

REMOVAL AND INSTALLATION (Vehicles with Carburetor)

NOTE: Engine and transmission are removed as an assembly through bottom of engine compartment.

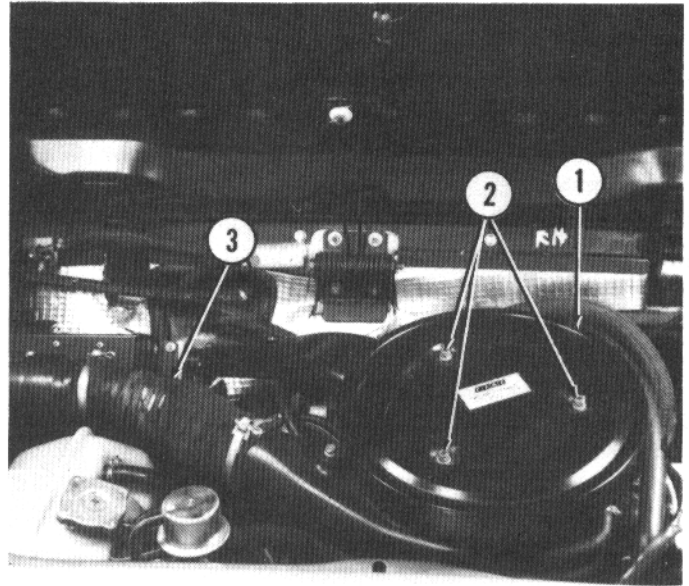
Loosen fuel cap. Remove cap from expansion tank. Drain cooling system.

Loosen clamp holding fresh air duct (3) to fan.

Disconnect hoses from side of air cleaner (1). Remove three nuts (2) and washers holding cover on air cleaner.

Remove four nuts holding air cleaner on carburetor. Lift air cleaner, disconnect hose from bottom and remove air cleaner with fresh air duct.

1. Air cleaner 2. Nuts 3. Fresh air duct



NOTE: Mark lines, hoses and wires prior to removal to identify for installation.

Disconnect battery ground cable.

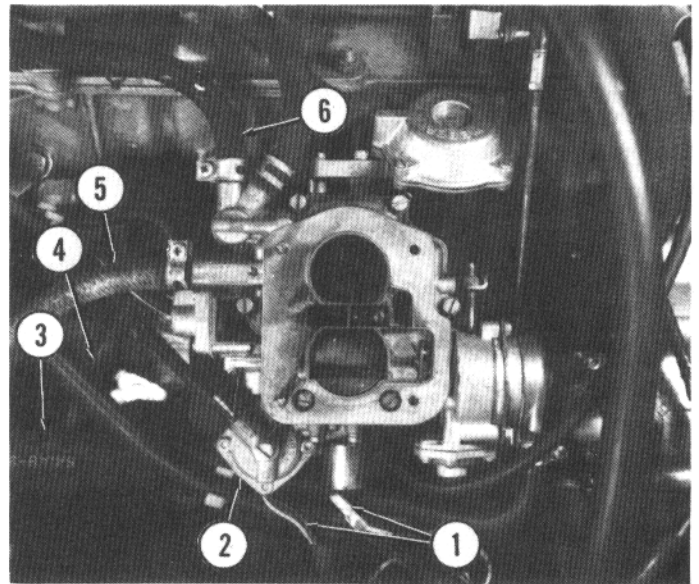
Disconnect fuel return hose (6) and charcoal canister hose (5) from carburetor.

On vehicles with air conditioning, disconnect hose from fast idle valve (2) and unplug compressor clutch wire connector.

Disconnect wires (1) from idle shut-off solenoid and carburetor fan thermostats.

Disconnect gulp valve and charcoal canister hoses (3 and 4) from intake manifold.

1. Wires 2. Fast idle valve 3. Hose 4. Hose 5. Hose 6. Fuel hose



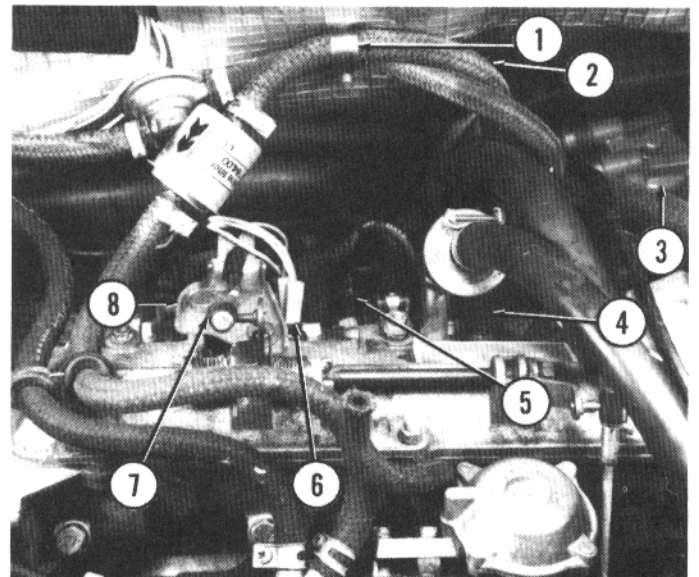
Remove clamp (1) holding fuel hoses to firewall and separate from firewall.

Disconnect fuel inlet hose (2) from fuel pump. Remove distributor cap (3) and rotor.

Disconnect distributor wire connector at distributor. Disconnect wires from gulp valve thermostats (6), coolant temperature sending unit (4), and oil pressure sending unit (5).

Disconnect throttle cable by removing spring clip (7) at end of cable and "E" ring at base of bracket (8).

1. Clamp 2. Fuel inlet hose 3. Distributor cap
4. Coolant temperature sending unit 5. Oil pressure sending unit
6. Gulp valve thermostats 7. Spring clip 8. Bracket



Loosen clamps and remove coolant hoses (8 and 10) from housing (11).

