

SYMBOL OF



INSTALLATION INSTRUCTIONS

SYMBOL OF



ELECTRONIC TACHOMETER KITS

82162-B, 82164-B, 82170-B, 82171-B, 82172-B, 82616-B,
82648-B, 82649-B, 82850 & 82873

IMPORTANT: Read these instructions thoroughly before installing tachometer. Familiarize yourself with installation procedures and Kit contents. Determine the specific locations for wiring and component installation and what additional materials will be needed.

DESCRIPTION

This kit includes 3 3/8", 10,000; 8,000; 6,000 RPM, 12V, negative ground electronic tachometers designed for in-dash mounting and one 12-16V lamp with socket and wiring assembly.

Some tachometers incorporate an auxiliary pointer which can be adjusted to a desired shift point or critical engine speed. Simply grasp knob in center of face dial and rotate until pointer is at desired position.

Due to the design of the bi-torque meter movement, when the tachometer is de-energized the indicator can come to rest at any position. Later model tachometers have a pointer zero return feature.

INSTALLATION

LOCATION

The following should be taken into consideration when selecting a tachometer mounting location:

- Tachometer should be easily viewed from a normal driving position.
- Location must be accessible and practical for mounting.
- The material and thickness of the dash panel should be adequate to support tachometer (and other gauges) with a minimum of flexing under stress.
- There should be sufficient clearance in the cavity into which the tachometer is to be installed.

MOUNTING

1. Set the Cylinder Selection Switch, which is accessible through backside of tachometer (Fig. 1).
 - a. Remove switch cover.
 - b. Use thin screwdriver (or similar tool) to set individual switches according to Cylinder Selection Chart.

- c. Replace switch cover.
 - d. Affix Cylinder Selection label (shipped loose) to tachometer for future reference.
2. Cut a 3-3/8" diameter hole in panel at selected location. Provide a notch to accommodate tachometer locator key.

NOTE: Tachometer requires a minimum depth of 4" from surface of dash panel.

3. Insert tachometer into panel and rotate to desired position. Secure with mounting bracket and two each: lockwashers and nuts (shipped loose). Bracket slides over POS and NEG terminal studs.

NOTE: Before installation, remove caplug from lamp socket port located on backside of tachometer.

WIRING

Disconnect battery negative cable before attempting electrical installations in the vehicle. This will help prevent accidental short circuits. Don't forget to reconnect cable when work is completed.

NOTE: Be careful when installing any wiring. Avoid kinking or stretching wires and routing near hot engine parts, linkages or objects which could cut insulation. Use grommets when routing through panels and provide adequate slack to allow for engine movement, body flexing and for servicing components.

Wiring and terminal lugs are not included. It is suggested that 18 AWG stranded wire and insulated ring connectors be used. Use different colored wires for connections, as follows (Fig. 2):

POSitive — to 12V power source controlled by ignition switch. Connect to fuse block IGN or ACC terminal or splice into 12V power source wire.

IMPORTANT: Ensure POS terminal receives full voltage (12) of vehicle's electrical system. Connect as close as practical to main battery lead. Do not connect POS wire where a resistance wire or ballast resistor has reduced voltage.

NEGative — to a good clean frame ground.

SIGnal — to ignition system. See Ignition System listing and corresponding illustrations.

AUXiliary — not used.

