

Issued December 1971

TRAILER, 3/4 TON, 2 WH, SANKEY

ARMY VEHICLE CODE No 2855-0 90

TECHNICAL HANDBOOK

PRODUCED TO THE REQUIREMENT OF THE MINISTRY OF DEFENCE

BY DIRECTOR OF QUALITY ASSURANC : (FIGHTING VEHICLES AND ENGINEER EQUI MENT)

T 5195/1

AMENDMENT RECORD SHEET

A.L. No.	Amended by	Date
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		<u> </u>
11		
12		
13		
14		
15		
16		
17		
18		
19	······	
20		



...

TRAILER, CARGO, ¾ TON, 2WH, F.V.2361

LIST OF CONTENTS

TECHNICAL DESCRIPTION								Para.				
Leadin	g particulars											
Introdu	iction						••••	••••				1
Genera	l			••••		• • •		•••		••••	•••	2
Draugh	t eye and ov	erride	mecha	anism				•••	•••	•••		3
Suspen	sion						•					10
Hubs a	nd brakes							•••		••••		11
Electric	cal equipmen	t					•••	•••				13
SERV	ICING AN		PAIF	RINS	TRU	сті	ONS					
Body												16
-	t eye and ove											17
	o dismantle											18
	o assemble t		-									19
	nechanism							•••				20
ĩ	o remove the	e hand	lbrake	assem	bly						•••	21
T	o dismantle	the ha	ndbra	ke				•••				22
ľ	o assemble th	he har	ndbrak	e		•••						23
Т	o replace the	e hand	brake	assem	bly	••••	•					24
Т	o check brak	e link	age	• · · ·								25
В	rake adjustm	ent				* - *		•••		•••		28
Suspens	sion		•••			• • •		•••	••••	•••		30
Т	o dismantle	the su	spensie	on		• • •				•••		31
Т	o replace a le	eaf spr	ing	•···		••••						33
Т	o overhaul a	leaf sj	pring	 .		••••				•	•••	34
T	o reassemble	the su	ispens	ion		••••					•••	35
Tyres	···· ···					•••	•••					36
Hubs ar	id brakes				•••					•••	•••	37
Т	o dismantle a	a hub	and br	ake ui	nit			•••				38
Т	o assemble a	hub a	nd bra	ike	•••				•••		•••	39
Suppor	t legs		•···		•••			- • •	•••		•••	40
Electric	al equipmen	t		•••		•••		•••			•••	41
C	onvoy and re	egistra	tion p	late li	ghts					•••		43
	ide and turn							•••				44
	ail/Stop light	•										45
	aution											46
1.	amps											47

. -

2

LIST OF ILLUSTRATIONS

										Fig.
Removing the body	,			 	• • -					1
Draught eye and ov	erride	e mech	anism	 			•••			2
Brake mechanism				 						3
Suspension				 • • •						4
Hubs and brakes				 	••.					5
Registration plate li	ght			 						6
Side light				 					•	7
Wiring diagram				 				•••	•	, o
,			•••	 •••	•••	•••	•••	•••	•	8



Three-quarter front view of Trailer FV 2361



Three-quarter rear view of Trailer FV 2361

,

TECHNICAL DESCRIPTION

LEADING PARTICULARS

Overall length	2.83 m (9 ft 7¼ inches)
Overall width	1.41 m (4 ft 7½ inches)
Height (laden)	1.08 m (3 ft 61/2 inches)
Weight (unladen)	357.4 kg (788 lb)
Wheel track	1.21 m (3 ft 11¾ inches)
Tyre size	0.165 x 0.406 m (6.50 x 16.0 incl ∋s)

INTRODUCTION

1. This chapter describes the Cargo Trailer (FV2361) which has a metal bc ly with fixed sides and is capable of carrying loads of up to 0.76 tonnes ($\frac{3}{4}$ ton) and being towed by a truck $\frac{1}{4}$ ton C.L. or 1 ton G.S. at speeds up to 72.4 km/h (45 mile/h).

