

FORD MOTOR CO.

Ford

REMOVAL & INSTALLATION

SPEEDOMETERS & GAUGES

All Models – Instrument cluster must be removed to allow any repair or replacement of speedometer or gauges.

INSTRUMENT CLUSTER

"E" Models – Disconnect battery ground, remove seven screws retaining cluster to instrument panel and position cluster part way out of panel for access to rear of cluster. At back of cluster, disconnect speedometer cable. *NOTE* – It may be necessary to remove speedometer cable at transmission to allow room to reach speedometer quick disconnect. Disconnect multiple feed plug from printed circuit board and remove the cluster assembly from instrument panel. To install, reverse removal procedure while noting the following: Apply

approximately 1/3" diameter ball of suitable silicone lubricant in drive hole of speedometer head.

U-100 – Disconnect battery ground cable and speedometer cable from head. Remove screws attaching instrument cluster to instrument panel. Disconnect feed wires to instruments and instrument voltage regulator. Remove light sockets from back of cluster while noting location of each. Remove two clips retaining wiring harness to cluster back and pull harness away from cluster. Remove cluster assembly from behind instrument panel and out of vehicle. To install, reverse removal procedures while noting the following: The black-yellow stripe wire must be routed correctly through ammeter loop of charge indicator to prevent reverse gauge indications. Take care to avoid kinking the speedometer cable.

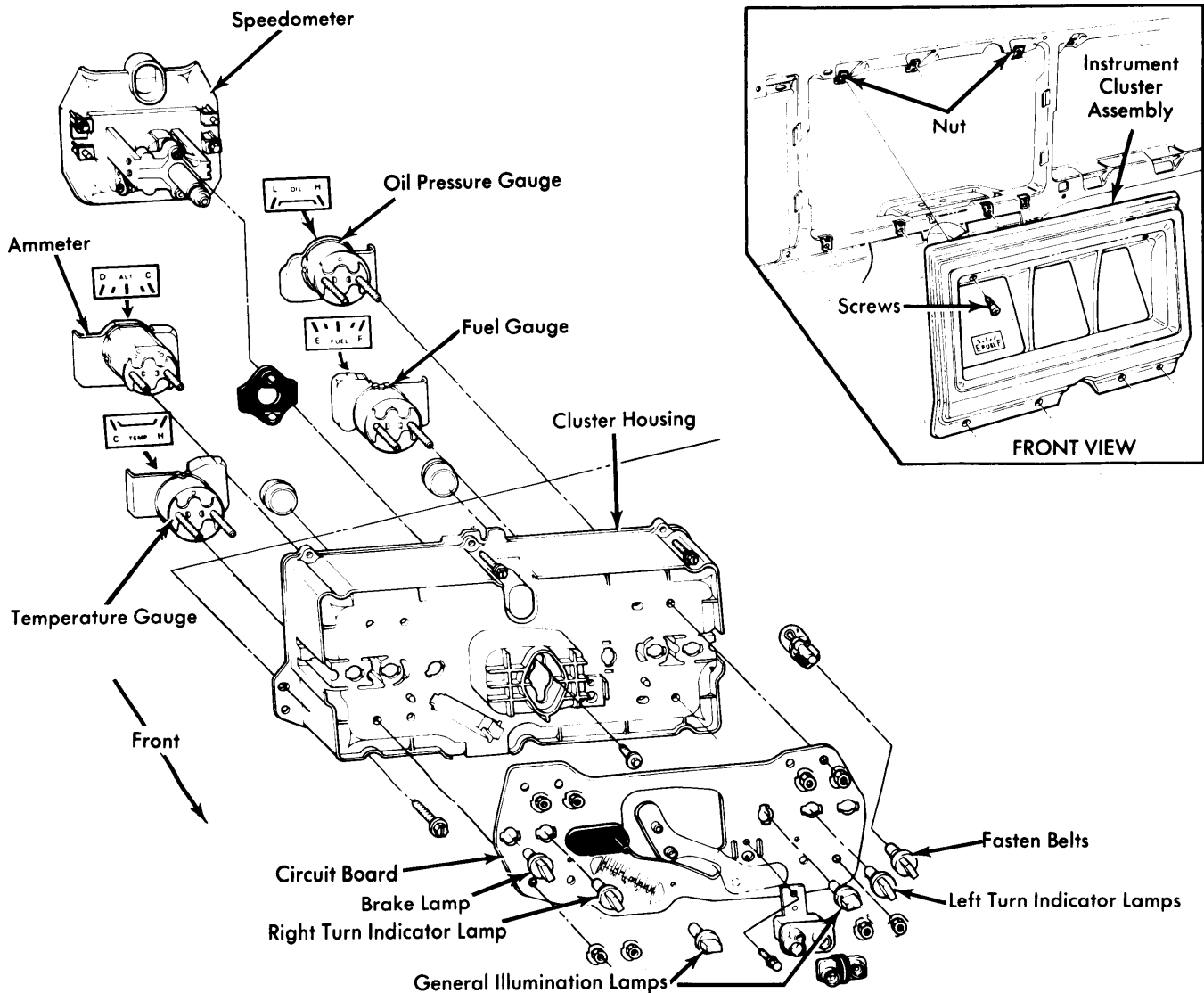


Fig. 1 Exploded View of "E" Models Instrument Cluster

FORD MOTOR CO. (Cont.)