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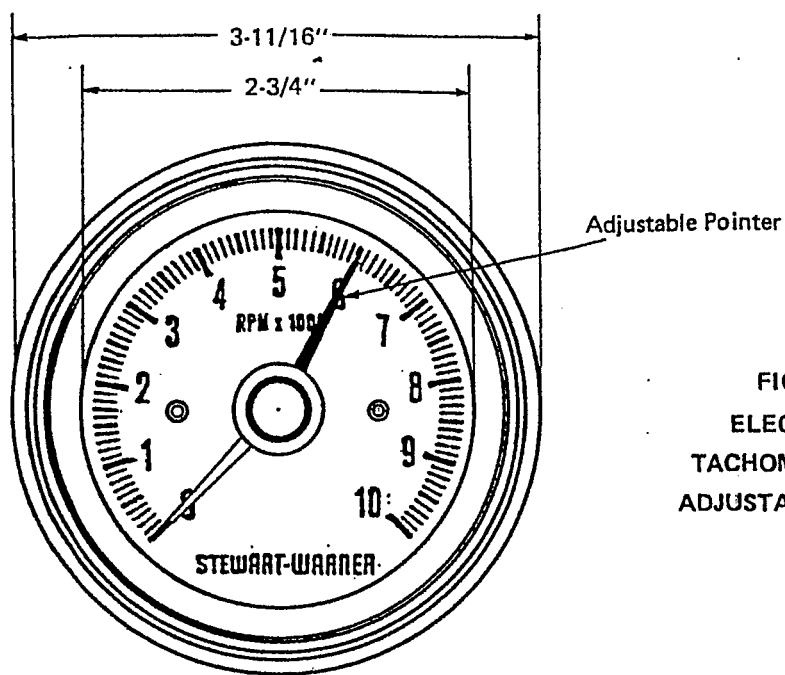
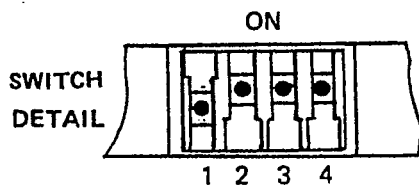


FIGURE 1
ELECTRONIC
TACHOMETER WITH
ADJUSTABLE POINTER

CYLINDER SELECTION					
CHOICE	NO.	S1	S2	S3	S4
	8	OFF	ON	ON	ON
	6	OFF	OFF	ON	ON
	4	OFF	OFF	OFF	ON
	2	OFF	OFF	OFF	OFF

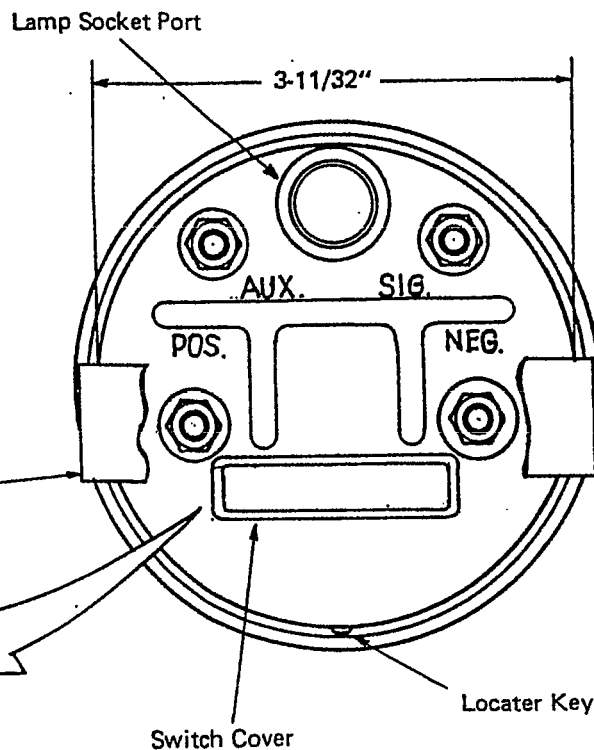
* Label

* Mounting Bracket,
Lockwashers & Nuts



8 Cylinder Setting Shown

* Shipped Loose



(Wiring Cont.)

1. Remove one nut and lockwasher from terminal stud (SIG only). DO NOT loosen second nut.

2. Install terminal lug with attached wire and secure with lockwasher and nut. Use lockwashers and nuts (shipped loose) to secure POS and NEG wires.