Disconnect coolant hose (1) at union.

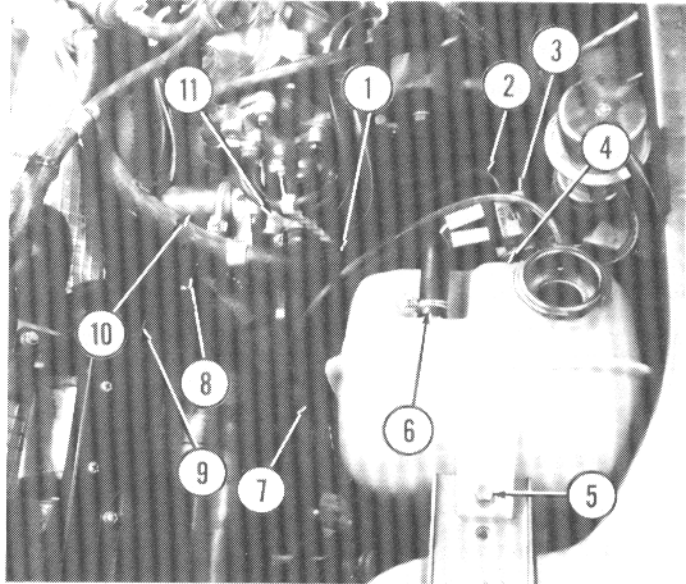
Disconnect two expansion tank hoses (6 and 7) at housing.

Remove bolt (5) and two nuts holding expansion tank (4) and remove tank.

Unplug reverse light switch wire (9) at connector.

Disconnect vacuum hose (2) from electrovalve (3). On air conditioned vehicles, disconnect fast idle electrovalve vacuum hose from vacuum tree.

1. Coolant hose
2. Vacuum hose
3. Electrovalve
4. Expansion tank
5. Bolt
6. Hose
7. Hose
8. Coolant hose
9. Wire
10. Coolant hose
11. Housing



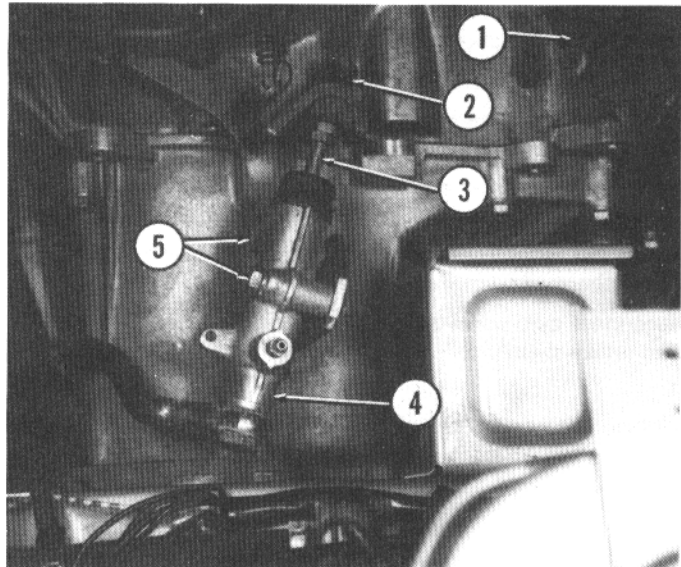
Hold spring (2) compressed and remove cotter pin, spring, and remaining washer from end of operating cylinder rod (3).

Remove two bolts (5) holding cylinder (4) to support plate. Move cylinder out of way.

Disconnect speedometer drive (1) from transmission.

Disconnect wires from starter.

1. Speedometer drive
2. Spring
3. Cylinder rod
4. Operating cylinder
5. Bolts



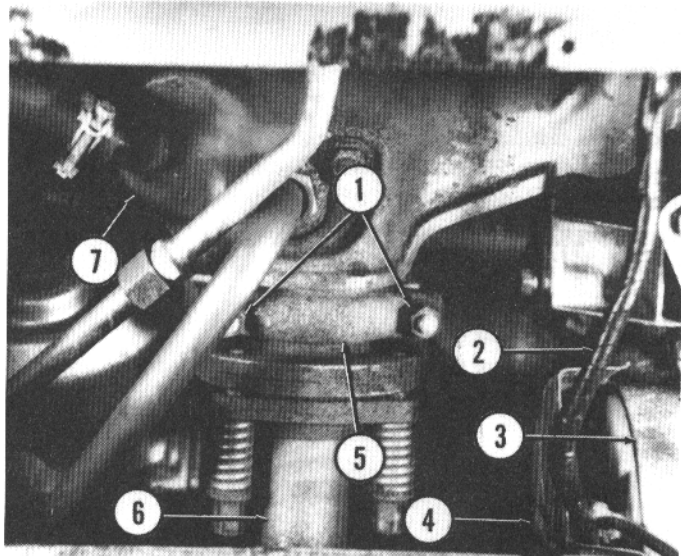
Remove rear access panel from inside trunk.

Remove two nuts (1) and clamp (5) attaching exhaust pipe (6) to manifold (7).

Remove shield (4) from end of alternator (3).

Remove nut and cable (2) from alternator and unplug charge indicator wire connector.

1. Nuts
2. Cable
3. Alternator
4. Shield
5. Clamp
6. Exhaust pipe
7. Manifold



Engine Assembly

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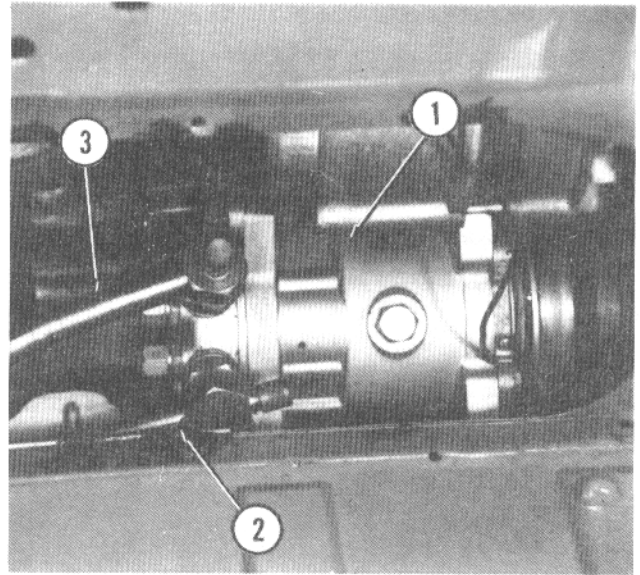
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On vehicles with air conditioning, discharge system by slowly bleeding freon to prevent excessive loss of system oil.