GENERAL

2. The chassis and drawbar frames are of integral construction, and suspen ion is by means of a pair of semi-elliptic springs carrying the tubular axle and damped by tubular hock absorbers. Service braking is by means of an over-run unit operating through a mechanical linka e to the brakes. A hand operated lever is fitted for parking purposes and also utilizes this linkage. This support legs are fitted and the electrical system is 24 volt. The body is removable as a complete unit.

DRAUGHT EYE AND OVERRIDE MECHANISM

3. The draught eye is mounted on top of the forward end of the drawbar a id consists of a spring loaded draught eye and shaft (Fig. 2 (1)) operating in two bushes (19 and 21, which are mounted in a bracket assembly (5). The bracket assembly is charged with grease throug 1 a nipple (4) and 'O' rings (18 and 22) in the bushes and a wiper (2) in the cap (3) prevent leakage

4. The override mechanism functions so that, when the towing vechicle's b akes are applied, the trailer tends to override and the draught eye is forced to the rear, compressing the spring. The machined bolt bears against the pressure pad of the brake mechanism (paragr. ph 6) forcing it to the rear and causing the brakes to be applied. When the drive is again taken up the shaft is drawn forward and the brakes are released.

5. A reversing stop (20), normally slotted in a clip on the left hand side of the drawbar and attached to the trailer by a chain, must be positioned over the exposed part of the chaught eye shaft to lock the mechanism when reversing the trailer.

6. The handbrake mechanism is mounted in a bracket (Fig. 3 (8)) which is polted to the drawbar. The hand lever (15) and brake lever (10) pivot on a shaft. When the handbrak is applied, a pawl (19), connected by an adjustable spring loaded link (16) to a release lever (14 on the hand lever (15), locates in quadrant teeth (12) to retain the brake in the 'on' position.

7. In addition to the manual operation, provision is made for the brakes to be applied automatically by action of the override arrangement incorporated in the draught eye. The brake lever (10) in the handbrake assembly is connected at its bottom end by means of a spring 1 aded rod (27) to the brake linkage. The brake lever moves independently of the hand lever when the brakes are applied by the override mechanism. The pressure pad at the top of the brake lever when machined bolt (11) in the end of the draught eye shaft, pivots the lever, drawing the spring loaded rod (27) forward compressing the spring (28) and so applying the brakes.

8. When the prime mover draws on, the machined bolt (11) moves forward clear of the pressure pad and the spring (28) returns the brake mechanism to the released position.

9. The brake linkage consists entirely of rods with fork ends, links and levels. The spring loaded rod (27) is connected by fork ends to the brake lever (10) and the relay lever 7). From the relay lever, a second rod runs back to the compensating lever (4) from which a rod uns out to each brake unit.

SUSPENSION

10. The suspension consists of one pair of longitudinally situated semi-elliptic springs (Fig. 4 (25)) mounted to the shackle eyes on 'silent bloc' type rubber bonded bushes. Acon rubber springs (11) check upward movement and steel wire check straps (7) restrict downwar I movement of the axle. Damping is by telescopic shock absorbers (20) and the axle (32), which i carried above the springs, is tubular with solid ends.

HUBS AND BRAKES

11. The hubs (Fig. 5) are secured to the axle by two nuts (22) locked by a tab washer. Each hub is fitted with two caged, taper roller journal bearings (23 & 24), the rear bearing inner race having a greater internal diameter than the front.

12. The hubs are greased from a nipple (2) situated on the back plate mounting flange, and an oil seal (9) behind the rear bearing and a leather seal (26) in conjunction with the oil catcher (25) prevents grease penetrating to the brake unit. The hub cap is retained by $\pm t$ pins (19) and the brake drum located by three counter sunk screws (15).

ELECTRICAL EQUIPMENT

13. The rearward facing lights are mounted on panels at each corner of the body. The lights consist of two combined tail and stop lamps, left and right turn indicators and a number plate lamp. A reflector is also mounted on each panel and a convoy light under the charging.

