



Vehicles

Owner's Handbook

Manual del Proprietario

Manuel du Proprietaire

Betriebsanleitung



TXII

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Vehicles

Owner's Handbook
Right hand drive diesel models



At the time this publication went to print, the illustrations and information provided were representative of manufacture. While retaining the basic features of the models described in this publication, the manufacturer reserves the right to make alterations to units, parts and accessories considered convenient for improvement or any other reason, without necessarily updating it.

This handbook is not an infallible guide to the actual specification of your vehicle.

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Tel: 024 7657 2000 Fax: 024 7657 2001 <http://www.lti.co.uk>

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This handbook describes the instruments, switches, controls and equipment fitted to your new vehicle and the way in which they are designed to operate. Because this handbook covers all right hand drive diesel models, some items covered may not apply to your particular vehicle. Recognised London Taxis International Dealers have information about the latest specification of the various models available.

Please read through this booklet before operating your vehicle as it also includes information essential to maintain the vehicle's safety, reliability and economy. Take particular note of the General Precautions on page 4. Retain the booklet with the vehicle so that it is available for reference when required.

Care and regular maintenance will prolong the life of the vehicle. We strongly recommend that the maintenance operations and replacements scheduled at regular intervals and shown in detail in this book are never overlooked and are carried out by a Recognised Dealer.

The back sections of this book contain details of the vehicle and parts warranties, and a section to record the maintenance services (pages i to xii).



WARE 270B

London Taxis International reserve the right to change their servicing recommendations in the light of operating experience. Having this work performed by a Recognised Dealer will ensure that any work performed will be in line with the latest information issued by the manufacturer.

Certain notes in the text are highlighted as follows:

WARNING: *This information or procedure should be carefully followed to avoid the possibility of personal injury or damage.*

CAUTION: *This information or procedure should be carefully noted to avoid damage to components.*

Note: *This information makes the job easier or provides added information.*

GENERAL INFORMATION AND PRECAUTIONS

RADIO AND TELECOMMUNICATIONS EQUIPMENT

Direct wiring from the battery is provided to assist the fitting of radio telecommunication equipment. Two connectors, each with purple (feed) and black (earth) wires, emerge from the wiring loom inside the driver's compartment immediately behind the fascia fuse box cover. 12 volt, 10 Amp power outlets are provided in both front and rear compartments for use with portable equipment.

ALWAYS ENSURE RADIO TELEPHONE COMMUNICATIONS EQUIPMENT IS FITTED BY COMPETENT PERSONNEL AND DRAW THEIR ATTENTION TO THIS FACILITY BUILT INTO YOUR VEHICLE

TAXIMETER

You should be aware that defects which arise in the operation of the taximeter and the related vehicle electrical and electronic systems may not be covered by warranty.

VEHICLE ELECTRICAL SYSTEMS

The electrical systems fitted to your vehicle incorporates equipment and electronic devices which are adequately protected by fuses and other forms of electrical protection to minimise any risk of overheating or damage to components of the vehicle. To prevent the risk of fire or noxious fumes resulting from incorrect electrical modifications or the fitting of additional

equipment, modifications or additions should only be made by a competent auto electrician, so that vehicle wiring is not overloaded and any additional equipment is positioned with adequate wiring and fuses.

Always fit fuses of the capacity indicated on the label fitted to the fuse box and electrical relay access cover. Noxious fumes from overheating electrical components can be dangerous when inhaled. Never continue to operate a vehicle which is suspected of having an electrical failure.

OILS, FLUIDS AND SOLVENTS

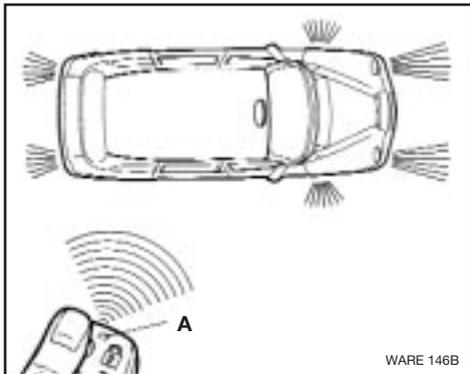
Prolonged and repeated contact with used engine oils may cause serious skin disorders including dermatitis and cancer. Excessive contact with used oils should be avoided - always use barrier cream and wash thoroughly after contact.

Many liquids and other substances used in motor vehicles are poisonous and should under no circumstances be consumed, or allowed to come into contact with open wounds. These substances, among others, include anti-freeze, brake fluid, fuel, windscreen washer additives, vehicle cleaning materials, all lubricants and adhesives. Keep all such substances out of the reach of children.

Always dispose of used oils and solvents etc. at an approved Public Waste Disposal facility. Never pour such material into the public drainage system or allow them to seep into the soil.

SERVICE INTERVALS

Your vehicle is designed to operate on a 10,000 mile service interval. The vehicle electronics read inputs from a number of areas. This calculates if the duty cycle is intense enough to require service before the 10,000 mile interval. (see page 52 for greater detail)



hazard warning lights will flash and an alarm will sound at full power for 30 seconds and then stop, re-arming itself against any further intrusion. However, the engine immobiliser will continue to prevent the vehicle from being driven away.

How to turn off ultrasonic detection

If required, the ultrasonic sensors may be temporarily switched off - press lock button 4 times within 30 seconds, they will be re-enabled next time alarm is set.

Security systems.

The named Passive Anti Theft System (PATS) fitted to the vehicle are designed to minimise the risk of unauthorised operation without using a correctly coded remote key or ignition key. On all models the remote key operates the central door locking system. Each ignition key contains a transponder which the security system recognises.

An alarm upgrade system, fitted to some models, provides perimeter protection of the vehicle by switches covering the doors, bonnet and boot, and interior ultrasonic detection of movement in the driver's compartment. When this system is armed, if someone breaks into the vehicle, opens the bonnet, boot or a door, the

Remote key fobs

The battery operated, remote key fob emits a coded radio signal which operates the security and locking system when the key buttons are pressed while adjacent to the vehicle. Whilst the key buttons are pressed a small light (A) in the key will illuminate to confirm the remote key is operating.

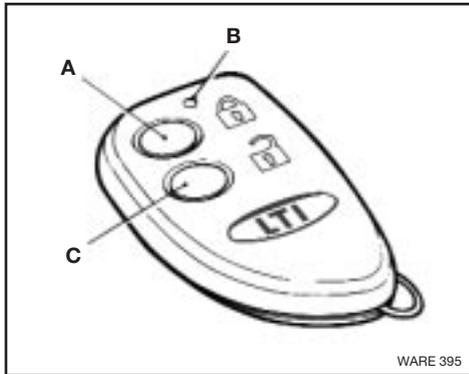
Note: Avoid inadvertent and repeated pressing of the remote key buttons, as ultimately this could stop the security system responding without being reprogrammed.

Keep remote keys clean and dry (shake off any water which does get onto a key before operating it), and never expose the keys to a temperature exceeding 60°C (140°F).

If the battery in the remote key fob becomes discharged the small light (A) will flash when the key buttons are pressed. When this happens, replace the battery in the remote key (see page 7) before the battery becomes fully discharged.

Remote key replacement

A maximum of four remote keys can be programmed to operate the vehicle security system. When a new or replacement remote key is required it will be necessary for your dealer to reprogramme all the remote keys at the same time.



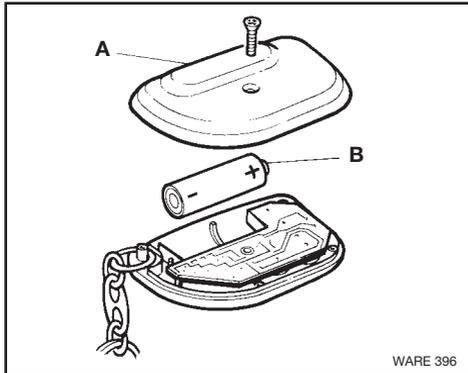
Arming and disarming the system

To lock the vehicle and arm the security system, close the windows, vacate the vehicle and ensure the doors, bonnet and boot lid are fully closed before pressing the remote key button **(A)** while adjacent to the vehicle. The light **(B)** in the key will illuminate to confirm the key is operating.

The hazard lights will flash once and any door operated interior lights will go out.

If any door or the boot is open, hazard lights will flash 5 times and the central door locking will not operate.

To unlock the vehicle press the button **(C)** on the remote key. The hazard lights will flash twice, the doors will unlock and the interior lights will come on.



Remote key batteries

Replace 23A 12V battery by removing the screw in the back cover (**A**). Remove the battery (**B**) from the terminals. Insert the new battery ensuring the “+” positive marking is as shown. Screw the cover back on tightly. Always use an LTI specified battery.

CAUTION: Carefully dispose of the old battery. Battery may explode if recharged, incinerated or short circuited.

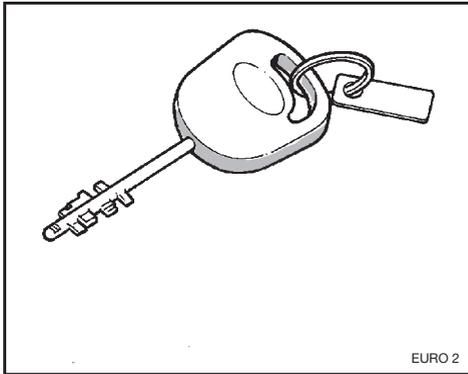
VEHICLE LOCKING & SECURITY

Security system fault diagnosis

The security system installed in your vehicle should give satisfactory service providing the key fobs and ignition keys are treated with reasonable care.

The following diagnosis chart may assist the resolution of any unusual events which may occur when using the system. Any problems with the system which cannot be overcome by following the procedures shown should be referred to your Dealer for attention at the earliest possible opportunity.

Symptom	Check	Remedy
Remote key fails to lock/unlock the vehicle doors	Remote key may be wet	Shake the remote key dry and re-try
	Possible interference from high powered local radio equipment	Press the remote key a few times until the system activates
	Check function of remote key (see page 5)	If the battery is discharged replace the battery in the remote key. If still inoperative, try another remote key.
	Use a multimeter to check the vehicle battery is not below 9 volts	Charge/replace the vehicle battery
	Check vehicle ignition is switched off	Turn off the vehicle ignition
5 Flashes on LED	Check all doors/boot and bonnet open	Close the opening
Vehicle will not start	Inertia switch has tripped	Press top of it
	Check above two items, if vehicle still fails to start	Check PATS LED is not flashing rapidly Use another key If still fails to start contact Dealer or recovery organisation
Alarm upgrade (where fitted) activates with no apparent cause	Check all doors, bonnet, boot, centre partition, windows (and sunroof) are fully closed	Close the opening and re-arm the system
	Check for moving objects in vehicle, air fresheners etc. hanging from mirror	Remove item and re-arm the system
	People, pets etc. in vehicle	Use the option to turn off the ultrasonic detection system while vehicle is occupied see page 5



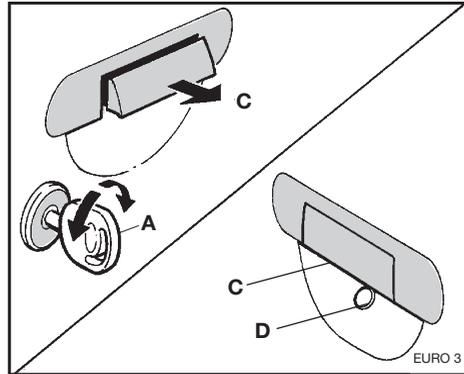
Vehicle keys

The vehicle is supplied with two keys. Each key operates the ignition/starter switch and steering lock, driver's door lock and luggage door lock, the boot lid lock and the fuel filler cap lock. Each key contains a transponder which the security system recognises. Your Main Dealer can provide and programme more keys to your vehicle as required.

Note: When taking delivery, make a record of the security number on the tab attached to the Keys. This information is required should you need to replace this key if it becomes lost or damaged in service.

Important: When starting the engine do not use the key with other transponder keys in close proximity, even the spare key or transponder keys from other vehicles.

Do not use the key with the key ring resting on the key grip.

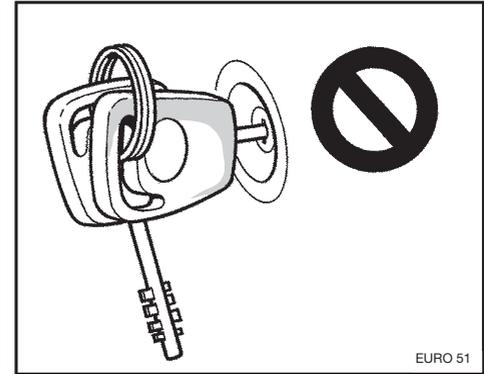


Central locking system

The remote key is used to operate the central locking system. It will lock and unlock all four doors. However, if the remote key is inoperative or lost, the ignition key may be used in either front door to unlock that door.

Note: Unlocking the vehicle doors with the ignition key will not unlock the rest of the vehicle. Neither front door lock is electrically linked to the central locking system. When the vehicle has been entered the rear doors may be unlocked using the door mounted switch shown overleaf. Only the remote key carries out the central door locking function.

When the doors are unlocked by using the remote key, both front and rear doors are opened by lifting the outer door handles (C). Small indicator lights (D) behind the rear door handles illuminate when the taximeter is in the 'for hire' mode and the vehicle is travelling below walking pace or stationary.



Important Note: Locking the vehicle doors with the ignition key will not arm the security system.

However, the engine immobiliser will automatically arm when the vehicle key is removed from the ignition/starter switch and steering lock.

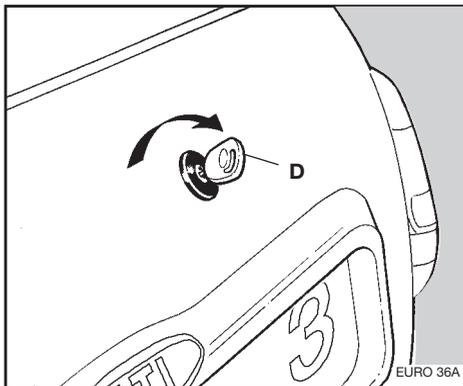
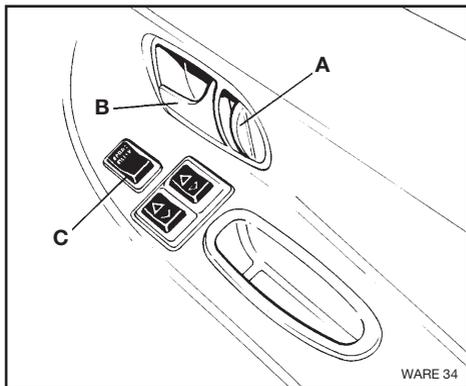
Where an LTI alarm upgrade system is fitted, and the security system was armed before leaving the vehicle, the alarm will sound when the vehicle doors are opened with an ignition key.

Security feature 1

If the vehicle has been locked by use of the remote key, using the ignition key in any front door will unlock that door only.

Security feature 2

When leaving the driver's compartment to assist a passenger with the swivel seat and additional step or wheelchair installation use the ignition key to lock the driver's door.



Door locks

When the remote key is operated, or the door key is turned, the interior locking catch (A) on the front doors will move back to the unlocked (catch out and orange marker showing) or locked (catch in) position. When the door locking catch is in the unlocked position, pulling out the interior door release (B) will open the door.

The interior locking catch (A) on each of the front doors will lock or unlock that door only. Use this facility to lock front doors individually to suit your own operating requirements. The interior locking catch on the rear doors will unlock (But not lock) the door on which the catch is operated.

Driver's security locking switch

For added driver security, a switch (C) in the driver's armrest allows the driver to lock or unlock doors from within the vehicle when operated in the following way:

1. A single short press and release of the switch (C) will lock the rear doors.
2. Pressing and holding the switch down will lock the rear doors immediately and within two seconds will lock the front doors so that all four are locked.

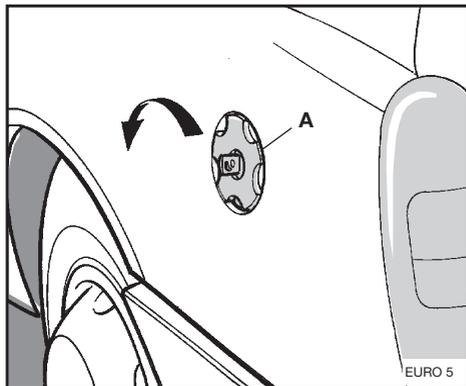
WARNING: Whenever the central door locking system is used it will override this security locking switch, which must then be reset as required following the instruction above.

Boot lid lock

For security reasons the boot lid lock is not operated as part of the central locking system, so that when closed the boot is always locked and can only be opened with the ignition key. Turn the key clockwise in the lock (D) to release the lock.

CAUTION: The boot lid should always be closed when the vehicle is operated to prevent exhaust fumes being drawn into the vehicle. The boot lid is not designed to carry loads when fully open or to support loads when partially open.

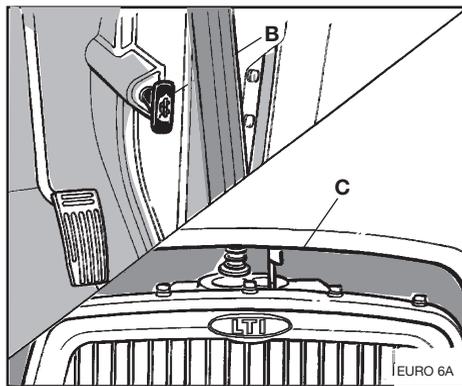
CAUTION: Never leave children unattended in the driver's compartment as they could lock the vehicle, and if the ignition/starter key is not available it would then be difficult to release them from the vehicle



Fuel tank filler cap

The fuel filler cap (A) is locked with the ignition key. Turn the key anticlockwise to release the fuel cap. After filling the fuel tank, replace the cap and turn the key clockwise until it is fully engaged before removing the key. Always use the type of filler cap specified for your vehicle.

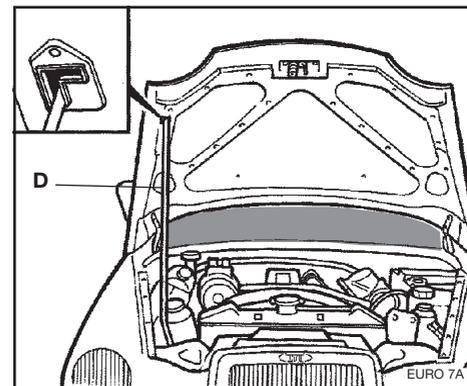
CAUTION: Cold fuel from an underground storage tank will expand when in the vehicle. Do not attempt to fill the fuel tank to the brim of the filler neck, as this could lead to fuel loss as the fuel expands.



Bonnet

The bonnet lock release is located adjacent to the side trim of the driver's compartment. Pull the handle (B) to release the bonnet which will then spring up onto its safety catch. Push in the safety catch lever (C) located below the centre of the front edge of the bonnet to release the catch and then raise the bonnet.

WARNING: Particular care must be taken to ensure no loose clothing (a tie, etc.) can get caught up in any rotating parts while the bonnet is open.



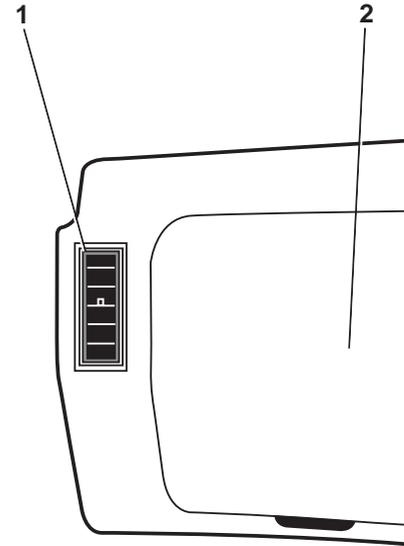
Bonnet support

Secure the bonnet in its open position by unclipping the bonnet support stay (D) and inserting it in the receptacle on the underside of the bonnet.

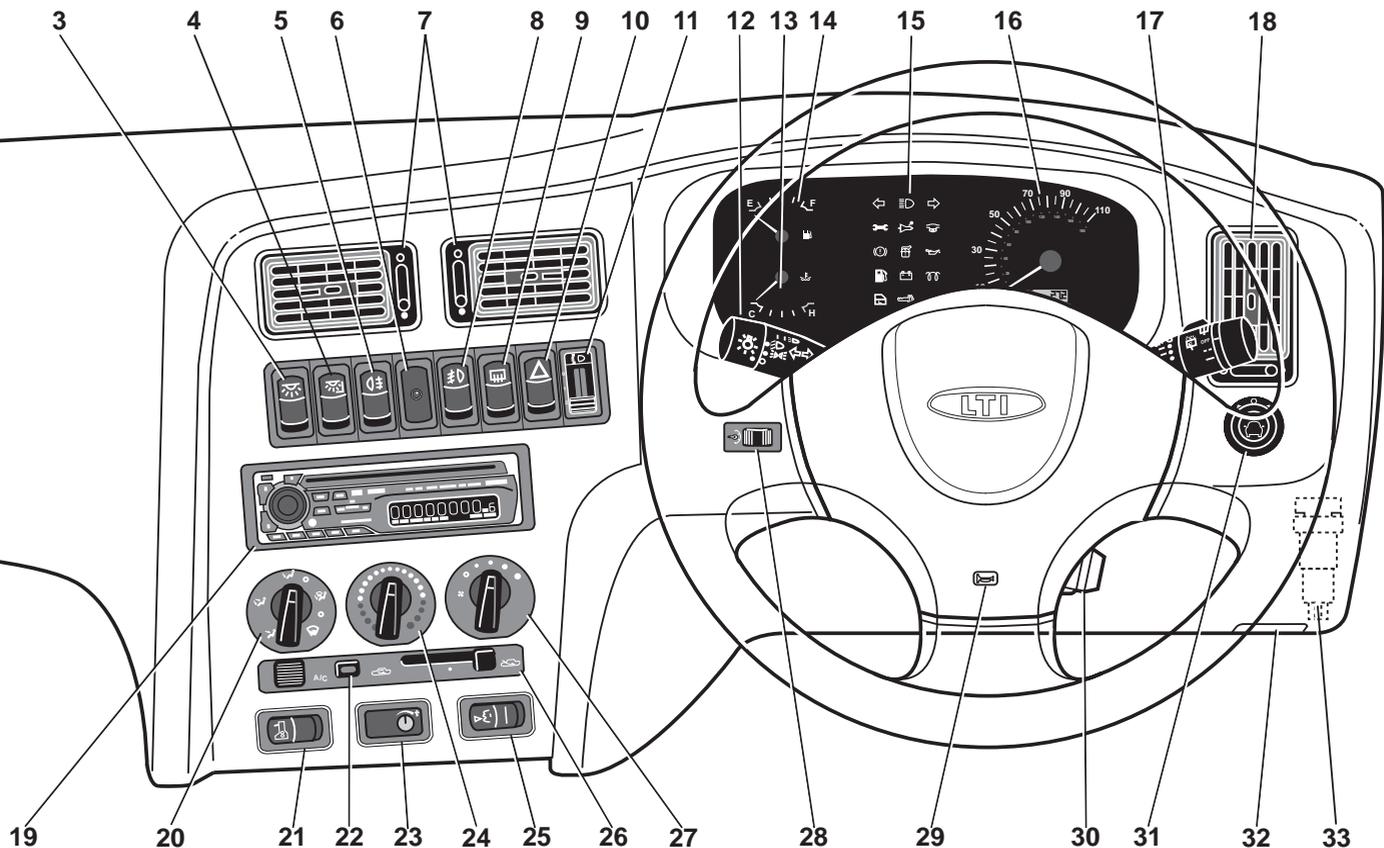
When closing the bonnet, release the bonnet support and replace it in its securing clip, then close the bonnet by allowing it to slam lock in place. Check the bonnet is fully locked in position before driving the vehicle.

DRIVER'S COMPARTMENT - INSTRUMENTS AND CONTROLS

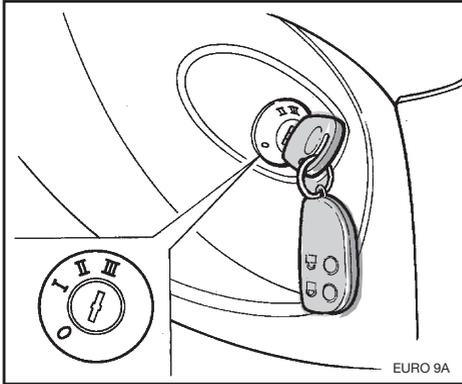
1. Facia air vent
2. Fuse box cover
3. Rear compartment illumination
4. Front compartment illumination
5. Rear fog lights
6. PATS LED
7. Facia air vents
8. Front fog lights (where fitted)
9. Heated rear screen
10. Hazard warning switch
11. Headlamp beam level control
12. Lights and indicator column switch
13. Temperature gauge
14. Fuel gauge
15. Warning lights
16. Speedometer
17. Wipers and washer column switch
18. Facia vent
19. Radio/CD Player Audio System
20. Heater air distribution control
21. Overdrive lock switch
22. Air conditioning switch (where fitted)
23. Intercom volume control
24. Heater temperature control
25. Communication (intercom) switch
26. Air recirculation lever
27. Heater blower speed control
28. Panel illumination rheostat
29. Horn push
30. Steering lock and starter switch
31. Exterior mirror control switch
32. Facia light
33. Fuel cut off switch



DRIVER'S COMPARTMENT - INSTRUMENTS AND CONTROLS



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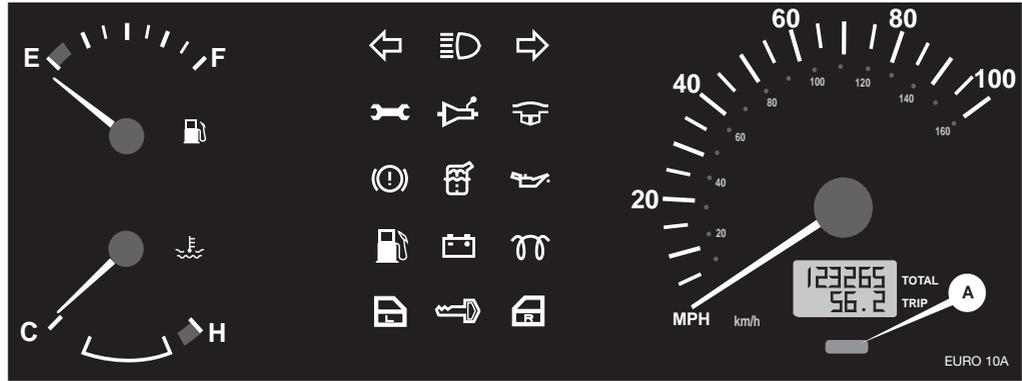


STEERING LOCK, IGNITION AND STARTER SWITCH

The starter switch has four positions:

- Off - the key may only be inserted or withdrawn in the 'O' position. Withdrawal of the key will cause the steering to lock when it is turned.
- I Disengages the steering lock and allows the following auxiliary equipment to be used:

Radio/cassette audio system and electric aerial (where fitted)
 Front and rear electric windows
 Front wipers and washers
 Rear wiper and washer
 Front heater blower
 Intercom system



- II Switches on the complete electrical system and energises engine glow plugs as required.
- III Engages starter motor (reached through spring resistance with self return to position II when released).