WARNING: Wear safety glasses. Do not discharge freon near open flame, a toxic gas may result.

Disconnect high and low pressure lines (2 and 3) from compressor (1). Cap open hoses and fittings.

1. Compressor 2. Line 3. Line

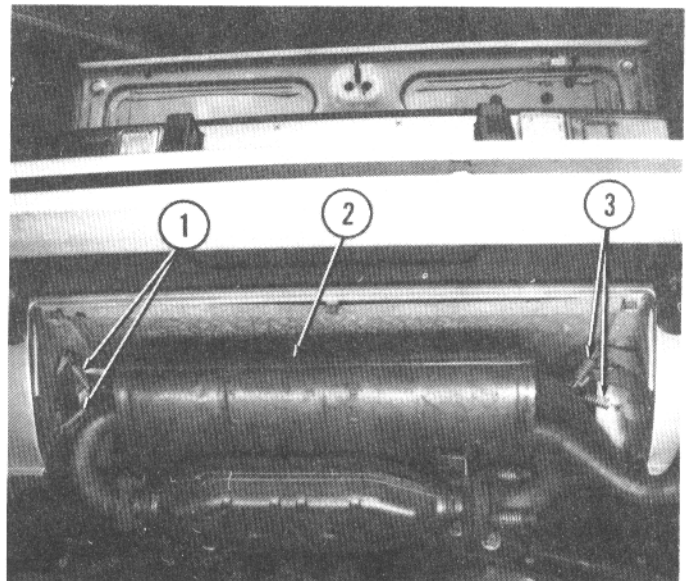


Raise and support rear of vehicle. Remove rear wheels.

Remove six screws and four bolts retaining rear grille assembly and remove rear grille assembly.

Disconnect six springs (1 and 3) supporting muffler (2) and lower complete exhaust system from vehicle.

1. Springs 2. Muffler 3. Springs



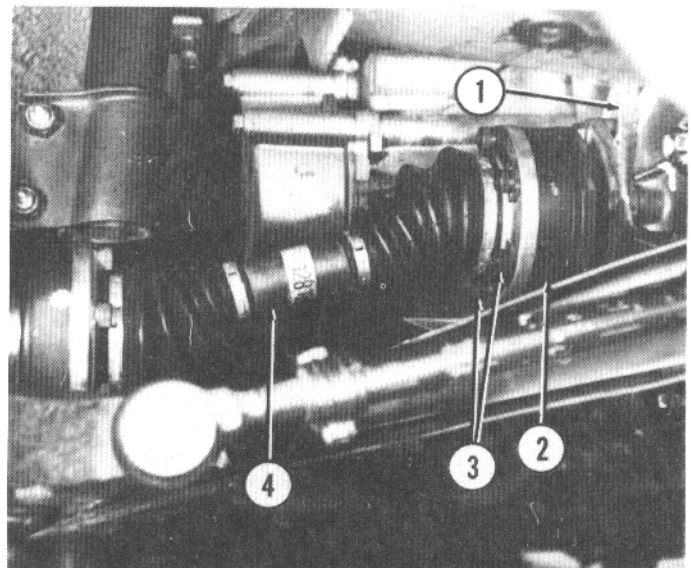
Disconnect ground strap (1) from chassis.

Remove six Allen head bolts (3) from transmission end of left side half-shaft (4).

Repeat above procedure to disconnect right side half-shaft from transmission.

NOTE: Discard Allen bolts and replace with new ones for installation. Torque to 31 ft. lbs. (4.3 kgm).

1. Ground strap 2. Inner CV joint 3. Allen bolts 4. Half-shaft



Remove three protective shields (6 and 15).

Remove two bolts (9) holding transmission link (7) to selector rod (10).

Loosen bolt (5) at transmission end of transmission link. Swing link out of way.

Remove two brake cable support brackets (14) from front control arm brackets (12).