14. In addition to the rear lights, forward facing side lamps and reflecto 3 are mounted on brackets fitted to the front bottom edge of the body. The lighting circuit is illustrated in Fig. 8.

SERVICING AND REPAIR INSTRUCTIONS

15. The following notes describe the removal, dismantling and replacem nt of sub-assemblies.

BODY

16. The body may be removed from the chassis as a complete unit by us screwing the lock nuts and nuts on the ten hooks which are situated under the body floor, four along each side and two along the centre. (Fig. 1.).



DRAUGHT EYE AND OVERRIDE MECHANISM

- **17.** The draught eye (Fig. 2.) should be examined and lubricated at regular intervals as follows: Clean off old grease and examine the exposed part of the shaft for scoring, corrosion and a.
 - straightness. A damaged shaft must be renewed as detailed in (parz graph 18).
 - Apply two strokes of a grease gun to the nipple (4). b.
 - Apply a coating of grease to the exposed part of the shaft. с.

To dismantle the draught eye

- 18. To dismantle the draught eye proceed as follows:
 - a. The draught eye may be dismantled in position on the trailer, or removed to the workbench, by removing the six long bolts which run vertically through the drawbar.
 - b. In order to relieve the spring (12) pressure inside the draught eye cover (9), unscrew the two nuts (7) along the long studs evenly, and remove the cover.
 - с. Drive out the pin (13) and remove the nut (14) from the draught ϵ 'e shaft, followed by the washer (15), pad (16) and washer (17). The draught eye may t en be withdrawn from the front of the housing.
 - d. If the bushes (19 and 21) are in need of replacement, the rear bush (19) may be pressed or driven out, but before the front bush can be removed the tab on the tab washer (23) must be turned back and the cap (3) removed with the aid of a 'C' spant er, or a drift if a spanner is not available.



Fig.2. Draught eye and override mechanism

- 1. Draught eye 13. Pin
- 2. Wiper 14. Nut
- 3. Cap nut
- 15. Washer 4. Greaser 16. Pad
- 5. Bracket assembly 17. Washer
- 6. Spring washer 18.
- 7. Nut
- 8. Stud
- 9 Cover
- 21. Bush 'O' ring 22.

19.

20.

'0' ring

Reversing stop

Tab washer

Bush

- 10. Machined nut 11. Lock nut
 - 23.
- 12. Spring

To assemble the draught eye

19. Clean and examine all parts for wear and damage. Fit new 'O' rings (18 and 22) to the internal grooves in the bushes and a new felt wiper (2) to the internal groove in the c: $\mathfrak{I}(3)$. A new tab washer (23) will also be required. Assembly may then proceed as follows:-

80°S

- a. Press both bushes into the bracket assembly (5).
- b. Lay the specified grease inside the bracket assembly in the area between the bushes.
- c. Smear the draught eye with grease and insert into the bracket ssembly, taking care not to damage the wiper, 'O' rings or bushes.
- d. Slide the washer (17), pad (16) and washer (15) over the end c^{*} the shaft and butt them against the rear bush.
- e. Screw onto the rear external threads of the shaft the large nut 14). Screw on until the hole through the nut lines up with the hole in the shaft and loc x into position by driving in a new pin.
- f. Secure the bracket assembly in a vertical position with the dra ght eye pointing downwards and fully extended.
- g. Place the spring (12) concentrically over the shaft followed by the cover. Fit the two spring washers and nuts, and tighten down evenly.
- h. Apply the grease gun to the nipple (4), and fit the unit to the (rawbar with the six bolts if it has been removed.
- j. Check clearance at the machined bolt. (Refer to paragraphs 28 and 29).

BRAKE MECHANISM

20. Check the handbrake mechanism (Fig.3) periodically, as follows:-

- a. Check by operation for correct functioning. The brakes should be fully applied when the pawl (19) is at the approximate centre of the quadrant teeth (2).
 - b. Lubricate all pivot pins.
 - c. Apply a smear of grease to all exposed springs connecting link: and jaws.