WARNING: The steering lock must be disengaged before releasing the handbrake and manoeuvring the vehicle without using the engine. Never push the vehicle without a qualified driver in position and with the steering lock disengaged. Remember that brake servo assistance is not available unless the engine is running. Free wheeling is not recommended.

INSTRUMENTS

Speedometer, odometer and trip meter

The speedometer indicates the vehicle speed in miles or kilometres per hour. The odometer indicates the total distance the vehicle has travelled.

The trip meter records the distance of an individual journey. Before each journey for which a record is required, push and hold button (A) until the trip has zeroed.

Should the odometer or trip meter display any information other than mileage, an instrument pack fault is indicated. Take your vehicle to an authorised LTI dealer so that the fault can be diagnosed.

DRIVER'S COMPARTMENT - INSTRUMENTS AND CONTROLS

Fuel Gauge

With the ignition switch on, the gauge indicates the approximate amount of fuel in the tank. 'E' indicates empty, 'F' indicates full.

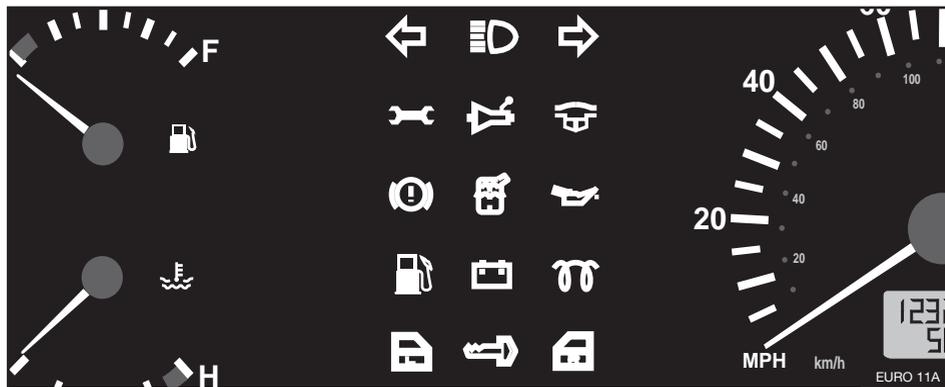
CAUTION: To avoid the need to 'bleed' air from the fuel system, always avoid any possibility of allowing the fuel tank to run dry. If the tank should run dry, the fuel system must be primed to exclude air (page 60) before attempting to restart the engine.

Temperature gauge

With the ignition switch on, the gauge indicates the temperature of the coolant in the engine. 'C' indicates cold, 'H' indicates hot. In normal operating conditions, the temperature gauge needle will take up a position in the middle sector of the gauge.

WARNING: Should the indicator remain in the red 'H' sector when driving, stop the vehicle as soon as safely possible so that the cause may be investigated at once to prevent damage to the engine. See the section "In case of emergency" for the immediate action required.

Never remove the cooling system reservoir filler or radiator caps while the engine is hot since there is a danger of being scalded by coolant which may spurt out from the filler.



INSTRUMENT PANEL WARNING LIGHTS

Warning light check

Some of the more important warning lights illuminate as a bulb check every time the ignition switch is turned to position II and before the engine is started. These warning lights include:

- Electrical charge (red)
- Brake system (red)
- Oil pressure (red)
- Motion locks system (green)
- Service interval control light (red)

WARNING: If the glow plug indicator illuminates or flashes when driving, immediately reduce the vehicle speed. If it continues to flash, avoid heavy acceleration or deceleration. The engine will continue to operate but at reduced power. Have the vehicle checked out by an LTI Dealer immediately.

The green motion locks system light will only come on with the footbrake off.

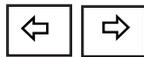
The glow plug warning light will extinguish within a few seconds when the system is operating correctly and the engine may be started. The electrical charge and oil pressure lights will extinguish when the engine is started if these systems are operating satisfactorily. When the engine is running, the brake warning light will extinguish when the handbrake is released provided the braking system is operating satisfactorily.

WARNING: If any indicator light fails to come on, it may indicate an inoperative warning light or an open circuit in the electrical system. The condition should be investigated and rectified promptly.

DRIVER'S COMPARTMENT - INSTRUMENTS AND CONTROLS

	Left hand and hazard indicator		High beam indicator		Right hand and hazard indicator
	Service interval control light		Transmission system light (unused)		Fuel filter attention (unused)
	Braking system warning		Washer bottle low level		Oil pressure low warning
	Low fuel level warning light		Electrical system charge warning		Engine glow plugs energised
	Left hand door open		Rear door motion locks unlocked		Right hand door open

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Direction indicators.

Either the left hand or right hand warning lamp will flash

green in time with the indicator lamps in the direction determined by the direction indicator switch. Both lights will flash together when the hazard warning switch is on.

CAUTION: *If the warning light flashes incorrectly this indicates that a bulb in the indicator circuit (front, side repeater or rear) may have failed and should be replaced at the earliest opportunity.*



High beam indicator

This blue light comes on when the headlamp high beam is on, and goes out when low beam is selected.



Service interval control light

Illuminates if the vehicle electronics calculates that the duty cycle is intense enough to require service before the 10,000 mile interval. Because of the way the software functions, it may illuminate soon after a routine service has been carried out. If you need to reset the control light yourself by way of exception, proceed as follows: switch the ignition on (position II) without starting the engine. Fully depress the accelerator and the brake pedal simultaneously for at least 15 seconds until the light flashes. Turn the ignition off.

WARNING: *If the service interval control light continues to flash and the engine will not start a major engine management electronic fault is indicated. Seek dealer or roadside assistance immediately.*



Braking system indicator

This light glows red with the ignition on and the handbrake applied, and normally goes out when the handbrake is released. If the light glows at any other time with the handbrake released, it indicates a potential condition with the braking system which requires immediate investigation before driving, or after safely stopping the vehicle. Firstly check the brake fluid level has not fallen appreciably, indicating a leak in the brake hydraulic system. If the level is incorrect, the source of the leak must be corrected immediately by a competent technician before the vehicle is operated further.

DRIVER'S COMPARTMENT - INSTRUMENTS AND CONTROLS

If the brake fluid level and pedal effort are correct, with the handbrake off, the light will come on when the brake pedal is pressed to indicate the front brake pads are worn and should be replaced as soon as possible.

CAUTION: *Brake servo assistance is provided by a vacuum pump driven by the front end auxiliary drive. Should an auxiliary drive belt fail, the battery charge indicator light will illuminate. When residual brake vacuum is exhausted, brake servo assistance will fail. Therefore you must stop the vehicle as soon as the battery charge indicator light illuminates and seek assistance. Do not drive the vehicle in these circumstances as full braking is not available. In addition, this can lead to rapid loss of engine oil with subsequent serious damage to the engine.*

Windscreen washer fluid level



Glows orange when the fluid reservoir requires replenishment.

(Approximately 1.4l. remaining from 3.8l.)



Oil pressure indicator

Glows red when the ignition is turned on and goes out when the engine has been started and the oil reaches working pressure. Should the indicator light not go out, or come on at any time while the engine is running, the engine should be stopped at the first available opportunity and the reason for the low oil pressure investigated.

CAUTION: *Running an engine with the warning light on could result in serious damage to the engine.*



Electrical charge indicator

Glows red when the ignition is turned on and goes out when the engine has been started and the electrical system is being charged by the alternator. Should the indicator light fail to go out, or come on while the engine is running, you must stop the vehicle and seek assistance.

CAUTION: *The vehicle must not be driven with the alternator drive belt failed. This can lead to rapid loss of engine oil with subsequent serious damage to the engine. Also see the footnote to braking system indicator.*



Glow plug indicator

Glows orange when the engine glow plugs are used prior to starting the engine (see steering lock and starter switch page 31). The light will go out when the engine may be started.

WARNING: *If the glow plug indicator illuminates or flashes when driving, immediately reduce the vehicle speed. If it continues to flash, avoid heavy acceleration or deceleration. The engine will continue to operate but at reduced power. Have the vehicle checked out by an LTI Dealer immediately.*



Rear door 'open' indicators

With the ignition switched on, the left hand or right hand indicator will flash red when the related left hand or right hand rear door is not closed, supplemented by an intermittent warning buzzer. If the vehicle is moved with a rear door open, the audible warning will be continuous and of higher intensity.



Motion locks system indicator

With the ignition on, and the vehicle stationary with the foot brake off, the indicator will glow green when it is possible for the rear door to be opened from the inside. As soon as the footbrake is applied, or the vehicle moves off, the green indicator light will go out. The doors will remain locked until the footbrake is released (see motion door locking system - page 35)



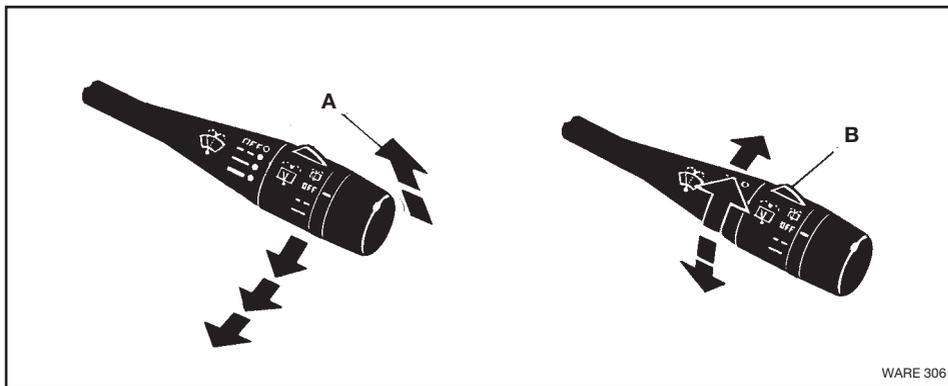
Low fuel level warning light

If the fuel gauge indicates low fuel or the low fuel warning light illuminates, please refuel immediately. Some time after the low fuel level warning light has illuminated, when the fuel reaches a very low level, the engine will start to run unevenly as an additional warning. Proceed to the next filling station and refuel with at least 8 litres of fuel.



Failure to refuel will result in the engine running dry. This will lead to a difficult restarting procedure which requires roadside assistance. **Also, serious engine damage may occur.**

WARNING: *If the green light remains on when the footbrake is held on with the rear doors closed, or when the vehicle is in motion, the condition should be investigated and corrected as soon as possible. If the green light fails to come on when the footbrake is released and the vehicle is stationary, there is a fault in the system which should be investigated.*



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WINDSCREEN WIPERS AND WASHERS

Push the switch arm down to operate the front wipers.

- OFF** ○ Off
 — — ● Timed interval wipe
 — — ● Wipers operate at slow speed.
 — — ● Wipers operate at fast speed.

Pull the lever towards you (A) against spring pressure to operate the windscreen washers; the wipers will operate for a number of sweeps and will park when the lever is returned to the 'off' position.

Certain models have an optional feature that switches the windscreen wipers to timed interval wipe when slow speed wiper operation is selected and the vehicle speed falls below 5 mph. This feature can be overridden by

turning the wipers off then immediately turning them on again. After being overridden the feature will be reset to operate again after the vehicle speed next exceeds 5 mph/8 kmh.

REAR WINDOW WIPER AND WASHER

The additional switch (B) operates the rear wiper.

- OFF** Off
 — — Turn the switch clockwise to first position to operate the rear wiper intermittently at a single frequency, 2nd position for continuous operation.



Turn the switch anti-clockwise against spring pressure to operate the rear wiper and washer. On return to the 'off' position the rear wiper will operate for a number of sweeps and then park.

Auto-rear wipe

The rear wiper will operate for two wipes when reverse gear selected and front wipers on.

CAUTION: Do not operate the washers if the fluid reservoir is empty. Always keep the windscreen washer reservoirs topped up with clean water and a proprietary washer fluid additive diluted in line with the manufacturer's instructions. If the low wash level warning light is on, the rear washer is disabled.

LIGHTS, BEAM SELECTOR AND TURN INDICATOR SWITCH

Lighting

Turn the switch anti-clockwise as follows:

- **OFF** Off
-  Front and rear side lights, rear number plate light and instrument lighting.
-  Headlights on (when ignition switch is on).

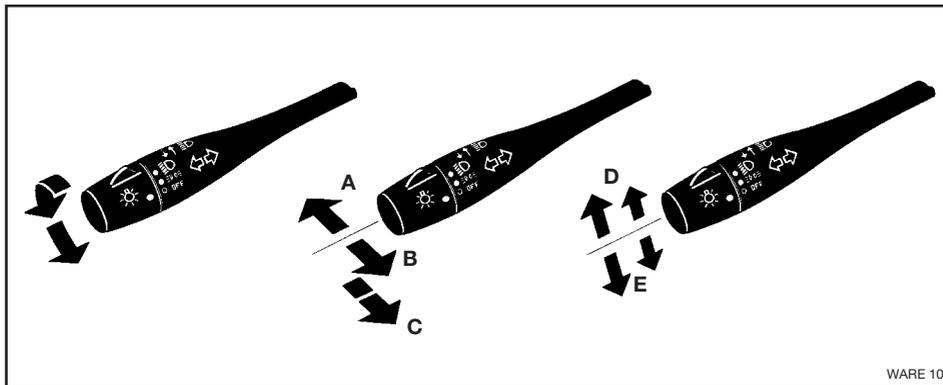
Light warning buzzer

A warning buzzer will sound if the light switch is turned on when the driver's side door is open with the ignition off.

To select high beam, push the lever away from you **(A)**. The warning light in the instrument cluster will glow 'blue' in the high beam position. Pull the lever towards you **(B)** for low beam.

Headlight flasher

When the ignition is switched on, pulling the lever toward you **(C)** against spring pressure will operate the headlight flasher. This switch also operates when the lighting switch is off.



WARE 10

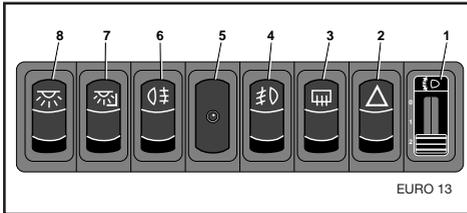
Indicator switch

Move the lever fully up or down to signal right **(D)** or left **(E)**. When the turn has been completed, the indicators will cancel automatically. The appropriate warning light in the instrument cluster will flash in time with the indicators.

CAUTION: *If the warning light flashes incorrectly this indicates that a bulb in the indicator circuit (front, side repeater or rear) may have failed and should be replaced at the earliest opportunity.*

Lane change signal

To indicate a lane change, move the indicator switch up or down to the point where the indicators begin to flash. The lever will return to its off position when released.



1. Head lamp beam level control

This sliding switch controls the level of the headlamp beams. Position '0' is highest setting with positions '1' and '2' progressively lowering the headlamp beam as required depending on how the vehicle is loaded.

The following settings should be followed as a general guide.

- 0 Driver and one or two passengers
- 1 Driver and up to five passengers
- 2 Fully laden with passengers, and luggage in the boot

2. Hazard warning lights switch

Use this switch when you have to stop or park under emergency conditions. All the direction indicators will flash. A red triangle symbol on the switch, and the direction indicator warning lights in the instrument cluster will flash in time with the direction indicators.

Press the switch again to turn off the hazard warning lights.

3. Heated rear screen and door mirrors

With the ignition switch on, operation of this switch against spring pressure will turn on the rear screen and door mirror heating elements. Further operation of the switch will turn the heating elements off. The switch will glow amber while the heating elements are on.

Note: *The heating elements will switch off automatically after approximately 7 minutes or when the ignition is switched off.*

4. Front fog lights (where fitted)

With the side lights switched on, pushing this switch on or off will control the illumination of the front fog lamps. The switch will glow green while the fog lights are on.

5. Engine security system light

Flashes when the ignition key is removed from the steering lock. Lights continuously when the ignition key is turned to position II. Extinguishes when the key has been recognised. Flashes rapidly if fault is present.

6. Rear fog lights

When the headlights or optional front fog lights are switched on, pushing the switch will illuminate the rear fog lights; a further push on the switch will extinguish the rear fog lights. The switch will glow amber while the rear fog lights are on. The rear fog lights will be extinguished when the headlights are turned off, unless the optional front fog lights are in use at the time.

Note: *Fog lamps should only be used when visibility is seriously reduced, and in accordance with local legislation.*

7. Driver's compartment illumination

Pushing this switch on or off will control the illumination of the overhead driver's compartment lights and under the right hand side of the facia (where fitted). These lights also come on when either front door is opened. On some models these lights remain on for a short time after the doors are closed or until the ignition switch is turned on.

Electronic control to reduce electrical system demand gives the following feature:

Should a door be left open any interior lights illuminated will be extinguished after 5 minutes. If any Driver's compartment illumination is switched on, after 30 minutes the relevant lights will be automatically extinguished. The lights can be turned on again by operating the switch off then on again.

8. Passenger compartment illumination

When the rear doors are closed, pushing this switch on or off will control the illumination of the passenger's compartment overhead lights irrespective of the position of the light switch in the passenger compartment.

To prolong bulb life, interior lights automatically extinguish if left on for more than five minutes with a door open, the driver's switch will override this feature.

RADIO AND AUDIO EQUIPMENT

The radio and audio equipment operating instructions are provided in a separate publication supplied with the vehicle.

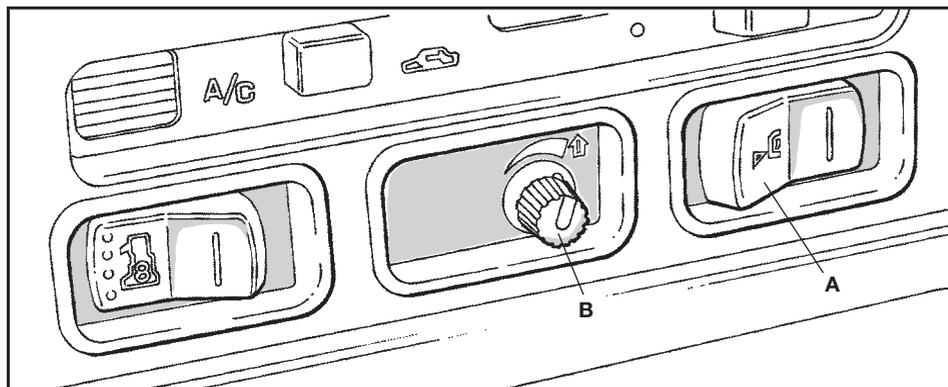
A roof mounted aerial is fitted. The antenna unscrews from the base by hand. If parking in a garage or other confined space ensure that there is sufficient clearance. Remove the antenna in the event that there is any doubt over clearance.

1. Intercom and induction loop systems

The vehicle is fitted with an intercom system to facilitate communication between the driver and passengers. With the ignition switched on, the intercom may be operated by pressing the fascia switch **(A)**, or the similar switches in the passenger compartment. Whenever the intercom is turned on, the radio/cassette sound output will be muted.

Pressing either switch again will turn the intercom system off, so that privacy is available as required. Lights in the switch and in the passenger compartment are illuminated when the intercom system is being used.

Note: *The intercom system performance will be affected by background noise and should be operated with windows and centre partition closed, and audio equipment 'off'.*



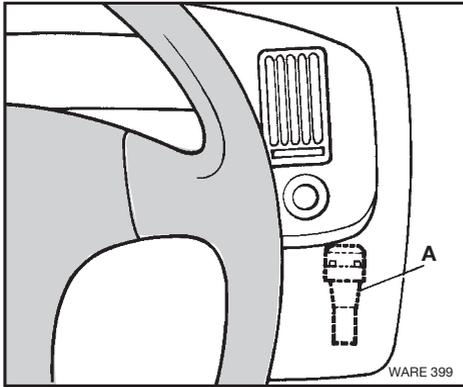
An induction loop system around the passenger compartment enables hearing aid wearers to hear conversations more easily by switching their hearing aids to the 'T' position.

2. Intercom volume control

Rotate the control knob **(B)** clockwise to adjust the volume from the driver's compartment intercom speaker.

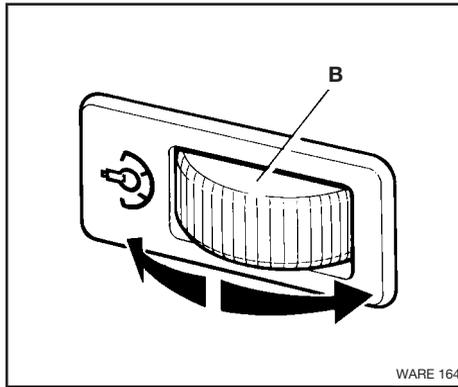
Volume from the rear compartment speaker is pre-set in manufacture but can be altered by an LTI Main Dealer on request

Note: *Under certain conditions, background noise may adversely affect the sound quality if the control knob is set to its maximum position.*



Fuel cut off switch

In the event of an accident the inertia switch will disable the fuel system. To re-activate, locate the switch (A) mounted up and behind the driver side fascia. Once operated the engine can be re-started in the usual manner.

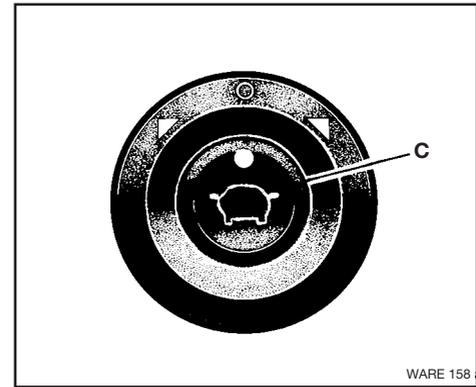


Instrument panel illumination

When the side lights are switched on, the instruments and a number of the switches are illuminated. The intensity of the instrument illumination may be controlled by rotating the knurled adjuster (B).

Horn

The horn may be operated by pressing the lower part of the steering wheel centre pad.

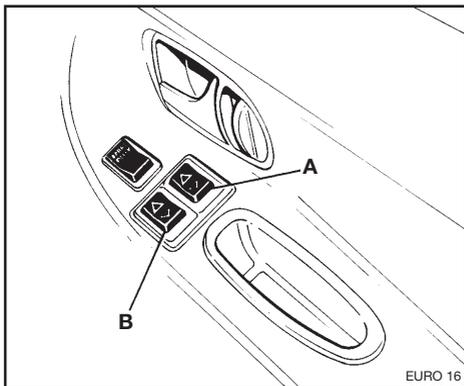


Door mirrors

Turn the knob (C) to select the mirror to be adjusted. Adjust the mirror by moving the knob in the direction adjustment is required. Return the control to its central position when the required adjustment has been achieved.

To clear mist and frost, the mirrors are heated when the rear screen heater is in operation.

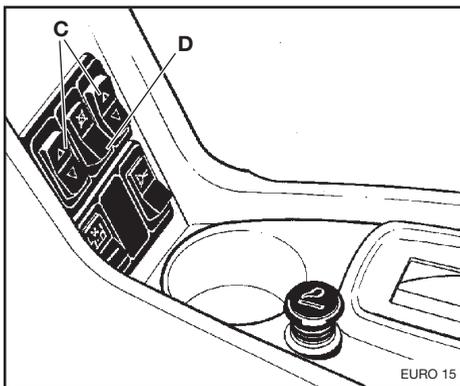
Note: To minimise accidental damage, door mirrors are designed to fold back if they are inadvertently knocked. They may be repositioned by pulling the mirror head back into its normal position.



Driver's compartment door windows

The rocker switch (A) in the driver's door arm rest operates the driver's door window, switch (B) is for the window in the left hand door. These switches operate with the ignition key in position I and II. Push and hold the switch in the 'up' or 'down' position until the required position is achieved. A short push will activate the one touch down facility on either front window, pushing the switch again in either direction will cancel the operation.

There is a similar switch for the window in the left hand front door.



Passenger compartment windows - driver's control switches

Operating the rocker switches (C) located in the centre console to the rear of the gear lever, will allow the driver to raise or lower the rear door windows as required. These switches operate with the ignition key in position I and II.

The switches must be held 'up' or 'down' until the required window position is reached. The centre switch will disable power to the rear windows only.