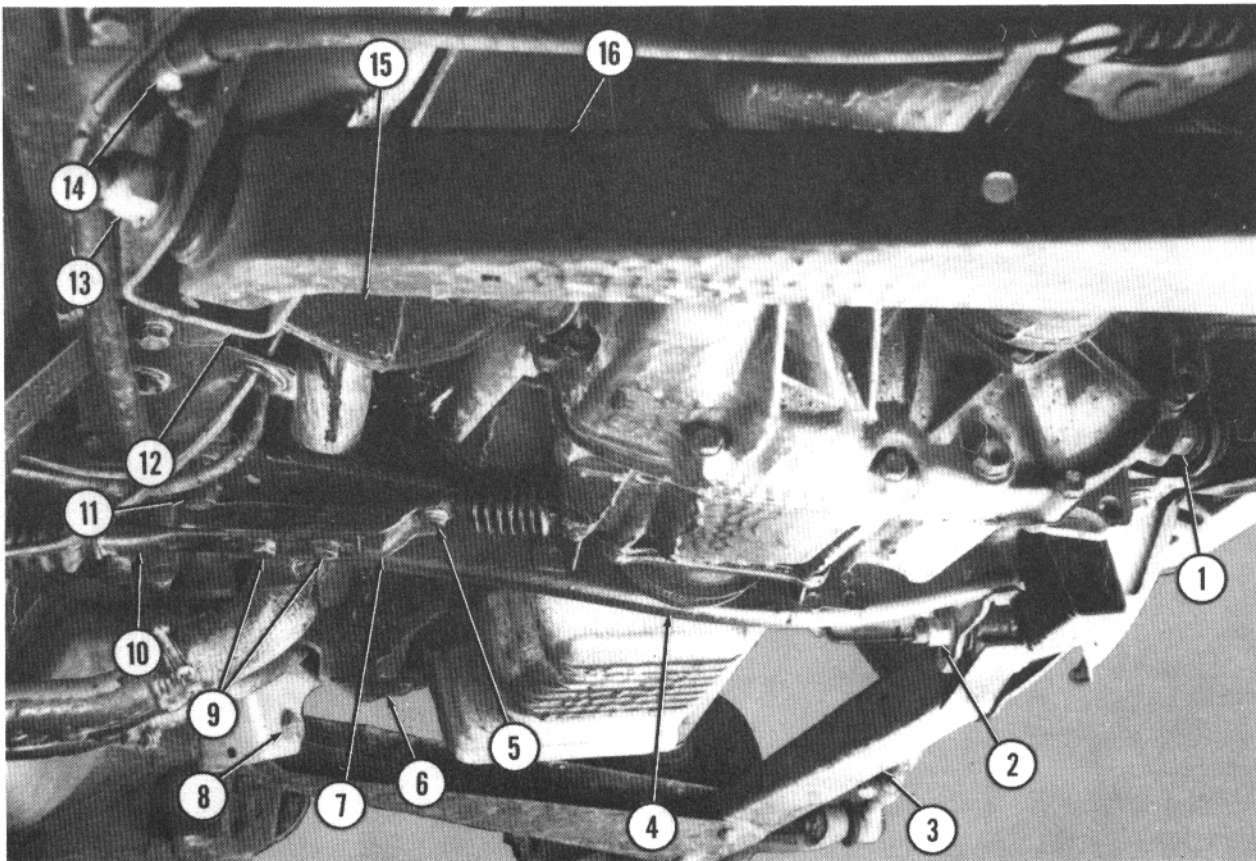
Remove four control arm nuts (1, 2 and 13) and bolts (8), noting number and position of shims between control arms (3 and 16) and mounting brackets.

NOTE: Suspension assemblies may be removed completely by removing brake calipers and nuts securing strut assemblies at top.

Attach a lift sling A.60592 to engine/transmission lifting eyes and lift slightly.

Remove four bolts (11) holding crosspiece (4).

1. Nut 2. Nut 3. Control arm 4. Crosspiece 5. Bolt 6. Shield 7. Link 8. Bolt 9. Bolts 10. Rod 11. Bolt 12. Bracket 13. Nut 14. Bracket 15. Shield 16. Control arm



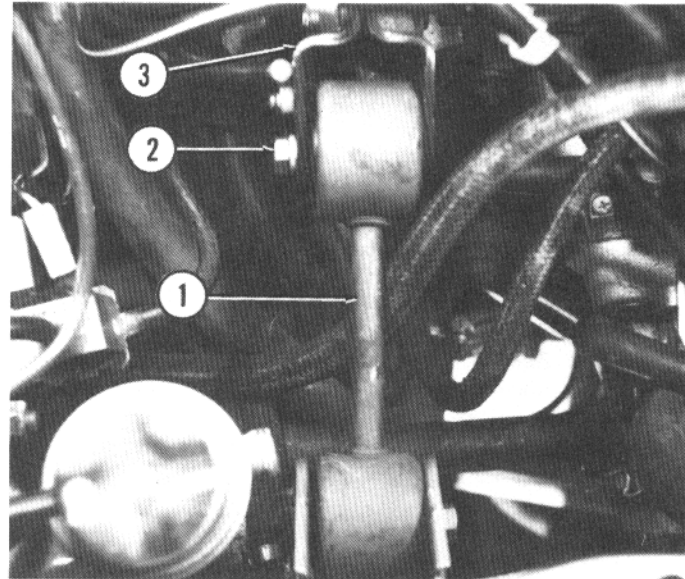
Engine Assembly

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Remove through bolt (2) holding reaction rod (1) to bracket (3) on engine.

1. Reaction rod 2. Bolt 3. Bracket



Remove coolant hose (1) from water pump.

Remove through bolt (3) holding front engine mount (2).

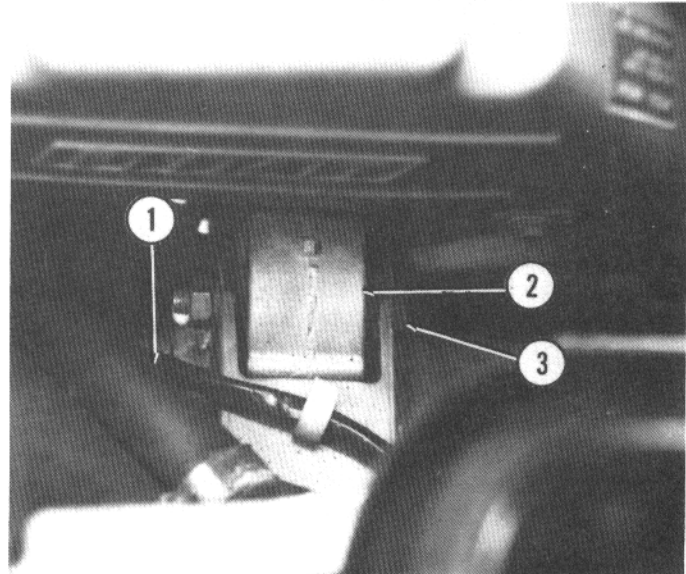
Raise vehicle slightly and rock engine/transmission assembly to clear front engine mount.

Carefully raise vehicle while supporting engine/transmission assembly. Slide assembly out from under vehicle.