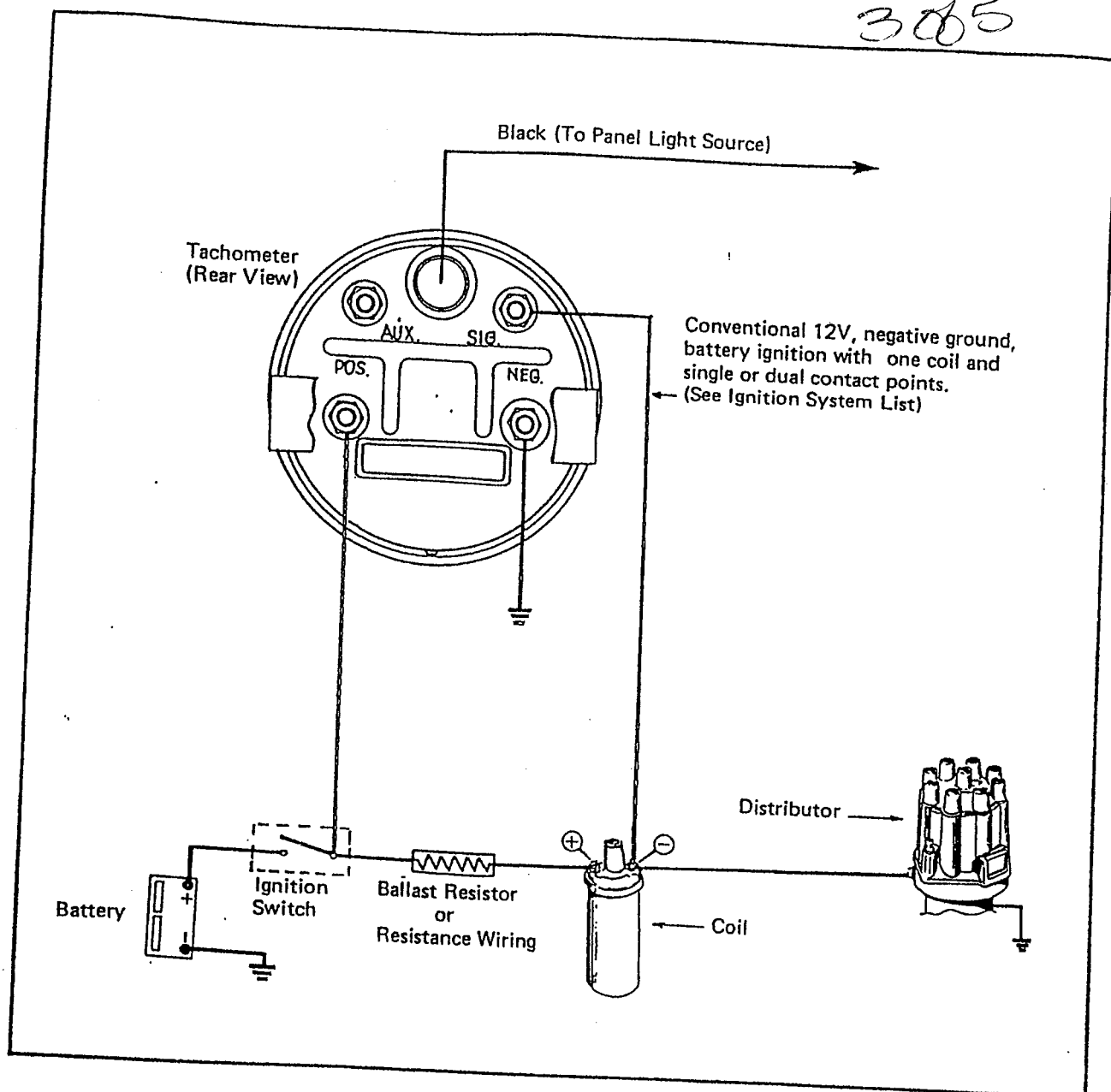


FIGURE 2 TACHOMETER INSTALLATION WIRING

LIGHTING

Illumination wiring should be connected to an instrument panel light source (Fig. 2).

1. Install bayonet mount bulb into socket.
2. Insert socket into lamp socket port (Fig. 1).
3. Connect socket wiring to instrument lamp fuse or lamp terminal on fuse block, or splice directly into an instrument panel light wire.

For replacement use style G-4-1/2 (trade No. 57) bulb.

APPLICATION

This tachometer is intended for use with 12V, negative ground, conventional or electronic, factory

ignition systems, as well as most popular racing ignition systems. See Ignition System listing and corresponding illustrations which follow:

IMPORTANT: Due to rapidly changing conditions in the automotive industry, especially the after market segment, the Ignition System listing may not include all available ignition systems. If the ignition system being used is not listed, or a difference exists between the Ignition Wiring Diagrams on this instruction sheet and the ignition system manufacturer's instructions, refer to instructions supplied with the ignition system.

