

FINAL CHECKS AND SERVICE INFORMATION

17.1. Final Checks before taking to the Road

1.1 Before the car is used, make doubly sure that all bolts securing suspension, steering and brakes are properly tightened and that no wires or brake hoses are positioned in such a way as to foul anything that moves or gets hot in use. Particular care should be taken with wires in the vicinity of the exhaust manifold.

1.2 Wheel nuts should not be overtightened and we suggest they be torqued to 40-45 lb ft with the car on the ground.

Tyre pressures should be as follows:

	PSI
	lb-ft
front	18 - 20
rear	18 - 20

1.3 Engine, gearbox and rear axle/differential oil levels should be checked and/or filled as follows:

Engine	SAE 15W/40 (UK climate)	3.3 litres
Gearbox	Gear Oil GP 80 (5 Speed)	1.9 litres ?
	(4 Speed)	0.9 litres
Differential	Gear Oil EP-90 SAE 15W/40	0.9 litres
Axle (Marina/Ital)	Gear Oil EP 90	0.7 litres
Brake Fluid	SA3N 1703 DOT 3	

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1.4 The spring damper units fitted to the car are adjustable for stiffness which enables the owner to tailor the ride/handling compromise to his own needs. There are twelve settings available which can be felt as clicks when the adjusters are turned.

As an initial setting, we suggest that they be adjusted to the fully soft position anticlockwise.

17.2 Pedal Adjustment Facility - 1988 De Dion Only

2.1 De Dion cars manufactured from March onwards are fitted with a revised pedal box assembly which incorporates sufficient movement to cater for most sizes and shapes of drivers. This is not intended to give instant adjustment but provides an opportunity for the owner to tailor an optimum driving position.

The range of movement is limited and adjustment towards the extremes of travel will lead to the pedals lifting to a somewhat high position, but we believe that in combination with the adjustable seat, the majority of drivers will find a suitable setting.

2.2 When a kit leaves the factory the pedals are set to give the maximum leg room. Although it may appear possible to increase this further, any attempt to move the pedals forward will restrict pedal travel, interfering with the correct operation of the master cylinder and preventing the dual circuit

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fail safe facility from operating thus rendering your vehicle both illegal and potentially dangerous.

2.3 In order to move the pedals closer to the driver the following procedure should be followed:

Remove the 12 finger tight screws in the lid of the pedal box and lift off the lid.

2.4 Install the clutch cable adjusting at the bellhousing in order to bring it level with the brake pedal as in 10.3.4. and also the throttle cable.

2.5 Position the driving seat to suit your reach to the steering wheel and gearlever and assess whether and how far the pedals need to be brought nearer to you, remembering that no more legroom is available

2.6 Firstly adjust the brake pedal, and this can be achieved in two ways.

- a) By increasing the effective length of the master cylinder pushrod which has an adjustable shackle.
- b) By moving the fulcrum position from the front hole to the rear hole.

Note that if the movement required is more than 2" then the adjustment available on the pushrod will not be sufficient.

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2.7 The clutch pedal can now be levelled up to the brake pedal by adjustment at the bellhousing.

2.8 Finally the throttle pedal pivots around its mounting bolt. This bolt is screwed into the front mounting bush of the three provided in the chassis.

In order to level the throttle with the brake and clutch it may be necessary to move the bolt to one of the alternative mounting points. The threaded portion of the throttle cable can then be adjusted to take up any lost movement in the pedal.

2.9 The pedal box lid can now be replaced and the 12 fixing screws properly tightened.

17.3. Caterham Cars Inspection Service

When your Seven is finally completed and ready for the road we strongly recommend that you make use of our Post Build Check facility carried out at Crayford. The Seven even in its lowest state of tune possesses acceleration and cornering abilities far in excess of most road going cars and it is therefore extremely important that it is assembled and set up correctly.

We are also keen to ensure that our customers do not suffer disappointment as a result of premature component failure due to incorrect assembly or sub standard performance.

