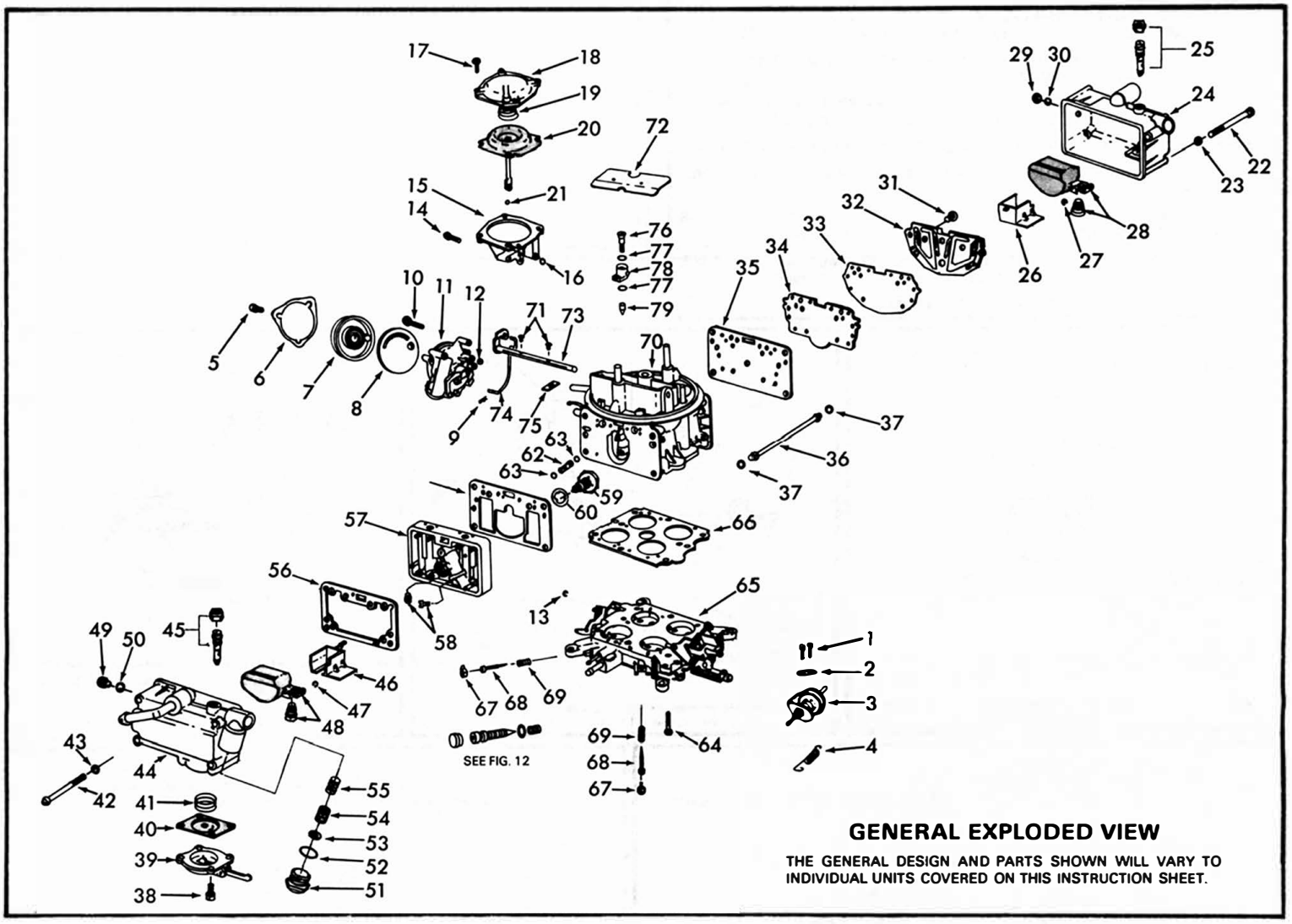
INSTRUCTION SHEET
OFF VEHICLE CARBURETOR SERVICE
HOLLEY MODEL-4180C



GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET.

DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. NOTE: THE CHOKE PLATE RETAINING SCREWS ARE STAKED AT THE THREADED END AND THIS STAKING MUST BE FILED OFF BEFORE REMOVING SCREWS. (BE CAREFUL NOT TO DAMAGE THE CHOKE SHAFT OR VENTURI WHILE FILING THE SCREWS.) DO NOT REMOVE SECONDARY IDLE SCREW PLUGS OR ADJUSTING NEEDLES. FACTORY ADJUSTED FOR EMISSION CONTROL.

