90, API GL-3 or GL-4)
- Automatic transmission fluid (DEXRON*-II or DEXRON*-III)
- Transfer oil for automatic transmission vehicle (SAE 75W-85 or 75W-90, API GL-3 or GL-4)
- Hydraulic clutch fluid (DOT 3 or SAE J1703)
- Power steering fluid (DEXRON*-II or DEXRON*-III)
- Radiator coolant (Ethylene-glycol type)
- Windshield washer fluid
- □ Spray lubricant (s)

GENERAL VEHICLE INSPECTION

In order to prevent the battery from being discharged during shipment and storage, the EFI circuit is not formed. Therefore, before the vehicle is delivered to your customer, please carry out the following operation.

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1

VEHICLE APPEARANCE

Check the damage of the vehicle appearance.

- Body paint
- Mouldings
- Windshield & glasses
- Rear view mirrors
- Radio antenna
- Headlights lens
- Bumpers



BODY PANEL FIT

Check the proper alignment and closing condition of the body panel.

- Engine hood
- Doors

2

- Fuel lid
- Back door \square

If adjustment is required, refer to the service manual.



3 REMOTE RELEASE OPERATION

Check the operation of the remote release wire and parts.

- Engine hood
- Fuel lid

4 LOCKS AND HINGES OPERATION

Check the proper operation and lubricate as necessary.

- Lock and unlock each door with the key.
- Lock and unlock each door with the inside door lock.
- Check the central door lock control to be sure its locking and unlocking all doors (if equipped).
- Unlock the back door with the key to check lock and hinge operation.
- Close the back door to check latch operation.
- Open the engine hood.
- Close the engine hood to check latch operation.
- Check the child safety knobs for proper operation. The door should not open from the inside when the child safety knobs is in the "lock" position.

5 OWNER'S MANUAL/OWNER'S SERVICE BOOK

Ensure that the glove box contains the followings.

- Owner's Manual
- Owner's Service Book/Warranty Information Book









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Spare tire

0.2 kgf/cm2 (3 psi, 20 kPa) higher than the above.

8 WHEEL HUB NUT TORQUE

Check the wheel hub nut torque.

- 1. Loosen the hub nuts.
- 2. Torque the hub nuts in a crisscross sequence.
- 88 118 N·m (9 12 kgf-m) is applied.



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WHEEL COVERS/CENTER CAPS INSTALLATION

Install the center caps, by lightly tapping with a rubber hammer.



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10 DOOR STRIKERS ADJUSTMENT

- 1. Loosen the door striker screws.
- Position the striker in the correct location by tapping the striker with a plastic hammer.
- 3. Re-tighten the door screws.

Specified Torque:

9.8 - 15.7 N·m (1.0 - 1.6 kgf-m)

11 HOOD ADJUSTMENT

- 1. Remove the radiator grill.
- 2. Loosen the three hood latch bolts.
- 3. Position the latch in the correct location.
- 4. Re-tighten the latch bolts.

Specified Torque:

9.8 - 14.7 N·m (1.0 - 1.5 kgf-m)

12 BACK DOOR ADJUSTMENT

- 1. Loosen the striker screws.
- 2. Position the striker in the correct location.
- Re-tighten the striker screws.
 Specified Torque:

3.9 - 6.9 N·m (0.4 - 0.7 kgf-m)







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UNDER HOOD INSPECTION

BATTERY CONNECTION

Check the battery of the following points.

- Battery connections for corrosion or looseness.
- Battery hold down clamp for looseness.

Tighten the connections or clamp as necessary.

2 BATTERY FLUID

Check the battery fluid

1

Except for Delco Freedom battery

- Distilled water should be added to the upper level as necessary.
- The specific gravity of electrolyte should be more than 1.25 (20°C).

For Delco Freedom battery

The hydrometer at the top of the battery should be green.







FUSE INSTALLATION

Install the back-up fuse.

- 1. Remove the relay box lid in the engine compartment.
- Remove the back-up fuse from the relay box lid and insert it into the back-up terminal.
- 3. Install the relay box lid securely.

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3

BRAKE FLUID LEVEL

Check the brake fluid level.

Fluid level should be at the "MAX" level.

Fill the reserve tank up to the "MAX" level with brake fluid (DOT 3 or SAE J1703) as necessary.





5 CLUTCH FLUID LEVEL

Check the clutch fluid level.

Fluid level should beat the "MAX" level.

Fill the reserve tank up to the "MAX" level with brake fluid (DOT 3 or SAE J1703) as necessary.



COOLANT LEVEL IN RESERVE TANK

Check the coolant level. (Cold condition)

Coolant level in the reserve tank should be at the "FULL" level.

Add radiator coolant (ethylene-glycol type) to the reserve tank as necessary.