To remove the handbrake assembly

21. Proceed as follows:-

- a. Remove the clevis pin securing the jaw of the spring loaded rot (27) to the brake lever (10).
- b. Remove the six nuts and bolts from the bracket (8) and lower he handbrake bracket assembly out of the chassis, taking care not to bend the spring oaded rod.

To dismantle the handbrake

- 22. If excessive play developes at the brake lever (10 and 15) pivots, dis nantle as follows:
 - a. Remove the locking plug (21) from the right hand boss on the bracket (8). Withdraw the the shaft (22) and lift out the levers complete with dust cover 24).
 - b. Examine the condition of the shaft and lever bushes (9 and 23 and replace if necessary.
 - c. Examine the quadrant (12) and pawl (19) for wear or damage.
 - d. To remove the quadrant, take off the two nuts and spring wasl ers on the outside face of the bracket, remove the quadrant and take off the two large m ts (20) and the bolts ready to fit to the new quadrant.
 - e. To remove the pawl (19) remove the split cotter pin from the pringloaded link (16) and the lock nut from the pawl pin (18), unscrew the pawl pin and remove the plain washer and pawl.

To assemble the handbrake

23. Having checked the renewed parts as necessary, the handbrake may \rightarrow e assembled:-

- a. If the pawl has been removed, replace with the plain washer ag inst the shoulder of the pawl pin, and the plain washer (17) behind the split cotter pin on the spring loaded link.
- b. If the quadrant has been replaced, fit the two bolts with heads on the handbrake stop side, secure with the large nuts (20) and fasten to the inside face of the bracket with spring washers and nuts.
- c. Assemble the handbrake lever (15), a new dust cover (24) and he brake lever (10). Place the assembly in the bracket in line with the bosses, insert the s aft (22) and secure with the locking plug (21).

To replace the handbrake assembly

24. Proceed as follows:-

- a. Secure the handbrake assembly to the chassis with the six nuts bolts and spring washers.
- b. Fit the rod (27) to the lever (10) with the pin (25), not forgett ag the double coil washer (26) between the jaw and the lever, and secure with split cotter pins.
- c. Check clearance between machined nut (11) and pressure pad (Refer to paragraphs 28 and 29).

To check brake linkage

25. Replace worn bushes in relay lever or compensating lever, worn fulcrum pins or fork ends or knuckle joint having oval pin holes. Be sure to fit a 7.93mm (5/16'') double coil washer between each fork end and knuckle joint.

26. Check that the compression of the spring (28) is correct, by measuring the distance from the fork end pin centre to the spring stop bolt (29) centre. This should be $273m_{\pm}(10.75")$.

27. If any dismantling has taken place the clearance between the machined ut and pressure pad must be checked. (Refer to paragraphs 27 and 29).

Brake adjustment

28. To adjust the brake shoes proceed as follows:-

- a. Jack up the wheel clear of the ground.
- b. With the spanner applied to the squared end of the adjuster stem o the brake back plate, turn it in a clockwise direction until the shoes are locked in the dru n.
- c. 'Click back' until the wheel begins to revolve freely.
- d. Repeat for the other wheel.

29. The clearance between the machined bolt (Fig.3(11)) and the pressure pad must then be checked. With the handbrake fully applied, use the reversing stop gauge and r ctify any discrepancy by slackening the lock nut on the machined bolt, and rotating the bolt in the appropriate direction. Hold in position with a spanner and tighten the locknut. Finally check with t le gauge. NOTE: Do not attempt to adjust the brake shoes by means of the brake lir cage.

SUSPENSION

30. Periodically examine the suspension as follows:-

a. Clean and examine the shock absorbers, shackles, aeon springs, che k straps and spring leaves.

