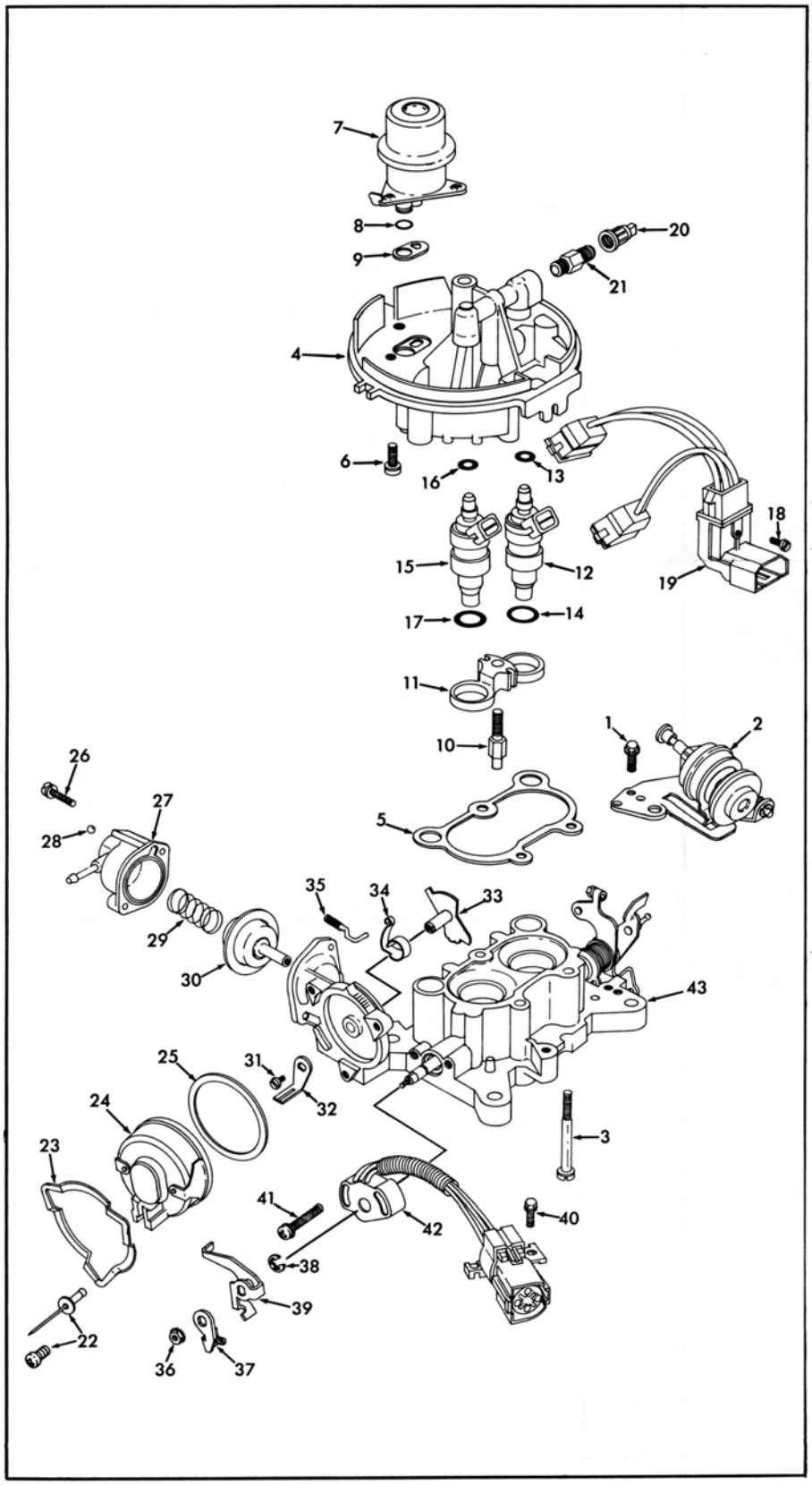
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INSTRUCTION SHEET
MOTORCRAFT CFI
FUEL CHARGING ASSEMBLY
5.0L ENGINE

DEPRESSURIZE FUEL SYSTEM BEFORE REMOVING FUEL CHARGING ASSEMBLY FROM ENGINE USING ROTUNDA TOOL (T30L-9974).