Install engine in reverse order of removal. Tighten all nuts and bolts to specifications.

Refill cooling system to proper level and check all lines and hoses for tightness.

1. Coolant hose 2. Engine mount 3. Bolt



**REMOVAL AND INSTALLATION
(Vehicles With Fuel Injection)**

NOTE: Engine and transmission are removed as an assembly through bottom of engine compartment.

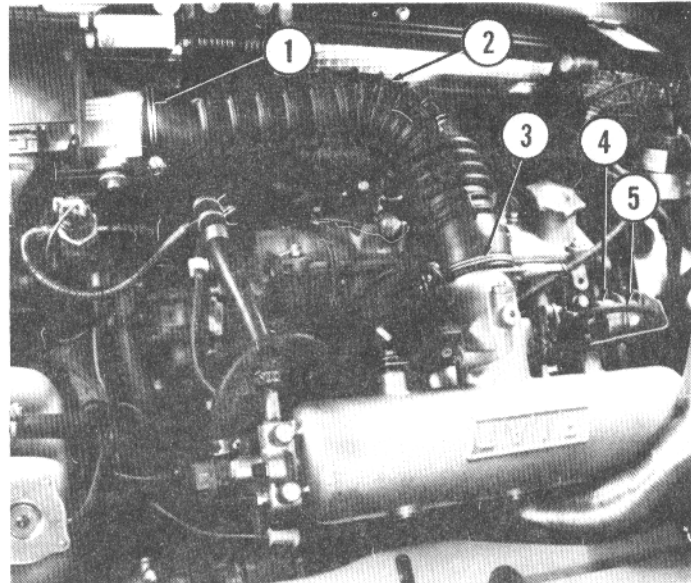
Disconnect battery ground cable.

Loosen fuel cap. Remove cap from expansion tank. Drain cooling system.

Loosen clamps (1 and 3) and remove air supply hose (2) after disconnecting attached vacuum hoses.

Plug openings to prevent dirt from entering.

CAUTION: Relieve fuel system pressure before disconnecting fuel lines. To do this, remove vacuum hose (5) from fuel pressure regulator (4). Connect vacuum pump to regulator and pump vacuum up to 20 inches.

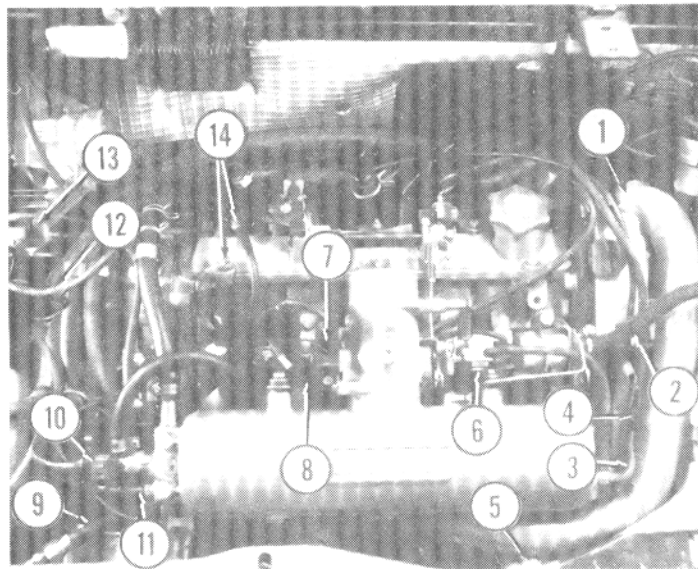


1. Clamp 2. Air supply hose 3. Clamp 4. Fuel pressure regulator
5. Vacuum hose

NOTE: Mark lines, hoses and wires prior to removal to identify for installation.

Disconnect the following electrical connectors: cold start valve (10), ground points (14), throttle switch (7), fuel injectors (8), voltmeter (4), fuel injector fan thermoswitch (6) and, on vehicles with air conditioning, compressor clutch (5). (5).

Also disconnect charcoal canister vacuum hose (11), fuel inlet hose (9), alternator cooling duct (1), fuel return hose (2) and, on vehicles with air conditioning, fast idle electrovalve (13) vacuum hose (12) and vacuum source hose (3).



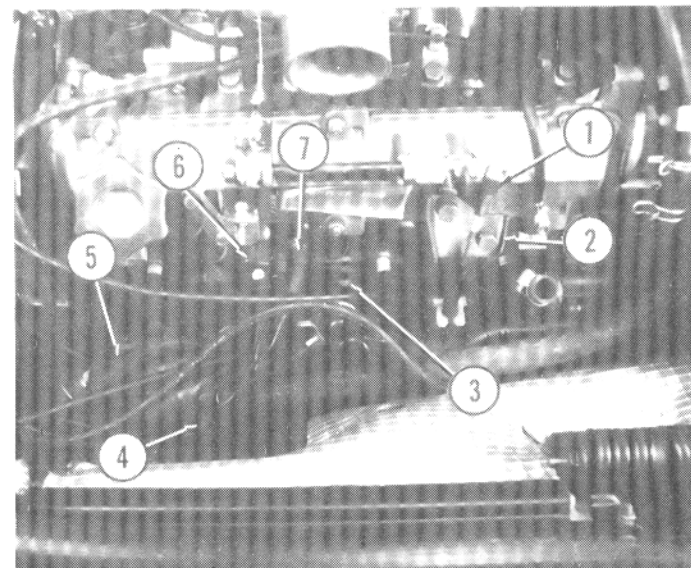
1. Cooling duct 2. Fuel hose 3. Vacuum hose
4. Voltmeter connector 5. Compressor clutch connector
6. Thermoswitch 7. Throttle switch 8. Fuel injector
9. Fuel inlet hose 10. Cold start valve 11. Vacuum hose
12. Vacuum hose 13. Fast idle electrovalve 14. Ground points

Disconnect throttle cable by removing spring clip (1) at end of cable and "E" ring at base of bracket (2).