To dismantle the suspension

31. Proceed as follows:-

- a. Place jacks under the corners of the chassis frame, slacken wheel nuts, raise trailer until wheels are clear of the ground and remove the wheels.
- b. If necessary, dismantle the hubs and brake units as described in par graph 38. (Protect the threads on the stub axles by screwing on the hub nuts.)
- c. Remove the telescopic shock absorbers (Fig.4 (20)) and axle check cables (7).
- d. Disconnect the brake linkage by removing the pin from the knuckle joint (3) and rear rod fork (2).
- e. Remove the axle 'U' bolts (30) and clamp plates (29) and, whilst supporting the weight of the axle (32) and springs (25), remove the bottom rear shackle pin rom each spring.
- f. Lower the rear ends of the springs to the ground and lift out the ax e assembly. Remove the remaining four shackle pins to free the springs and shackles.
- g. If due to damage or deterioration the rubber springs (11) has to be emoved, it must be detached from the chassis by removing the two nut washers and bo ts (10) in the spring plate (8). The rubber spring may then be separated from the plate ty removing the single central counter sunk headed bolt (9) and nyloc nut.

32. Clean and examine all parts for wear and damage. See that the rubber sp ings, the check cable dampers (6) and the rubber bonded spring bushes are in good condition, the s ring leaves are not broken or 'stepped', and all threads are undamaged. Examine also the brake li ikage mounted on the axle beam. (Refer to paragraph 25).

To replace a leaf spring

33. Support the chassis frame on the appropriate side without disturbing the road wheels and proceed as follows:-

- a. Remove lock nuts (27), nuts (28) and 'U' bolts (30). Leave clamp r ate (29) attached to the telescopic shock absorber.
- b. Withdraw the front and rear shackle pins and remove the spring.
- c. Replace in the reverse order, seeing that the head of the central bol (30) is seated in the dowel hole in the axle spring bed.

To overhaul a leaf spring

- 34. Proceed as follows:
 - a. Remove all leaf clamp nuts (23), spacers (22) and bolts (21), and the centre bolt (31).
 - b. Clean and examine each leaf for cracks or wear and smear with Graj hite grease. See that the 'silent bloc' bushes are a tight fit in the main leaf.
 - c. Reassemble with the centre bolt first, followed by the clamp bolts and spacers.

Page 8



- 12. Quadrant
- 13. Draught eye and override mechanism
- 14. Release lever 15. Hand lever

27.

28.

29.

Spring loaded rod

Spring

Spring stop



- Machined bolt 11.
- Quadrant 12.
- Draught eye and ov 13.
- Release lever 14.
- 15. Hand lever





(AL 16 November 71)

15-Okt-99 09:51 ATELCO Computer AG

To reassemble the suspension

- 35. With all parts checked and replaced where necessary, proceed to assem leas follows:
 - a. Fit the rubber spring if this has been removed, then attach both le if springs to the front mountings with shackle pins.
 - b. Position the axle beam on the springs with the dowel holes in the pring bed over the spring centre bolt heads, and secure with the 'U' bolts and clamping plates. See that the shock absorber pivots are to the rear of the axle and facing inwards, and that the 'U' bolts are finally secured with lock nuts (27).
 - c. If the rubber spring locating cups (12) have been removed from the axle, replace them. Fit the spring shackles to the chassis brackets, swing the springs u into position and secure with the shackle pins.
 - d. Having checked that the shock absorbers are in sound condition a id the pivot bushes in good order, fit them to the pivot with large plain washers either si le of each bush, and secure with a plain nut and a lock nut to each pivot pin.
 - e. Connect up the brake linkage and, if applicable, assemble the hub and brake units. (Referto paragraph 38).

NOTE: Check the brake adjustment. (Refer to paragraphs 27 and 28).

f. Fit the wheels and tighten wheel nuts in correct sequence, remove the jacks.