GENERAL EXPLODED VIEW



DISASSEMBLY

USE THE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTON. REMOVE AIR CLEANER STUD.

SPECIAL DISASSEMBLY NOTES

DISCONNECT THE FUEL CHARGING WIRING ASSEMBLY AT THE INJECTORS.

IDENTIFY INJECTORS AND CONNECTORS (15) & (12) AS THERMOSTAT COVER SIDE OR THROTTLE LEVER SIDE: (SEE NOTE 1).

REMOVE RETAINING SCREW (18). PINCH IN ON TABS AND REMOVE WIRING HARNESS FROM UPPER BODY.

THERMOSTAT COVER RIVETS (22) ARE REMOVED BY DRILLING THROUGH THE RIVET HEAD. NOTE INDEX SETTING BEFORE REMOVING.

BEFORE REMOVING THROTTLE POSITION SENSOR (42) SCRIBE TWO MARKS ON THE SENSOR AND THROTTLE BODY FOR PROPER REASSEMBLY.

NOTE. 1—IT IS NOT RECOMMENDED THAT INJECTORS BE REMOVED AS PART OF ROUTINE MAINTENANCE. IF THEY ARE REMOVED, CARE MUST BE TAKEN DURING REINSTALLATION TO PREVENT "O" RING DAMAGE (REF. NO'S. 13 & 16). PLACE "O" RINGS OVER INJECTOR STEMS AND APPLY A COATING OF PETROLEUM BASED (NONSYNTHETIC) MOTOR OIL. INSERT WITH A TWISTING MOTION. APPLY AIR PRESSURE TO FUEL INLET FITTING AND CHECK FOR LEAKS. (40 P. S. I. MAX. PRESSURE).

NOMENCLATURE

REF. NO.		REF. NO.	
1.	SCREW-THROTTLE POSITIONER ASSEMBLY	23.	RETAINER-THERMOSTAT COVER
2.	THROTTLE POSITIONER ASSMBLY	24.	HOUSING ASSY.-THERMOSTAT
3.	SCREW (4)-THROTTLE BODY	25.	GASKET-THERMOSTAT HSG
4.	MAIN BODY ASSY.-FUEL CHARGING	26.	SCREW & LOCKWASHER (2)-DIAPHRAGM COVER
5.	GASKET-FUEL CHARGING BODY	27.	COVER ASSY.-PULLDOWN DIAPHRAGM
6.	SCREW (3)-FUEL PRESSURE REGULATOR	28.	PLUG (LEAD)-PULLDOWN ADJ. SCREW
7.	REGUALTOR ASSY.-FUEL PRESSURE	29.	SPRING-PULLDOWN DIAPHRAGM
8.	O-RING-PRESSURE REGULATOR	30.	DIAPHRAGM ASSY -PULLDOWN CONTROL
9.	GASKET-PRESSURE REGULATOR	31.	SCREW & LOCKWASHER-LEVER
10.	SCREW-FUEL INJECTOR RETAINING	32.	LEVER-THERMOSTAT
11.	RETAINER-FUEL INJECTOR	33.	CAM-FAST IDLE
12.	INJECTOR ASSY.-FUEL (THROTTLE SIDE)	34.	POSITIONER-FAST IDLE CONTROL ROD
13.	O-RING-FUEL INJECTOR (TOP)	35.	ROD-FAST IDLE CONTROL
14.	O-RING-FUEL INJECTOR (LOWER)	36.	NUT & LOCKWASHER-LEVER
15.	INJECTOR ASSY.-FUEL (THERMOSTAT COVER SIDE	37.	LEVER-FAST IDLE ADJUSTING
16.	O-RING-FUEL INJECTOR (TOP)	38.	E CLIP-LEVER STOP
17.	O-RING-FUEL INJECTOR (LOWER)	39.	LEVER-FAST IDLE CAM
18.	SCREW-WIRING ASSEMBLY	40.	SCREW-CONNECTOR BRACKET
19.	WIRING ASSY.-FUEL CHARGING	41.	SCREW & LOCKWASHER (2)-THROTTLE POSITION SENSOR
20.	CAP-RELIEF VALVE	42.	THROTTLE POSITION SENSOR ASSY.
21.	VALVE ASSY.-FUEL PRESSURE RELIEF	43.	THROTTLE BODY ASSEMBLY
22.	RIVETS (3)-RETAINING RING SCREWS (3)-1983 & LATER		