Disconnect connectors from oil pressure sending unit (3), coolant temperature sending unit (7) and thermotime switch (6).

Remove distributor cap (5) and rotor. Disconnect distributor wire (4) at distributor.

Disconnect wires from starter.



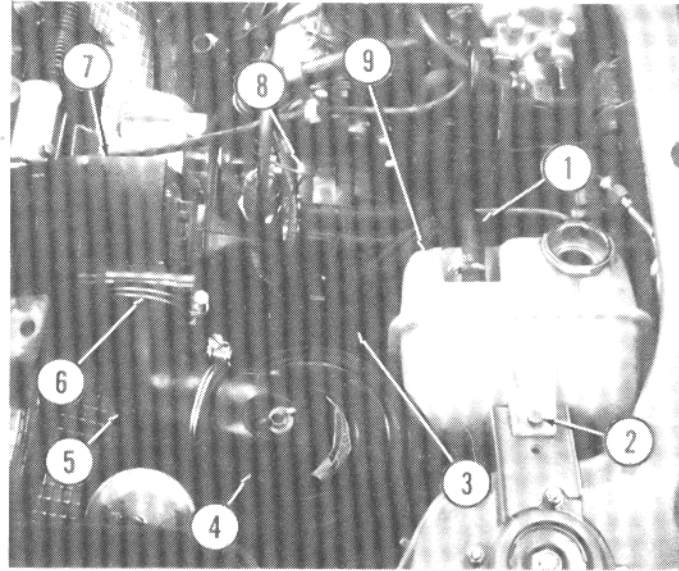
1. Clip 2. Bracket 3. Oil pressure sending unit 4. Distributor wire
5. Distributor cap 6. Thermotime switch
7. Coolant temperature sending unit

Disconnect two expansion tank hoses (1 and 3) at housing (8).
Remove bolt (2) and two nuts holding expansion tank (9) and remove tank.

Loosen air cleaner hose clamp (6) at air flow sensor (7).

Remove two nuts holding air cleaner to body and remove air cleaner (4) with hose (5).

- 1. Hose 2. Bolt 3. Hose 4. Air cleaner 5. Hose 6. Clamp
- 7. Air flow sensor 8. Housing 9. Expansion tank



Unplug reverse light switch wire connector (6).

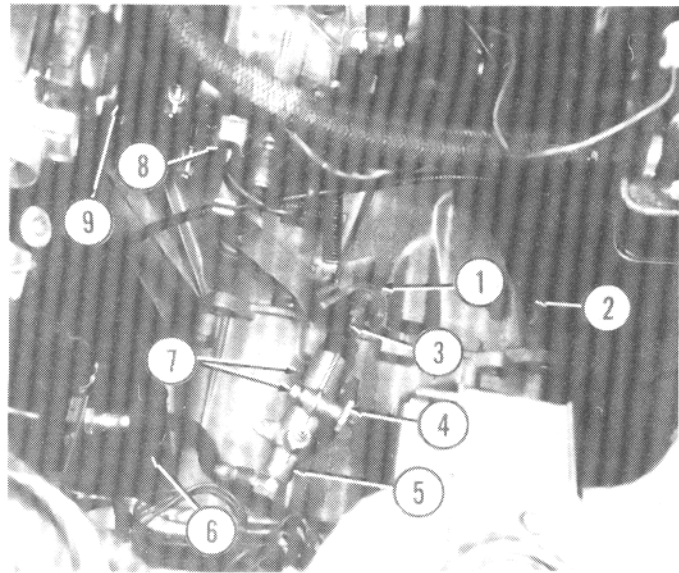
Disconnect coolant temperature sensor connector (8) and auxiliary air regulator connector (9).

Hold spring (1) compressed and remove cotter pin, spring, and remaining washer from end of operating cylinder rod (3).

Remove two bolts (7) holding cylinder (5) to support plate (4). Move cylinder out of way.

Disconnect speedometer drive (2) from transmission.

- 1. Spring 2. Speedometer drive 3. Cylinder rod 4. Support plate
- 5. Cylinder 6. Connector 7. Bolts
- 8. Coolant temperature sensor connector
- 9. Auxiliary air regulator connector

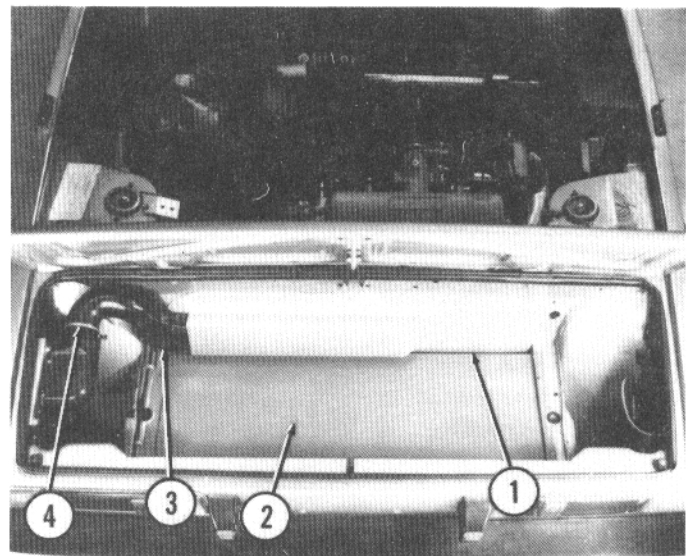


From inside trunk, remove floor mat. Remove three screws retaining insulation panel and remove insulation panel.

Remove four screws holding floor panel (2). Remove floor panel.

Remove 10 screws holding access panel (1). Loosen clamp (4) on cooling duct (3), and remove access panel complete with duct.

- 1. Access panel 2. Floor panel 3. Cooling duct 4. Clamp



Unplug Lambda sensor connector (6) and remove Lambda sensor (4) from exhaust pipe.