WINDSHIELD WASHER FLUID LEVEL IN RESERVE TANK

Check the windshield/rear washer level.

Windshield washer fluid level in the reserve tank should be at the "FULL" level.



POWER STEERING FLUID LEVEL

Check the power steering fluid level.

- When the fluid is cold (fluid temperature of about 20°C), make sure that the fluid level is within the "COLD" range.
- When the fluid is hot (fluid temperature of about 70°C), make sure that the fluid level is the "HOT" range.

Add power steering fluid as necessary.

Fluid specification: DEXRON*-II or DEXRON*-III



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9 ENGINE OIL LEVEL

Check the engine oil level while the engine is warm.

- 1. Warm up the engine and stop it.
- 2. After a few minutes, check the engine oil level.
- Oil level should be between "F" and "L" marks.

Add engine oil as necessary until the oil level is at "F" mark. NOTE: Use API SH or higher oil.



10 AUTOMATIC TRANSMISSION FLUID LEVEL

Check the automatic transmission fluid level.

With the engine at idle and the brake pedal depressed, move the shift lever from P to D and back to P.

- When the fluid is cold (fluid temperature of about 20°C), make sure that the fluid level is within the "COLD" range. NOTE:
 - After checking the fluid level while the fluid is cold, be sure to check the level when the fluid temperature is 80°C.
- When the fluid is hot (fluid temperature of about 80°C), make sure that the fluid level is within the "HOT" range.

Add automatic transmission fluid as necessary.

Fluid specification: DEXRON*-II or DEXRON*-III

11 HOSE AND FLUID LINE CONNECTIONS

Check all hoses and fluid line connections.

- Check the fluid lines for signs of leakage.
- Check the vacuum hoses and air intake duct for proper connections.





12 ENGINE IDLE SPEED

- 1. Preparation to be made prior to idle check.
 - Be sure to install the air cleaner in position.
 - Warm up the engine thoroughly.
 - All accessories are off.
 - Set the steering wheel in the straight ahead position.
 - Transmission is in Neutral for manual transmission, P for automatic transmission.
 - Parking brake is applied.

 Measure the engine idle speed, using a tachometer which is connector to the "REV" terminal of the diagnosis connector.

NOTE:

- Never allow the "REV" terminal to touch the ground. It could result in damage of the ignition system.
- As some tachometers are not compatible with this ignition system, it is recommended to confirm the compatibility with your unit before its use.

Specified Idle Speed: 700 ± 50 rpm

No adjustment is required for the engine idle speed.

Diagnosis conne	ctor
Earth terminal	Tacho-meter terminal
N	PJE00-006

PJE00-0026

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UNDER VEHICLE INSPECTION

JACKING POINTS AND SUPPORTING POINTS

Supporting points for jack and safety stands

Four supporting points are provided at the right and left sides. The supporting points have been strengthened by spot-welding reinforcements. Never support the vehicle at points other than the specified points.

Supporting points for garage jack
 Front side Front suspension member
 Rear side Rear differential





2 CONDITION OF BRAKE LINES AND CLUTCH LINES, HOSES AND CONNECTIONS

Check the brake lines, parking brake cable, hoses and connections for the following.

Crack

1

- Damage
- Twisting
- Swelling



3 FLUID LEAKAGE

Check the fluid leakage from the following parts.

- Engine
- Transmission & Transfer
- Front & Rear differential
- Fuel tank
- Fuel filler inlet hose
- Fuel lines

MANUAL TRANSMISSION OIL LEVEL 4

Remove the oil level check bolt from the transmission case. CAUTION:

- Never reuse the removed gasket.
- Oil level in the manual transmission should be at the oil level check hole or under 5 mm.

Add manual transmission oil as necessary until oil begins to flow out of the oil level check hole.

Oil specification: SAE 75W - 85 or 75W - 90 API GL-3 or GL-4

Install the oil level check bolt with new gasket interposed and tighten it securely.

Tightening Torque: 39.2 ± 9.8 N·m (4.0 ± 1.0 kgf-m)





TRANSFER OIL LEVEL (A/T VEHICLE) 5

Remove the oil level check bolt from the transfer case. CAUTION:

- Never reuse the removed gasket.
- Oil level in the manual transmission should be at the oil level check hole or under 5 mm.

Add manual transmission oil as necessary until oil begins to flow out of the oil level check hole.

Oil specification: SAE 75W - 85 or 75W - 90 API GL-3 or GL-4

Install the oil level check bolt with new gasket interposed and tighten it securely.

Tightening Torque: 39.2 ± 9.8 N·m (4.0 ± 1.0 kgf-m)

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PRE-ROAD TEST INSPECTION

BRAKE PEDAL FREE PLAY

Check the brake pedal free play.