CLEANING

CLEANING MUST BE DONE WITH UNIT DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN A SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN THE CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR UNIT BEING SERVICED.

SPECIAL INSTRUCTIONS

AFTER INSTALLING THROTTLE POSITION SENSOR CHECK FOR SMOOTH OPERATION OF THROTTLE LEVER.

DO NOT INSTALL THERMOSTAT COVER UNTIL FAST IDLE ROD & CAM ADJUSTMENTS ARE MADE. (SET COVER TO INDEX POSITION NOTED ON DISASSEMBLY).

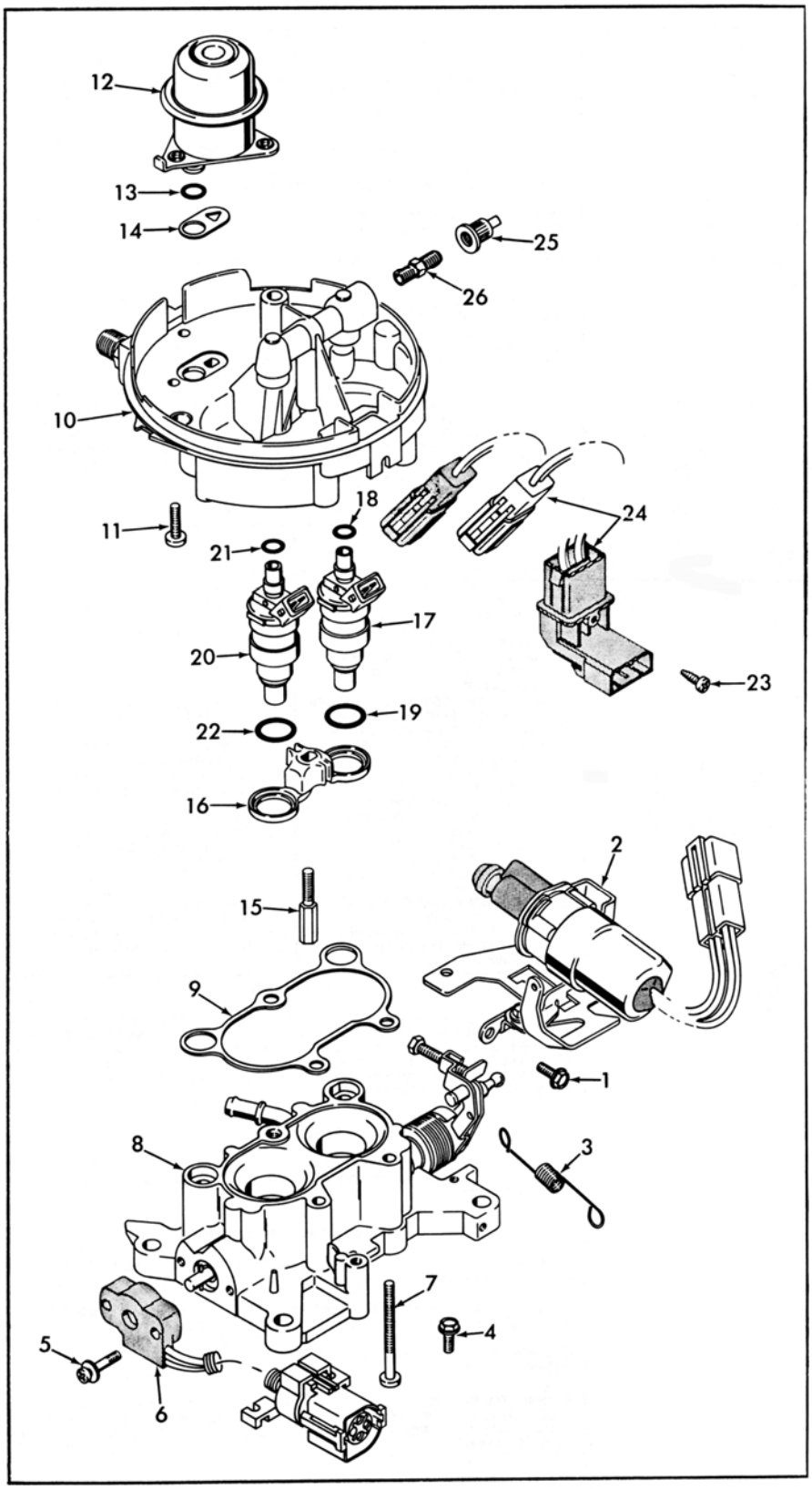
CAUTION: DO NOT INJECT AIR PRESSURE INTO FUEL PRESSURE RELIEF VALVE ASSEMBLY. (ITEM 21).