Centre switch (D) will disable power to the switches in the rear compartment only. As a "Driver Command Feature" the windows will always remain under the control of the switches in the drivers compartment.

Warning

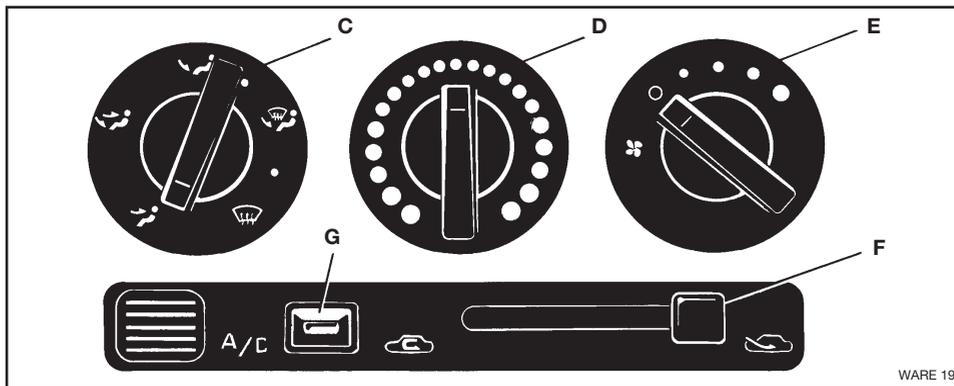
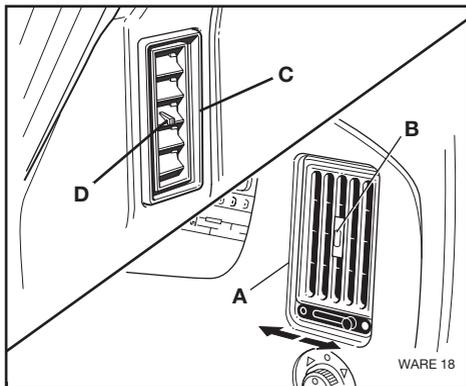
Electrically operated windows may be dangerous to the operator or others, particularly children, if used improperly, with the risk of entrapment. It is the responsibility of the driver or passengers using the electric windows to exercise caution in use, and to avoid putting any part of the body or other object through the open window aperture that may be injured or trapped.

If any type of remote closure system is fitted to the vehicle, whether as part of a security system or as an accessory, it is the responsibility of the operator to ensure a clear view of all the windows when operating the system, to ensure that there is no person or object nearby that may be injured or trapped.

Driver's and passenger compartment windows

Should a window stop moving during operation, release and retry the switch. If there is a fault or overload detected the window will move 2cm in the required direction then stop. Continue to retry the switch until the window is closed.

DRIVER'S COMPARTMENT - HEATER AND AIR CONDITIONING



HEATER AND AIR CONDITIONING CONTROLS

Facia air vents

Air from the heater system flows through demister nozzles at the base of the windscreen, outlets in each footwell, and four adjustable facia mounted vents (A) and (C). Open the adjustable vents (A) by moving the lever to the 'O' position, close the vent by moving the lever to '●'. Direct the air flow by moving the control (B).

Open the adjustable vent (C) by moving the vent blades (D) upwards, close the vent by moving the vent blades downwards. Direct the air flow by moving the vent blades (D).

Note: To ensure the heater operates effectively, always clear any accumulated ice and snow from the windscreen wipers and the air inlet in front of the windscreen before driving the vehicle.

Air distribution control (C)



Temperature controlled air is directed from the outer facia mounted vents. Where air conditioning is fitted, air from the centre vents is at outside air temperature or cooled.



Temperature controlled air is directed from the outer facia vents and the footwell outlets. Air from the centre vents is at outside air temperature or cooled.



Temperature controlled air is directed from the footwell outlets and facia outer vents; unheated air is directed from the facia centre

outlets. Further small movement of the control clockwise will progressively direct a small air flow from the de-mister nozzles.



Temperature controlled air is directed from the footwell outlets, de-mister nozzles and facia outer vents; unheated air is directed from the facia centre outlets.



Temperature controlled air is directed from the de-mister nozzles and facia outer vents; unheated air is directed from the facia centre outlets. Maximum defrost is achieved with the facia vents closed and the lever (F) to the left in the air recirculation position.

DRIVER'S COMPARTMENT - HEATER AND AIR CONDITIONING

Temperature control dial (D)

Turn the control clockwise from its blue into its red sections to provide increasing air temperature. This control sets the temperature level from both front and rear heaters. The heating function only operates after engine warm up.

Heater blower control dial (E)

Turn the control clockwise from the off 'O' position to provide increasing air flow (four speeds).

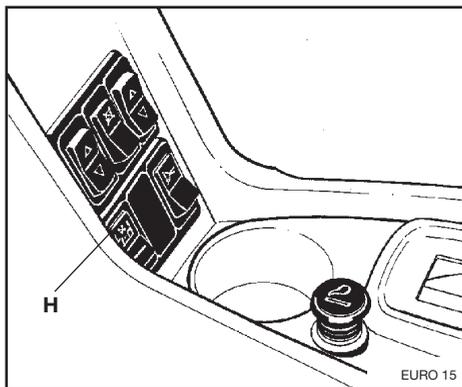
Air recirculation lever (F)



Outside air is drawn into the driver's compartment. Use this position for normal heating and ventilation.



Interior air is recirculated in the driver's compartment. Use this position for rapid warm up from cold (or for quick cooling when air-conditioning is fitted), when driving on a dusty road or to avoid excessive traffic fumes.



CAUTION: Do not use the 'recirculated air' position for extended periods as this may cause the interior air to become stale and the windows to mist up.

Passenger compartment

Air is directed through a separate rear heater into the passenger compartment. An override switch (H) in the centre console and behind the gear lever allows the driver to switch the passenger heater blower on or off. The temperature control dial on the fascia also controls the temperature of the rear heater output.

Passenger compartment heater controls are detailed on page 36.

DRIVER'S AIR CONDITIONING (where fitted)

Air conditioning switch (G)



Start the engine, move the blower motor control to the desired position and push the air conditioning switch

(G) illustrated on previous page to turn the air conditioning system on; the air conditioning indicator light in the switch will then come on. Push the switch again to turn the air conditioning system off. The blower motor speed selected will control the amount of cool air available.

For maximum cooling the blower should be set to its maximum speed, the temperature control turned fully anti-clockwise and the air circulation lever (F) set to recirculate the air in the vehicle. The temperature of the incoming air may be raised by rotating the heater temperature control.

Note: The air conditioning system will not operate with the heater blower motor control in the off 'O' position.

COMBINED DRIVER'S AND PASSENGER COMPARTMENT AIR CONDITIONING (where fitted)

This is operated by the same switch as the driver's air conditioning and no separate controls are fitted. The rear air conditioning output is through the passenger compartment heater vents (see page 36).

Air conditioning - general information

Turn off the air conditioning when starting the vehicle to reduce the starter motor load.

The air conditioning system works only when the engine is running. Moisture is removed from the incoming air during the air conditioning process and this assists the de-misting of windows.

NOTE: *When operating the air conditioning system in conditions of high humidity, extracted water can cause a build up of ice in the system which will restrict air flow. In such conditions the air recirculation lever (F) shown on page 24 should be set and retained in its recirculation position.*

Both during and after use, it may be noted that water drains from the air-conditioning system below the vehicle and this is normal.

Air conditioning systems consume energy and increase fuel consumption. It is good practice to use the air conditioning system sparingly.

It is beneficial to ventilate a vehicle which has been standing in extremes of heat, by first opening the windows and then operating the heater blower at its maximum for a few minutes, with the temperature control set to cold, before closing the windows and turning on the air conditioning system.

The air conditioning system should be operated for a minimum of 5 minutes each week throughout the year. This lubricates the internal components and helps to maintain the seals in the system and prevent loss of refrigerant.

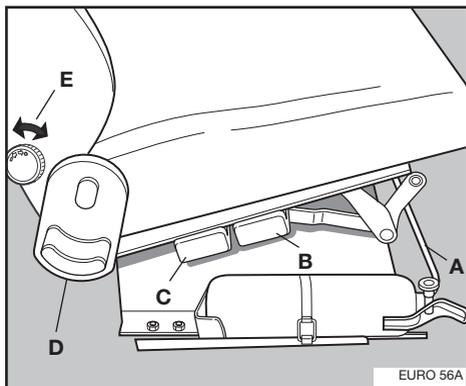
WARNING: *The air conditioning system uses environmentally friendly (R134A) refrigerant and no alternative must ever be used. The air conditioning system must be serviced by trained technicians familiar with such systems using the correct specialised equipment.*

Special care is particularly required when handling refrigerant gas, so no part of the air conditioning system or its pipes should be disconnected by untrained personnel.

CAUTION: *In most countries it is an offence to deliberately release refrigerant gas to the atmosphere.*

Moisture and foreign particles in the refrigerant will have an adverse effect upon the satisfactory operation of the air conditioning system. Always ensure the receiver dryer is replaced by a trained technician at the intervals specified in the maintenance section of this handbook.

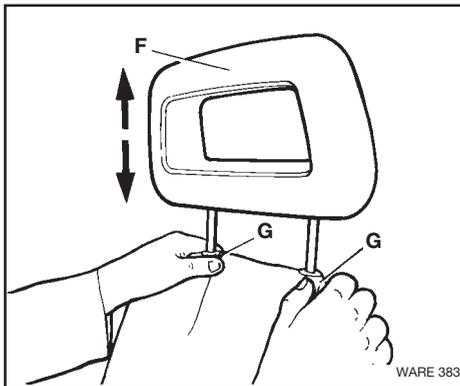
The air conditioning compressor belt driven by the engine must always be maintained at the correct tension. If the system fails to function correctly and the compressor drive belt is in good condition and correctly tensioned, seek the help of a trained technician.



DRIVER'S SEAT AND HEAD RESTRAINT

Lift the release (A) at the front of the seat frame to adjust the seat forwards or backwards. Lift the lever (B) to raise or lower the front of the seat. Lift the lever (C) to raise or lower the rear of the seat. Lift the adjuster lever (D) to alter the seat back angle.

A mechanical lumbar support is fitted which may be adjusted to suit the individual by rotating the knob (E). Rotating the knob to the right moves the lumbar support outwards to support the back, rotating the knob to the left retracts the lumbar support. The head restraint should be adjusted up and down so that the top (F) is immediately behind the centre of driver's head. With assistance, and working from the front of the seat, the head restraint can be lifted out of the seat after depressing the spring clips (G) in the top of the seat back, to the right of each head restraint pillar hole.



SEAT BELT - DRIVER'S SEAT

Always wear your seat belt and ensure your passengers wear their seat belts whenever driving the vehicle. The chances of becoming injured in an accident and/or the severity of injury may be greatly reduced if seat belts are worn and are properly adjusted.

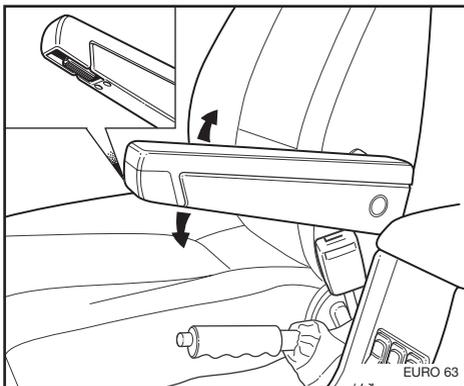
Adjust the driving seat to the required position. Slowly draw the seat belt out from its retraction guide (H) on the body pillar, passing it over the centre of the right shoulder before inserting the locking tongue (J) into the buckle (K) until a "click" confirms full engagement. Ensure the belt is not twisted and position the lap belt portion low over the hips (never across the soft parts of the abdomen). Pull the shoulder portion of the belt back towards the guide on the body pillar to remove any slack. Depress the red button on the buckle (K) to release the belt; the belt will retract automatically.



WARNING: *The seat belt should rest on the middle of the shoulder - it must not rest against the neck.*

Seat belt care

No modifications or additions should be made to the seat belt assembly or its fixings. Regularly inspect the seat belt webbing for any signs of wear or damage paying particular attention to the fixing points. Always keep the belt dry and avoid contaminating the seat belt webbing with polishes, oils and chemicals. Renew any seat belt that has withstood the strain of a severe impact or shows any sign of fraying or has been cut. The replaced assembly must be to the manufacturer's specification and may only be fitted by an authorized Dealer. Clean only with a mild non-detergent soap solution or luke warm water. Allow the belt to dry naturally.



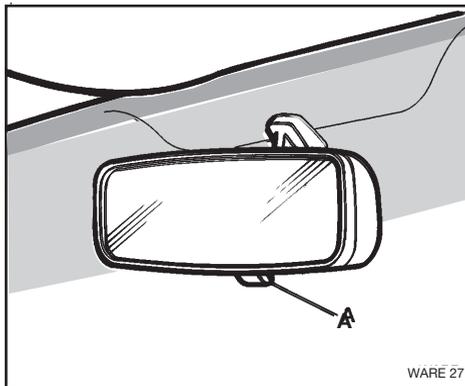
Checking seat belt operation

The seat belt retractors are designed to lock belt movement by two separate methods - when the seat belt is pulled quickly from its retractor, and when the vehicle slows down rapidly.

The seat belt operation may be tested as follows:

1. Grasp the shoulder belt and pull it forward quickly. The retractor should lock up immediately and prevent any further belt movement.
2. **The following test must be carried out under safe road conditions, i.e. a dry road with no following or oncoming vehicles.**

With the belts in use, drive the vehicle at a steady 5 mph. (8 kmh) and brake sharply. The automatic locking device should operate and lock the belt. It is essential that the driver and passenger are sitting in a normal relaxed



position when making this test - the retarding effect of braking must not be anticipated. If the retractor fails to lock during this check you should consult your authorized Dealer.

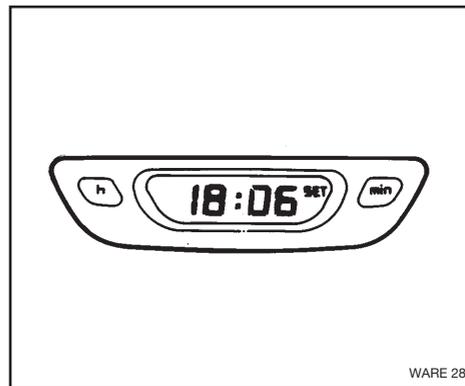
DRIVER'S SEAT ARMREST (where fitted)

The driver's seat armrest is an option on some models. To adjust the height to suit the individual, turn the adjuster drum under the front of the armrest until the desired position is achieved.

The armrest can be moved to the upright position without disturbing the height adjustment

Interior Mirror

The mirror head may be adjusted as required. To reduce dazzle, press the lever (A) towards the windscreen; return the mirror to its original setting when required.



Clock

The 24 hour display clock is situated in the roof console. Adjust the hour displayed by pressing the button (h) until the required display is achieved. Similarly adjust the minutes displayed by pressing the button (min).

DRIVER'S COMPARTMENT - GENERAL EQUIPMENT

Courtesy lights

A courtesy light at the right hand end of the lower edge of the facia operates together with the interior lights when either of the front doors are open. On some models the lights will remain on for a short time after the doors are closed or until the ignition switch is turned on.

Reading light override switch

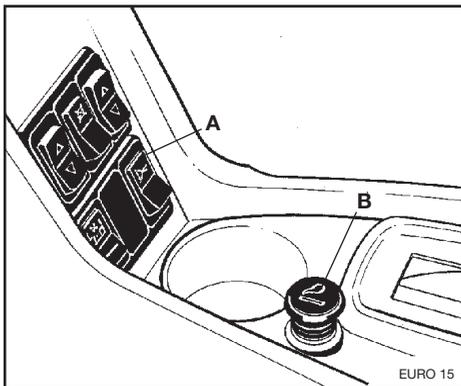
Located in the centre console to the rear of the gear lever, this switch (A) allows the driver to control the operation of the passenger compartment reading lights. When the switch is in the 'off' position, the passenger reading lights cannot be used.

Cigar lighter (where fitted)

The cigar lighter (B) is located in the centre console. Press the knob to operate the lighter, which will partially eject when the lighter element has heated, and can then be withdrawn for use. Carefully replace the lighter after use to avoid any damage to the trim if the lighter element is still hot.

Power socket

A 12 volt, 10 Amp power socket (C) is situated in the centre console to provide an electrical supply for computer and communication equipment. The pull back cover over the socket should be replaced when the socket is not in use.

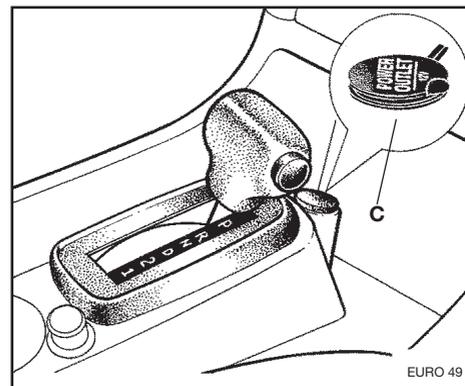


Fire extinguisher (Where fitted)

Depending on the type fitted, the fire extinguisher may be released either by unbuckling the wire clip from the inside outwards, or pulling the extinguisher directly out of its spring mounted clip.

Taximeter and hire sign(s)

The taximeter may be housed in the roof console. Operating instructions for the taximeter are contained in a separate publication. The roof mounted hire sign, fare payment illumination, and the hire sign repeater (where fitted) are controlled by the taximeter.



Fare illumination light

With certain makes and models of taximeter, when the vehicle is stationary and 'fare total' is selected on the taximeter, several of the interior lights are illuminated to assist the passenger and driver in making and collecting payment. When payment is collected and the taximeter 'for hire' position is selected, the lights are extinguished.

Note: This feature may not function with certain makes and models of taximeter.

DRIVER'S COMPARTMENT - GENERAL EQUIPMENT

Storage compartments

A pocket is provided in the driver's door, in addition to the compartment to the rear of the centre console.

Left hand front door pull

A flexible cable door pull is provided between the fascia and the left hand door to facilitate door closure from the driver's seat.

Luggage hold-down strap (where fitted)

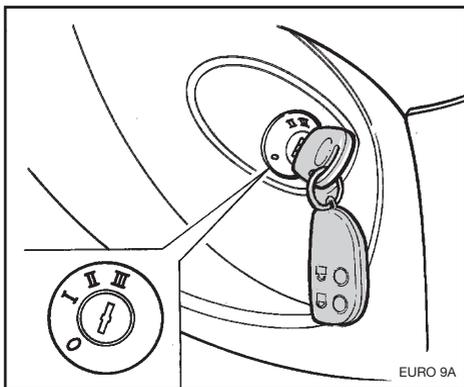
A luggage hold-down strap is available as an optional item and is fitted in the front luggage compartment.

Insert the free end of the hold-down strap through the brackets mounted on the centre partition. Then feed the end of the strap through the spring loaded buckle. Insert an item of luggage into the open loop of the assembled strap and pull the free end of the strap through the buckle until tight. To release press the lever on the buckle and pull the strap through until the luggage is released.

Caution

When the luggage hold-down strap is not in use it must be safely stowed away and not left in place. It may cause a trip hazard for users of the optional front compartment occasional seat or be trapped in the door as it is closed.





STARTING THE ENGINE

Turn the ignition key to position 'I' to unlock the steering. If the steering lock remains engaged, slight movement of the steering wheel will release it. Apply the footbrake and check the gear selector lever is in the 'P' position (automatic transmission) or 'Neutral' (manual gearbox).

Further movement of the key clockwise to position 'II' will switch on the 'glow' plugs to assist engine starting if required. The orange warning light in the instrument panel may glow depending on ambient temperature, indicating the 'glow' plugs are operating. **The starter motor should not be operated until the warning light goes out.**

Further clockwise movement of the key against spring pressure to the 'III' position on the switch will then operate the starter motor. Release the

key to position 'II' immediately the engine fires and runs freely. Normally the starter motor should only be operated for 5 to 6 seconds at a time. If the engine fails to start the first time, release the key to position 'II' until the engine and starter motor have ceased turning before again turning the key to engage the starter motor. This procedure may be repeated a few times, however, if the engine fails to start after repeated attempts, service attention is required. **Note:** *The starter motor may have to be operated for more than five or six seconds in cold weather conditions.*

To stop the engine, turn the key fully anti-clockwise to position '0'.

Note: *If engine stalls for any reason you must turn the key to position 'I' and then through position 'II' to position 'III' to start the engine. The engine will crank over but will not restart if you try to restart from position 'II'.*

WARNING: *Never remove the key while driving. If the key is removed the steering will lock.*

The steering lock must be disengaged (key in and turned to position 'I') before releasing the handbrake and manoeuvring the vehicle without using the engine. Never push the vehicle without a qualified driver in position and with the steering lock disengaged. Remember that brake servo assistance is not available unless the engine is running. Free wheeling is not recommended. The steering lock/starter switch are designed to prevent the engine being started while the steering lock is engaged.

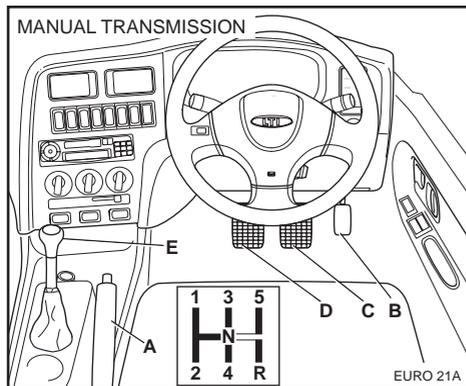
Serious consequences could result from alteration or substitution of the steering column lock/starter switch or its wiring.

CAUTION: *The steering lock/starter switch should not be lubricated.*

Do not allow the engine to idle for an extended period while warming-up; drive the vehicle immediately the engine has started. Always select the appropriate gear so that the engine never labours, and avoid hard acceleration and high speeds until the normal engine operating temperature has been achieved.

WARNING: *For both security and safety reasons, the vehicle should never be left unattended with the engine running. Before leaving the driver's seat, always stop the engine, apply the handbrake and engage a low gear (manual transmission) or 'P' - park (automatic transmission).*

DRIVING THE VEHICLE



DRIVER'S CONTROLS

Hand brake lever (A)

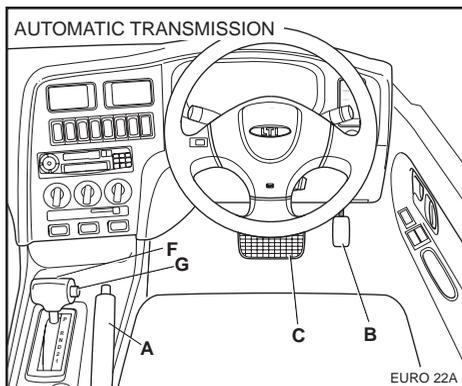
Pull the lever upwards to apply the rear brakes. To release the brakes, pull the lever upwards slightly, depress the button on the end of the lever and push the lever fully downwards. The braking system indicator light on the instrument panel will glow red when the handbrake is applied with the ignition switch on.

Note: Some free play (4-5 notches) must exist in the handbrake linkage in order to allow the automatic rear brake adjustment system to work correctly.

Accelerator pedal (B)

Brake pedal (C)

Clutch pedal (D)



Manual gearbox - gear positions (E)

'N' - Neutral.

'1' - '5' First to 5th Gears.

'R' - Reverse.

Driving

If a gear is not easily engaged, operate the clutch and repeat the gear selection. To engage 5th gear or reverse, the gear lever must be moved against spring resistance. Select reverse gear only when the vehicle is stationary and pause for a few seconds after de-clutching before engaging gear.

Note: It is good practice to leave the vehicle in a low gear, with the handbrake fully applied, whenever the vehicle is parked.

Automatic transmission selector lever (F)

Always apply the brakes before starting the engine. The starter can only be operated when the gear selector is in either the 'P' or 'N' positions.

Note: Vehicles with automatic transmission cannot be push or tow started.

After starting the engine, release the accelerator and before shifting the selector lever depress the brake pedal since the vehicle will otherwise start to 'creep'. Push in the selector lever lock button (G) and move the selector lever to the required gear position (see below). Release the brakes and press the accelerator to take up the drive.

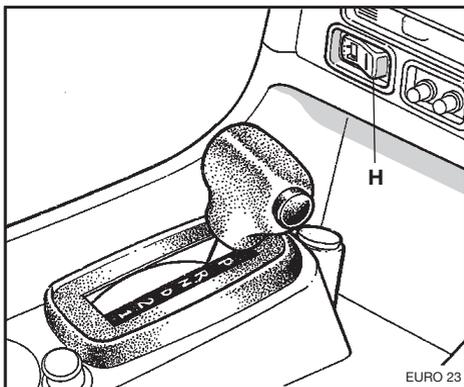
CAUTION: Do not run the engine above idle speed when any gear has been selected. Select the lever positions 'N' or 'P' for prolonged periods of idling. When the vehicle is stationary always keep the brakes applied until gear selection has taken place.

Selector positions

'P' - Park. Select this position only when the vehicle is stationary. Apply the handbrake and select 'P' to lock the transmission mechanically before stopping the engine. The selector lever can only be moved to select the other gears after pushing in the selector lock button (G).

Note: select 'P' to lock the transmission, and fully apply the handbrake whenever the vehicle is parked.

'R' - Reverse. Select this position only when the vehicle is stationary. In this gear the reversing lights will operate.



'N' - Neutral. Apply the brakes and select **'N'** when the vehicle has come to rest.

'D' - Drive. Select this position for normal driving. Gears will change automatically both upward and downwards through the forward gears according to road speed and accelerator position. The change up to 4th gear is controlled by means of an overdrive lock (see below).