Turn the engine "OFF" and depress the brake pedal ten times or more.

- Measure the brake pedal free play from the pedal resting point to a point where resistance is felt.
 - Specification: 0.5 2.0 mm

If adjustment is required, refer to the end of this section.



2

1

CLUTCH PEDAL FREE PLAY

Check the clutch pedal free play.

Measure the clutch pedal free play from the pedal resting point to a point where resistance is felt.

Specification:

Push Rod Free Play: 1 - 8 mm

Total Free Play: 3 - 20 mm

REFERENCE:

- The hydraulic clutch free play can be classified into the following two kinds.
 - Push rod free play
 - Free play of the master cylinder rod The pedal return force for this portion is the pedal return spring force only.
 - Total free play Push rod free play + Ineffective stroke of master cylinder

The pedal return force is the sum of the pedal return spring force and the master cylinder spring force.

NOTE:

 When the adjustment is necessary, refer to the CL section of the service manual for the chassis (9712).



3 ACCELERATOR PEDAL FREE PLAY

Check the accelerator pedal free play.

Measure the accelerator pedal free play from the pedal resting point to a point where resistance is felt. Specification: 3 - 5 mm

If adjustment is required, refer to the end of this section.

4 INSTRUMENT PANEL WARNING LIGHTS

Check the operation of the warning lights. (Ignition switch is in the "ON" position.)

- Parking brake/Brake Illuminates while parking brake lever is pulled.
- Oil pressure Illuminates
- Battery/Charging system Illuminates
- Check engine Illuminates
- Seat belt Illuminates while the driver side seat belt is unfastened.
- Hazard light/both turn signal indicators Flash intermittently while hazard warning switch is depressed.
- A.B.S. Illuminates for a few seconds
- Air Bag Illuminates for a six seconds



INSTRUMENT PANEL INDICATION LIGHTS

Check the operation of the indication lights. (Ignition switch is in the "ON" position.)

- Automatic transmission mode indication light Illuminates.
- O/D OFF indicator light Illuminates when the overdrive switch is turned off.
- High beam Illuminates when turn signal lever is pulled back.
- Rear fog light-on indicator light Illuminates when rear fog light is on.
- Center differential lock indicator light Illuminates when the center differential lock indicator light switch is turned on with the engine switch turned on.







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INSTRUMENT PANEL GAUGE OPERATION

Check the operation of the following instrument panel gauges. (After the engine has warmed up)

- Fuel gauge
- Water temperature gauge





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6

REAR WINDOW DEFOGGER

Check the operation of the rear window defogger light. (Ignition switch is in the "ON" position.)

Push the defogger switch in the "ON" position.

The indicator light should illuminate.



CIGARETTE LIGHTER

Check the operation of the cigarette lighter.

(Ignition switch is in the "ACC" or "ON" position.)

Push the cigarette lighter in. The cigarette lighter will pop out after heated.

Pull out the cigarette lighter and confirm that the element has been heated.

NOTE:

9

 If the cigarette lighter fails to pop back to the original position within 20 seconds, it indicates malfunction of the cigarette lighter system.



WIPER AND WASHER OPERATION

Check the operation of the front and rear wiper and washer.

- Wipers operate smoothly.
- □ Washer fluid sprays onto the center of the window.

If adjustment is required, refer to the end of this section.



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10 RADIO/CASSETTE OPERATION

Check the operation of the radio/cassette for the following. (Ignition switch is in the "ACC" or "ON" position.)

- Volume
- Tone
- Reception

11 MIRRORS OPERATION

Check the operation of the power mirrors. (Ignition switch is in the "ACC" or "ON" position)

- 1. Move the master switch left or right.
- 2. Move the control switch in all directions.
- Mirrors move in the direction the control switch is pressed.

12 WINDOW OPERATION

Check the operation of the windows (manual and power).

- Windows track properly.
- Windows move smoothly and completely up and down.









13 HORN OPERATION

Check the operation of the horn.

Horn sounds whenever the horn pad is pushed.

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14 SEAT ADJUSTERS AND SEAT BACK LOCKS

Check the operation of the seat adjusters, seat back locks, and headrests for all seats.

- Confirm that the seatback releases and holds.
- Confirm that the seat travels smoothly on the seat track.
- Confirm that the headrests adjust smoothly and lock in position.
- Confirm that the rear seat back/seat cushion folding operates correctly and lock into position.



15 SEAT BELTS

Check the operation of the seat belts.

- Buckle the front seat belts and off the latches.
- Buckle the rear seat belts and off the latches.



16 LIGHTS

Check the operation of the following lights:

- Headlights, high and low beams
- Right and left turn signals
- Tail and brake lights
- License plate lights
- Hazard warning lights
- Clearance lights
- Back-up lights
- Rear fog light (if equipped)
- Interior light
- Dome light
- High-mounted stop light



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17 HEADLIGHT AIM

Check the headlight aim.