NOMENCLATURE

REF. NO.	
1.	SCREW (2)-THROTTLE KICKER
2.	RETAINER-SCREWS
3.	THROTTLE KICKER ASSY.
4.	SPRING – TRANS. LINK
5.	SCREW (3) – RETAINER
6.	RETAINER – CHOKE COVER
7.	CHOKE COVER ASSY.
8.	GASKET – CHOKE COVER
9.	RETAINER – CHOKE ROD
10.	SCREW & LOCKWASHER (3) – CHOKE HOUSING
11.	CHOKE HOUSING ASSY.
12.	GASKET – CHOKE HOUSING
13.	RETAINER – SEC. DIAPHRAGM LINK
14.	SCREW & LOCKWASHER (3) – SEC DIAPH. HSG.
15.	SEC. DIAPHRAGM HSG. ASSY.
16.	GASKET – SEC. DIAPH. HSG.
17.	SCREW & LOCKWASHER (4) – COVER
18.	COVER – SEC. DIAPHRAGM
19.	SPRING – SEC DIAPHRAGM
20.	DIAPHRAGM – SECONDARY
21.	BALL – SEC. DIAPHRAGM CHECK
22.	SCREW (4) – SEC. FLOAT BOWL
23.	GASKET (4) – SEC. BOWL SCREW
24.	BOWL ASSY. – SEC. FUEL
25.	NEEDLE & SEAT ASSY. – SEC.
26.	BAFFLE – SEC. FUEL
27.	RETAINER – SEC. FLOAT
28.	FLOAT & SPRING ASSY. – SEC.
29.	PLUG – FUEL LEVEL
30.	GASKET – PLUG
31.	SCREW (6) – SEC. METERING BODY
32.	METERING BODY – SEC.
33.	GASKET – METERING BODY
34.	PLATE – METERING BODY
35.	GASKET – FUEL BOWL & METERING BODY
36.	TUBE – FUEL LINE
37.	O-RING (2) – FUEL LINE TUBE
38.	SCREW & LOCKWASHER (4) – PUMP COVER
39.	COVER ASSY. – PUMP DIAPHRAGM
40.	DIAPHRAGM – PUMP
41.	SPRING – PUMP DIAPHRAGM
42.	SCREW (4) – PRI. FUEL BOWL
43.	GASKET (4) – PRI. FUEL BOWL
44.	BOWL ASSY. – PRIMARY
45.	NEEDLE & SEAT ASSY. - PRI.
46.	BAFFLE – PRI. FUEL
47.	RETAINER – PRI. FLOAT
48.	FLOAT & SPRING ASSY. – PRI.
49.	PLUG – FUEL LEVEL
50.	GASKET – PLUG
51.	FITTING – FUEL INLET
52.	GASKET – FITTING
53.	GASKET – FILTER
54.	FILTER – FUEL
55.	SPRING – FILTER
56.	GASKET – PRI. FUEL BOWL
57.	METERING BODY – PRI.
58.	JET (2) – MAIN
59.	VALVE – PRI. ENRICHMENT
60.	GASKET – PRI. ENRICHMENT VALVE
61.	GASKET – PRI. METERING BODY
62.	TUBE – PUMP PASSAGE
63.	O-RING (2) – TUBE
64.	SCREW & LKWSHR. (8)-THROTTLE BODY
65.	THROTTLE BODY ASSY.
66.	GASKET-THROTTLE BODY
67.	CAP (2)-IDLE LIMITER
68.	NEEDLE (2)-IDLE ADJUSTING
69.	SPRING (2)-IDLE ADJ. NEEDLE
70.	MAIN BODY ASSY.
71.	SCREW (2)-CHOKE PLATE
72.	PLATE-CHOKE
73.	SHAFT-CHOKE PLATE
74.	ROD-CHOKE
75.	SEAL-CHOKE ROD
76.	SCREW -PUMP NOZZLE
77.	GASKET (2)-PUMP NOZZLE
78.	NOZZLE-PUMP DISC.
79.	NEEDLE-PUMP DISC. CHECK

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USING A COLD IMMERSION TYPE CARBURETOR CLEANER. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS. CAUTION: DO NOT SOAK ASSEMBLIES WITH ATTACHED PLASTIC PARTS FOR A LONG PERIOD OF TIME. DO NOT SOAK ANY PARTS CONTAINING RUBBER, FLOATS, OR DIAPHRAGM ASSYS.