IF THROTTLE POSITION SENSOR OPERATING ROLL PIN IS REMOVED, USE EXTREME CARE WHEN INSTALLING TO PREVENT BENDING OF THE THROTTLE SHAFT. INSTALL IN EQUAL DISTANCE THROUGH THE SHAFT, AND CYCLE SHAFT TO INSURE FREE AND TRUE MOVEMENT.

INSTRUCTION SHEET
MOTORCRAFT CFI
FUEL CHARGING ASSEMBLY
3.8L ENGINE

DEPRESSURIZE FUEL SYSTEM BEFORE REMOVING FUEL CHARGING ASSEMBLY FROM ENGINE USING ROTUNDA TOOL (T30L-9974).

GENERAL EXPLODED VIEW



DISASSEMBLY

USE THE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTON. REMOVE AIR CLEANER STUD.

SPECIAL DISASSEMBLY NOTES

DISCONNECT THE FUEL CHARGING WIRING ASSEMBLY AT THE INJECTORS.

IDENTIFY INJECTORS AND CONNECTORS (20) & (17) AS THROTTLE POSITION SENSOR SIDE OR THROTTLE LEVER SIDE: (SEE NOTE 1).

REMOVE RETAINING SCREW (23). PINCH IN ON TABS AND REMOVE WIRING HARNESS FROM UPPER BODY.

NOTE: 1—IT IS NOT RECOMMENDED THAT INJECTORS BE REMOVED AS PART OF ROUTINE MAINTENANCE. IF THEY ARE REMOVED, CARE MUST BE TAKEN DURING REINSTALLATION TO PREVENT "O" RING DAMAGE (REF. NO'S. 18 & 21) PLACE "O" RINGS OVER INJECTOR STEMS AND APPLY A COATING OF PETROLEUM BASED (NONSYNTHETIC) MOTOR OIL. INSERT WITH A TWISTING MOTION. APPLY AIR PRESSURE TO FUEL INLET FITTING AND CHECK FOR LEAKS. (40 P. S. I. MAX. PRESSURE).