When the accelerator pedal is fully depressed, the transmission will change down to a lower gear if the road speed is sufficiently low to permit the gear change; the transmission will change up a gear when the accelerator is partly released.

'2' - Second gear. May be selected directly from **'D'** Drive and will **'hold'** the gear without allowing a change to a higher gear. Select when rapid acceleration is required without depressing the accelerator pedal, or when engine braking is required when descending steep hills.

'1' - Low gear. Engagement of this gear is only possible after pushing in the selector lock button **(G)**. This is to prevent accidental change from **'D'** directly into **'1'** (low gear). Use this gear when climbing steep hills slowly, driving slowly through deep snow, or for maximum engine braking on very steep downhill grades.
Note: *Engine braking is present in both '2' and '1' gears*

Overdrive lock

An overdrive lock switch **(H)** is located on the fascia. The indicator light in the switch glows green when the overdrive gear is locked out. **Overdrive (4th gear) is not recommended for town driving and under these conditions the overdrive lock switch should be used to prevent the overdrive from being selected.**

For open road cruising, operate the overdrive lock switch (warning light off) to allow the transmission to select all four forward gears according to road speed and accelerator position.

Note: *With the overdrive engaged you may notice a slight jolt as the vehicle comes to rest; this is a characteristic of the transmission and is in no way detrimental to the performance or durability of the vehicle.*

To provide extra engine braking when driving down a long descending slope, use the switch to prevent the overdrive from being selected (warning light on). The overdrive should also be prevented from operating when climbing a long gentle slope. This will prevent frequent changes up and down between 3rd and 4th gears.

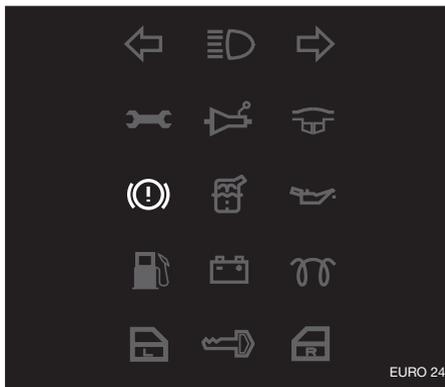
FILLING WITH FUEL

Always use the specified fuel for your vehicle. To allow for expansion, do not fill the tank to the top of the filler neck.

CAUTION: *LOW FUEL CAN CAUSE DAMAGE TO YOUR FUEL PUMP. To avoid the need to 'bleed' air from the fuel system, always avoid any possibility of allowing the fuel tank to run dry. If the tank should run dry, the fuel system must be primed to exclude air (page 55) before attempting to restart the engine.*

CAUTION: *The use of diesel/water emulsion 'Purinox/Aspira' is prohibited.*

CAUTION: *The use of diesel fuels with high vegetable oil content of over 5% is prohibited. This includes products commonly described as Bio-Diesel.*



BRAKES

The brakes on your new vehicle will increase in efficiency as they are used during the first few days of driving. During this 'bedding-in' period, the pedal pressure required will diminish slightly. Never impede brake pedal travel by using loose additional and unsecured matting.

As a safety precaution, there are two brake hydraulic systems which operate independently. Should one circuit fail, the other circuit will operate though brake pedal travel will be significantly increased. Push the brake pedal down beyond the area of no resistance until the second hydraulic circuit operates the brakes. Do not 'pump' the brake pedal in an attempt to restore pressure.

If the vehicle has been washed, driven through water or over wet roads for long periods without using the brakes, full braking power may not be available until the brakes dry out. As soon as it is safe to do so, dry out the brakes by applying the footbrake lightly several times while the vehicle is in motion. Keep the handbrake applied when using washing equipment.

WARNING: *Never ignore the braking system warning light. If the light glows at any time with the handbrake released, it indicates a potential condition with the braking system which requires immediate investigation before the vehicle is driven or after safely stopping the vehicle.*

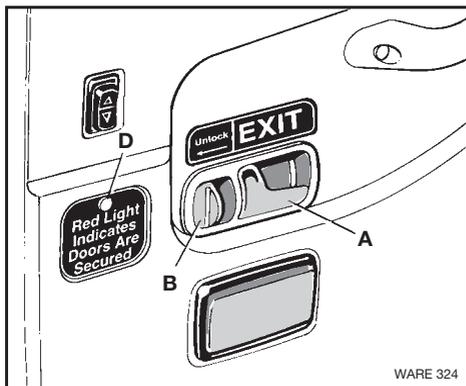
Check the brake fluid level has not fallen appreciably, indicating a leak in the brake hydraulic system. If the fluid level is incorrect, the source of the leak must be corrected immediately by a competent technician before the vehicle is operated further.

If the fluid level is correct, check to ensure vacuum power assistance is available. Low vacuum power assistance may be identified by heavy brake pedal pressure. This condition should be rectified by an authorised Dealer.

CAUTION: *Brake servo assistance is provided by a vacuum pump driven by the front end accessory drive belt. Should this belt fail, the battery charge indicator light.. The vehicle must not be driven with the alternator drive belt failed. This can lead to rapid loss of engine oil with subsequent serious damage to the engine.*

If the brake fluid level and pedal effort are correct, and the light comes on when the brake pedal is pressed, it indicates that the front brake pads are worn and should be replaced as soon as possible.

PASSENGER COMPARTMENT - MOTION DOOR LOCKS



Door locks

The exterior door handles operate by pulling directly outwards from the door and can only be locked by the driver controlled central locking system. A small light illuminates the outside door handles when the taximeter is in the 'for hire' mode and the cab is travelling at below walking pace or is stationary.

The interior door release (A) will open the rear door. When the vehicle is stationary, the spring loaded locking catch (B) may be used to unlock (but not lock) an individual door which has been locked by the central locking system.



Motion door locks

An electronically controlled mechanism locks the rear doors automatically when the vehicle is in motion or when the driver applies the footbrake with the vehicle stationary.



With the ignition on, the vehicle stationary and the foot brake off, the rear doors may be opened. A green warning light in the driver's instrument cluster indicates the rear doors may be opened. As soon as the footbrake is applied, the rear doors will lock, the green warning light (C) in the instrument cluster will go out and the red warning light (D) in each rear door will come on. The doors will remain locked (red lights on) until the footbrake is released.

The rear doors will also lock automatically as the vehicle moves. The rear doors may be opened when the vehicle comes to rest and the driver's footbrake has been released. Again, the red indicator lights (D) indicate when the doors are locked and extinguish when the doors may be opened.

Note: The automatic door locks will emit a clicking sound as they operate. This is an inherent feature of the system.

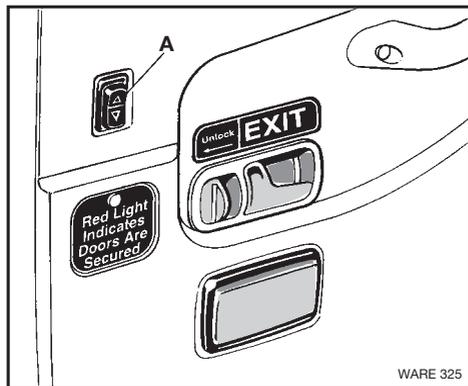


Rear door 'open' warning

With the ignition on, flashing red warning lights in the driver's instrument cluster, supplemented by an intermittent audible warning device, indicate when a rear door is not closed. If the vehicle is moved with a rear door open the audible warning will be continuous and of higher intensity.

Note: When the automatic motion door locks are applied, the rear doors may still be opened from outside. This allows occupants to be released from the vehicle either by someone outside the vehicle or by the occupants themselves lowering the window and operating the exterior door handle.

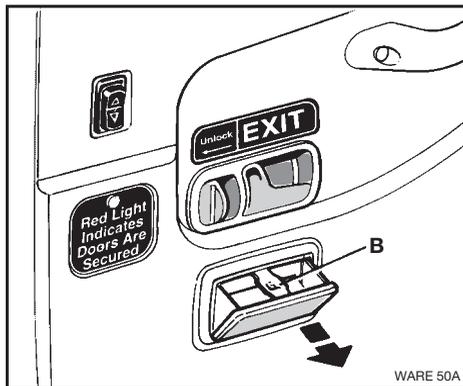
PASSENGER COMPARTMENT - EQUIPMENT



Rear door windows

Rear door window lift switches are set into the door trim (A). These switches operate with the ignition key in positions I and II. Actuation of the switch will cause the appropriate window to open or close until the switch is released. The rear windows will not operate when the centre switch in the drivers console is in the off position. However, as a "Driver Command Feature" the windows will always remain under the control of the switches in the drivers compartment.

Should a window stop moving during operation, release and retry the switch. If there is a fault or overload detected the window will move 2cm in the required direction then stop. Continue to retry the switch until the window is closed.

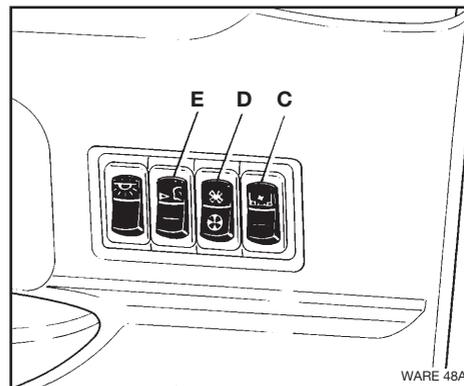


Ashtrays

A pull out ashtray is incorporated into one rear door trim. It may be removed for ash disposal by pressing down the central stub plate (B) before pulling the ashtray out from the door trim. After cleaning, the bottom edge of the ashtray should be engaged in the door trim before rotating it upwards into position with the stub plate depressed.

Heater controls

Rocker switches, in the rear quarter trim to the left side of the passenger compartment, control the rear heater. Switch (C) turns the heater blower motor on and off, while switch (D) controls the heater speed (slow or fast). The heater temperature is controlled by the driver's heater control.

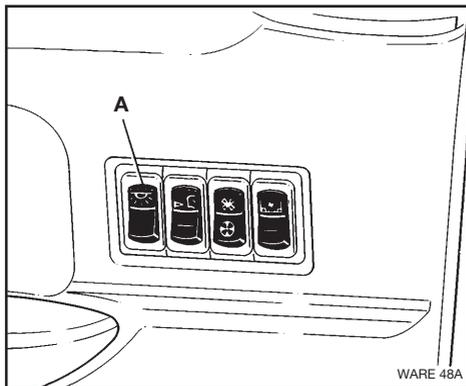


PASSENGER COMPARTMENT AIR CONDITIONING (where fitted)

The rocker switches control cooled air output in the same way as heated air. The cooled temperature is controlled by the driver's use of the air conditioning and heater controls (see page 25).

Intercom equipment

The passenger's operation of the intercom is controlled from a switch (E) in each rear quarter panel. Pressing the switch will activate the intercom which will remain 'live' until the switch is pressed again. An orange light in the switch and red light on the top of the centre division indicate when the intercom system is 'live'. Microphones for the intercom system are positioned in each rear quarter window trim.

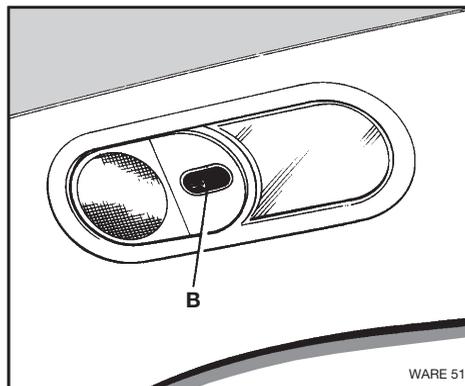


Door and courtesy lights

When a rear door is opened, the floor and roof mounted passenger compartment lights will be illuminated in addition to the puddle lights beneath each rear door. When the doors are closed, the puddle lights will go out. The remaining passenger compartment lights will be extinguished after a short delay.

Passenger compartment illumination

Operation of the rear mounted switch (A) set into each rear quarter trim will turn the passenger compartment lighting on and off (overriding the operation of the courtesy lights). The driver is also provided with a similar override facility.



Electronic control to reduce electrical system demand gives the following feature: Should a door be left open any interior lights illuminated will be extinguished after 5 minutes. If any passenger compartment illumination is switched on, after 30 minutes the relevant lights will be automatically extinguished. The lights can be turned on again by operating the switch off then on again.

Reading lamps

When the override switch in the driver's compartment is on, moving the switch (B) to its central position will turn the reading lamp on.

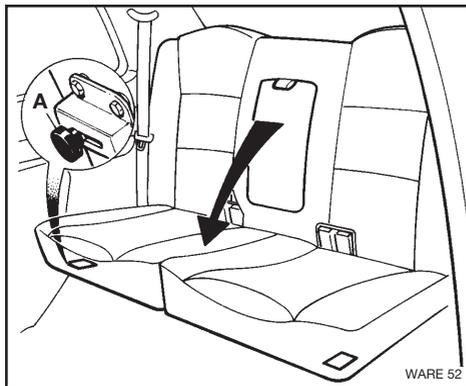
Grab handles

To facilitate passenger entry and exit, grab handles are fitted to the rear doors, the door slam posts and above the door aperture.

Fare table and cab number

Provision for fare table and cab number details is provided in the door trims.

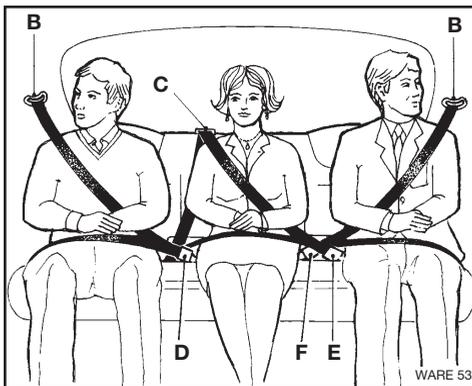
PASSENGER COMPARTMENT - SEATS AND SEAT BELTS



The passenger compartment is designed to take a maximum of 5 passengers. This number must not be exceeded.

CAUTION: Encourage passengers to wear the seat belts provided. The chances of passengers becoming injured in an accident and/or the severity of any injury may be greatly reduced if seat belts are worn and are properly adjusted. Young children's portable car seats should only be used in conjunction with rear seat belts and installed in accordance with the seat manufacturer's instructions. Carefully secure luggage or other objects liable to cause injuries in the event of an accident.

WARNING: Never leave immobile passengers, wheelchair passengers, or children in the vehicle unattended.



REAR SEAT

The rear seat is fitted with two cushions, each of which may be hinged up when required to provide extra manoeuvring space when loading passengers in wheelchairs. The cushions should normally be held down into position using the latches provided (A).

The centre armrest, which incorporates a child's seat, may be pulled down as required.

REAR SEAT BELTS

Three inertia reel seat belts are provided for the rear seat.

The seat belt should be slowly drawn from its retraction guide (B) on the body pillar (or, in the case of the centre belt, from the fitting (C) on the rear parcel shelf), passing it over the centre of the right shoulder (left shoulder for the left

hand seat) before inserting the tongue on the end of the belt into its buckle (D, E or F) until a positive "click" confirms full engagement.

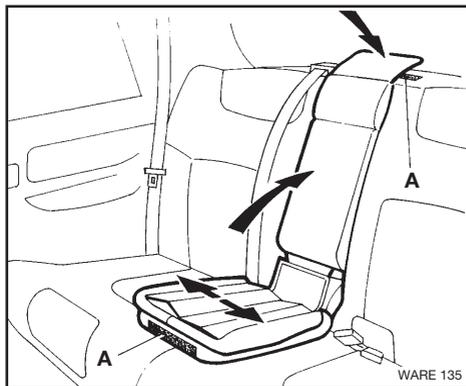
Ensure the belt is not twisted and position the lap belt portion low over the hips (never across the soft parts of the abdomen). Pull the shoulder portion of the belt back towards the retraction guide on the body pillar, or parcel shelf, to remove any slack.

Certain models are fitted with a 'Generation Belt' in the centre position. This can be used by an adult or child. The diagonal strap may be adjusted to the shoulder height of the occupant by sliding the webbing guide (C) up or down the understrap. For a large occupant the webbing guide (C) should be on top of the seat back cushion, whilst for a small occupant the webbing guide (C) should be positioned about 50mm above the level of the shoulder.

Depress the red button on the buckle to release the belt; the belt will retract automatically.

Note: The seat belts should be checked and cleaned periodically as described on page 28.

PASSENGER COMPARTMENT - SEATS AND SEAT BELTS

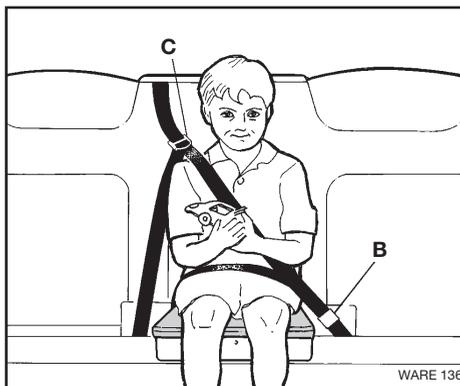


CHILD'S BOOSTER SEAT (Where fitted)

In certain models the top of the centre armrest is fitted with a booster seat which when used in conjunction with the vehicle's centre seat belt is suitable for children with a weight between 22 - 36 kg (48 - 80 lbs)

WARNING: Carefully follow the instructions when using the child's booster seat as failure to do so could be dangerous. Never make alterations or additions to the booster seat; if the seat mechanism is damaged or it has been subject to violent stress as in an accident, it must be replaced by an authorized Dealer with a new unit as specified by the manufacturer.

The child's booster seat is unsuitable for babies or children not within the weight limits specified. It must only be used in



conjunction with the seat belt which must also be fitted correctly.

The child's seat should be stowed immediately after use to avoid parts in direct sunlight becoming too hot for a child's skin.

Children must never be permitted to use the armrest top as a seat.

Lower the centre armrest, pull the top flap of the booster seat from the front of the armrest (A), raise the back of the booster seat to a vertical position, and fix the contact fastening strip beneath the top flap to the similar strip at the top of the rear seat back.

The base of the seat will automatically expand outwards so that the child can be positioned. Slowly draw the centre seat belt from its fitment on the rear parcel shelf, passing it over

the centre of the child's right shoulder before inserting the tongue on the end of the belt into the buckle (B) until a positive "click" confirms full engagement.

Ensure the belt is not twisted and position the lap belt portion low over the hips (never across the soft parts of the abdomen). Pull the shoulder portion of the belt back towards the guide on the rear parcel shelf to remove any slack. To release the belt, depress the red button on the buckle (B), holding on to the tongue as it retracts into its fitment to prevent it inadvertently contacting the child.

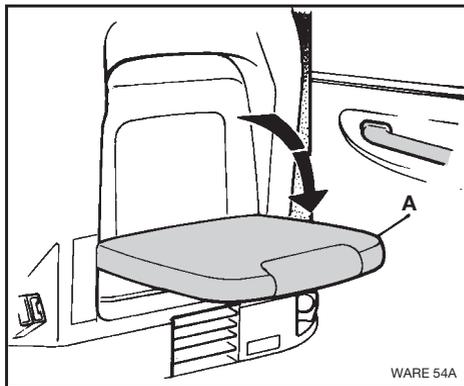
Certain models are fitted with a 'Generation Belt' in the centre position. This can be used by an adult or child. The diagonal strap may be adjusted to the shoulder height of the occupant by sliding the webbing guide (C) up or down the understrap. For a large occupant the webbing guide (C) should be on top of the seat back cushion, whilst for a small occupant the webbing guide (C) should be positioned about 50mm above the level of the shoulder.

After use, pull the top flap of the booster seat from its fastening to the rear seat back, fold down the booster seat back and fix the top flap to the contact fixing strip on the front of the arm rest, before stowing the arm rest in the back of the seat.

WARNING: The rear seat arm rest must never be used as a seat for a child.

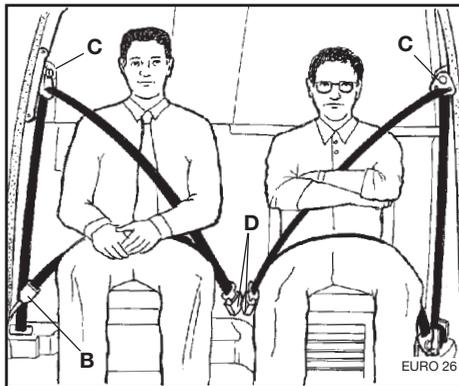
WARNING: The 'Generation Belt' may not be used for a child under the weight of 18Kg.

PASSENGER COMPARTMENT - SEATS & SEAT BELTS



OCCASIONAL SEATS

Rear facing occasional seats (A) are fitted to each side of the centre division. The cushion of these seats is normally held up by springs; the cushions may be pulled down for use when the seats are required.



Seat belts - occasional seats

Inertia reel seat belts are provided for each occasional seat.

Note: *The belt fitted to the left hand swivel seat has an additional fixed tongue and buckle (B) which is only used when the belt is being positioned for use by a wheelchair passenger (see page 45).*

WARNING: *This additional tongue should only be removed from its buckle when a wheelchair passenger is being positioned in the vehicle. When the ignition is switched on a continuous audible warning will sound whenever the fixed tongue and buckle are separated. The vehicle should never be driven in this condition.*

The seat belt should be slowly drawn from its retraction guide (C) on the body pillar and passed over the shoulder before inserting the sliding tongue on the belt into its buckle (D) on the centre division, until a “click” confirms full engagement.

Ensure the belt is not twisted and position the lap belt portion low over the hips (never across the soft parts of the abdomen). Pull the shoulder portion of the belt back towards the retraction guide on the body pillar to remove any slack. Depress the red button on the buckle to release the belt; the belt will retract automatically.

Note: *The seat belts should be checked and cleaned periodically as described on page 28.*

The passenger compartment is fitted with equipment specially designed to assist passengers with special needs to travel in safety and comfort. The left hand occasional seat can be swivelled into the door aperture and used in conjunction with a simply installed additional step to assist the entry of passengers with restricted movement.

Provision has also been made to accommodate most type of hand operated and some power assisted four wheeled wheel chairs. The rear seat cushions are hinged to assist wheel chair entry, and to allow one side of the seat to be used by another passenger, while leaving additional space available for the wheel chair user when required.

To assist in loading a wheel chair, an integral ramp is provided in the passenger compartment floor. The additional step mentioned previously also acts as an extension for the integral ramp where the kerb loading height is low.

It is essential that the equipment is used with care and that the loading and unloading procedures are correctly followed. In all cases reassure the passenger about the equipment, by explaining how it is to be used, and protect your passenger by ensuring they do not contact the door aperture etc., as they manoeuvre into, and out of the vehicle.

GENERAL PRECAUTIONS

1. Wheelchairs must always be carried in the recess to the left hand side of the centre division with the passenger facing the rear of the vehicle. The wheelchair restraining belt, passenger seat belt, and extender belt provided must always be used.

WARNING: *Never carry a wheelchair passenger unrestrained, positioned sideways or facing forwards as the wheelchair and passenger cannot be adequately restrained in these positions.*

2. Wheelchair passengers must always be secured with the seat belt and extender belt provided, as the wheelchair restraint belt does not provide adequate security to the passenger. The seat belt should be threaded through the wheel chair as necessary so that it lies over the passenger's right shoulder before being clipped into the extender belt and routed across the passenger's pelvis to clip into the lower buckle. The belt should never be fitted across the top of the wheelchair arm rests.

3. Even under light braking, acceleration and cornering, an unrestrained wheelchair occupant can fall out of the wheelchair. While wheelchair brakes should be applied when the chair has been correctly positioned in the vehicle, they are not an adequate restraining system.

4. Harsh driving can cause many disabled people to slide in their wheelchairs; often they are unable to reposition themselves and this can cause discomfort or even physical damage. It is therefore extremely important to try to avoid hard acceleration, braking or cornering.

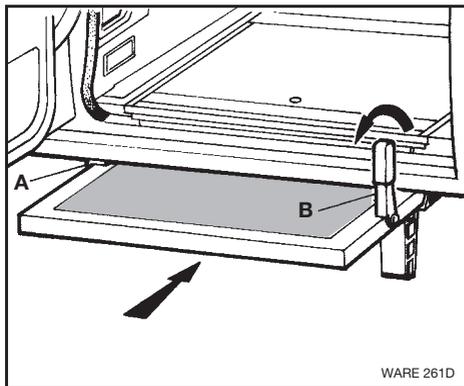
5. To prevent any risk of the wheelchair user falling out of the wheelchair, the wheelchair should only be loaded or unloaded with the passenger facing the vehicle using the left hand door (and ramps as required-see below).

6. Load a wheel chair passenger where the road and kerb are level. It is always preferable to pick up wheel chair passengers at a kerb so that the integral wheel chair ramp may be used without its extension.

CAUTION: *Where there is no kerb, or the kerb height is below 125 mm (5 in.) the ramp extension must be used both to prevent damage to the integral ramp, and to reduce the effort required to load the wheel chair.*

To avoid the risk of the passenger coming into contact with the door aperture etc., never rush the loading process or allow a powered wheel chair to be driven into the vehicle unsupervised.

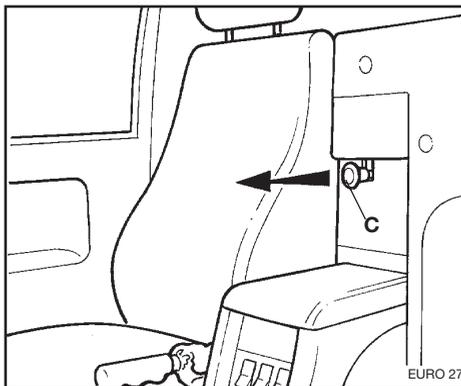
PASSENGER COMPARTMENT - SPECIAL FACILITIES



Additional Step

An additional step is provided and stored in the boot. When it is necessary to help the passenger enter the vehicle, position the vehicle slightly away from the kerb so that the step can be slid into the brackets (A) located on the vehicle chassis below the left hand rear door aperture. Position the door closing stop bracket (B) to the right and in its upright position, before pushing the step fully home into the brackets. When the passenger is seated correctly, pull out the step and store it in the luggage compartment adjacent to the driver, until it is required again at the end of the journey.