The Post Build Check therefore includes:

a) Checking assembly of all suspension and steering parts

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- b) Checking both braking systems for leaks or faulty assembly
- c) Checking all electrical installations and circuits
- d) Checking installation and lubrication of engine gearbox and rear axle
- e) Checking body and weather equipment
- f) Road test by Caterham's Development engineers

Any defects found can be either rectified immediately, or brought to the customers attention for future correction.

The basic Post Build Check costs £35.00 + VAT (Jan 1988)

Ring MIKE DIXON on 0322 59125 to book your car in for inspection allowing at least two weeks notice. We believe very strongly in the integrity of our product and our engineers will be happy to sort out any final problems you may encounter, but if you want us to carry out any additional work please let us know well in advance so that sufficient time can be made available.

If an inspection at Caterham is not possible you will find a copy of the factory post build sheet at the rear of this section.

17.4 Running In Period

If your car has been built using a Caterham supplied engine and gearbox we advise the following running in procedure which has recently been revised. The oil companies have substantially reduced the lead content in petrol, substituting long chain polymers.

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In addition to increasing knock resistance, these polymers act as wear inhibitors thus preventing the engine from bedding in as quickly.

Accordingly the running in period has been condensed as follows:

0-100 miles	3500 Max revs	No labouring
100-300 miles	4000 Max revs	No labouring
300-500 miles	4500 Max revs	No labouring
500-1000 miles	Build up revs steadily with occasional use of 6000 rev maximum but continue to avoid labouring.	

At 500 miles (800 kilometres) the initial service should be carried out and this is detailed at the rear of this section.

17.5 Service and Maintenance

Your Seven can be serviced and maintained at the factory or alternatively by yourself. The factory service schedule is included for reference at the rear of this section.

There is also a wiring diagram which should be referred to in the event of any electrical problems.