NOTE: If ignition interference is heard when radio is operated in a weak signal area, it may be necessary to reroute the SIG wire farther away from the radio and any of its wiring. If this can't be done, use shielded wire with shield grounded.

IGNITION SYSTEM

DIAGRAM

Conventional Point Triggered	B
Accel / Echlin Eliminator B.E.I.	A
Accel / Echlin Laser II C.D.	H2
Allison Opto-Electric	B
American Motors Corp.	
H.E.I.	F or G
MotorCraft Breakerless	B
Prestolite BID	B
Autotronic Controls Corp.	
MSD-5	B or C
MSD-8A (H.E.I.), -7A	J
Chrysler / Mopar Electronic (all)	B
Edelbrock Thermal Spark	C
Ford	
FoMoCo C-D Transistorized	D
Motor Craft Breakerless (all)	B
General Motors	
Delco-Remy H.E.I. (4, 6, & V6 Engines)	F
Delco-Remy H.E.I. (V8 & V8 Engines)	G
Delco-Remy C-D	E
Delco-Remy Transistor	A
Delco-Remy Magnetic Pulse	A
Harp Magna-Pulse	B
Hitachi Electronic	B
International Harvester Corp.	
IHC Prestolite BID	B
Jacobs Compu-Sensor	C
Lucas Convention (Pos Grad)	A
OPUS Electronic	
Mallory Hyfire	H1
Mallory Unilite	B
Mallory Super C-D	D
Mallory Rev-Pol Mark II (Z-C Models)	D
Mallory Photocell C-D	A
Mallory T-12NA	D
Mallory SS Breakerless IR	B
MotorCraft Dura Spark (DS)	B
MotorCraft Solid State (SSI)	B
Motorola cdi-12	D
Motorola TR-12N Transistor	D
Nippon-denso Electronic	B
Prestolite BID	B
RAC EDX Energy Discharge	C
Sorensen Magnition	B
Stinger, Stinger S-4	B

