

ENGINE

REMOVAL OF THE ENGINE FROM THE VEHICLE

1. Prop the hood open, disconnect the screen washer hose from the reservoir and electrical leads to the engine compartment illumination lamp. Remove the fixings, hinges to hood and lift the hood clear.
2. Set the vehicle on level ground and apply the transmission brake.
3. De-pressurize the fuel system. (See Fuel Injection System, Section 19).
4. Disconnect the battery terminals and remove the battery from the vehicle.
5. Release the hose clamp and remove the radiator bottom hose to enable the cooling system to be drained.
6. Release the hose clamps and remove the radiator top hose and expansion tank hose.
7. Remove the fan cowl, drive belt and viscous unit/fan assembly.
8. Release the fixings and remove the radiator.
9. Place an absorbent cloth around the fuel feed hose at the fuel rail and release the compression nut, remove the feed hose from the rail, seal the end of the pipes with masking tape to prevent ingress of dirt.
10. Release the hose clamp and remove the fuel return hose from the pressure regulator, seal both openings with masking tape to prevent ingress of dirt. Remove the vacuum hose from the rear of the regulator.
11. Detach the throttle lever return springs, remove the fixings securing the kickdown cable anchor bracket to the plenum chamber bracketry and lay the assembly to one side.
DO NOT DISTURB THE KICK DOWN CABLE SETTING.
12. Disconnect the multi-plug from the air bypass valve (stepper motor).
13. Release the hose clamp securing the hose to the inlet neck of the plenum chamber.
14. Disconnect the multi-plug from the air flow sensor, release the two clips securing the air cleaner to the air flow sensor, remove the sensor complete with hose from the engine compartment.
15. Release the fixings and remove the air cleaner assembly from the engine compartment.
16. Release the alternator pivot bolts and remove the drive belt, remove the alternator fixings and withdraw the alternator.
17. Release the idler pulley between the crankshaft pulley and compressor pulley and remove the drive belt.
18. Release the compressor from its mounting and lay to one side. DO NOT discharge the air conditioning system.

NOTE: Release the bolts securing the compressor mounting bracket to the engine and remove the bracket to enable a temporary lifting eye ETC 5964 to be fitted. Secure the lifting eye to the mounting bracket fixing points with suitable bolts of equivalent size, pitch and thread. Leave the lifting eye attached to the engine until the engine has been reinstalled in the vehicle.

19. Place a drain tray underneath the vehicle to catch any power steering fluid which may seep from the steering fluid reservoir when the hose is disconnected from the steering pump.
20. Disconnect the hose and secure the end of it above the level of the fluid reservoir to avoid the loss of any more fluid than necessary. Seal the power steering pump and pipe opening with masking tape to prevent ingress of dirt.

Continued

Fit the chain lifting eye to a suitable hydraulic hoist. Raise the hoist sufficiently high enough to enable the engine mounting rubbers to be removed, and withdraw the rubber mountings. Lower the hoist until the engine rests securely on the engine mounting brackets. Remove the lifting chains and hoist.

Disconnect the two heater hoses located on the top of the right hand rocker cover.

Remove the ground strap from the rear of the left hand cylinder head.

Remove the cylinder block to hood ground strap from the retaining clip at the engine compartment closure panel.

Remove all electrical harnesses from the retaining clips on and around the rear of the engine.

