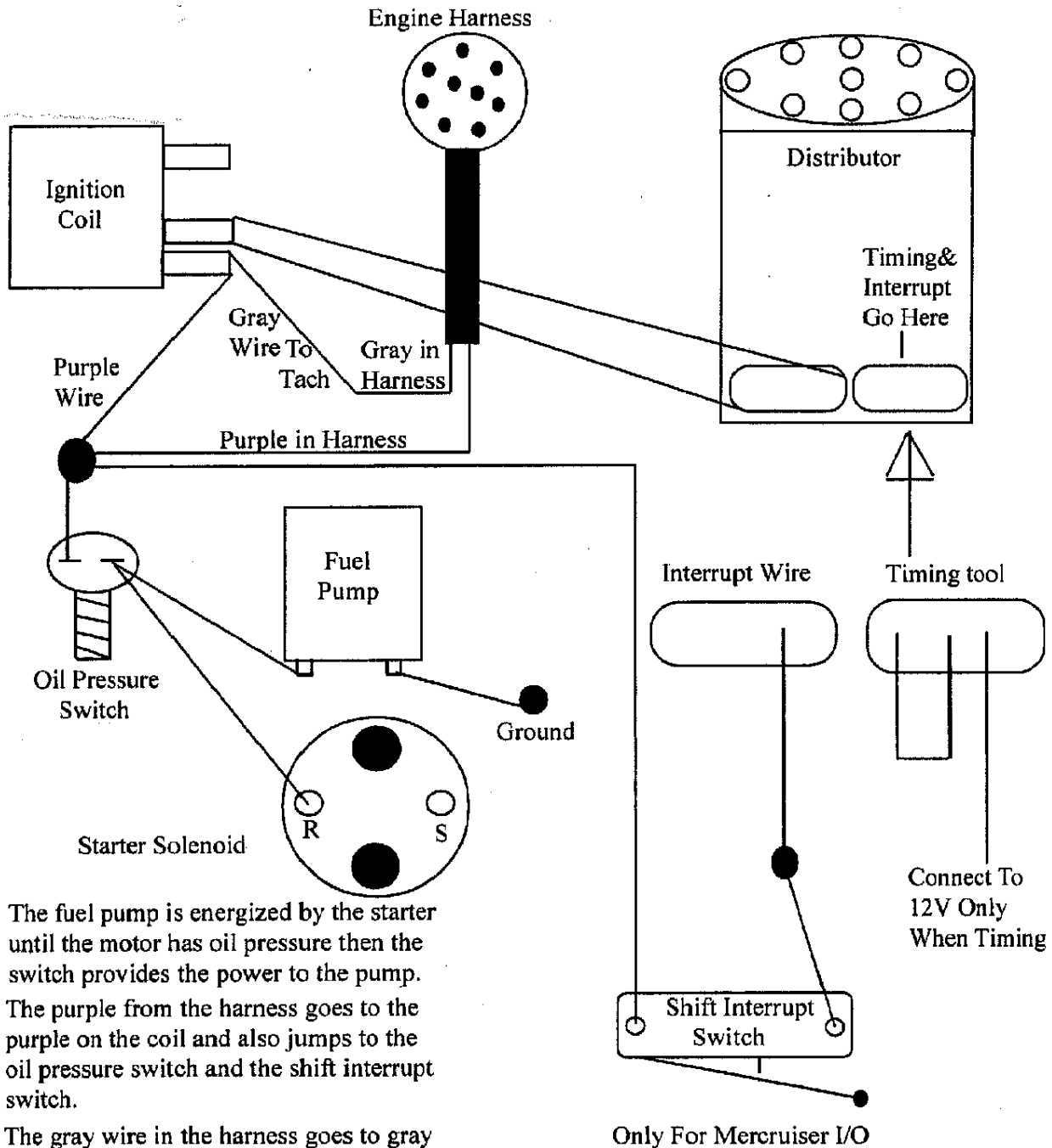


Base Engine Wiring Diagram



The fuel pump is energized by the starter until the motor has oil pressure then the switch provides the power to the pump.

The purple from the harness goes to the purple on the coil and also jumps to the oil pressure switch and the shift interrupt switch.

The gray wire in the harness goes to gray coming off of the coil.

This is only a guide, you as the installer are responsible for ascertaining the proper hookup for your application. This will give you the theory of operation, and is to be used only as a guide.

Delco EST Ignition System

USING INITIAL TIMING CONNECTOR:

The initial timing connector is used in setting the initial engine timing on Delco EST ignition equipped engines. This connector by-passes the electronic spark timing of the engine and allows the initial timing to be adjusted by rotating the distributor. Use the following procedure (become familiar with entire procedure before beginning):

The ignition timing marks are located on the engine's front cover. A saw slot on the balancer indicates engine at (TDC) Top Dead Center. Adjust ignition timing as follows:

1. Connect a timing light to the number one (1) spark plug wire. Connect the timing light power lead to a 12 volt power source. (Do NOT CONNECT TO 12 VOLTS ON ALTERNATOR.)
2. Start engine and allow to warm to operating temperature. Bring engine to idle (650-800 Rpm).
3. WHILE ENGINE IS RUNNING, install the initial timing connector supplied with your engine into the (4) terminal connector on distributor.
4. Loosen distributor clamp just enough to rotate distributor in place.
5. Secure the bare wire end of the initial timing connector to battery positive "+ voltage. (the most convenient location of this voltage is on the cranking motor solenoid.) If desired, a suitable clip, such as an alligator clip may be permanently attached to the bare wire end of the initial timing connector to hold it in place. While the lead is touching the voltage source, the frozen electronic timing is "Frozen".
6. Attach timing light according to the manufacturers' instructions.
7. Rotate distributor to set mechanical timing.

8. Tighten distributor clamp to hold in position when initial timing is obtained.

9. Recheck timing.

10. Detach initial timing connector from distributor.

11. Check total timing. This must not exceed 24 degrees at 4000 RPM for 181/262 CID engines, 26 degrees for 305/350 CID engines and 30 degrees for 454/502 CID engines. (see note below)

12. Disconnect and remove timing light.

DELCO IGNITION TIMING CHART

ENGINE INITIAL TIMING TOTAL TIMING
CID @ 500 RPM @ 4000 RPM

181 0° 24°

250 10° 32°

262 2° 24°

305 8° 26°

350 8° 25°

454 12° 30°

552 12° 30°

Warning: These timing Numbers should be verified with your owners manual. These are not necessarily true for every engine setup, and variances can occur. Use these as a reference base only.