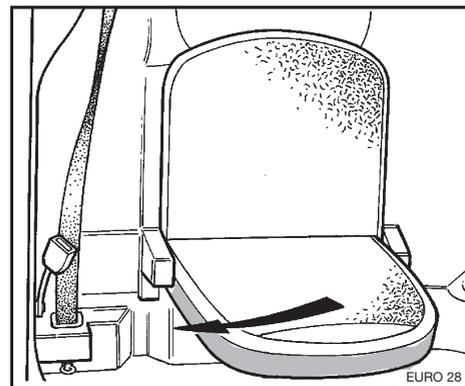
NOTE: Periodically clean and grease the interior faces of the brackets (A) to ensure the step sides readily into position.



Swivel seat and additional step

The fold-down occasional seat fitted to the left hand side of the passenger compartment swivels round into the door aperture to provide improved access for passengers with limited movement. The seat and its passenger can then be swivelled into the vehicle and the seat locked into position. The additional step may also be used in conjunction with the swivel seat as required.

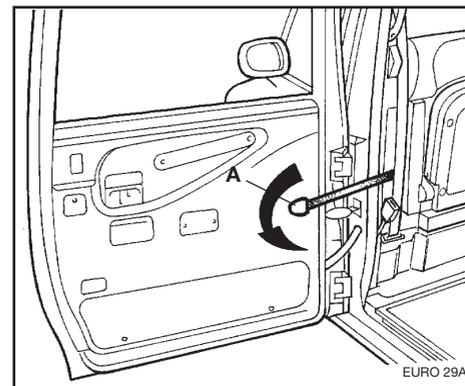
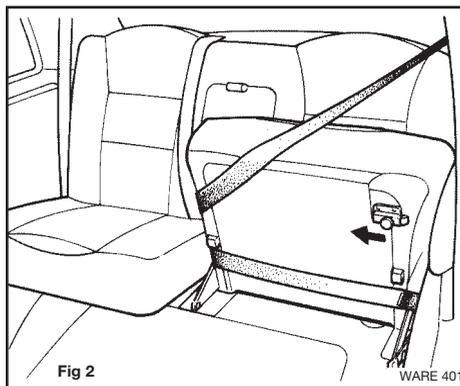
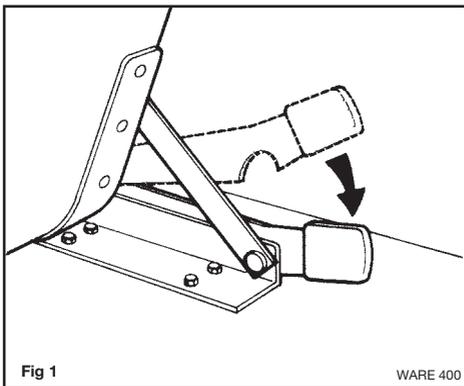
Release the seat by opening both left hand doors before pulling the seat catch knob (C) situated to the front of the centre division. Pull the seat down and round into the door aperture until the cushion locks in the down position and the lock strut stops further rotation. Return the seat a few degrees until a lock stop is felt. The seat is now safe for operation.



Assist the passenger onto the seat. To unlock, swivel both seat and passenger outwards until the strut stop is reached again. The seat and passenger can then be swivelled into the vehicle until the latch engages.

At the end of the journey, release the seat catch and swivel the seat and its passenger into the door aperture until the lock strut stops further rotation. Return the seat a few degrees until a lock stop is felt. The seat is now safe for operation. Assist the passenger to leave the vehicle and return the seat to its normal position, ensuring the seat retaining latch is engaged.

NOTE: The cushion will remain in the down position until the seat is latched back to the division in the travelling position.



Wheelchair installation

Obtain the ramp tool, seat belt extender and wheelchair harness from their storage position in the centre armrest. Where the kerb height is below 125 mm (5 in.) the ramp extension will also be required from the boot. Open the kerb side passenger door, release the catches below each rear seat. Secure the kerbside seat squab in the upright position using the locking lever incorporated into the outboard seat hinges (Fig 1) adjacent to the wheel arches.

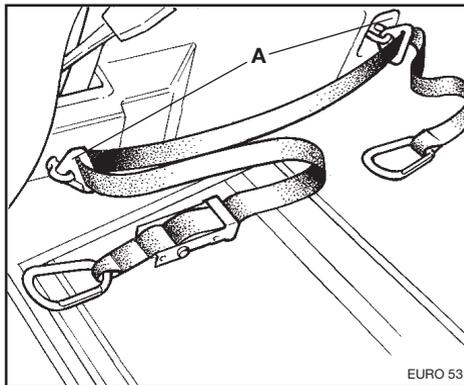
Then secure using the seat belt around the seat base as illustrated (Fig 2).

Note: *Always fasten the seat belt correctly and do not attempt to secure the seat by wrapping the seat belt round the seat catch.*

Now secure drivers side rear seat squab upright using the locking lever as before.

Disengage the door restraint strap end fitting (A) by turning anti-clockwise 90° before pulling it out so that the door may be fully opened.

PASSENGER COMPARTMENT - SPECIAL FACILITIES

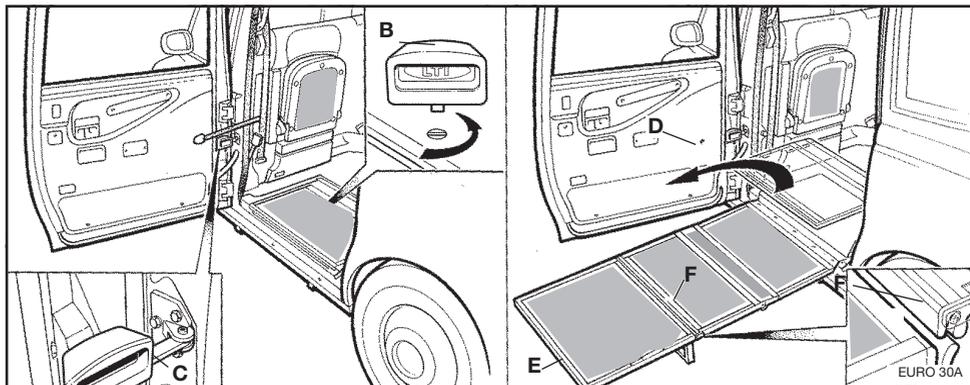


Locate the wheel chair retention strap onto the two eyebolts in the rear division trim. These are positioned either side of the wheel chair position at floor level (A). Ensure tensioning device is nearest the door.

Use the ramp tool provided to undo the flat headed screw (B) securing the integral ramp to the passenger compartment floor.

Locate the ramp tool over the door check strap (C) to prevent the door from closing due to inadvertent external pressure on the door while loading the wheelchair.

Pull the edge of the ramp upwards and out from the vehicle (D) and lay the edge on the kerb, taking care not to raise the edge of the ramp too high to avoid damage to the door trim.



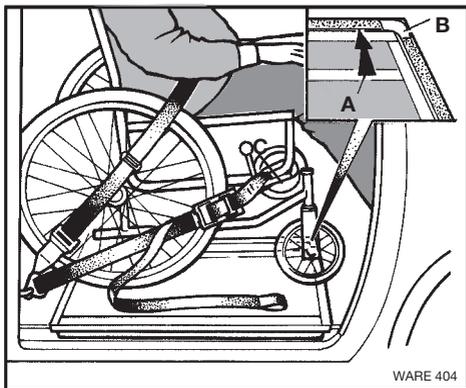
WARNING: The integral ramp must be used in conjunction with the ramp extension (E) when the kerb height is below 125 mm (5 in.). Position the extension as shown in the illustration, approximately 660 mm (26 in.) from and parallel with the door sill, before opening out the integral ramp. Engage the locking edge (F) of the integral ramp into the ramp extension before checking the security of the assembly.

The wheel-chair passenger may now be loaded - take care to check the wheel-chair track is well within the edges of the ramp during the loading process.

WARNING: always carefully push the wheel-chair up into the vehicle, passenger first - never pull the wheel-chair up into position. Never allow a powered wheel-chair to be driven into the vehicle unsupervised.

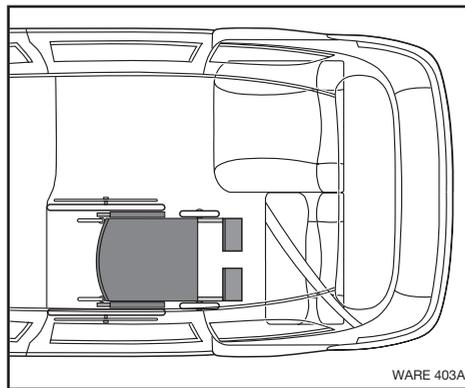
Push the wheel-chair right across the vehicle and apply wheelchair brake. Disengage the locking edge of the ramp extension (where used). Slightly lift the hinge of the integral ramp before folding it into position in the passenger compartment floor. Stow the ramp extension in the boot or luggage compartment.

PASSENGER COMPARTMENT - SPECIAL FACILITIES



CAUTION: To prevent damage to the ramp assembly and the door, always push the ramp fully into its storage tray (A) so that the rubber pads to the inner edge of the tray are covered by the ramp, and the ramp corners are inserted under the retaining plates (B) each side of the tray.

Reverse the wheelchair into its final position indicated in the diagram. Attach the two hooks (C) of the wheel-chair restraint harness to the wheelchair front upright. Attaching the offside snaplink is easier to achieve from the driver's side passenger door. To tension the wheelchair retention straps, open the 'over-centre' catch mechanism and pull down firmly on the loose end of the strap until the wheelchair is held against the centre division. Lock the 'over-centre' catch into its closed position and ensure that there is minimal movement from the wheelchair. If not, then



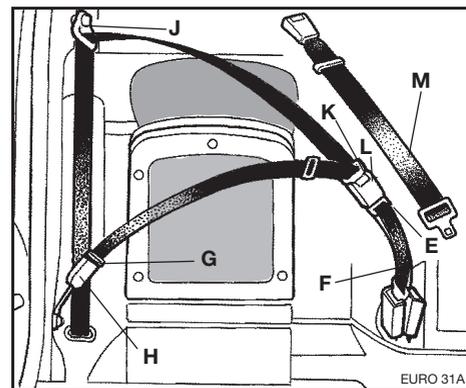
repeat the procedure. If the wheelchair is fitted with a brake, apply it at this stage.

WARNING: It is essential that wheel-chair passenger belt is also fitted.

Seat belts - wheel-chair passenger

The illustrations on this and the following page show the layout of the seat belt when fitted. Fit the tongue on the extender belt (E), (normally stored in the centre console storage box) into the buckle (F) at the bottom of the centre division until a "click" confirms full engagement. Release the fixed end tongue (G) of the main seat belt from its buckle (H) at the bottom of the door pillar.

Pull out the seat belt from its retraction guide (J) on the body pillar and pass it diagonally across the passenger's right shoulder, before threading it through the wheel-chair frame until the sliding tongue (K) can be inserted into the buckle (L) on

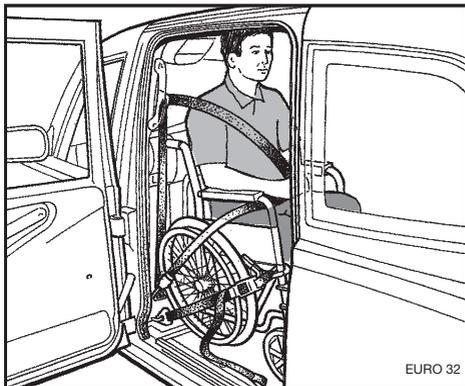


the extender belt. A "click" will confirm full engagement.

If additional belt length around the passenger is required insert the extender belt (M) between the tongue (K) and the buckle (L).

Pass the loose end of the belt across the passenger's hips, threading it through the wheel-chair frame, before inserting the fixed end tongue into its buckle (H). Again, a "click" will confirm full engagement.

CAUTION: Ensure the belt is not twisted and follows a natural path from the retraction guide on the door pillar, across the passenger's right shoulder and through to the extender belt buckle. The remaining part of the belt should pass low over the passenger's hips (never across the soft parts of the abdomen).



Remove the ramp tool from the metal door restraint and close the kerb side door. With regard to passing traffic, open the passenger door on the driver's side so that the passenger's seat cushion may be lowered into its normal position, ensuring the seat catch is engaged correctly. An additional passenger may then use the seat if required.

Disembarking the wheel-chair passenger

Disembark any passenger on the driver's side of the vehicle so that the right hand rear seat may be raised to simplify moving the wheel-chair. Open the left hand passenger door and secure it fully open by positioning the ramp tool over the metal door check strap.

Pull out the integral ramp and position it on the kerb as described previously (use the ramp extension as required). Carefully manoeuvre the wheel-chair passenger backwards out of the vehicle.

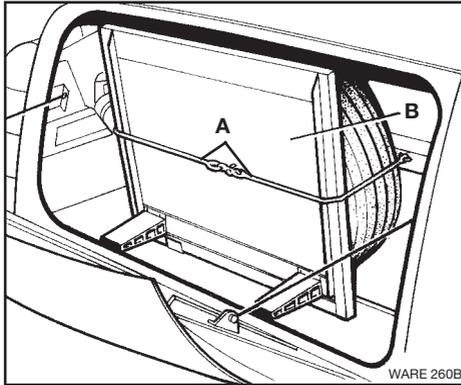
Where the wheelchair ramp extension has been used, store it in the boot securing it with the rubber straps provided. Fold in the integral ramp, ensuring the rubber pads on the inner edge of the tray are covered by the ramp, and the ramp corners are inserted under the retaining plates on each side of the tray, before tightening the ramp securing screw to prevent vibration or damage.

Stow the ramp tool, seat belt extender and wheelchair retention harness in the centre armrest. Lower both seat cushions until each catch is engaged. Refit the door restraint strap into the door trim and close the door.

Pull the shoulder portion of the belt back towards the retraction guide on the body pillar to remove any slack.

WARNING: Always re-check that both the wheel-chair anchorage belt and the wheel chair passenger belts are securely in position before driving the vehicle.

The fixed end tongue (G) should only be removed from its buckle while the wheel-chair passenger is being positioned in the vehicle. When the ignition is switched on an audible warning device behind the glove box will sound whenever the fixed tongue and buckle are separated. The vehicle should never be driven in this condition.



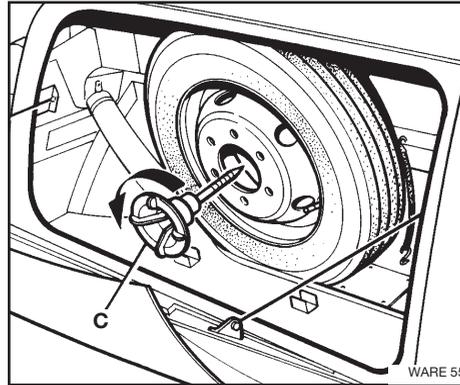
FLAT TYRES

Spare wheel and jack

The spare wheel changing equipment and wheel chocks are stored in the boot. Remove the rubber straps (A) securing the wheel-chair ramp extension/step. Pull the step (B) up out of its locating brackets, before unscrewing the spare wheel retaining bolt (C).

Changing a wheel

WARNING: Do not place any part of your body under the vehicle when it is only supported on the jack supplied. It is dangerous to work under a vehicle supported by a vehicle jack. For repair work under the vehicle, use purpose designed vehicle supports - never use loose blocks of wood or bricks etc.

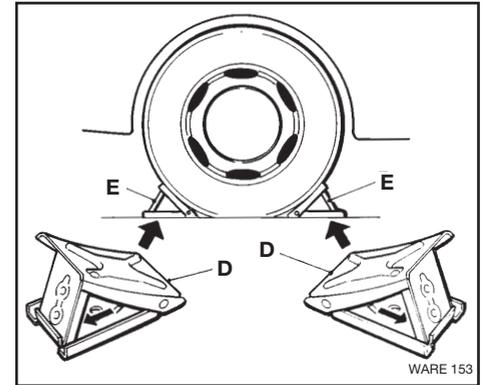


Always use the wheel chocks provided, even on an apparently level surface.

The vehicle jack is designed for use on hard level ground. Where the gradient exceeds 8% or the camber 5.5%, or there is any doubt about the gradient or quality of the ground, the vehicle must be moved to a satisfactory position before any attempt is made to use the jack.

The jack provided is designed specifically for your vehicle. Never use a jack from another vehicle of different specification as it is unlikely to be suitable.

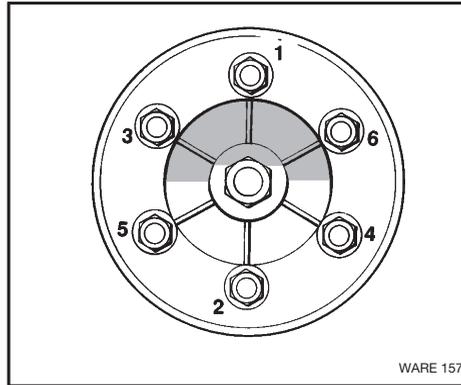
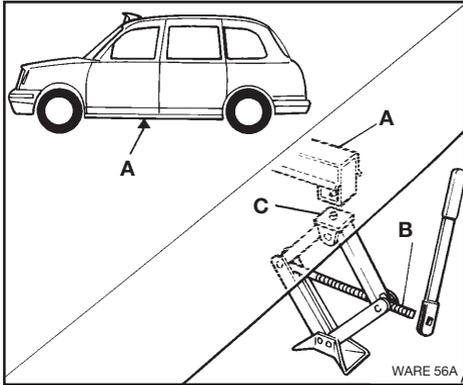
Neglecting the jack may lead to difficulty in a road side emergency. Examine the jack and its ratchet handle every few months and clean and lightly oil them as necessary.



When changing a wheel at the roadside follow the procedure detailed below:

1. Stop the engine, apply the handbrake and switch on the hazard warning lights.
2. Engage 1st or reverse gears (manual transmission) or 'P' - park (automatic transmission)
3. **All occupants must leave the vehicle and all doors should be closed.**
4. Open out and lock the wheel chocks (D). Place them each side of the front wheel (E) on the opposite side to the wheel to be changed.
5. Unscrew the retainer (C) securing the spare wheel in the boot. Take out the spare wheel and position it conveniently close to the wheel to be changed.

EMERGENCY PROCEDURES



6. Pull off the wheel cover using the fingers of two hands in adjacent slots in the cover. Use the wheelbrace to slacken the wheel nuts half a turn (anticlockwise).

7. A jacking bracket (A) is located under each side of the vehicle below, and to the rear of the front door aperture. Locate the jack ratchet handle (it is reversible) on the square end of the jack screw (B) and raise the jack until it reaches the underside of the jacking bracket. Ensure the spigot (C) of the jack is located in the hole in the jacking bracket, before further raising the jack to raise the vehicle sufficiently to allow the fully inflated replacement wheel to be fitted later.

WARNING: Ensure the jack is positioned both vertically and at right angles to the side of the body before lifting the vehicle.

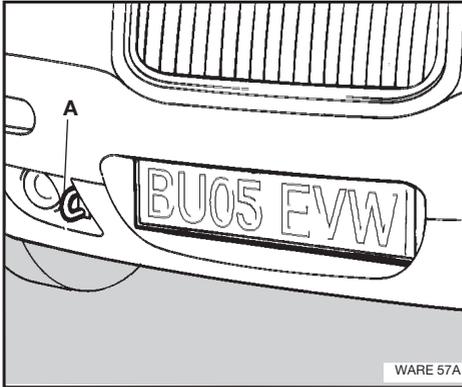
8. Remove the wheel nuts and lift off the wheel.

9. Locate the replacement wheel on the wheel studs and screw on all the wheel nuts so that they correctly locate the wheel, then tighten each wheel as much as possible. Reverse the jack handle and partly lower the jack until it just stops the wheel turning, then tighten the wheel nuts with the wheel brace in the order illustrated. Lower the jack, and fully tighten the wheel nuts as much as possible, again in the order illustrated. Replace the wheel cover, ensuring it is positioned so that the tyre valve can be reached for inflation.

10. Stow the displaced wheel in the luggage compartment using the retaining bolt provided. Replace the jack and ratchet handle, wheelbrace and wheel chocks. Stand the step in its locating brackets before securing it in position with the rubber straps provided.

11. Turn off the hazard warning lights, disengage the gears (manual transmission) and resume your journey.

CAUTION: As soon as practical after any wheel change, the wheel nuts should be tightened at a garage using a torque wrench set to 200 Nm (150 lb ft.)



VEHICLE RECOVERY - PUSHING AND TOWING

Vehicle recovery should always be performed using a vehicle designed for the purpose.

An emergency towing eye (A) is fitted to the front of the vehicle to the right of the number plate. No other parts of the vehicle should be used for emergency towing.

WARNING: *Extended towing of the vehicle with a tow rope, regardless of type, is not recommended. The towing eye is provided for emergency purposes only and should only be used to move the vehicle a few yards so that it is not an obstruction to other traffic.*

When moving the vehicle without the engine running, the normal power assistance to the brake and steering systems is not available. Greater steering and brake pedal effort are required and the braking distance will be substantially extended.

If the vehicle has to be towed or pushed it is essential that the steering lock is released by inserting the ignition key and turning it to position (I) where it should remain while the vehicle is being moved. Never push or tow a vehicle unless a qualified driver is at the controls.

Towing a vehicle with automatic transmission will cause serious damage to the transmission unless the rear wheels are suspended or the propshaft is removed to stop the transmission from rotating.

EMPTY FUEL TANK

If you allow the vehicle to run out of fuel, after replenishing the fuel tank, bleed the fuel system as described in the maintenance section of this book (see - Bleeding air from the fuel system) before attempting to start the engine.

WARNING LIGHTS

Should any of the red warning lights in the instrument cluster come on while the vehicle is being driven it indicates a problem which requires the vehicle to be stopped as soon as is practicable consistent with safety so that the condition may be investigated. The warning lights cover:

Brake system	Electrical charge
Oil pressure	Rear door open

The procedure to be followed is described in the 'Instruments and controls' section of this handbook.

BATTERY

Battery polarity

The electrical installation of the vehicle is NEGATIVE (-) earth return and the correct polarity must be maintained at all times. Reversed polarity will permanently damage the electrical and electronic equipment fitted. Always check any equipment fitted has the correct earth return polarity for installation in the vehicle.



Your vehicle is equipped with a lead/calcium battery. When replacing the battery use only a lead/calcium battery of the type listed by LTI parts. No other battery is to be used. Contact your LTI Dealer or local authority for battery and disposal replacement.

EMERGENCY PROCEDURES

Starting the engine with jump leads

WARNING: Batteries produce combustible gases. Keep sparks, flames and cigarettes away from batteries at all times. Avoid contact with battery acid. In case of eye or skin contact, wash the affected area with clean water and seek medical attention immediately. When handling batteries do not tilt as acid might come out of the ventilation openings. Wear hand and eye protection.

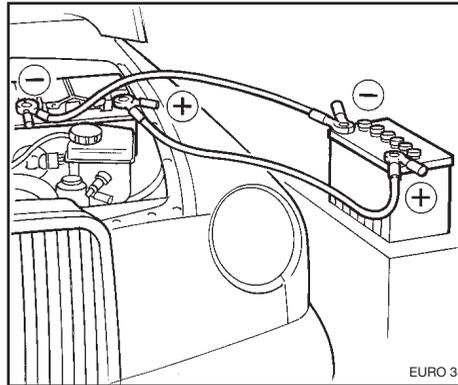
Battery boosting

A high-speed battery charger must never be used as a starting aid.

CAUTION: The following procedure must be observed to avoid the possibility of irreparable damage to the sophisticated electric and electronic equipment fitted to the vehicle. Do not allow the cable terminals to touch either of the vehicles or the other cable terminals. Do not lean over the batteries when jump starting.

Before connecting an additional battery to boost a discharged battery in the vehicle, ensure that:

1. The booster battery is of the same nominal voltage (12 volt) and approximately the same capacity as the vehicle battery. The discharged battery should remain connected and all electrical circuits switched off.
2. The interconnecting cables are of sufficient capacity to carry a starting current (normal car starting jump leads are not adequate).



3. Where the booster battery is fitted to another vehicle, the two vehicles must not be in contact with each other and all electrical circuits on the both vehicles should be switched off.

4. The cables should then be connected one at a time and in the following sequence.

Donor battery + (positive) to discharged battery + (positive)

Connect the second lead to the front lifting eye of your vehicle. On the other vehicle connect it as far away as possible from the battery of the other vehicle (to the engine block or a lifting eye) unless connecting to a stand alone battery.



Do not connect to the negative terminal of the flat battery.

Note: on connection, the vehicle security alarm (where fitted) will operate and should be disarmed using the radio key.

5. Start the engine of the recipient vehicle in the normal manner. Allow the engine to run at just above idle speed (1000-1500 r.p.m.) for a few minutes before carefully disconnecting each lead from the recipient and booster batteries in the reverse sequence:

From discharged battery - (negative) then from donor battery - (negative)

From discharged battery + (positive) then from donor battery + (positive)

Vehicle must be run for 15 minutes before turning engine off

Have the discharged battery and the vehicle charging system checked by your Dealer at the first opportunity.