- 1. Place the vehicle on a level floor.
- Bounce the front suspension several times.
- Rock the vehicle sideways several times then allow the vehicle to assume its normal position.
- Clean the headlight lenses and use a headlight aim inspection tool.
- Check the headlight aim.

Adjusting screw A: Right & left direction (Inward when turned clockwise)

Adjusting screw B: Up & down direction (Upward when turned clockwise)



Headlight leveling equipped vehicle

- 1. Follow the above 1. through 4.
- 2. Headlights leveling switch is in "0" position.
- Check the headlight aim.
- Confirm that the aiming should be performed when leveling switch is turned 0–1–2–3–4 position.



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BRAKE PEDAL FREE PLAY ADJUSTMENT

Adjustment procedure:

- 1. Loosen the push rod lock nut.
- Turn the push rod until the correct brake pedal free play is obtained.

Specification: 0.5 - 2 mm (while engine is stopped)

- 3. Tighten the push rod lock nut.
- Check the brake light switch adjustment. Adjust the switch as required.



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19 ACCELERATOR PEDAL FREE PLAY ADJUSTMENT

Adjustment procedure:

- 1. Loosen the accelerator lock nut.
- Reposition the adjusting nut to provide correct accelerator pedal free play.
- Specification: 3 5 mm
- 3. Re-tighten the lock nut.
- 4. Repeat steps 1. through 3. as necessary.



20 WASHER AIM ADJUSTMENT

Adjustment procedure:

Insert a straight pin into the washer nozzle spray outlet and adjust the nozzle location as necessary.

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ROAD TEST

1 ENGINE PERFORMANCE DURING IDLING AND PARTIAL THROTTLE

Check the engine performance.

- 1. At idling
- Take note of the idle speed with the engine fully warmed up.
- 2. During partial throttle
- The performance should be smooth and without any hesitation.
- The speed should be maintained at a constant speed of 40
 50 km/h.



2 ENGINE PERFORMANCE UNDER LOADED STATE AND DURING CRUISING

Check the engine performance.

- 1. Under loaded state
- Accelerate to 3/4 throttle.
 The vehicle should accelerate smoothly without any laboring or hesitation.
- 2. During cruising
- The vehicle should run smoothly without any hesitation or surging.

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3 VIBRATIONS OR NOISES

Check the vibrations or noises.

The vehicle should run without any abnormal vibrations or noises from the chassis or the body.

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5

STEERING WHEEL AT THE STRAIGHT-AHEAD POSITION

Check that the steering wheel is centered.

The steering wheel should be centered when the vehicle is traveling in a straight line on a flat road surface.





Check the operation of the heater/ventilation system.

Check the controls and confirm that the system functions properly.



6

SERVICE AND PARKING BRAKE OPERATION

Check the operation of the service and parking brake.

The vehicle should brake in a straight line.

Park the vehicle on an incline and set the parking brake. The vehicle should remain in position.

The parking brake lever should travel specified notches when an operating force of 196 N (20 kgf) is applied.

Specification: 4 - 7 notches



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VEHICLE CLEANING

1 EXTERIOR

Perform the following steps to ensure exterior cleaning:

- Rinse the loose dirt from the vehicle with a fine spray of water.
- Wash the vehicle using a sponge and water mixed with a mild detergent.
- 3. Rinse the soap with a fine spray of water.
- 4. Use a wax remover for any grease or tar.
- 5. Rinse the vehicle completely with water.
- Wipe the vehicle dry from top to bottom using a clean chamois or soft, absorbent towel.
- Check no water leakage into any interior.
- Remove all inspection labels from the vehicle lenses or mirrors.
- Mirror angles should be adjusted.

Recommended dewaxing method.

- 1. Water temperature less than 70°C
- Distance between body surface and discharge nozzle about 30 mm
- 3. Do not scrub the plastic parts with kerosene.
- Wash cars with water only, less than 70°C, after dewaxing.
- Check all wax removed.
 - NOTE: Cool down the body surface with water before dewaxing when the body surface is too hot.



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2 INTERIOR

Perform the following steps to ensure interior cleaning:

- 1. Clean all interior surfaces of any grease and dirt.
- Thoroughly remove all plastic covering from the seats, visor, instrument panel, etc.
- 3. Completely vacuum the upholstery and carpeting.
- 4. Vacuum the luggage room area.
- 5. Remove the protective film from the heater control panel.
- 6. Remove all shipping information labels.
- 7. Clean all glass surfaces and mirrors with glass cleaner.
- Check that all optional parts are installed properly and check to see if they operate properly.