Fig.4. Suspension

- 1. Rear brake rod
- 2. Fork end
- 3. Knuckle joint
- 4. Check cable nut
- 5. Plain washer
- 6. Check cable damper
- 7. Check cable
- 8. Rubber spring plate
- 9. Counter sunk bolt
- 10. Spring plate bolt
- 11. Rubber spring

- 12. Rubber spring locating cup
- 13. Locating cup nut
- 14. Locating cup bolt
- 15. Shock absorber nut
- 16. Lock nut
- 17. Washer
- 18. Shock absorber pivot pin
- 19. Bush
- 20. Shock absorber
- 21. Spring clamp bolt
- 22. Spa
- 2. Spacer

24. Clamp

Nut

- 5. Road spring
- 26. Pivot pin

23.

- 27. 'U' bolt lock nut
- 28. Nut
- 29. Clamp plate pivot assembly
- 30. 'U' bolt
- 11. Road spring central bolt
- 12. Axle

- 36. When checking the tyres observe the following:
 - a. Examine the walls of the tyres for cracks and bulging.
 - b. Remove any sharp flints or other objects found embedded in the read.
 - c. Adjust tyre pressure to the recommended figure.
 - d. Ensure the valve caps are fitted.

- 25.
 - 26.

HUBS AND BRAKES

37. Periodically remove the wheels and hubs and pack the bearings with grea: : (See Servicing Schedule).

To dismantle a hub and brake unit

- 38. To dismantle a hub and brake, proceed as follows:
 - a. Jack up the appropriate side and remove the wheel.
 - b. Unscrew the three countersunk set screws (Fig.5 (15)), and remove the brake drum. (Slacken off shoes with brake adjuster (7) if necessary.)
 - c. Remove hub cap (18) which is attached to the hub by six set pins (13) and lock washers.
 - d. Knock back the tab washer (17), remove the two nuts (22) using the correct spanners and washer (16), and withdraw the hub and bearings.
 - e. Remove the baffle plate (11), oil seal (9) and seal support ring (10).
 - f. Fully slacken the brake adjuster (7), then disconnect the springs and remove the brake shoes.
 - g. Slacken the locknuts (34) either side of the long coupling nut (33), nd unscrew the coupling nut fully until the brake rod is free of the brake operating unit.
 - h. Remove the six nuts (3) washers and bolts, securing the oil catcher v ith leather oil seal, its joint washer and the brake back plate to the stub axle flange. Remove these items from the axle.
 - j. Remove the two split pins from the bisector, and extract the plunge s (29) and rollers (28).
 - k. Remove the two nuts, spring washers and retaining plates, and pull (it the operating rod
 - (32) complete with dirt excluder (1) and release piston (31).
 - 1. Detach the bisector housing and packing piece (30).
 - m. Remove the two-bolts and spring washers and detach the adjuster (7 by screwing in a clockwise direction through the body.

To assemble a hub and brake

39. Proceed as follows:-

- a. Ensure that all parts of the brake assembly are clean and free from c I and grease.
- b. Screw the adjuster (7) into the adjuster housing.
- c. Wipe the adjusting plungers (29) with an oily rag, remove all traces c? surplus oil, then insert them into the adjuster housing.
- d. Fit the adjuster into the back plate and secure with the bolts and sping washers.
- e. Fit the release piston and operating rod (32), rollers (28) and plunge s (29) to the bisector housing, first wiping all parts with a lightly oiled rag. Secure the plu: gers with split pins.
- f. Fit the bisector and packing piece (30) to the backplate.
- g. Position the dirt excluder (1) on the operating rod (32) and connect the rod to the release piston.
- h. Fit the retainer plates and secure with the nuts and spring washers, co not overtighten, the bisector must be free to move in the backplate.
- j. Replace the leather oil seal (26) and smear liberally with oil, if there is any doubt about the condition of the original one in the oil catcher (25), and assemble the oil catcher, joint washer (27) and brake backplate to axle flange.
- k. Connect up the operating rod to the brake linkage, with the brake sl bes in the 'off' position, secure the long coupling nut with the two lock nuts.
- 1. Fit seal support ring (10) against axle shoulder, and fit a new seal if . ecessary over the support ring, followed by the baffle plate (11).
- m. Assemble the bearings (24 and 23) into the hub (13), the bearing having the larger internal diameter being positioned nearest to the brake backplate, (4), pa k the hub with grease and assemble the hub to the stub axle, taking care not to damage or _isturb either oil seals.
- n. Fit the keyed washer (16) and the rear retaining nut (22), tightening the nut to eliminate all play in the hub but allowing it to rotate freely.
- o. Fit the tab washer (17) and front retaining nut (22) and tighten, using the correct spanner, bending over the washer to lock both nuts.
- p. Replace the hub cap.
- q. Fit the brake shoes and springs, ensuring that the friction linings are erviceable and free from oil or grease.
- r. Fit the brake drum and secure with the three counter-sunk screws (13).
- s. Adjust the brakes as described in paragraphs 28 and 29.