If the battery has been disconnected the vehicle may exhibit some unusual driving characteristics for approximately 5 miles (8km) after battery reconnection. This is due to the automatic relearning of the engine management system and may be disregarded. The radio must be reprogrammed with the appropriate keycode.



Used batteries contain sulphuric acid and lead. On no account must they be disposed of in the household waste. Use your local authorities dedicated waste disposal facilities.

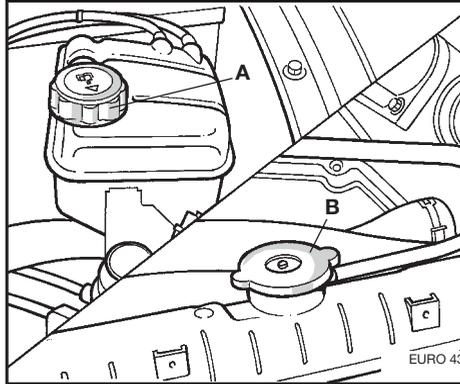
Battery charging

A high speed charger may only be used if the battery has been completely disconnected from the vehicle electrical system. Certain types of low maintenance batteries, for example the lead calcium type, can be damaged by high speed chargers. If in doubt, consult your Dealer. When charging a battery in the vehicle from a trickle charger ensure that:

1. The charger output voltage is the same as the nominal voltage as the battery fitted to the vehicle (12V).
2. The charger + (positive) lead is connected to the + (positive) terminal of the battery, and the charger - (negative) lead is connected to the - (negative) terminal of the battery.

OVERHEATING

WARNING: To avoid injury from escaping steam and scalding coolant, the pressure relief cap (A) of the expansion tank and the radiator cap (B) must not be removed while the system is hot. Particular care must be taken to ensure no loose clothing (a tie, etc.) can get caught in any rotating parts while the bonnet is open.



Move the vehicle off the road, apply the handbrake and hazard lights. Select neutral gear or 'P' park (automatic), apply the handbrake and keep the engine running for a few minutes while you follow the procedure below.

If the charging and brake warning indicator lights are on, the probable cause of the overheating condition will be a broken or loose drive belt causing both the cooling fan and alternator to stop rotating. The engine should be stopped immediately and you should seek assistance to recover the vehicle.

WARNING: The vehicle should not be driven in this condition as it could cause severe loss of oil from the engine with further damage.

If the electrical system charge light remains off, keep the engine running and open the windows. Turn both heater blower motors to their maximum speed, with the heater temperature control to maximum heat and the air conditioning system (where fitted) off.

Carefully open the bonnet (to avoid injury from steam, boiling coolant and rotating parts) and check whether the cooling fan is operating or if there is an immediate sign of a coolant leak. (burst hose or connection etc.)

Where the cooling fan is operating and there is no apparent loss of coolant, allow the engine to idle for a few moments and then stop the engine.

Allow the engine to fully cool down with the bonnet open. If clean water is available, top up the coolant reservoir (see cooling system maintenance) before proceeding to the nearest garage so that the cause of the overheating can be investigated.

If the cooling fan is not operating or there is a serious loss of coolant due from a burst hose or connection, turn off the engine and seek assistance to recover the vehicle.

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London Taxis International recommend the services of their dealers for all maintenance requirements and do not support self repair or Do-it-yourself work. A very limited number of simple service operations are described on later pages but customers are encouraged to visit their authorised dealer for all their needs.

It is strongly recommended that the maintenance operations and replacements scheduled at regular intervals and shown overleaf are carried out by a Recognised Dealer. The maintenance items and replacements recommended by the manufacturer should be supplemented to comply with any mandatory requirements specified in the country where the vehicle is operated.

The basis of LTI Vehicles service schedule for TXII, for vehicles registered from 2005 model year onwards is a 10,000 mile interval. The standard service takes place at the first 10,000 mile interval and the major service at the first 20,000 mile interval. The cycle is repeated at each subsequent 10,000 and 20,000 mile interval.

London Taxis International Limited reserves the right to change their servicing recommendations and maintenance schedules in the light of operating experience. By having you vehicle regularly serviced by recognised Dealers, you will ensure any work carried out is performed in line with the latest recommendations issued by the manufacturer.

Take the advice of your Dealer on the need for more frequent oil changes and additional brake maintenance or any special servicing which may be advisable if the vehicle is operated in dusty conditions or driven hard in dense traffic and subject to high levels of tyre and brake wear.

WARNING: Prolonged and repeated contact with used engine oils may cause serious skin disorders, including dermatitis and cancer. Excessive contact with used oils should be avoided - wash thoroughly after contact.

Many liquids and other substances used in motor vehicles are poisonous and should under no circumstances be consumed, or allowed to come into contact with open wounds. These substances include, among others, antifreeze, brake fluid, fuel, windscreen washer additives, lubricants and adhesives. Keep all such substances out of the reach of children.

Always dispose of used oils and solvents etc. at a Public Waste Disposal facility. Never pour such materials into the public drainage system, or allow them to seep into the soil.

PREVENTATIVE MAINTENANCE

Regular maintenance, together with the use of genuine parts is essential to the continuing economy, safety and reliability of your vehicle. Care and regular maintenance will also prolong the useful life of the vehicle.

MAINTENANCE REQUIREMENTS

EVERY WEEK (or before a long journey)

Check/top up engine oil.
Check/top up brake and clutch fluid reservoirs.
Check/top up cooling system.
Check/top up windscreen washer reservoir.
Check function of exterior lamps, wipers and warning indicators, including rear door motion door lock system.
Check/adjust tyre pressure and condition.
Check tightness of wheel nuts.
If not used daily; check operation of all parts of the wheelchair access and restraint system including all parts of the wheelchair ramp.

SERVICE OPERATIONS CHECKLIST 10,000 miles

DRIVING INTO WORKSHOP

Check operation: central & remote door locking, horn, electric door mirrors & windows, front/rear wash/wipe, heated rear window, instruments/gauges, driving/indicator/reverse/hazard/warning/interior/hire sign lights. (Report condition of wiper blades)

VEHICLE INTERIOR & EXTERIOR

Check condition & operation of all seats, seat belts, fixings & wheelchair occupant access and restraint system. Lubricate door, bonnet & boot hinges, clutch & brake pedal pin. Check headlamp alignment.

ON THE VEHICLE LIFT

Replace the engine oil & filter.
Check/top-up manual gearbox/auto trans oil

except when auto trans oil changed.
Check/top-up rear axle oil.
Check front brake pads and discs for wear.
Front wheels off. Check front brake pads & discs for wear. Check calipers & other related components for leakage, wear, corrosion.
Clean out rear brake drums check brake linings for wear, examine brake mechanism condition & cylinders for leakage (except at first 10,000 miles)
Check/adjust handbrake cable. Lubricate exposed parts of linkage.
Inspect brake hoses/pipes/connectors for security/chafes/leakage.
Check for security/condition/leaks; entire exhaust system.
Check security/condition/torque; propshaft securing bolts, 'U' bolts, suspension & front cross member bushes, steering & suspension ball joints & fixings.
Examine damper units, inc steering damper.
Check/adjust front wheel bearing end float.
Check/correct tyre pressures (inc. spare) & check torque of wheel nuts. Check condition of tyres, including for uneven wear report.
Examine condition of front wheel bearings, regrease or report condition as necessary, set wheel bearing end float (50,000 miles & each 50,000 mile interval thereafter).

IN THE ENGINE COMPARTMENT

Examine the engine compartment for evidence of fuel/oil/coolant leaks & security/wear/damage to hoses connections & pipes.
Check/top-up fluid levels: Coolant, power steering, brake & clutch, screenwash reservoir (using specified fluids or additive). Check coolant concentration.

Fuel filter. Check position of yellow gauge on filter minder. If gauge is in 'Clear Zone' or 'Red Zone', replace element.
Fuel filter. Drain water, if element is not replaced as shown above.
Check condition of auxiliary drive belt.

ROAD TEST

Check engine heater plug system & light operates on start-up.
Check operation of brake fluid level warning light.
Check operation of motion door locking system, lights & LED's.
Check operation of footbrake.
Check operation of manual gearbox & clutch.
Check operation of auto transmission, overdrive lockout switch, starter inhibitor & park lock.
Check exhaust smoke level & engine emissions are within specification & performance is within normal operating limits.
Check operation of steering for possible signs of free play.
Check operation of handbrake. Stop engine & check brake vacuum non return valve.
Check operation of taximeter and associated lights if required.
After driving the vehicle, check/top-up fluid level of automatic transmission while transmission is at operating temperature.
Carry out the service indicator light reset procedure if illuminated.

MAINTENANCE REQUIREMENTS

20,000 MILES

Additional service requirements VEHICLE INTERIOR & EXTERIOR

Check/adjust headlamp alignment.

ON THE VEHICLE LIFT

Replace auto transmission oil
(Every 18,000 miles).

Check/adjust front wheel bearing end float.

Lubricate automatic transmission kickdown
cable and linkage.

Lubricate exposed auto transmission gear shift
mechanism

IN THE ENGINE COMPARTMENT.

Inspect battery terminal condition. Clean and
grease as necessary.

50,000 MILES

Additional service requirements ON THE VEHICLE LIFT

Examine condition of front wheel bearings,
regrease or replace as necessary, set wheel
bearing end float(50,000 miles & each
50,000 mile interval thereafter).

100,000 MILES

Additional service requirements IN THE ENGINE COMPARTMENT.

Replace auxiliary drive belt every 100,000 miles

Every year

Replace air conditioning
receiver dryer and recharge
system (where fitted).

Every 5 years

Drain, flush and refill cooling
system

In addition to the items specified in the routine
service schedule, there are other parts of the
vehicle which require attention for reasons of
safety and reliability that depend on the
operation of the particular vehicle. These are
listed below. Your Dealer will advise you of the
need for this additional work and perform the
service for you at your request.

Every 50,000 miles

Replace front and rear and
steering dampers.

Every 50,000 miles

Check/adjust wheel
alignment.

90,000 miles or
3 years

(whichever occurs
first)

Replace all fluid seals and
flexible brake hoses.

Refill the braking system
with new fluid of the
specified type and bleed the
braking system.

Replace the brake servo air
filter.

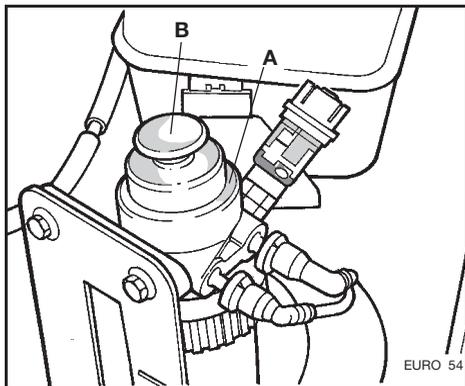
***London Taxis International reserves the right
to alter service and maintenance
requirements specified for vehicles of their
manufacture in the light of operating
experience at any time.***

***Authorised London Taxis International
Dealers are kept up to date with any changes
in servicing and repair requirements which
may be found necessary or desirable.***

CAUTION: If engine power decreases, black exhaust smoke is emitted or engine noise increases, the engine and its fuel injection system equipment require service attention. Such work should be entrusted to an authorized Dealer.

DIESEL FUEL

On no account must diesel fuel be disposed of in the household refuse or public sewage system. Use your local authorised waste disposal facilities.



PRIMING THE FUEL SYSTEM

If for any reason the fuel system has been vented or air has entered the fuel system, this procedure may be followed. If the engine has been allowed to run dry, this procedure may not be sufficient to restart the engine. See warning on following page.

- Open the manual bleed valve on the fuel filter one quarter to half a turn (**A**).
- Attach a suitable hose to the bleed valve and direct it into a suitable container (**B**).
- Pump the hand primer on top of the fuel filter 80 to 100 strokes, until a solid stream of diesel fuel appears for a few strokes.
- Remove the hose and close the manual bleed valve.
- Start the engine.

MAINTENANCE REQUIREMENTS

FUEL TANK EMPTY

Your vehicle is equipped with a system that helps prevent the complete emptying of the fuel tank.



If the fuel gauge indicates low fuel or the low fuel warning light illuminates, please refuel immediately.

Some time after the low fuel level warning light has illuminated, when the fuel reaches a very low level, the engine will start to run unevenly as an additional warning. Proceed to the next filling station and refuel with at least 8 litres of fuel.



Failure to refuel will result in the engine running dry. This will lead to a difficult restarting procedure which requires roadside assistance. **Also, serious engine damage may occur.**

LUBRICATION

Always use high quality oils and greases of the correct specification shown in the table below. The use of incorrect or poor quality lubricants can lead to high oil and fuel consumption, and ultimately may cause damage to components. Engine oils of the correct specification contain additives which disperse the corrosive acids formed in combustion and prevent the formation of sludge which can block oil ways. Additional additives should not be used.

LUBRICANT SPECIFICATIONS

Component Minimum Performance level
& Specification

Engine: Ford specification
WSS-M2C913A/B
Viscosity SAE 5W-30

Manual Ford specification
Gearbox WSD-M2C200-C

Automatic GM Dextron II to D20112
Transmission
and Power
Steering

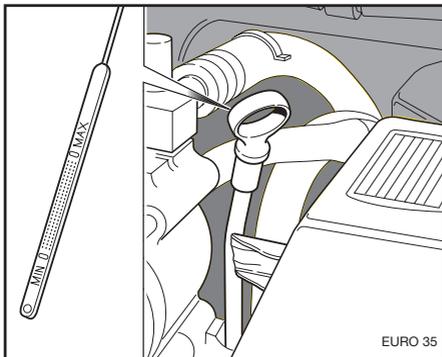
Rear Axle Shell Spirax Super 90TS

Various oil companies produce engine oils that meet WSS-M2C913A/B. The following is not an exhaustive list and is being added to all the time.

Chevron Texaco ETL 09063C
Infinium P5525 (also Chevron Texaco
ETL 09013C)
BPCastrol A00078PBA
Total Fina Elf XT4730A
ExxonMobil EL 15971
Ford Motorcraft Formula E 5W-30 - Europe
Texaco Havoline Energy 5W-30
Texaco Havoline Formula 3 Energy 5W-30
Castrol Performance A1 5W-30
Castrol TXT Softec Plus A1 5W-30

BP Visco 5000 FE 5W-30
Duckhams QXR Premium 5W-30
Elf Elite FC 5W-30
Esso Ultra (913+) 5W-30
Mobil Super FE Special 5W-30
Valvoline Durablend 5W-30
Shell Helix F 5W-30
Motul 6100 FD 913 5W-30
Motul Specific Ford 913-B (Germany)
Q8 Formula Techno 5W-30
AGIP Formula LL SO 5W-30
Halfords 5W-30 'Suitable for all modern Fords' (UK)

MAINTENANCE REQUIREMENTS



ENGINE OIL LEVEL CHECK

The oil consumption of your engine is influenced by many factors. New engines reach the normal value only after approximately 3,000 miles (5,000 km). Diesel turbocharged and high performance engines consume slightly more than engines of lesser performance. Under high loads, high vehicle speeds and extended idling your engine will also consume more oil.

Check the engine oil every week and when refuelling or prior to long journeys. Make sure the vehicle is standing on level ground. Switch the ignition off and wait some minutes for the engine oil to flow back into the sump (in cold outside temperatures or when the engine has not reached operating temperature this might take longer). A cold engine should not be started before checking the engine oil. Pull the dipstick out, wipe it with a clean, non-fluffy cloth, re-insert it completely and pull it out once more.

If the level lies between the marks, there is no need to refill. Hot oil may exceed the MAX mark by some millimetres due to thermal expansion. If the level is at the MIN mark, refill using only engine oil meeting the correct specification. Approximately 2.0 litres of engine oil will raise the level of the oil film on the dipstick from the MIN to the MAX mark. Top up to only the upper mark (MAX). For further details, refer to the chapter General Information.

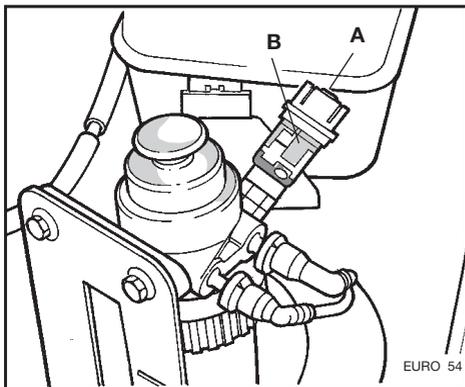
ENGINE OIL FILLER CAP

To open, turn in the direction of the arrow and pull. Do not open the cap while the engine is running.

Do not use oil additives or other engine treatments. They are unnecessary and could, under certain conditions, lead to engine damage which is not covered by the London Taxis International warranty.

To close, turn the cap clockwise until it clicks. (Empty and used oil containers must not be disposed of in the household refuse waste. Use your local authorised waste disposal facilities when disposing of these).

MAINTENANCE REQUIREMENTS

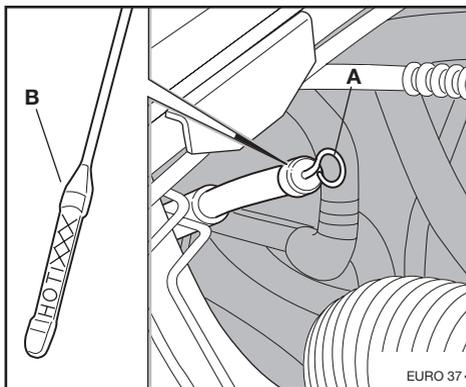


- If the service indicator lies in the red area, the filter must be replaced immediately. Please contact your London Taxis International Dealer.

FUEL FILTER SERVICE INDICATOR (Where fitted)

Every time you check the engine oil level, check that the fuel filter is not obstructed in the following way.

- Switch off the ignition to stop the engine.
- Press the yellow button **(A)** on the service indicator and hold for three seconds.
- Start the engine and let it run for five seconds then fully apply the accelerator pedal for three seconds.
- Check the service indicator. If it is in the green area **(B)**, there is no need to change the filter at this time. If it lies in the clear area, the filter should be replaced at the next service interval.



AUTOMATIC TRANSMISSION

Fluid level

The transmission fluid should be at normal operating temperature with the vehicle standing level. Start the engine with the handbrake and footbrake applied. Run the engine for 2 to 3 minutes at idle speed, passing the selector lever through the complete range of positions two or three times, pausing for about 10 seconds in each position to ensure the transmission is fully primed.

Select 'P' (Park) position and keep the handbrake applied. Leave the engine running at idle speed, remove the dipstick (A) which is situated to the right hand side of the engine adjacent to the engine compartment rear bulkhead, and wipe it clean with a clean paper wiper. Reinsert the dipstick all the way being careful to insert it in a position to allow it to manoeuvre the bend in the dipstick tube.

Remove the dipstick again and check the fluid level, which should be in the cross lined sector (B) marked on the 'HOT' side of the dipstick. If the level is near the low end of the sector, add small amounts of fluid of the correct specification through the dipstick tube until the level is to the high mark. Do not fill above the top of the cross hatched sector marked on the dipstick.

Parking pawl engagement check.

With the vehicle standing level, switch off the engine, release the handbrake and move the selector lever to 'P' (park). Attempt to push the vehicle forwards and backwards; the vehicle should not move. Consult your LTI Dealer if the vehicle moves.

WARNING: *You will be checking the fluid with the engine running. Take great care to avoid the turning drive belt and pulleys. Stop the engine immediately when you have completed the level check. Any fluid replenishment must be carried out with the engine stopped.*

STEERING AND SUSPENSION

The steering linkage and suspension require no routine maintenance in service but should be examined at regular intervals by an authorised London Taxis International dealer to check the condition and security of the rear axle 'U' bolts, suspension and front crossmember fixings, and the steering and suspension ball joints and bushes.

Front wheel alignment should be checked at the regular specified distances or at any time if the front tyres show any signs of abnormal wear.

Front, rear and steering dampers should be replaced at 36,000 mile intervals. The front wheel bearings should also be examined, re-greased or replaced as necessary at the same mileage.

MAINTENANCE REQUIREMENTS

CLUTCH AND BRAKE HYDRAULIC SYSTEMS

Brake and clutch fluids

Always use brake fluid which complies with the specification FMVSS 116 DOT 4 to top up the clutch and braking system reservoirs. Never use any other type of brake fluid for this purpose. Brake fluid performance deteriorates in service.

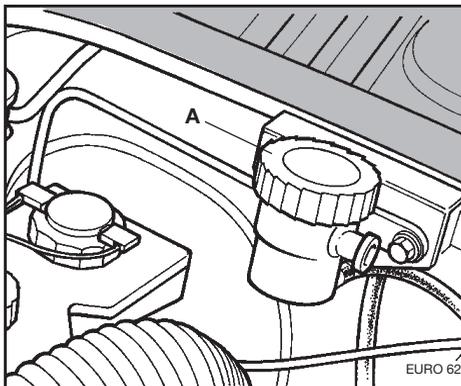
- Never leave brake fluid in unsealed containers as it absorbs water quickly and can be dangerous if used in a braking system in this condition.
- Fluid drained from the brake and clutch systems should always be discarded safely.
- The necessity for absolute cleanliness in handling brake fluid and components cannot be over-emphasised.

CAUTION: Brake fluid will damage paint work.

Clutch fluid reservoir

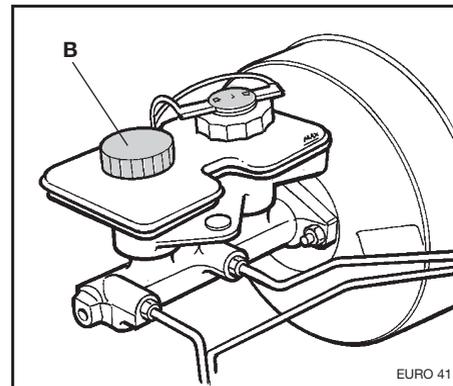
Wipe the reservoir body clean and check the clutch fluid is to the level marked on the side of the reservoir body.

If additional fluid is required, remove the cap (A), remove the anti surge cup from inside the reservoir and top up to the fluid mark on the reservoir body. Replace the anti-surge cup and check the vent hole in the cap is clear before replacing the cap.



Brake fluid reservoir

Wipe the reservoir body clean and check the brake fluid level relative to the 'max' and 'min' marks on the side of the reservoir body. If the level is below the 'max' mark, remove the reservoir cap (B) and top up the reservoir with new brake fluid of the correct specification. The brake fluid level will drop in service as the brake pads and shoes wear. Any substantial loss of fluid should be investigated in case of a possible leak in the brake hydraulic system.



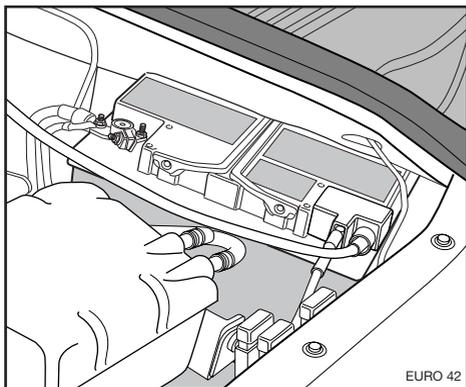
Brake and clutch system maintenance

Under normal conditions brake fluid should be changed completely every 81,000 miles or 3 years (whichever occurs first). Where the vehicle is frequently subjected to severe hilly operating conditions, involving heavy braking over prolonged periods, the brake fluid should be replaced each year.

All fluid seals in the hydraulic system and all flexible brake hoses should be renewed at 81,000 miles or 3 years (whichever occurs first).

At the same time the working surfaces of the pistons and bores of the master cylinder, front calipers and rear wheel cylinders should be examined and new parts fitted where necessary.

MAINTENANCE REQUIREMENTS



BATTERY

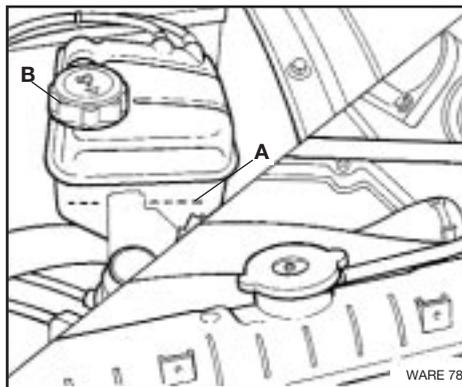
A maintenance free battery is fitted. For all matters concerning battery operation consult your authorised London Taxis International Dealer.



Your vehicle is equipped with a lead/calcium battery. When replacing the battery use only a lead/calcium battery of the type listed by LTI parts. No other battery is to be used. Contact your LTI Dealer or local authority for battery and disposal replacement.

Cleaning battery terminals.

From time to time the battery terminals should be cleaned. With the ignition switch off, unclamp and pull off the terminals (remove the earth (black) terminal first. Clean the terminals, apply petroleum grease, and replace and tighten the terminal clamps (earth terminal last). Reset the vehicle time clock.



CAUTION: Never disconnect the battery from the vehicle if the engine is running as this could cause severe damage to the electrical system.

Note: on connection, the vehicle security system alarm (where fitted) will operate and should be disarmed using the remote key or key pad.

COOLING SYSTEM

WARNING: To avoid injury from escaping steam and scalding water, the radiator cap and the pressure relief cap of the expansion tank must not be removed while the system is hot.

Topping up

The coolant level should be checked when the engine is cold. The coolant level should then be at the mark half way down the side of the expansion tank (A). If necessary slowly remove the pressure relief cap (B) from the expansion

tank and add the specified coolant to bring the fluid level up to the mark.

Clean water may be used temporarily if coolant containing the specified antifreeze corrosion inhibitor (see below) is not available. Do not overfill the expansion tank as this will result in coolant loss through the overflow pipe as the coolant expands with increasing engine temperature.