UNDERBONNET SERVICE LOCATIONS

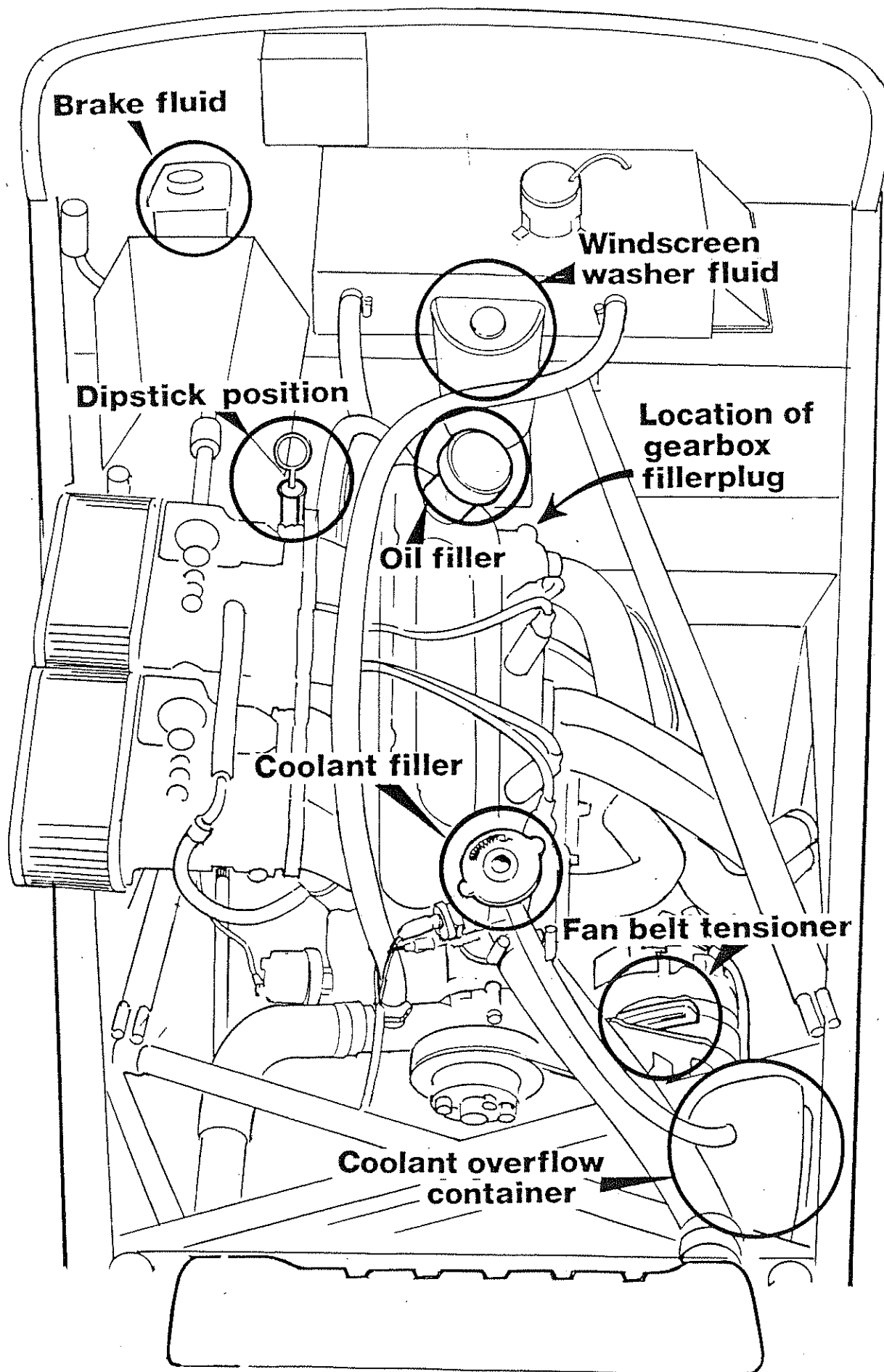


Fig. 17.5

DASHBOARD LAYOUT - RIGHT HAND DRIVE CARS

(N.B. LHD is mirror image)