REASSEMBLY

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

ADJUSTMENTS

SPECIAL INSTRUCTIONS

PUMP NOZZLE (78) AND SCREW (76) INSTALLATION — TIGHTEN SCREW SECURELY. USING A FLAT PUNCH AND HAMMER, STAKE THE NOZZLE SCREW IN POSITION. (CARE SHOULD BE USED WHEN STAKING THE NOZZLE SO AS NOT TO USE EXCESSIVE FORCE. REMOVE ANY CHIPS FROM CARBURETOR BODY. SEE FIG. 1

CHOKE PLATE SCREWS (71) — STAKE SCREWS AFTER INSTALLATION.

PRIMARY IDLE ADJUSTING NEEDLES (68) — TURN IN UNTIL LIGHTLY SEATED, THEN BACK 1¼ TURN. (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME.) FIG. 11

SCREWS LISTED BELOW MUST BE TIGHTENED IN THREE STAGES CROSSWISE TO ARRIVE AT THE CORRECT TORQUE.

THROTTLE BODY GASKET (66) — BE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE BODY. TORQUE THROTTLE BODY SCREWS TO 50 INCH LBS.

ENRICHMENT VALVE (59) — INSTALL WITH GASKET AND TORQUE TO 100 INCH LBS.

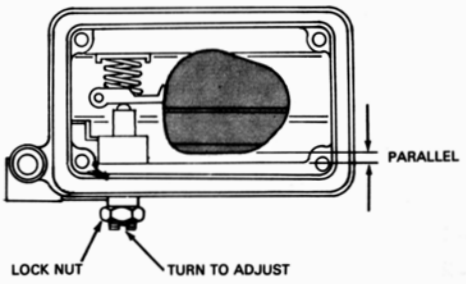
PRI. AND SEC. FUEL BOWL (44) (24) — BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

BOWL SCREW INSTALLATION (42) (22) — INSTALL GASKETS (43) (23) ON SCREWS BEFORE INSTALLING, THEN TORQUE EVENLY IN STAGES TO 50 INCH LBS.

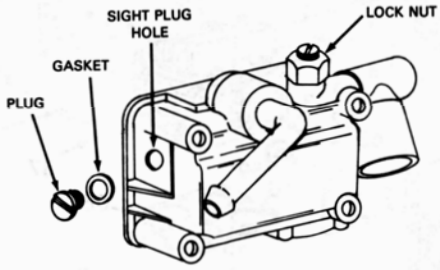
FUEL LINE TUBE (36) — INSTALL O-RINGS (37) ON THE EXTREME ENDS OF THE TUBE, THEY WILL ROLL ON THE TUBE WHEN INSTALLING THE FUEL BOWLS.

O-RINGS — LUBRICATE LIGHTLY BEFORE INSTALLING.

FLOAT BOWL INVERTED, TURN NEEDLE SEAT ASSY. UNTIL FLOAT SURFACE IS PARALLEL WITH THE SURFACE DIRECTLY BELOW THE FLOAT. TIGHTEN LOCK NUT.

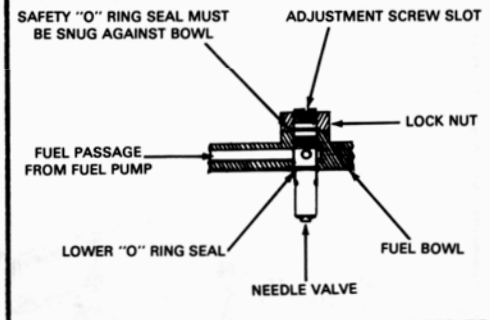


PRIMARY & SECONDARY DRY FLOAT LEVEL ADJUSTMENTS FIG. 2



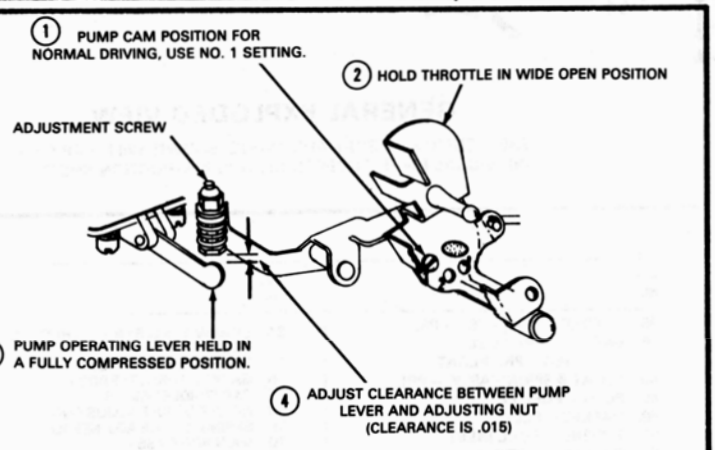
1. TRUCK SETTING ON LEVEL SURFACE AND ENGINE RUNNING.
2. REMOVE SIGHT LEVEL PLUG FROM BOWL.
3. ADJUST NEEDLE SEAT ASSY. SO FUEL LEVEL WILL BE AT BOTTOM EDGE OF SIGHT PLUG HOLE. (PLUS OR MINUS 1/32" TOLERANCE.)
4. TIGHTEN LOCK NUT.