CAUTION: The cap fitted to the radiator is not a pressure cap. It must never be replaced with a pressure cap of any type.

MAINTENANCE REQUIREMENTS

Frost and corrosion precautions

In production your vehicle was filled with an antifreeze solution to minimise internal corrosion in the engine cooling and heater systems, and to provide protection against frost damage.

Because of the different materials used in the engine and cooling system components, to prevent corrosion it is essential that only Super Plus 2000 antifreeze solution is used in service.

This is a long life coolant and the cooling system should be drained, flushed through and refilled with new antifreeze solution every 5 years.

Follow the instructions given on the antifreeze container to determine the mixing ratio of antifreeze to water to be used for the lowest anticipated temperature which may be anticipated (a minimum of 50% by volume is recommended).

Have your Dealer check the specific gravity of the antifreeze solution every year sometime before winter conditions are likely to be experienced. The overall concentration of antifreeze should not fall below 50% by volume. The approximate quantities of antifreeze required are shown in the table below.

CAUTION: *To protect the engine and cooling system components from corrosion, antifreeze solution should always be used in the cooling system even when ambient temperatures are such that freezing conditions are not normally experienced.*

Never use antifreeze solution in the windscreen washer systems

Coolant Specification to WSS-M97B 44D

TYRES

Special 'taxi' tyres are fitted in production and should always be fitted as replacements. Cross ply and remoulded tyres should not be used. The tyre pressures should be checked each week (including the spare) when the tyres are cold. The recommended tyre pressures are:

Front 35 psi (2.4 bar)
Rear 40 psi (2.7 bar)

See tyre size, type and rating on general information page.

The condition of the tyres should also be checked each week for any sign of damage, foreign material, or deterioration which could affect the operation of the vehicle.

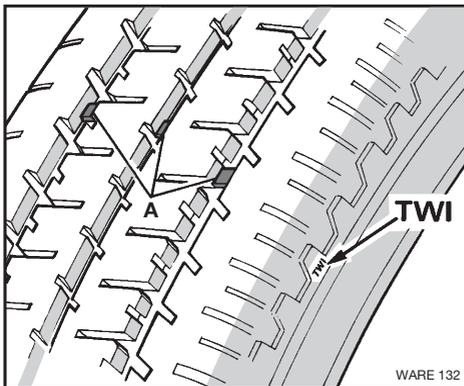
WARNING: *Driving with tyres incorrectly inflated can be hazardous and causes rapid tyre wear and possible permanent damage to the tyre casing.*

Valves and valve caps.

Valve caps should be fitted back after checking tyre pressures as they prevent the entry of dirt and water into the valves and form an additional air seal.

Solution %	Amount of anti-freeze		Commences freezing		Frozen solid	
	Litres	Pints	°C	°F	°C	°F
50	5.25	9.25	-36	-33	-48	-53

MAINTENANCE REQUIREMENTS



Tyre care and wear

The tyres should be checked frequently for damage or wear. The greater the depth of tread, the greater the water clearing properties of the tyre, resulting in increased levels of grip.

In many markets the maximum wear levels are subject to legal requirements. Where no such local regulations exist, it is recommended that tyre tread depth should never be allowed to fall below 1.6 mm.

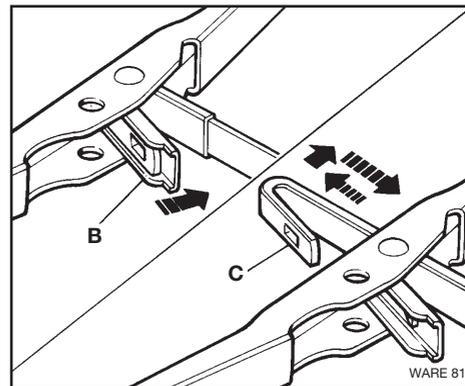
The tyres incorporate raised bars across the bottom of the treads to indicate tyre wear (A), the positions of which are marked 'TWI' round the shoulder of the tyre at regular intervals. These bars become flush with the tyre surface when there is approximately 1.6 mm of tread remaining and the tyres are at their wear limit.

Excessive local damage may result from striking a kerb, hitting an obstruction or deep pot hole, each of which can seriously affect the tyre casing. Such damage will normally be visible following careful examination of the tyre tread and wheels.

Incorrect wheel alignment resulting from kerbing or hitting an obstruction etc. may result in an uneven wear pattern across the tread pattern and around the whole tyre circumference. Where this is suspected, the wheel alignment should be checked by your Dealer.

Flints, sharp stones and other sharp objects should be carefully removed from the tyre tread using a penknife or similar tool. If neglected, they may work through the tyre.

Any oil or grease which gets on to the tyres should be cleaned off using petrol sparingly (take care when disposing of the cloth used as it will be highly inflammable). Do not use paraffin (kerosene) which has a detrimental effect on rubber.



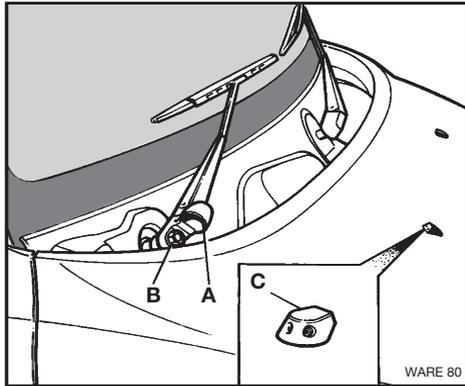
WINDSCREEN WIPERS AND WASHERS

Wiper blades

Windscreen wiper blades should be replaced at regular intervals or if they become damaged by the action of road dirt and salt. Never use the wipers to clear frozen snow or ice from the windscreen as this will damage the lips of the blade and adversely affect the wiping performance.

To replace the blade, pull the wiper away from the windscreen, press the spring (B) inwards and push the wiper blade hook (C) from the arm. Withdraw the blade and fit a new blade following the reverse procedure.

MAINTENANCE REQUIREMENTS



Front wipers arms

The front wiper arms should be positioned so that in the parked position the blades lie horizontal and parallel with the lower edge of the windscreen. If required, the arms may be repositioned or replaced by pulling back the spindle covers (A) and undoing the retaining nuts (B) after which the arms may be eased off their spindles.

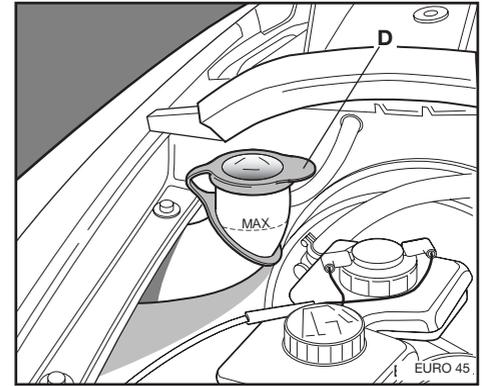
Note: *The position of the wiper arms should only be altered when the wipers have first been 'parked' on a wet screen and the wiper motor and ignition have been switched off.*

When replacing the arms it is essential to position them on the splined spindles so that they lie in their correct position on the windscreen. Do not overtighten the retaining nuts and replace the spindle covers.

The washer jets (C) may be adjusted by inserting a thin needle into the washer orifice so that the jet may be swivelled into the required position. The windscreen washer jets should hit the windscreen at the highest point of the windscreen wiper blade arc.

Rear wiper arm

The arm may be replaced by following the same procedure as the front wipers. When parked on a wet screen, the wiper arm should be positioned horizontal and parallel with the lower edge of the rear window.



Windscreen washers

The reservoir for the front and rear washers is situated inside the right hand front wing.

Remove the cap (D) as required to replenish the washer fluid. To obtain the best results, always use screen washer additive mixed with clean tap water to the concentration recommended by the additive manufacturer.

CAUTION: *Never use antifreeze solution in the windscreen washer system.*

Bottle capacity 3.8l (indicated by 'max' line on bottle neck). The low level warning light will illuminate when a level of 1.4l remains.

MAINTENANCE REQUIREMENTS

BODY LUBRICATION

Locks hinges and catches

Inject a small quantity of thin oil through the front door and boot lock key slots.

CAUTION: *Never lubricate the steering lock.*

Apply light oil to the moving parts of the door, bonnet, and boot hinges. Grease the bonnet release mechanism and safety catch.

Jack

Occasionally remove the jack and check its operation. Apply grease to the jack screw to ensure it will operate correctly when required.

BODY CARE AND CLEANING

London Taxis International Dealers carry a wide range of vehicle care products which have been chosen because of their excellent performance in maintaining the appearance of the vehicle in service.

Interior

- Regularly vacuum or brush off the seats. Clean stubborn marks with diluted upholstery cleaner following the instructions on the container. Avoid a rubbing action when cleaning upholstery.
- Clean seat belts by sponging with warm water, using a non detergent soap. Never use cleaners incorporating bleaches, dye chemical cleaners or detergents on seat belts as this will affect their performance characteristics adversely. Allow seat belts to dry naturally.
- Clean carpets with a brush or vacuum cleaner. Occasionally clean carpets with diluted upholstery cleaner. Rubber mats should be cleaned with water.

- Clean the windows with a clean soft cloth and glass cleaner, or chamois leather. The rear screen should always be cleaned with care. To avoid damage to the heating elements, cleaning should be in line with and not across the heating wires.
- Clean the acrylic screen of the centre division with a dilute solution of liquid dish washing soap. Do not use glass cleaners on acrylic surfaces.
- Clean trim panels with a soft damp cloth. Remove stubborn marks with facia and bumper cleaner.

MAINTENANCE REQUIREMENTS

Exterior

Great care is taken in production to use processes and materials which minimise the effects of corrosion.

However, there are a wide range of possible causes of damage to the painted surfaces which are not the responsibility of the manufacturer. These include stone and gravel impact, natural and industrial fall out such as bird droppings and tree sap, road debris, oil, tar and salt used for de-icing roads etc. all of which can cause paint and body damage to your vehicle.

The detrimental effects of body damage can be reduced by simple care and attention as suggested below:

- Regularly wash the body work and wheel trims with a soft sponge and plenty of water using a good quality 'wax and wash' shampoo. Never use dish washing detergents or household cleaning fluids as they may damage the paint finish.

When the vehicle is particularly dirty, before starting detailed cleaning, carefully wash off any excess dirt and grit with a hose or watering can to prevent scratching the paint surface finish.

CAUTION: *High pressure washing equipment (particularly when the water jet is applied close to the vehicle) can damage parts of the vehicle and cause permanent leaks due to the distortion of seals.*

Care should be taken to avoid directing the water jet on the following areas of the vehicle:

*Wheel hubs and all braking system components and handbrake cables
Fuel filler cap and seal
Exhaust system and outlet
Door and body seals, seams and grommets, including the lights and hire sign*

Steam cleaning is not recommended as this can affect the underbody protection and other components.

When necessary, hot pressure washing with a maximum temperature of 40°C and 80 p.s.i (55 bars), should be used to clean the underside of the vehicle.

- Use a proprietary car polish from time to time to retain the appearance and lustre of the paint work. Use a high quality wax polish every month to protect and increase the scratch resistance of the paint finish.

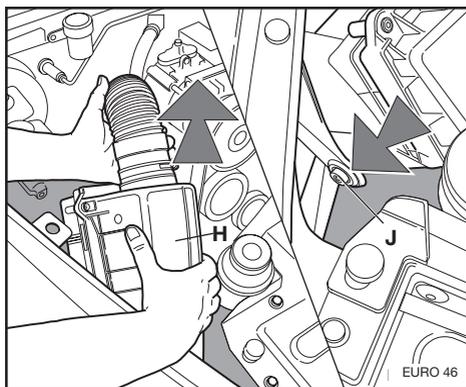
Note: *scratch marks always tend to be more visible on dark coloured vehicles and regular wax polishing will help to retain the paint lustre.*

The headlight lenses are made of acrylic material. Use a good quality 'wax and wash' shampoo to clean the headlights. Do not use glass cleaners on acrylic surfaces, particularly the interior partition glazing.

- Remove salts, road oil and tar, tree sap and bird droppings etc. and other damaging materials as soon as possible to prevent them from damaging the painted surfaces (use petrol or white spirit to remove tar from paint work).
- Promptly repair and touch up any damage due to minor scratches and stone chipping etc.
- Ensure any accident repair work is performed by (or arranged through) an LTI Dealer so that the manufacturer's recommended repair procedures, corrosion protection materials and genuine LTI parts are always used.
- Use LTI glass cleaner to remove windscreen smears. Clean the front and rear bumpers using LTI fascia and bumper cleaner.

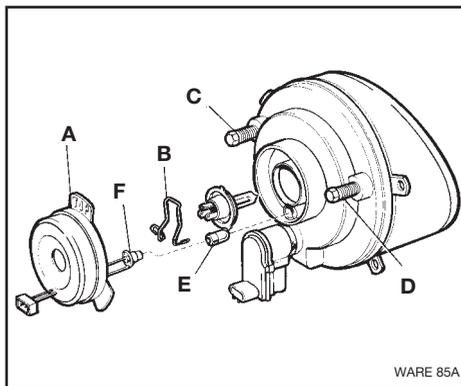
This section of the handbook covers the replacement of bulbs which are readily accessible to the operator. Other bulbs on the vehicle are best replaced by your Dealer. A full list of all bulbs used on the vehicle is shown at the end of this section.

REPLACEMENT OF BULBS AND FUSES



Headlight and side light bulbs

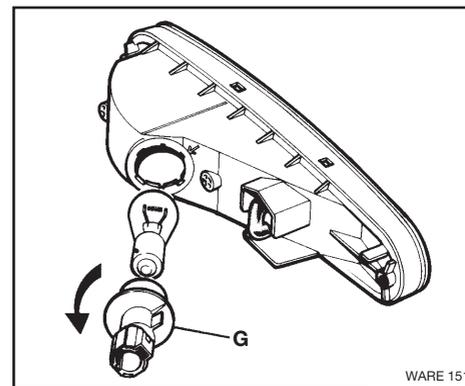
To replace the offside headlight and side light bulbs it is necessary to first remove the air cleaner filter housing (**H**). Hold the cleaner by its hose and filter housing as pictured and move sharply upwards. This will free the housing allowing free access to the headlight assembly. After replacing the bulb re-attach the filter housing by first locating the spigot (**J**). At the front of the filter housing manoeuvre the filter housing until it connects with the spigot and re-engage by pushing the unit down onto the rear mountings until a sharp click is heard and felt. The headlamp bulbs are reached from within the engine compartment. Pull the headlamp bulb connector from the back of the headlight unit and carefully ease back the rubber seal (**A**) from the rear of the lamp and along the side lamp lead. Press in the 'legs' of the headlamp bulb retaining spring (**B**) to release the bulb.



Do not touch the glass of the new bulb (if touched it should be cleaned with metholated spirit before fitting).

Replace the bulb (it will fit only one way round) and refit the retaining spring, positioning the 'legs' of the spring under the lugs of the headlight bulb recess. Carefully slide the rubber seal down the side light lead and replace it in position on the headlight body.

The headlights should normally be aligned and set 0.75° below horizontal by your Dealer with the headlamp height adjustment switch set at its highest position. Vertical and horizontal adjustment is achieved by means of the screws (**C**) and (**D**).

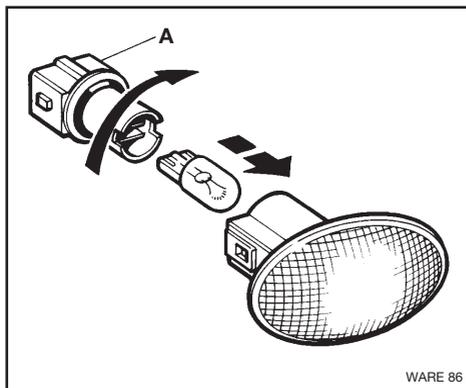


The side light bulbs (**E**) are incorporated into the headlights and may be replaced by initially following the procedure for headlight bulb replacement. When the rear seal has been pulled back, pull the side lamp holder (**F**) from its socket in the rear of the light unit. The bulb is a bayonet fitting in the bulb holder.

Front Indicators

The bulb holder is reached from the back of the light behind the front bumper. Turn the bulb holder (**G**) anti-clockwise to remove it from the back of the lamp. The bulb is a bayonet fitting in the holder.

REPLACEMENT OF BULBS AND FUSES

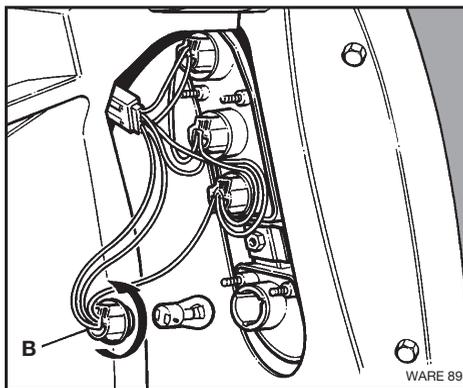


Side indicator repeaters

The bulb holder is a bayonet fitting in the side indicator and may be reached from the back of the front wing panel. Remove the bulb holder (A) before removing the bulb which is a push fit in the holder. Replace the bulb in its holder before re-inserting it in the light unit.

Rear light cluster- bulb replacement

The rear, brake, reversing and fog light bulbs may all be replaced from the front of the light which can be reached from within the boot. The required bulb holder (B) should be turned anti-clockwise to release it from the front of the rear light cluster and to give access to the bulb. Each bulb is a bayonet fixing in its bulb holder. Reverse the procedure to replace the bulb and bulb holder.

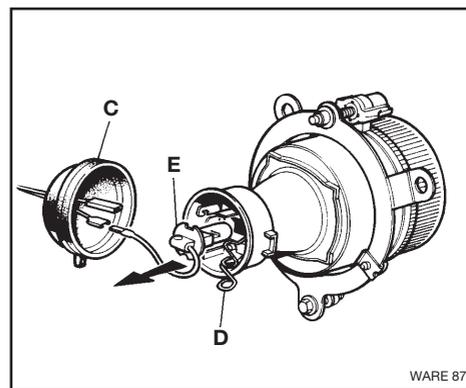


Note: The bottom bulb (rear and fog) is a double filament bulb with offset pins. The wiring to each bulb should emerge from the bottom of its bulb holder when it is fully tightened.

Front fog lights

The bulb is replaced from behind the front bumper. Carefully ease back the rubber boot (C) from the lamp housing and disconnect the bulb wiring. Disconnect the wire clips (D) to release the bulb, its holder and wiring (E).

Note: The bulb holder has a square recess on one edge so that it can only be re-fitted in one position.

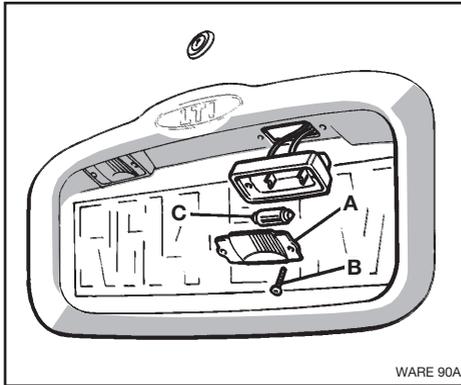


Do not touch the glass of the new bulb (if touched it should be cleaned with methylated spirit before fitting).

Replace the bulb and holder, secure it with the clips and re-connect the lead. Carefully refit the rubber boot to the back of the lamp housing ensuring its drain tube is to the bottom.

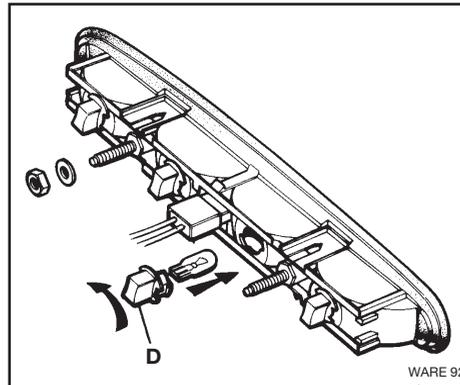
Fog lamp alignment should be carried out by your Dealer.

REPLACEMENT OF BULBS AND FUSES



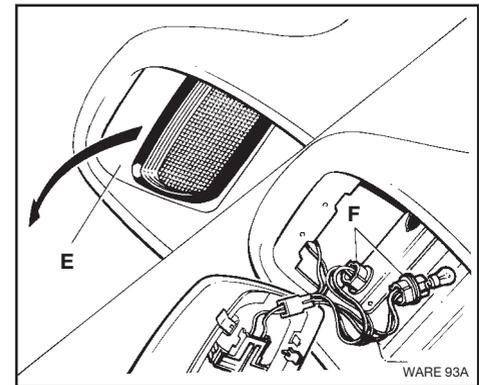
Number plate light - bulb replacement

Note the position of the light lens (A). Unscrew the two screws (B) securing the lens. Pull the lamp base out from the number plate plinth to gain access to the festoon bulb (C) and pull out the bulb from its connector clips. Replace the bulb and then the lens, ensuring it is in its original position before securing the light unit back into in the number plate plinth.



High stop light - bulb replacement

Note the location of the defective bulb. Remove the intercom speaker and grille to give access to the rear of the lamp unit. Remove the holder (D) and defective bulb by twisting it anticlockwise. Pull the defective bulb from its holder. Replace by following the reverse of the above procedure.

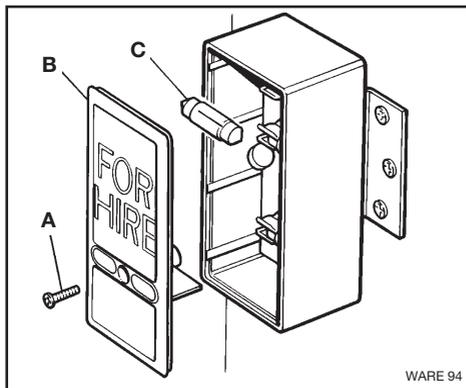


Hire sign light - bulb replacement

Pull down the back edge of the driver's interior light (E) from the roof console to gain access to the taxi sign bulbs. The required bulb holder (F) should be turned anti-clockwise to release it from the hire sign body. Each bulb is a bayonet fitting in its bulb holder.

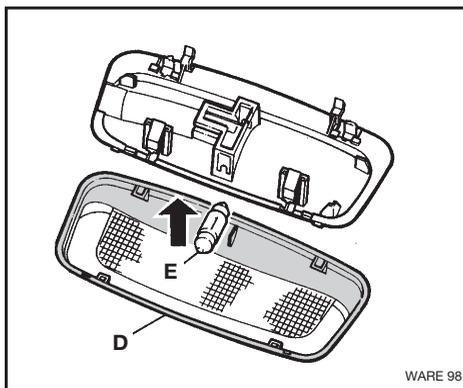
Replace the defective bulb and install the bulb holder in the hire sign body. Position the lugs at the front of the interior light above the edge of the centre console trim before clipping the light unit into place.

REPLACEMENT OF BULBS AND FUSES



Hire sign repeater bulbs

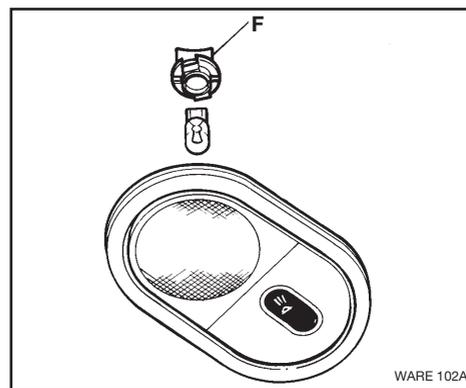
The festoon type bulbs may be replaced by removing the screw (A) securing the light box lens unit (B) and pulling out the defective bulb (C) from its clips.



Interior lights

Carefully pull the wider edge of the lens surround (D) down from the light unit to give access to the festoon bulb (E). Pull the festoon bulb down from its clips.

After fitting the new bulb, reposition the narrower edge of the lens surround into position in the lamp body before clipping the lens back into position.

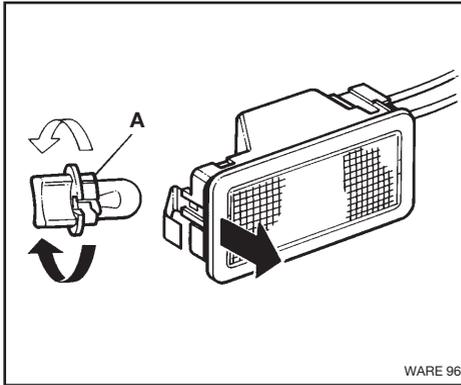


Reading lights - bulb replacement

Use a flat blade to ease the edge of the reading light assembly away from the quarter trim to gain access to the rear of the unit.

Twist the bulb holder (F) anti-clockwise (bayonet fitting) to release the bulb and holder assembly. Fit a new bulb and holder assembly and carefully clip the light assembly back into position.

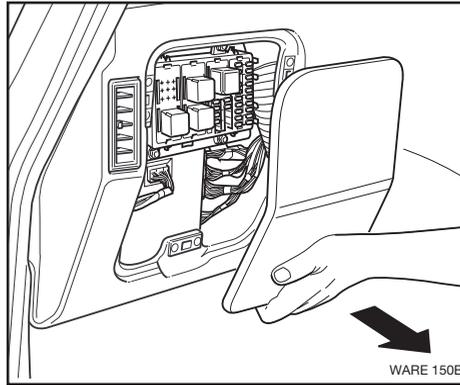
REPLACEMENT OF BULBS AND FUSES



Courtesy, fare illumination, puddle, facia, and boot lights

Carefully ease the unit from the trim with a flat blade - one end of the light unit is fitted with a spring clip which will allow the light unit to be pulled out from the trim without undue effort.