"F" Models – Disconnect battery ground cable. Pull knobs off radio shafts (if equipped), fuel gauge switch knob, heater control knobs, and wiper/washer knob. Use a hook tool to release each knob lock tab. Remove knob and shaft from light switch. Remove one nut and washer from each radio control shaft and remove radio bezel. Remove cluster trim cover attaching screws which are located along top of bezel (four screws), between headlight and wiper/washer switches (one screw), and below radio (two screws). Disconnect air conditioning duct (if equipped) and illumination light from bezel (light is located between headlight and wiper/washer switches). Remove four screws attaching cluster, disconnect speedometer cable, and wire connector from printed circuit. Remove cluster assembly from vehicle. To install, reverse removal procedure.

INSTRUMENT VOLTAGE REGULATOR & PRINTED CIRCUIT

"E" Models & "F" Models – Remove instrument panel cluster as previously described. Disconnect (snap off) printed circuit

connector buttons from instrument voltage regulator. Disconnect multiple feed plug and remove the one attaching screw, then instrument voltage regulator from cluster assembly. Remove gauge retaining nuts, light bulbs, then remove printed circuit board from cluster. To install, reverse removal procedure while noting the following: Printed circuit board must be carefully positioned to back of cluster and engaged with the plastic locating pins.

HEADLIGHT SWITCH

All Models – Disconnect battery ground cable. With headlight switch in full "ON" position, release knob and shaft by pressing knob release button on switch housing. Pull knob and shaft out of switch. Carefully remove bezel nut holding switch to instrument panel, lower switch and unplug electrical connector and remove switch. To install, reverse removal procedure.

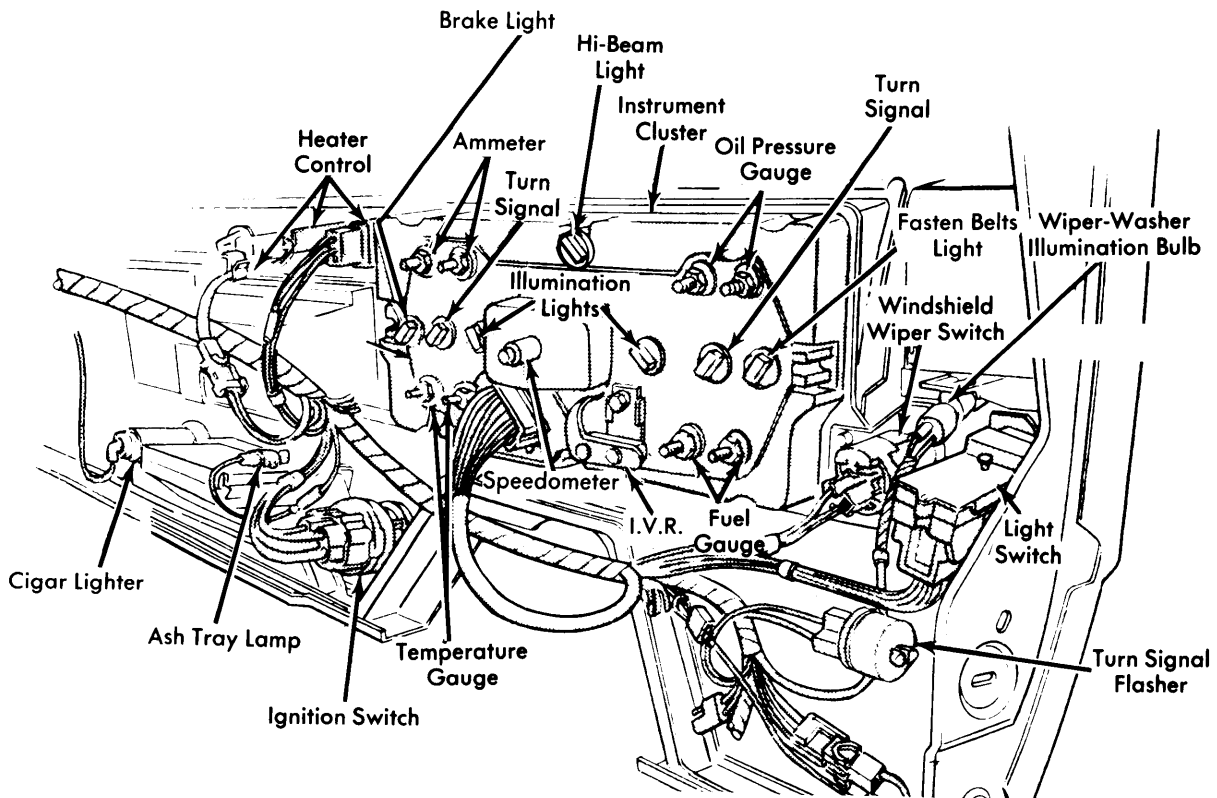


Fig. 2 Exploded View of "F" Models Instrument Cluster (Back View)