Remove three nuts (5) attaching exhaust pipe to manifold (7).

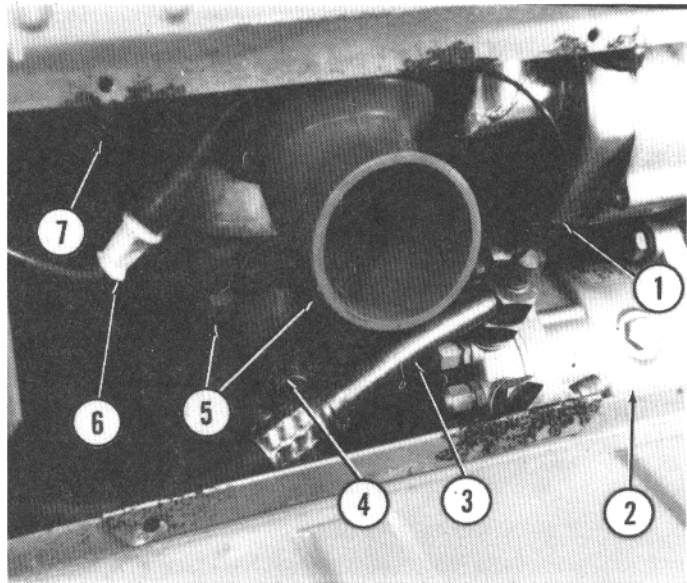
Remove shield (1) from end of alternator. Remove nut and cable from alternator.

On vehicles with air conditioning, discharge system by slowly bleeding freon to prevent excessive loss of system oil.

WARNING: Wear safety glasses. Do not discharge freon near open flame, a toxic gas may result.

Disconnect high and low pressure lines (3) from compressor (2). Cap open lines and fittings.

1. Shield 2. Compressor 3. Line 4. Lambda sensor 5. Nuts
6. Connector 7. Manifold



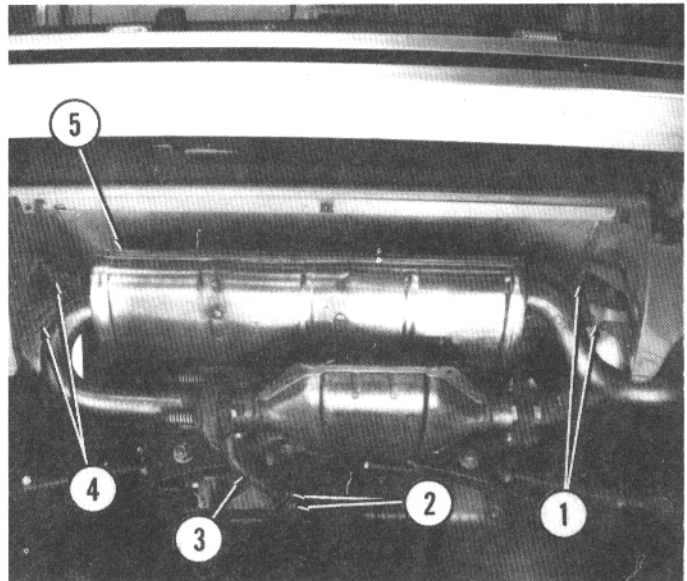
Raise and support rear of vehicle. Remove rear wheels.

Remove six screws and four bolts retaining rear grille assembly and remove grille assembly.

Remove two bolts (2) holding exhaust system support (3) to transmission bracket.

Disconnect six springs (1 and 4) supporting muffler (5) and lower complete exhaust system from vehicle.

1. Springs 2. Bolts 3. Support 4. Springs 5. Muffler



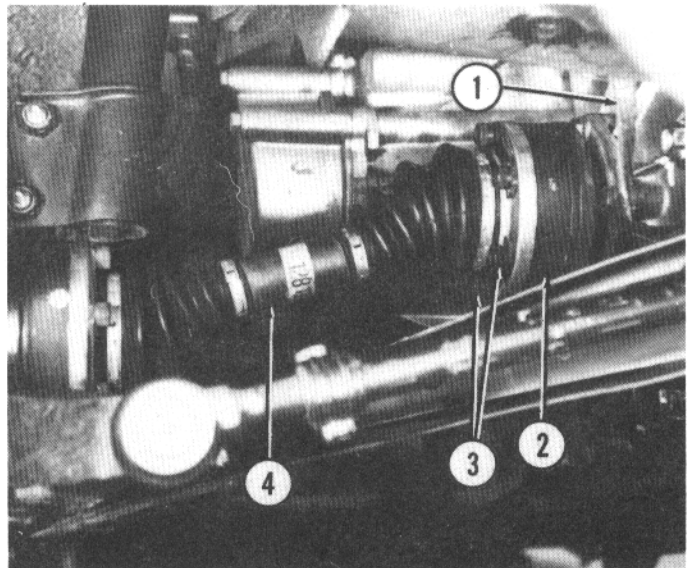
Disconnect ground strap (1) from chassis.

Remove six Allen head bolts (3) from transmission end of left side half-shaft (4).

Repeat above procedure to disconnect right side half-shaft from transmission.

NOTE: Discard Allen bolts and replace with new ones for installation. Torque to 31 ft. lbs. (4.3 kgm).

1. Ground strap 2. Inner CV joint 3. Allen bolts 4. Half-shaft



Engine Assembly

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Remove two bolts holding protective shield under fuel pump and remove shield.

Remove three remaining protective shields (7).

Remove two bolts (8) holding transmission link to selector rod (9).

Loosen bolt (5) at transmission end of transmission link. Swing link out of way.

Remove two brake cable support brackets (13) from front control arm brackets (11).