PRIMARY & SECONDARY WET FLOAT LEVEL ADJUSTMENT FIG. 3



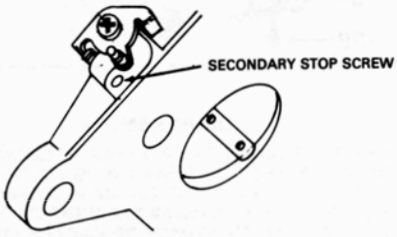
THE EXCLUSIVE SEALING FEATURES OF THIS ASSEMBLY PROVIDE SAFE ADJ. OF FUEL LEVEL WHILE ENGINE IS RUNNING.

SAFETY SEAL ADJUSTABLE FUEL VALVE FIG. 4

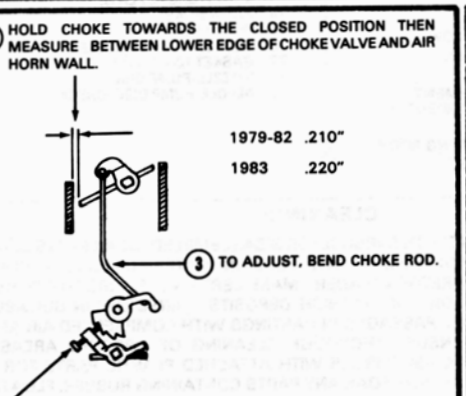


PUMP ADJUSTMENT FIG. 5

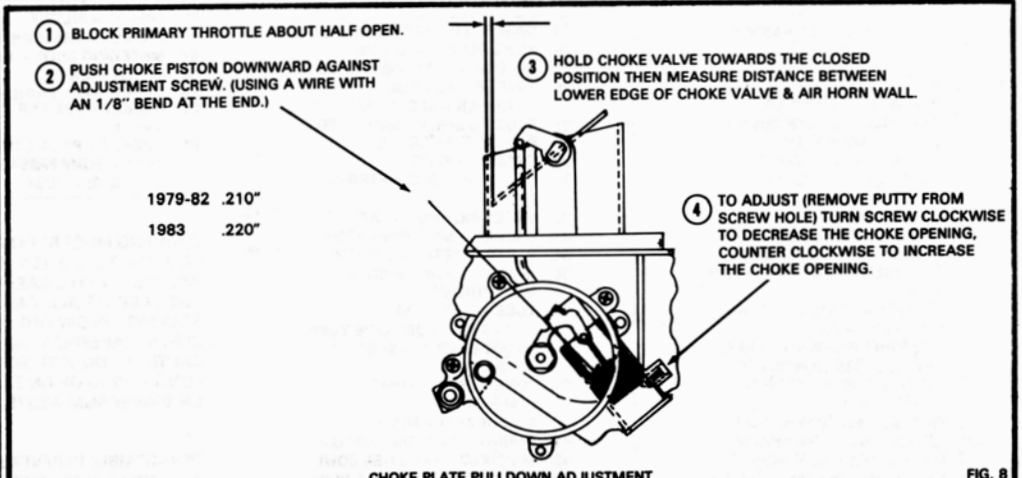
SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 TURN MORE.



SECONDARY THROTTLE STOP ADJUSTMENT FIG. 6



FAST IDLE CAM INDEX ADJUSTMENT FIG. 7



CHOKE PLATE PULLDOWN ADJUSTMENT FIG. 8

(1) HOLD THROTTLE PLATE IN WIDE OPEN POSITION

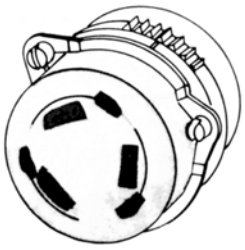
.315" Clearance

(2) HOLD CHOKE TOWARDS THE CLOSED POSITION THEN MEASURE DISTANCE BETWEEN LOWER EDGE OF CHOKE VALVE & AIR HORN WALL.

(3) TO ADJUST BEND PAWL ON FAST IDLE SPEED LEVER.

UNLOADER ADJUSTMENT FIG. 9

ALIGN MARK ON STAT COIL WITH PROPER INDEX MARK ON CHOKE HOUSING.