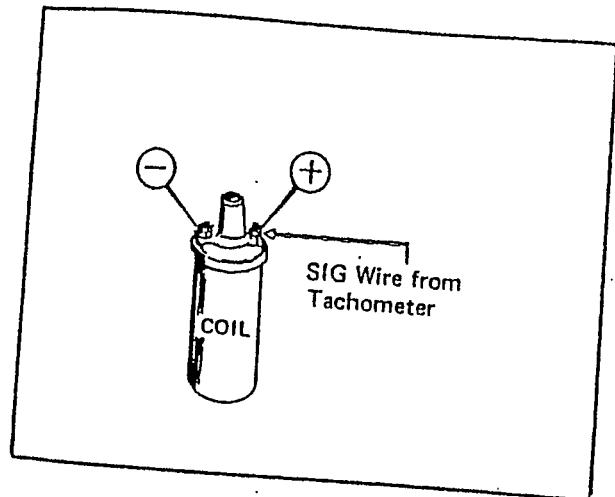


DIAGRAM A

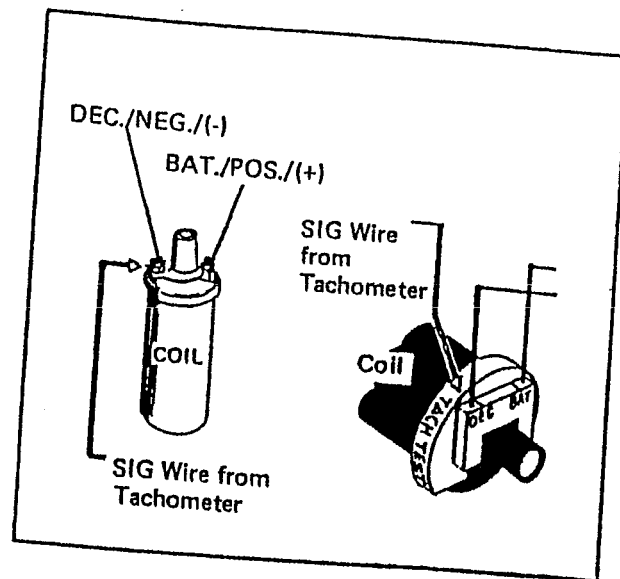


DIAGRAM B

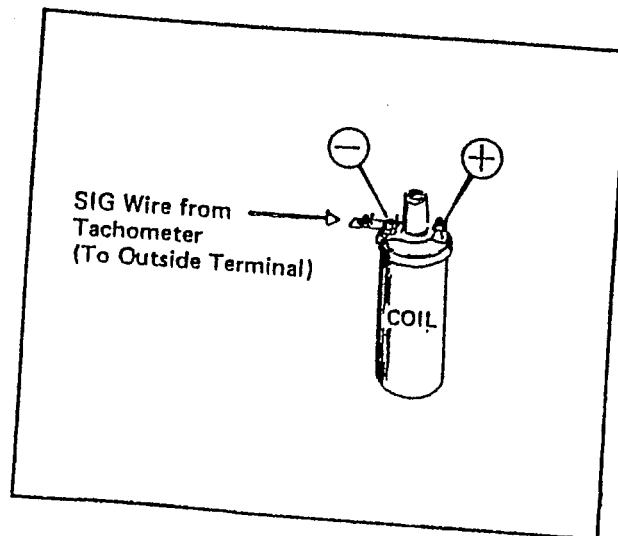


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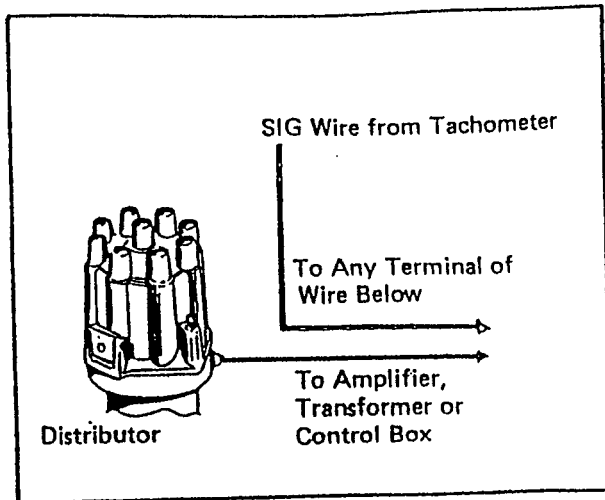


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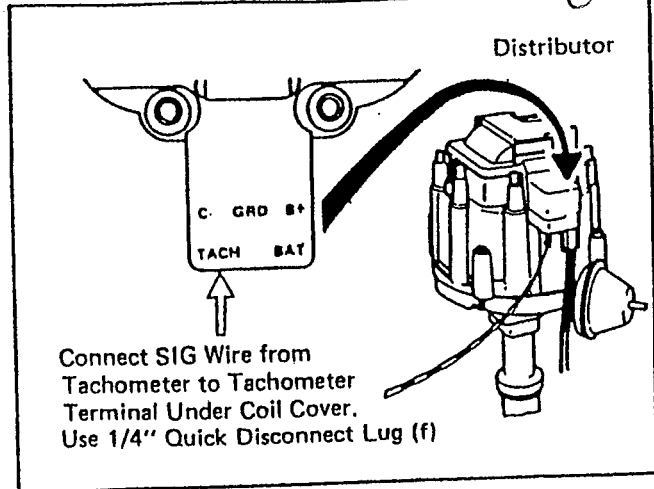


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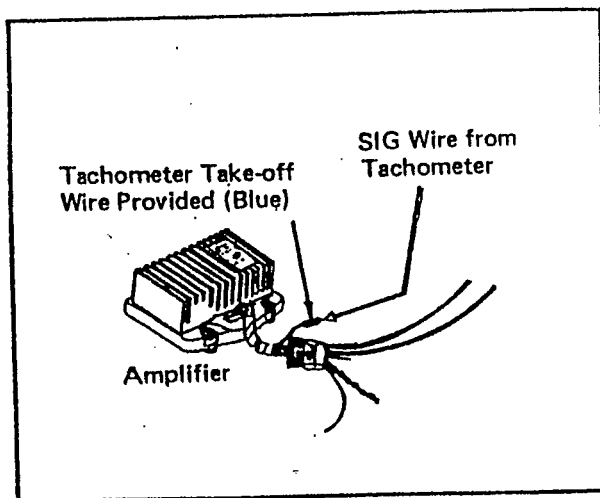