The bulb holder (**A**) is a bayonet fitting in the light unit and should be turned anti-clockwise to give access to the bulb. Pull out the bulb from its holder. Replace the bulb and its holder and refit the light unit, engaging the end opposite the spring clip in the panel before clipping it into position.

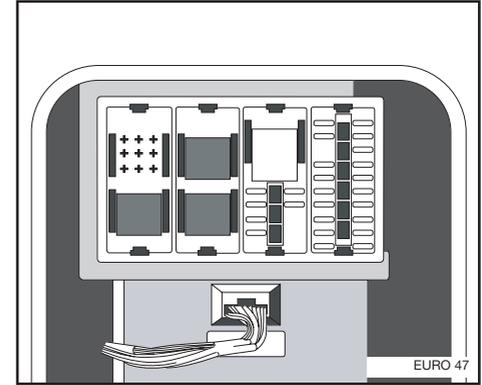


Fuse box access

If any electrical equipment fails to operate, check for a blown fuse. However, the vehicle also contains other forms of electrical protection for components and circuitry. In cases where the system detects a fault the relevant circuit may be momentarily shut down while the circuit protection recovers. Until the fault is rectified the components in that circuit may continue to operate intermittently.

The fuse box and electrical relay access cover must be removed to gain access to the fuses which are situated behind the cover.

Open the left hand front door. Place fingers in grip at bottom of access cover and pull rearward to remove access cover. Replace the access cover by aligning the three locating pegs and firmly push into place. Do not use excessive force.

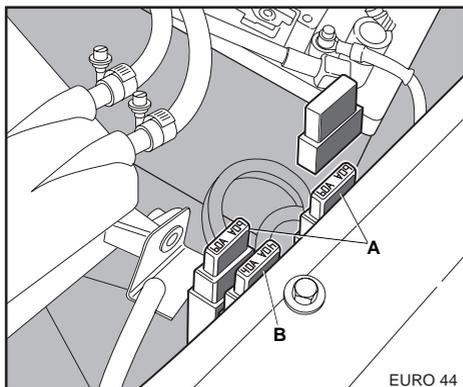


Fuse Box and fuses

The fuse box, and the majority of relays and electronic control units are located behind the fuse box and electrical relay access cover. The position, rating and circuits covered by each fuse are shown on a label located on the reverse of the cover and also as shown in the illustration overleaf.

CAUTION: *Never continue to operate the vehicle if it is suspected of having an electrical failure.*

REPLACEMENT OF BULBS AND FUSES



Maxi Fuses

There are three high rate 'maxi' fuses located under the bonnet near the battery. Two of these (A) (Ignition and Battery) protect the entire fused part of the vehicle, and one (B) (Glow Plugs) protects a single very heavy current circuit. If any of these three fuses 'blows' this may indicate a serious concern and we advise you to take your vehicle to an authorised London Taxis International Dealer immediately. Each fuse is marked with its fuse rating and should be pulled directly out of position for examination. If the fuse wire has broken, fit a replacement with the same rating. When replacing a fuse, turn off the switch controlling the equipment it protects.

If a newly fitted fuse 'blows' immediately it is fitted or when the equipment it protects is switched on, and the cause of the problem is not immediately apparent, the equipment should be examined by your Dealer.

Fuse ratings

The fuses used have the following ratings and colour codes:

5 A - orange	20 A - yellow
10 A - red	25 A - white
15 A - blue	30 A - Green

Maxi Fuses

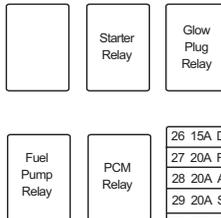
60 A - blue	40 A - orange
-------------	---------------

WARNING: Fuses are fitted to protect the vehicle wiring from overheating and the consequential risk of fire. A 'blown' fuse must only be replaced with a fuse of the correct rating as shown on the fuse box label. Never use a fuse of a higher rating as this could lead to damage to electrical equipment or cause the wiring to overheat. Do not attempt to repair a broken fuse.

For further information please refer to the Owner's Handbook

Caution: Never continue to operate the vehicle if it is suspected of having an electrical failure.

Relays



Body & Engine Relays, Fuses & Ratings

26 15A Diagnostic	21 20APCM
27 20A Fuel pump	22 5A PATS
28 20A A/C fans	23 Unused
29 20A Storage link	24 Unused
30 20A Aux 1	25 20A Aux 2

Fuses

Fuses		Spare Fuses	
11 10A Reverse lights instrument pack, o/drive	1 10A Main Beam LH	2 10A Main Beam RH	
12 20A Fuel cutoff, aircon clutch, aircon sw.	3 10A Side & tail	4 10A Stop lights, horn	
13 Unused	5 15A Power point, cigar, reading lights	6 10A Taximeter, clock	
14 15A Front heater	7 10A Radio, PATS, Boot light, CCU, Siren	8 15A Front & rear wiper	
15 15A Rear heater	9 20A Front & rear fog	10 25A RH Windows	
16 10A Mirrors, audio			
17 15A Indicators, CDL motion locks			
18 20A Int lights, dip beam comms			
19 20A Heated rear screen			
20 25A LH Windows			

Part Number 653002

EURO 48

REPLACEMENT OF BULBS AND FUSES

REPLACEMENT BULBS, FUSES

Location	Type	Wattage	Part No.	Location	Type	Wattage	Part No.
Headlight	Halogen	60/55W	TLB 472	FUSES	5A		610892
Parking light	Bayonet	4W	TLB 233		10A		900109
Direction indicators (front & rear)	Bayonet	21W	TLB 382		15A		900110
Indicator side repeater	Wedge	5W	TLB 501		20A		900111
Rear and fog lamp	Bayonet	21/4W	TLB 566		25A		900112
Stop lamp	Bayonet	21W	TLB 382	30A		901334	
Reversing lamp	Bayonet	21W	TLB 382	MAXI FUSES	40A		900890
Parcel shelf stop lamp	Wedge	4 x 5W	TLB 501		60A		900891
Number plate lamps	Festoon	2 x 5W	TLB 239				
Front fog lamps	Halogen	55W	TLB 453				
Taxi hire sign lamps	Bayonet	2 x 21W	TLB 382				
Taxi hire sign repeater	Festoon	3 x 10W	TLB 272				
Interior lights (roof)	Festoon	7W	900022				
Reading lights	Wedge	5W	TLB 501				
Courtesy and fare illumination lamps	Wedge	5W	TLB 501				

WARE 104

WARNING: Only fit bulbs of the wattage indicated. Higher wattage bulbs can damage the light unit to which they are fitted.

GENERAL INFORMATION

Engine Type

Diesel

Number of cylinders

4

Bore

89.9 mm

Stroke

94.6 mm

Capacity

2402 cc

Compression ratio

19:1

Firing order

1-3-4-2

Coolant

to WSS-M97B 44-D

Fuel system

Duplex chain driven fuel injector pump

Fuel tank

capacity (approx): 52.6/11.5 (litres/gallons)

Transmissions

Manual - 5 speed synchromesh
Automatic - 4 speed with overdrive lock

Rear axle

Hypoid semi-floating

Steering

Turning circle-wall to wall 8.53 m (28ft)
(excluding mirrors)
Front wheel toe-in 1.5 -2.5 mm
(1/16 to 3/32 in)
Front hub bearing 0.025 - 0.152 mm
end float (0.001 - 0.005 in)

Tyres

Size and type: 175 R 16 'C' 98/96Q 6-ply rating
Recommended pressures:
Front 35 p.s.i. (2.4 bar)
Rear 40 p.s.i. (2.7 bar)

Principal dimensions and weights

	mm	in.
Length	4575	180.00
Width (mirrors out)	2036	80.22
Height	1834	72.26
Front track	1422	56.03
Rear track	1482	58.39
Front end overhang	765	30.14
Rear end overhang	930	36.64
Max permitted gross vehicle weight (kg/lbs.)		2520/5550
Front axle weight		1150/2535
Rear axle weight		1370/3020
Approximate kerb weight - (kg/lbs.) varies according to equipment		1863/4108
Capacities (approximate)	Litres	Pints
Engine oil inc filter	6.5	11.45
Coolant (radiator and engine)	10.5	18.5
Manual transmission	1.3	2.29
Automatic transmission	7.9	13.9
Rear axle	1.96	3.44

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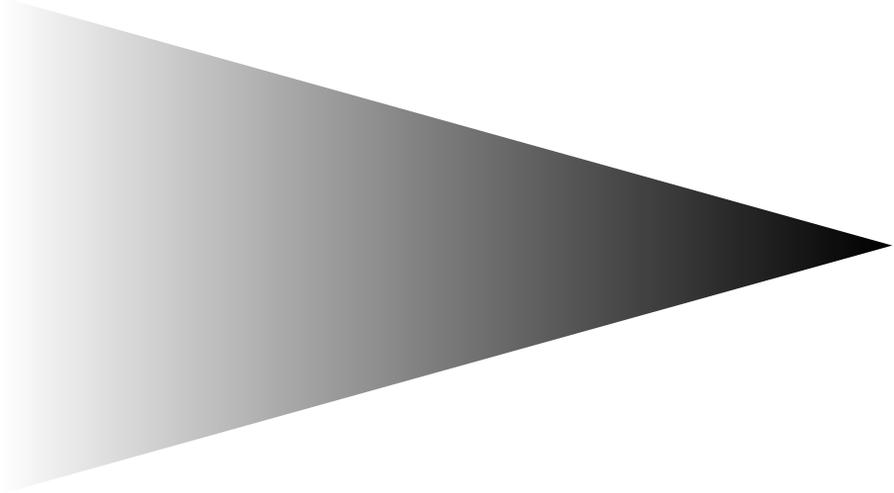
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VEHICLE AND PARTS WARRANTIES

The remaining pages starting from the back of this handbook give details of the vehicle and parts warranties, and also the free service check to which you are entitled at between 1,000 and 1,500 miles (1,500 and 2,500 km) after the vehicle is first put into service..

SERVICE RECORDS

We strongly recommend you use the pages at the back of this handbook to record the maintenance services necessary to the continuing safe operation and reliability of your vehicle. This will provide evidence of the regular maintenance your vehicle has received, and enhance the value of your vehicle when you wish to replace it.





Vehicles

Warranties and Service Records

Applicable for 2005 Year Registrations Onwards



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VEHICLE AND PARTS WARRANTIES

FROM THE DATE ON WHICH THE VEHICLE WAS HANDED OVER TO THE FIRST OWNER LTI VEHICLES WILL REPAIR OR REPLACE ANY ITEM WHICH FAILS AS THE RESULT OF A MANUFACTURING OR MATERIAL DEFECT, FOR A PERIOD OF 100,000 MILES OR 36 MONTHS, WHICHEVER OCCURS SOONER. THIS INCLUDES MECHANICAL AND ELECTRICAL COMPONENTS AND BODY AND PAINT ITEMS. **EXCEPTIONS ARE DESCRIBED BELOW.**

THE PART WILL BE REPAIRED OR REPLACED FREE OF CHARGE BY AN AUTHORISED LTI VEHICLES DEALER, REGARDLESS OF ANY CHANGE IN VEHICLE OWNERSHIP DURING THE PERIOD COVERED. ANY PART REPAIRED OR REPLACED IN THIS WAY BENEFITS FROM THESE ARRANGEMENTS FOR THE BALANCE OF THE WARRANTY PERIOD. NO PART OF A LTI VEHICLE HAS A WARRANTY WHICH EXTENDS BEYOND THE PERIOD DESCRIBED.

THE WARRANTIES AND SERVICE CARE BOOK MUST BE PRESENTED TO THE REPAIRING DEALER AT THE TIME OF MAKING A WARRANTY CLAIM, WHICH PROVIDES INFORMATION HE REQUIRES BEFORE STARTING A REPAIR, AND SO THAT THE SERVICE HISTORY MAY BE INSPECTED. YOU SHOULD ALSO KEEP COPIES OF INVOICES FOR ROUTINE SERVICING, AS THE REPAIRING DEALER MAY ASK TO SEE THESE TO VERIFY THE SERVICE HISTORY. LTI VEHICLES AND THEIR DEALERS MAY USE OTHER MEANS TO VERIFY THE SERVICE HISTORY OF A VEHICLE OR TO VERIFY THE MILEAGE COVERED BY A PARTICULAR VEHICLE.

GENUINE LTI VEHICLES PARTS ARE WARRANTED FOR SIX MONTHS FROM THE DATE OF PURCHASE WHEN FITTED TO AN LTI VEHICLE IN AN APPROVED LOCATION. WHERE SUCH PARTS ARE FITTED BY AN AUTHORISED DEALER THE WARRANTY WILL ALSO COVER THE FITTING CHARGE INCURRED.

THESE WARRANTIES ARE IN ADDITION TO AND DO NOT AFFECT YOUR STATUTORY RIGHTS.

EXCEPTIONS TO THE ABOVE

THE VEHICLE BATTERY CARRIES A WARRANTY WITH THE SAME TERMS AS ABOVE, EXCEPT THE PERIOD OF COVER IS 100,000 MILES OR **24 MONTHS**, WHICHEVER OCCURS SOONER.

VEHICLE AND PARTS WARRANTIES

The vehicle and parts warranty will not apply:

- Where the vehicle has not been maintained in accordance with the manufacturer's recommendations using the specified lubricants and parts.
- Where the vehicle has been damaged by neglect, accident or improper use or used for competitive purposes.
- Where the vehicle has been altered from the manufacturer's specification, or to any part or assembly where the serial number identification or label applied in production has been defaced or removed.
- To taxi meter equipment or tyres which are warranted directly by the manufacturer concerned.
- To parts and accessories not supplied by the manufacturer.

SERVICE HISTORY

To ensure that LTI Vehicles and the repairing LTI Dealer have sufficient information to support any warranty claim (see also facing page), your service history for each routine maintenance service must consist of the following:

- An itemised invoice from a legitimate VAT registered repairer with the customer's name, address and the vehicle identity (Registration number or VIN number); the date and mileage at which each service has been performed; part numbers of genuine LTI parts used; quantities and specifications of oils and fluids used; labour time & cost; the serial numbers of any parts used that carry such numbers.
- A fully marked checklist of the tasks carried out as described in the Maintenance Requirements section of this handbook, with the customer's name, address and the vehicle identity (Registration number or VIN number) and signed off by the repairing technician.

The vehicle warranty does not cover the following:

- The routine replacement of items which are subject to wear, and which are affected by the operating conditions of an individual vehicle, examples of which include (but are not confined to) the following:

Lubricants	Clutch mechanical components
Filters	Brake discs and drums
Drive belts	Shock absorbers and dampers
Fuel injectors	Air conditioning receiver/dryer and refrigerant
Wiper blades	
Light bulbs	
Steering and suspension bushes and joints	
Clutch and brake linings and pads	

These items will only be replaced under the warranty arrangements if there is a manufacturing defect in workmanship or materials in the component concerned.

- Adjustments which may be necessary from time to time and which depend on the way in which the vehicle is operated, for example, clutch and brake adjustment, wheel alignment and balancing, headlight alignment and engine tuning.
- Loss of profit, business contracts, revenues, savings, or any increased costs and expenses incurred by the operator of the vehicle.

VEHICLE AND PARTS WARRANTIES

VEHICLE WARRANTY

If your vehicle requires attention under the terms of the warranty:

- Take your vehicle to the authorized Dealer from whom you purchased the vehicle. If this is impractical, you may contact any other authorized Dealer.
- Provide the Dealer with full information about the nature of any difficulty as quickly as possible.
- Always provide the Dealer with this Owner's handbook to provide the vehicle details required, and the full vehicle service history as described on page iii to verify that the correct routine maintenance services specified by the manufacturer have been carried out.

PARTS WARRANTY

After the vehicle warranty has expired, any genuine part purchased by the operator either when fitted as part of a maintenance operation or repair, or as an over the counter sale, is warranted by the manufacturer as indicated on page ii.

In the case of a manufacturing or material defect occurring to a genuine part:

- Return the part (or the vehicle to which the part is fitted) to the Dealer who sold the part.
- Explain the nature of the defect; show the Dealer the invoice you received when the part was sold, and also any Major Unit Certificate which may have been issued at the time of sale.

Where the defect cannot be readily determined, your Dealer may charge for the replacement part while it is returned to the manufacturer for examination: you will be re-imbursed when the examination confirms that the part failed due to a manufacturing or material defect.

Note: *It is in your best interest to use the manufacturer's genuine parts which are warranted for use on your vehicle.*

VEHICLE AND PARTS IDENTIFICATION

The Vehicle Identification Number (VIN) shown on the inside cover of this booklet, is stamped on a plate attached to the bonnet locking platform, and also on the body beneath the floor covering to the rear of the right hand front seat. The engine number is stamped on the left hand side of the engine block adjacent to the alternator.

A number of components are identified with bar coded labels, or identified using a micro dot process, to indicate they were fitted to the vehicle at the time of manufacture.

Always fit replacements parts which are appropriate to the identification numbers shown on your vehicle.

Note: *removal of the bar coded labels or identification marks will invalidate any warranty which may be applicable to the component concerned.*

LTI VEHICLES AND DGB STERLING LIMITED DINITROL® 6-YEAR ANTI-CORROSION PROGRAMME

During the manufacture of your vehicle it was protected against inside-to-outside corrosion using DINITROL® anti-corrosion materials provided by DGB Sterling Limited.

Following the initial registration of your vehicle, information was passed to DGB Sterling Limited for them to register your details for the 6-year Anti-Corrosion programme for your vehicle. Full compliance with this programme enables DGB Sterling Limited to guarantee your vehicle against inside-to-outside corrosion for a period of six years from the date of first registration.

Within approximately six weeks from the date of first registration of your vehicle you should receive from DGB Sterling Limited a guarantee booklet which will explain in more detail the full terms and conditions of this 6 year anti-corrosion programme. If you do not receive this information, please contact your supplying Dealer without delay so that this can be corrected.

For the 6-year Anti-Corrosion programme to remain valid, body service retreatments must be carried out at 1, 3 and 5 years from the date of registration of the vehicle. These have to take place at an LTI Vehicles and DGB Sterling Limited approved retreatment centre who will then affix the DINITROL® guarantee treatment validation stamp to the guarantee booklet. As part of the DGB Sterling Limited service package, before the first body service is due, they will send you a reminder to have the anti- corrosion retreatment carried out.

In line with all other routine servicing, the body service retreatment will be charged for, but we are certain that you appreciate that this will add to the value of the warranty package that accompanies all LTI Vehicles.

May we also remind you that if any parts of the bodywork covered by the guarantee are replaced or repaired following accident damage, these parts must be treated at the time of repair using DINITROL® anti-corrosion materials for the guarantee to remain valid.

This guarantee is in addition to and does not in any way affect or limit the statutory rights of the owner of the vehicle.

VEHICLE MAINTENANCE

VEHICLE MAINTENANCE

Regular maintenance by recognized Dealers, together with the use of genuine parts and accessories, is essential to the safe operation and continuing reliability of your vehicle.

The maintenance requirements are set out on pages 52-66 of this handbook. In addition, some of the more simple service operations which can be performed by any competent garage, are covered in detail.

DAILY CHECKS

We recommend you check the following each day:

- Lights
- Horn
- Warning lights
- Motion door lock operation
- Windscreen washer reservoir
- Mirrors

WEEKLY CHECKS

In addition to the items checked each day, we recommend you check the following every week or before any long journey:

- Engine oil level
- Check/top up brake and clutch fluid levels
- Check/top up cooling system
- Check/correct tyre pressures
- Check tightness of wheel nuts
- If not used daily; check operation of all parts of the wheelchair access and restraint system including all parts of the wheelchair ramp

REGULAR MAINTENANCE

The more complex requirements at each 10,000 miles (16,000 km) should be performed by recognized Dealers, which are kept up to date with the latest information issued by the manufacturer.

This book contains (pages vii to xii) a series of boxes which your Dealer will stamp to indicate that the appropriate services have been performed, in accordance with the manufacturer's latest schedules.

Note: *the manufacturer's recommended maintenance items must always be supplemented where necessary to comply with any mandatory requirements in the country where the vehicle is operated.*

ADDITIONAL SERVICE REQUIREMENTS

Some service operations are required on a periodic basis and should be requested when they become due. Additional boxes are included to record brake fluid changes, replacements of coolant, and service to the air conditioning system (where fitted).

REWORKS

From time to time LTI Vehicles issues instructions to Dealers to carry out a rework of customers' vehicles already operating in the marketplace. Where carried out this will be done to ensure future durability, reliability and safety. Additional boxes are provided on later pages for dealers to enter details of such reworks.

SERVICE RECORDS

You should keep all your maintenance records (including original invoices etc.) as described under Service History on page iii, since, in most instances it will be necessary for you to show that the vehicle has been correctly maintained at the appropriate intervals.

When you dispose of the vehicle, these records should be left in the vehicle and passed on to the new owner. Warranty is transferable to a new owner for the remainder of the original period providing that the conditions stated in this handbook have been fully complied with.

Note: *Routine maintenance services should be carried out within 500 miles (750 km) of the distance specified. Latitudes of service intervals may not be carried forward.*

MAINTENANCE SERVICE RECORD

By stamping the box below your Dealer certifies that the work specified on the maintenance schedule in this handbook has been completed at the time and distance indicated. Please provide this handbook record to any subsequent owner. An additional record is provided (pages xiv – xvi) for some of the additional items which are required at certain times during the life of the vehicle.

STANDARD SERVICE 10,000 miles (16,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 20,000 miles (32,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 30,000 miles (48,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 40,000 miles (64,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 50,000 miles (80,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 60,000 miles (96,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAINTENANCE SERVICE RECORD

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STANDARD SERVICE 70,000 miles (112,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 80,000 miles (128,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 90,000 miles (144,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 100,000 miles (160,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 110,000 miles (176,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 120,000 miles (192,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAINTENANCE SERVICE RECORD

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STANDARD SERVICE 130,000 miles (208,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 140,000 miles (224,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 150,000 miles (240,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 160,000 miles (256,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 170,000 miles (272,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 180,000 miles (288,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAINTENANCE SERVICE RECORD

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STANDARD SERVICE 190,000 miles (304,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 200,000 miles (320,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 210,000 miles (336,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 220,000 miles (352,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 230,000 miles (368,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 240,000 miles (384,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAINTENANCE SERVICE RECORD

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STANDARD SERVICE 250,000 miles (400,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 260,000 miles (416,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 270,000 miles (432,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 280,000 miles (448,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 290,000 miles (464,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 300,000 miles (480,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAINTENANCE SERVICE RECORD

By stamping the box below your Dealer certifies that the work specified on the maintenance schedule in this handbook has been completed at the time and distance indicated. Please provide this handbook record to any subsequent owner. An additional record is provided (pages xiv – xvi) for some of the additional items which are required at certain times during the life of the vehicle.

STANDARD SERVICE 310,000 miles (496,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 320,000 miles (512,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 330,000 miles (528,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 340,000 miles (544,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 350,000 miles (560,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 360,000 miles (576,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAINTENANCE SERVICE RECORD

By stamping the box below your Dealer certifies that the work specified on the maintenance schedule in this handbook has been completed at the time and distance indicated. Please provide this handbook record to any subsequent owner. An additional record is provided ((pages xiv – xvi) for some of the additional items which are required at certain times during the life of the vehicle.

STANDARD SERVICE 370,000 miles (592,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 380,000 miles (608,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 390,000 miles (624,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 400,000 miles (640,000 km)

Date:

Miles/km:

DEALER'S STAMP

STANDARD SERVICE 410,000 miles (656,000 km)

Date:

Miles/km:

DEALER'S STAMP

MAJOR SERVICE 420,000 miles (672,000 km)

Date:

Miles/km:

DEALER'S STAMP

SERVICE RECORD - ADDITIONAL REQUIREMENTS

By stamping the boxes below your Dealer certifies that the work specified has been completed. Please provide this handbook record to any subsequent owner.

COOLING SYSTEM (replace antifreeze)

Date:

Miles/km:

DEALER'S STAMP

COOLING SYSTEM (replace antifreeze)

Date:

Miles/km:

DEALER'S STAMP

COOLING SYSTEM (replace antifreeze)

Date:

Miles/km:

DEALER'S STAMP

BRAKING SYSTEM (replace brake fluid)

Date:

Miles/km:

DEALER'S STAMP

BRAKING SYSTEM (replace brake fluid)

Date:

Miles/km:

DEALER'S STAMP

BRAKING SYSTEM (replace brake fluid)

Date:

Miles/km:

DEALER'S STAMP

SERVICE RECORD - ADDITIONAL REQUIREMENTS

By stamping the boxes below your Dealer certifies that the work specified has been completed. Please provide this handbook record to any subsequent owner.

BRAKING SYSTEM (replace brake fluid)

Date:

Miles/km:

DEALER'S STAMP

BRAKING SYSTEM (replace brake fluid)

Date:

Miles/km:

DEALER'S STAMP

BRAKING SYSTEM (replace brake fluid)

Date:

Miles/km:

DEALER'S STAMP

REWORK

Title and reference:

Miles/km:

DEALER'S STAMP

REWORK

Title and reference:

Miles/km:

DEALER'S STAMP

REWORK

Title and reference:

Miles/km:

DEALER'S STAMP

SERVICE RECORD - ADDITIONAL REQUIREMENTS

By stamping the boxes below your Dealer certifies that the work specified has been completed. Please provide this handbook record to any subsequent owner.

AIR CONDITIONING SERVICE

Date:

Miles/km:

DEALER'S STAMP



Vehicles



Warranties and Service Care

Instructions de garantie et d'Entretien

Garantias y Mantenimiento

Garantien und Kundendienst