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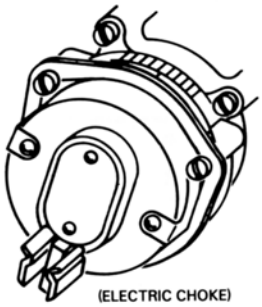

(ELECTRIC CHOKE)
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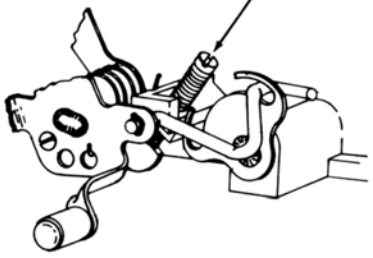
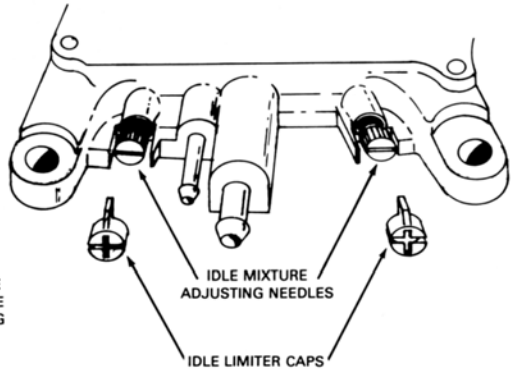
AUTOMATIC CHOKE SETTING FIG. 10

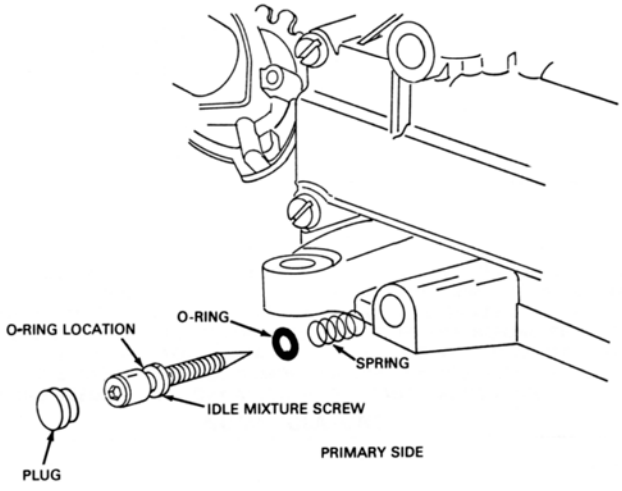


ENGINE AT OPERATING TEMPERATURE REFER TO ENGINE DECAL AND SERVICE MANUAL FOR PROPER IDLE ADJUSTING PROCEDURE & SPECIFICATIONS.

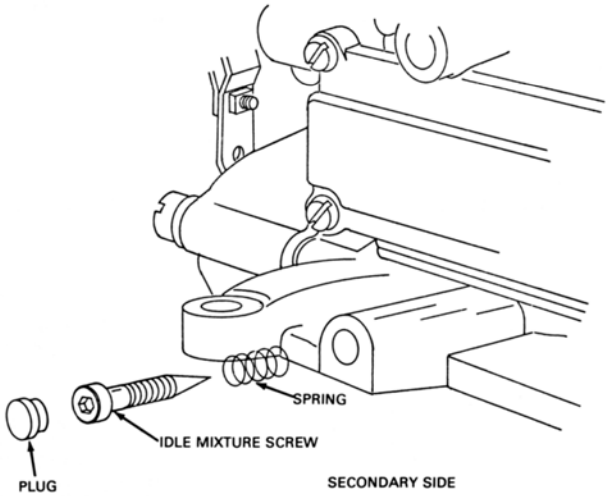


SLOW IDLE ADJUSTMENT FIG. 11

1983 TAMPERPROOF IDLE MIXTURE SCREWS



PRIMARY SIDE



SECONDARY SIDE

DO NOT REMOVE SECONDARY PLUGS OR IDLE MIXTURE SCREWS. **(FOR REFERENCE ONLY.)**

TO REMOVE TAMPERPROOF IDLE MIXTURE CONCEALMENT PLUG, CENTER PUNCH AND DRILL 3/32" DIAMETER HOLE THROUGH THE HARDENED STEEL PLUG. INSTALL AN EASY OUT AND REMOVE THE PLUG.

BEFORE REMOVING IDLE ADJUSTING SCREWS, CAREFULLY TURN SCREWS IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT SCREWS. (RECORD FOR PROPER REASSEMBLY).

REASSEMBLY: TURN IN IDLE MIXTURE SCREWS UNTIL LIGHTLY SEATED. THEN BACK OUT THE NUMBER OF TURNS RECORDED ON DISASSEMBLY. REPLACE PLUG TO INSURE PROPER METERING.

FIG. 12