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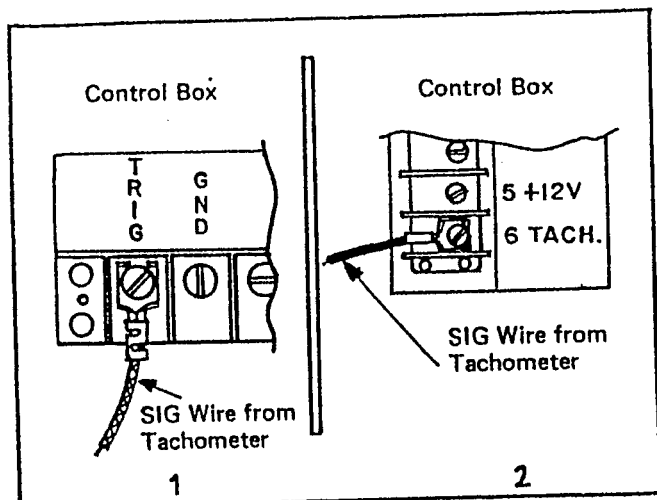


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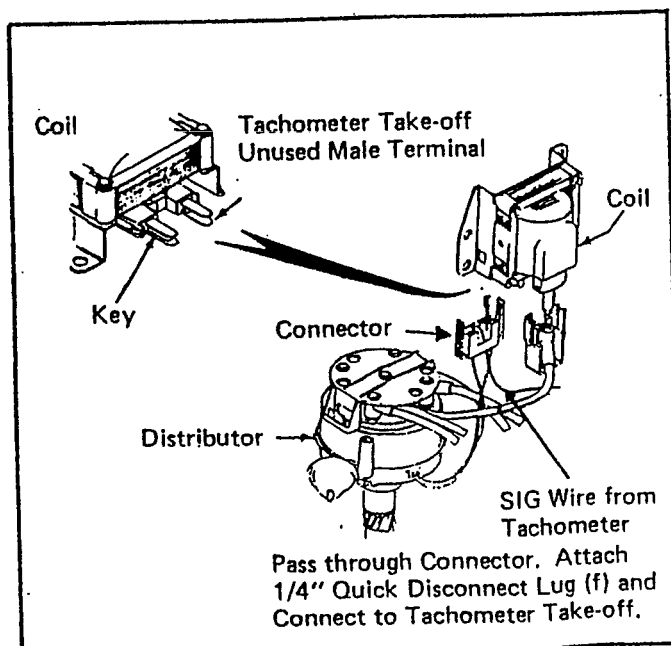


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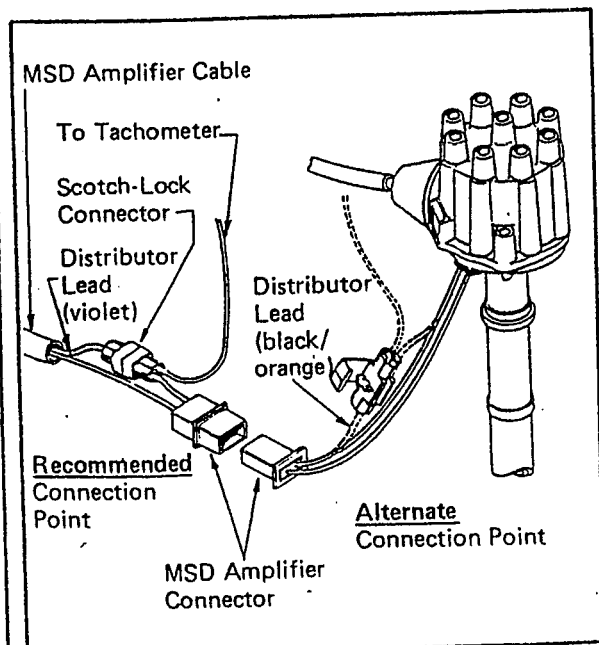


DIAGRAM J