NOMENCLATURE

REF. NO.		REF. NO.	
1.	SCREW-DC MOTOR ACTUATOR	13.	O-RING-PRESSURE REGULATOR
2.	THROTTLE ACTUATOR DC MOTOR	14.	GASKET-PRESSURE REGULATOR
3.	SPRING -TRANS. LEVER	15.	SCREW-FUEL INJECTOR RETAINING
4.	SCREW-CONNECTOR BRACKET	16.	RETAINER-FUEL INJECTOR'S
5.	SCREW (2)-THROTTLE POSITION SENSOR	17.	INJECTOR ASSY.-FUEL (THROTTLE SIDE)
6.	THROTTLE POSITION SENSOR ASSEMBLY	18.	O-RING-FUEL INJECTOR (TOP)
7.	SCREWS (4)-THROTTLE BODY	19.	O-RING-FUEL INJECTOR (LOWER)
8.	THROTTLE BODY ASSEMBLY	20.	INJECTOR ASSY.-FUEL (SENSOR SIDE)
9.	GASKET-FUEL CHARGING BODY	21.	O-RING-FUEL INJECTOR (TOP)
10.	MAIN BODY ASSY.-FUEL CHARGING	22.	O-RING-FUEL INJECTOR (LOWER)
11	SCREW (3)-FUEL PRESSURE REGULATOR	23.	SCREW-WIRING ASSEMBLY
12.	REGULATOR ASSY.-FUEL PRESSURE	24.	WIRING ASSY.-FUEL CHARGING
		25.	CAP-RELIEF VALVE
		26.	VALVE ASSY.-FUEL PRESSURE RELIEF

CLEANING

CLEANING MUST BE DONE WITH UNIT DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN A SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN THE CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS.

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR UNIT BEING SERVICED.

SPECIAL INSTRUCTIONS

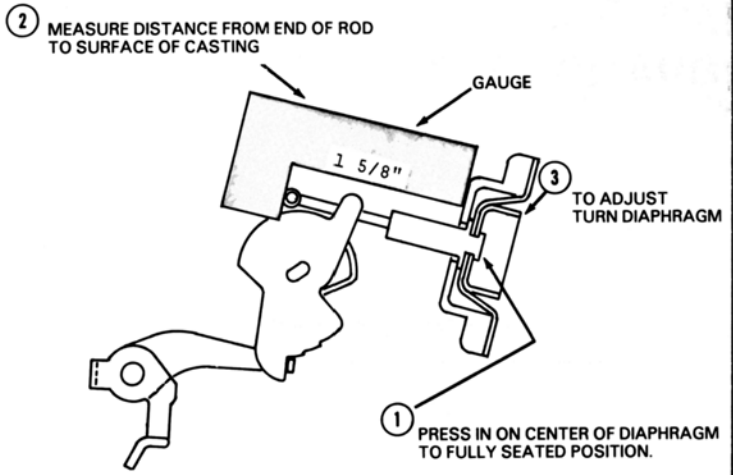
AFTER INSTALLING THROTTLE POSITION SENSOR CHECK FOR SMOOTH OPERATION OF THROTTLE LEVER.

CAUTION: DO NOT INJECT AIR PRESSURE INTO FUEL PRESSURE RELIEF VALVE ASSEMBLY. (ITEM 26).

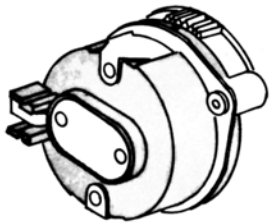
IF THROTTLE POSITION SENSOR OPERATING ROLL PIN IS REMOVED, USE EXTREME CARE WHEN INSTALLING TO PREVENT BENDING OF THE THROTTLE SHAFT. INSTALL IN EQUAL DISTANCE THROUGH THE SHAFT, AND CYCLE SHAFT TO INSURE FREE AND TRUE MOVEMENT.

WHEN RECONNECTING ELECTRICAL CONNECTORS TO INJECTORS, MAKE SURE WHITE CONNECTOR IS CONNECTED TO INJECTOR NEAREST FUEL PRESSURE RELIEF VALVE (ITEM 17, ITEM 26).