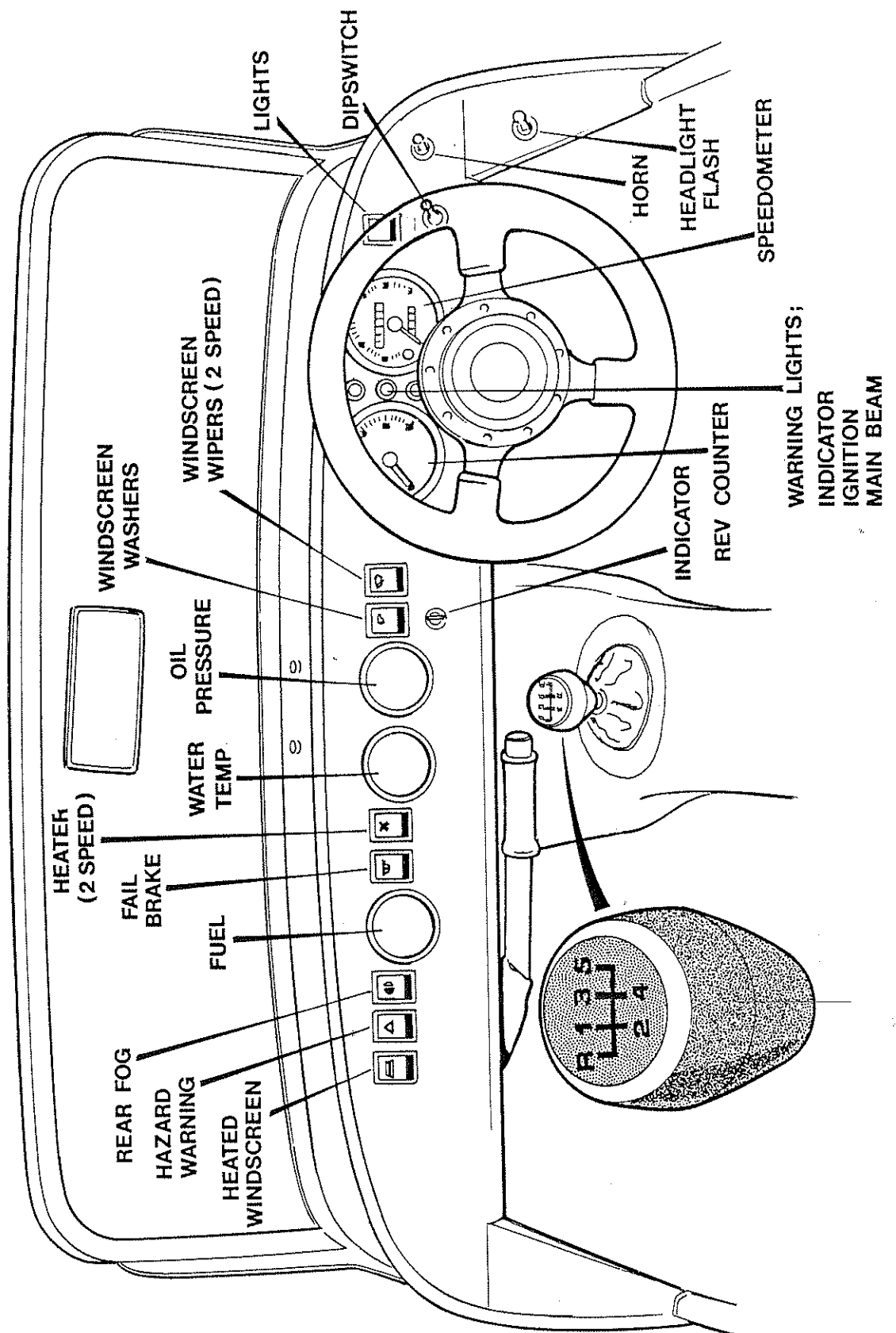


Fig. 17.6

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CATERHAM SUPER SEVEN MODELS

POST BUILD CHECK

LUBRICATION

- 1) Check Engine, Gearbox and Rear Axle oil levels, check for leaks.

ENGINE

- 2) Check hose connections and radiator level.
- 3) Check security of engine mountings and exhaust system.

CLUTCH

- 4) Check correct adjustment and operation of clutch.

BRAKES

- 5) Check braking system for operation and correct adjustment.
- 6) Check brake hydraulic lines for security and leaks.
- 7) Check brake fluid reservoir level.

STEERING AND SUSPENSION

- 8) Check all front and rear mounting bolts for tightness.
- 9) Check tyre pressures and tightness of wheel nuts.
- 10) Check security of all steering connections.
- 11) Check that steering rack mountings are secure.
- 12) Check front wheel alignment.

ELECTRICAL SYSTEM

- 13) Check headlamp adjustment.
- 14) Check operation of all circuits.
- 15) Check that battery and terminals are secure.

BODY

- 16) Check weather equipment.
- 17) Check security of front and rear wings.

GENERAL

- 18) Road test and report on any defects found.

CATERHAM SUPER SEVEN MODELS

490 miles, 28.8.89 to 9.9.90

Advised 11/1/81 ✓

- ENGINE

- CLUTCH

- ## BRAKES

- ## STEERING AND SUSPENSION

- ## ELECTRICAL SYSTEM

- BODY

- 23) Check body condition overall and weather equipment.
- 24) Check security of front wing mounting bolts.
- 25) Road test.

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SERVICE SCHEDULES FOR CATERHAM SUPER SEVEN MODELS

A EVERY 3000 MILES (5000 KM) or 3 MONTHS
B EVERY 6000 MILES (10000 KM) or 6 MONTHS
C EVERY 12000 MILES (20000 KM) or 12 MONTHS