Fig.5. Hubs and brakes









• • •

SUPPORT LEGS

40. To ensure correct operation of the jacks proceed as follows:-

- a. Clean and check for freedom of operation throughout the extension range, and the brackets for security.
- b. Apply the specified lubricant to the sliding portions and to the locking pins.

ELECTRICAL EQUIPMENT

41. The 24 volt electrical system is supplied and controlled from the to ving vehicle by way of a plug at the end of a flexible cable on the trailer for socket connection to the towing vehicle.

42. To ensure serviceability of the equipment, check the following deta ls:-

- a. Connecting leads, for security of plugs and deterioration of ca le.
- b. The trailer plug for damage and security.
- c. Lights for security and cleanliness and lamps for operation; als) the light lens's and reflectors for cleanliness.
- d. Earth points for cleanliness. See that they are smeared with pe roleum jelly or the approved equivalent.

Convoy and registration plate lights (Fig.6)

43. These two lights are similar. For lamp renewal the bayonet type lam pholder is removed by unscrewing the locking ring (10) immediately behind the mounting plate. When replacing the lampholder, care must be taken to ensure correct location of the front rubber mounting (5).

Side and turn lights (Fig.7)

44. To gain access to the lamp of these lights, the lens must be unscrewed from the mounting plate. After replacing a lamp, ensure that the lens is screwed firmly into positio ...

Tail/Stop light

45. To gain access to the lamp of the tail/stop light, the lens must be un crewed from the mounting plate. This is similar to (Fig.7), except that the lamp is a double contact i: dex pin type and can be inserted in one position only. Ensure that the lens is screwed firmly into osition after lamp replacement.

Caution:

46. If the towing vehicle has a 12 volt electrical system, the 24 volt lam₁ s on the trailer must be changed to 12 volt lamps of an equivalent type and wattage. AN INDELI ILE AND LEGIBLE LABEL MUST BE FITTED TO THE TRAILER, ADJACENT TO THE F LEXIBLE CABLE, FOR SOCKET CONNECTION TO THE TOWING VEHICLE, STATING:-

12 VOLT SYSTEM

Lamps

47. The following are fitted:-

a.	Tail and Stop	28V	7/30W
b.	Side	26V	6 W
c.	Tum	24V	24 W
d.	Number Plate Convoy	26V	6 W



Fig.6. Registration plate light

- 1. Light shield
- 2. Locating peg
- 3. Backplate and bush
- 4. Lampholder
- 5. Front rubber mounting
- 6. Earthing ring
- 7. Insulating washer
- 8. Lamp holder cup
- 9. Rear rubber mou ting
- 10. Locking ring
- 11. Case
- 12. Gland nut
- 13. Ferrule



Fig.7. Sidelight

- 1. Base
- 2. Contact ferrule
- 3. Lampholder assembly
- 4. Earth ferrule
- 5. Lamp
- 6. Lens
- 7. Body
- 8. Cable gland

Page 16



Fig.8. Wiring diagram