ADJUSTMENTS

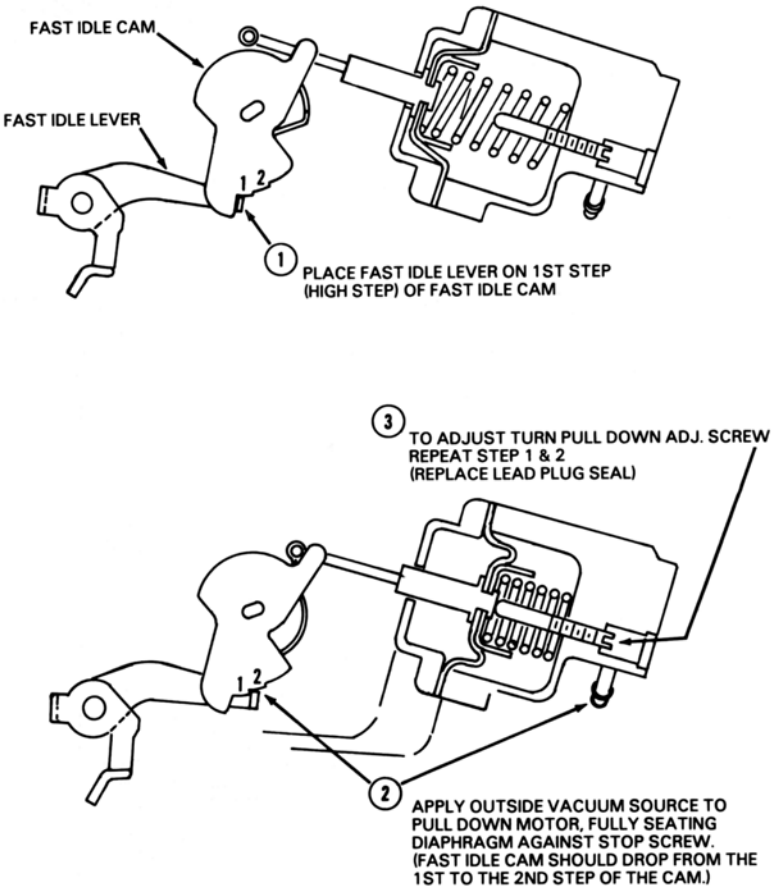


FAST IDLE CONTROL ROD ADJUSTMENT FIG 1



PLACE THERMOSTAT SPRING HOOK IN SLOT OF LEVER AND SET TO SPECIFIED POSITION. HOLD IN POSITION AS POP RIVETS ARE INSTALLED

THERMOSTAT COVER ADJUSTMENT FIG. 3



FAST IDLE CAM ADJUSTMENT FIG. 2

TORQUE SPECIFICATIONS

DESCRIPTION	N°M	LB.-INCH.
THROTTLE POSITION SENSOR SCREWS	1.3-1.8	11-16
FAST IDLE LEVER NUT	1.8-2.2	16-20
THERMOSTAT LEVER SCREW	1 4-2 1	13-19
PULLDOWN DIAPHRAGM COVER SCREWS	1.4-2.1	13-19
CHOKE CAP RETAINING SCREWS	1.5-2.0	13-18
FUEL PRESSURE RELIEF VALVE	5.9-9.4	48-84
RELIEF VALVE CAP	.6-1.9	5-10
FUEL INJECTOR WIRING HARNESS RET SCREW	9-1 0	8-10
FUEL INJECTOR RETAINING SCREW	4-7	36-60
FUEL PRESSURE REGULATOR SCREWS	3-4.4	27-40
THROTTLE BODY SCREWS	3 0-4 5	27-40
THROTTLE POSITION WIRING HARNESS SCREW	2-3	18-22
AIR CLEANER STUD	8-11	70-95
FUEL CHARGING ASSY TO INTAKE MANIFOLD	14	120