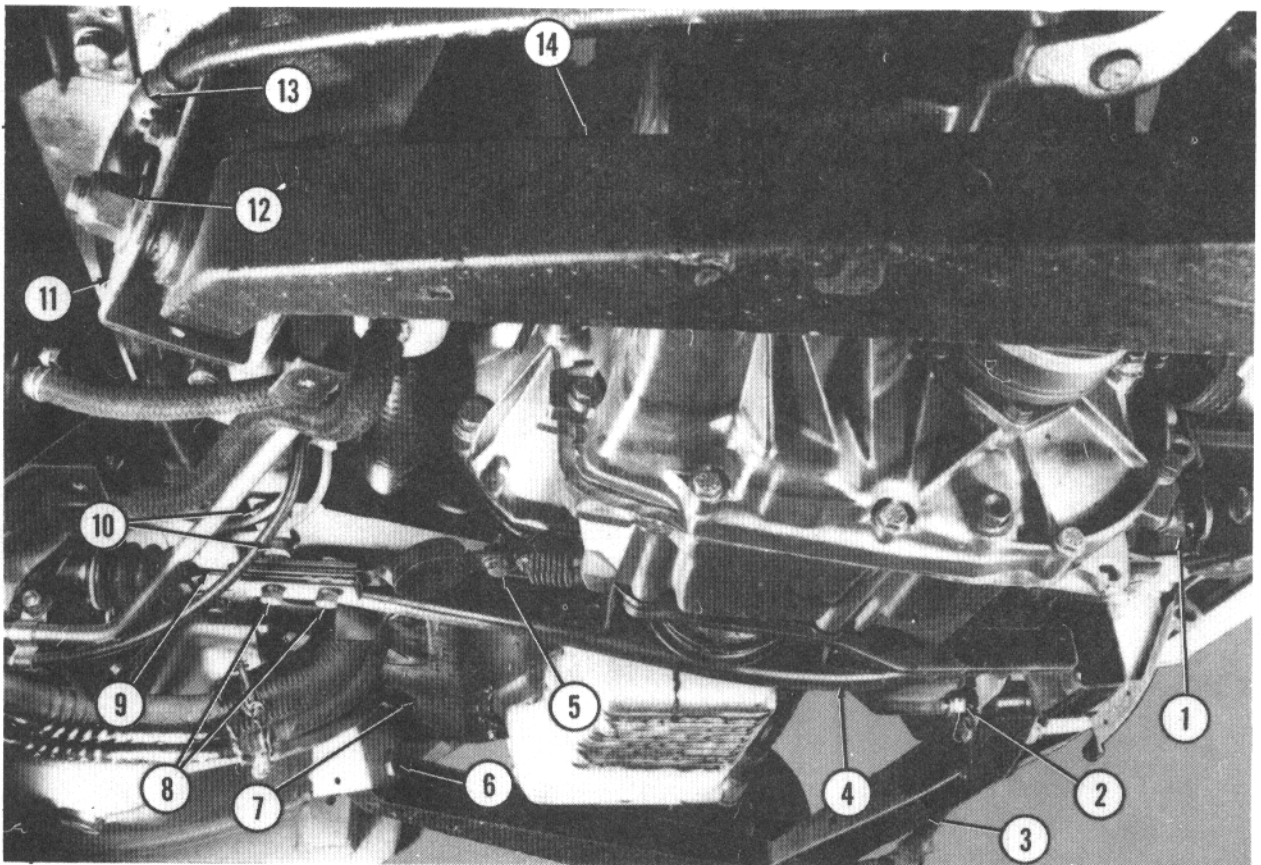
Remove four control arm nuts (1, 2 and 12) and bolts (6), noting number and position of shims between control arms (3 and 14) and mounting brackets. Swing control arms downward out of their brackets.

NOTE: Suspension assemblies may be removed completely by removing brake calipers and nuts securing strut assemblies at top.

Support engine/transmission assembly.

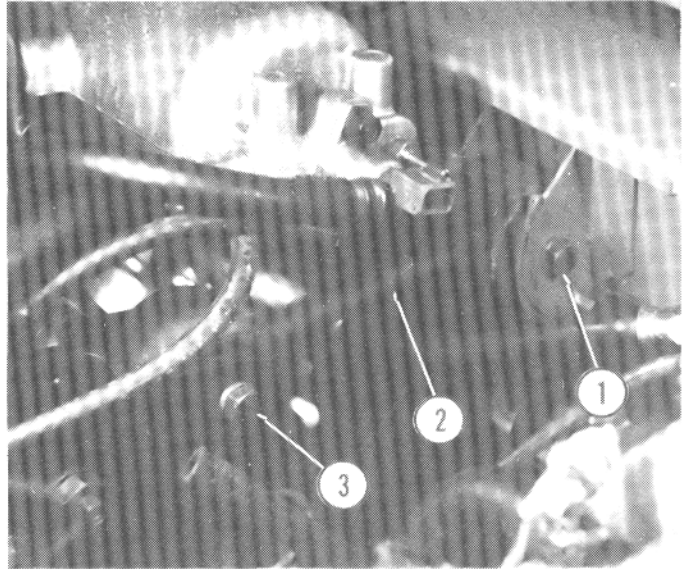
Remove four bolts (10) holding crosspiece (4).

1. Nut 2. Nut 3. Control arm 4. Crosspiece 5. Bolt 6. Bolt 7. Shield 8. Bolts 9. Selector rod 10. Bolts 11. Bracket 12. Nut
13. Bracket 14. Control arm



Remove through bolts (1 and 3) retaining reaction rod to brackets and remove reaction rod (2).

1. Bolt 2. Reaction rod 3. Bolt



Remove coolant hose (2) from water pump.

Remove through bolt (3) holding front engine mount (1).

Raise vehicle slightly and rock engine/transmission assembly to clear front engine mount.

Carefully raise vehicle while supporting engine/transmission. Slide assembly out from under vehicle.

Install engine in reverse order of removal. Tighten all nuts and bolts to specifications.

Refill cooling system to proper level and check all lines and hoses for tightness.

1. Mount 2. Hose 3. Bolt