A B C

OPERATION X

X X X Check condition and security of seat belts
X X X Check operation of lamps, horn, indicators and screen washers
X X X Check condition of screen wipers, renew as necessary
X X X Check security and operation of Handbrake lever
X X X Check/Top up Battery electrolyte (if applicable)
X X X Clean and grease Battery connections
X X X Check/Top up Windscreen Washer Reservoir
X X X Check/Top up Cooling system
X X X Check all water hoses for security and condition
X X X Check/Top up Brake fluid reservoir
X Change Brake Fluid
X X X Check Alternator drive belt, adjust or renew
X X Check security/condition of ancillaries and exhaust system
X X Check/Adjust Valve clearances
X X Adjust Timing chain tension (Twin Cam only)
X Clean/Adjust Spark Plugs
X Renew Spark Plugs
X Renew Contact Breakers, Lubricate Cam and Weights
X Adjust/Renew Contact Breakers, Lubricate Cam and Weights
X Renew Paper Air Cleaner Element (Clean Gauze type)
X Clean out Fuel Pump and filters
X Clean/Fit new Crankcase ventilation valve (1600 GT only)
X X Check/Adjust Ignition Timing/Distributor advance mechanism
X X X Check Carburettor security, balance and slow running, leakage
X X X Drain Engine Oil and Refill with new Oil
X X X Fit new Engine Oil Filter, check for leaks
X X X Check and top up Gearbox and Rear Axle/Differential Oil
X X X Check condition of Tyres/Adjust Tyre pressures
X X Inspect Brake Pads for wear and condition of Discs
X Check/Adjust Front Wheel Bearing End-Float
X Re-Pack Front Wheel Bearings with Grease and adjust End-Float
X X Remove Brake Drums, Inspect Shoes/Drums for wear, wash out dust
X X X Adjust rear brakes (if appropriate), Lubricate/Adjust Handbrake
X X Check condition of Brake Hoses, pipes and unions
X X X Check and Adjust Clutch Mechanism
X X Check condition of Steering joints/gaiters lubricate Trunnions
X Lubricate Steering Rack and Pinion
X X X Check Tightness of Road Wheels
X Check Security and Tightness of Suspension fixings
X X X Check condition of rear "A" Frame Bushes
X Grease Propeller Shaft (if appropriate)
X X Check/Adjust Headlamp Alignment
X X Check/Adjust Front Wheel Alignment
X X X Carry out Road Test, Report on Defects/Additional Work needed
X X X Check Cleanliness of Controls, Steering wheel, etc

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LAYOUT OF FUSE BOX

Brake Lights 10	Heater 10	Wipers 15	Radiator Fan 15
Heated Screen 10	Horn 20	Indicator Hazards 10	Dim/Dip 15
Dip Beam 15	Main Beam 15	LH Side Lights 5	RH Side Lights & Inst. 7.5
HORN		HAZARD	
FLASHER UNIT		DIM/ DIP	

WIRING DIAGRAM COLOUR CODE

N	Brown	G	Green
B	Black	LG	Light Green
U	Blue	K	Pink
R	Red	W	White
O	Orange	Y	Yellow
P	Purple	S	Slate

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KEY TO WIRING DIAGRAM

1	LH Rear Indicator	30	Ignition Warning Light
2	LH Rear Light	31	Indicator Light
3	LH Rear Brake Light	32	Speedometer
4	Reversing Light	33	Lights Switch
5	Fog Light	34	Dip Switch
6	Number Plate Light	35	Flash Switch
7	RH Rear Brake Light	36	Horn
8	RH Rear Light	37	Heated Front Screen
9	RH Rear Indicator	38	Indicator Switch
10	Dim Dip Control	39	Coil
11	Heated Screen Switch	40	Distributor
12	Hazard Switch	41	Ignition Amplifier
13	Rear Fog Switch	42	Ignition Switch
14	Fuel Guage	43	(a) Electric Horns
15	Fuel Level Sender Unit		(b) Air Horns (Option)
16	Brake Test Switch	44	LH Front Indicator
17	Brake Fail Switch	45	LH Side Light
18	Heater Switch	46	LH Dipped Beam
19	Heater 2 Speed	47	LH Main Beam
	GY Slow	48	RH Side Light
	GS Fast	49	RH Dipped Beam
20	Water Temperature Guage	50	RH Main Beam
21	Water Temperature Sensor	51	LH RH Front Indicator
22	Oil Pressure Guage	52	Radiator Fan
23	Oil Pressure Sensor	53	Radiator Fan Switch
24	Washer Switch	54	Alternator
25	Washer Motor	55	Battery
26	Wiper Switch	56	Starter Solenoid
27	Wiper Motor	57	Starter Motor
28	Tachometer		
29	Main Beam Light		