INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE ROCHESTER MODELS M4MC, M4MCA, M4MEA

GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET BOWL COVER INSTALLATION. TIGHTEN BOWL COVER SCREWS IN SEQUENCE AS SHOWN. 26→ USE THESE PARTS FROM OLD PLUNGER

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: PUMP LEVER PIN (9) CAN BE DRIVEN IN UNTIL IT RELEASES PUMP LEVER (10). BOWL COVER SCREWS (24) ARE LOCATED INSIDE OF THE AIR HORN. ON MODELS WITH AUXILIARY METERING ROD (26). PUSH TOP OF ROD TO ONE SIDE TO UNHOOK IT FROM ITS HOLDER BEFORE REMOVING BOWL COVER GASKET (27). ANEROID OR FILLER SPOOL METERING ROD ASSY. (32) IS FRAGILE AND SHOULD BE HANDLED GENTLY. THE UNITS ARE FACTORY-ADJUSTED AND EXTREMELY CRITICAL. NO ADJUSTMENT SHOULD BE ATTEMPTED. REPLACED WITH A SPACER ON 1976 MODELS. POWER PISTON ASSYS. (33)(37) CAN BE REMOVED BY CAREFULLY PRYING OUT OR BY BOUNCING PISTON. CAUTION: ON MODELS USING A MAIN AND AUXILIARY POWER PISTON, BE SURE AND MARK POWER PISTON SPRINGS (36)(38) AS THEY ARE REMOVED. THEY ARE NOT INTERCHANGEABLE. PRIMARY MAIN JETS (45) ARE THE ONLY JETS REMOVEABLE. IDLE LIMITER CAPS (64) CAN CAREFULLY BE REMOVED BY CUTTING OFF WITH PLIERS. NO REPLACEMINT CAPS ARE NECESSARY AS A BARE MIXTURE NEEDLE IS SUFFICIENT TO INDICATE THAT THE MIXTURE HAS BEEN READJUSTED. BEFORE REMOVING IDLE ADJUSTING NEEDLES (65) TURN EACH NEEDLE IN AND COUNT THE NUMBER OF TURNS IT TAKES TO SEAT EACH NEEDLE (RECORD). 1976 MODELS HAVE A.P.T. ADJUSTMENT SCREW LOCATED DIRECTLY IN FRONT OF POWER PISTON. NO ATTEMPT SHOULD BE MADE TO READJUST. FACTORY ADJUSTED TO MEET EMISSION REQUIREMENTS.

NOMENCLATURE

REF NO.		REF NO.	
	CCDEW (2) EDONT VACIUM		CDDING AUY DOWED DICTON
1.	SCREW (2)-FRONT VACUUM BREAK	~58.	SPRING-AUX. POWER PISTON
2.	FRONT VACUUM BREAK ASSY.	39.	INSERT - FLOAT BOWL
	HOSE-FRONT VAC. BREAK		FLOAT & LEVER ASSY.
	UNIT		HINGE PIN - FLOAT
4.	CONNECTING ROD-FRONT VAC.	42.	NEEDLE, SEAT, & GASKET
	BREAK		ASSY.
5000	HOSE-REAR VAC. BREAK		PLUG-PUMP DISC. BALL
	SCREW (2)-REAR VAC. BREAK		BALL - PUMP DISC.
	REAR VACUUM BREAK ASSY.		JET (2) - PRIMARY MAIN
8 -	CONNECTING ROD-REAR VAC.	46.	SCREW (3)-CHOKE COVER
	BREAK	1.7	RETAINER (7) CHOKE COVER
	PIN-PUMP LEVER		RETAINER (3)-CHOKE COVER CHOKE COVER ASSY.
	LEVER - PUMP ROD - PUMP		GASKET - CHOKE COVER
-	SCREW & LOCKWASHER- VENT	The same of the sa	SCREW - STAT COIL LEVER
	COVER	0.00	LEVER - STAT COIL
×13.	COVER - VENT VALVE	The state of	SCREW & WASHER-CHOKE
	GASKET - COVER	PER	HOUS ING
×15.	SPRING - VENT VALVE	53.	CHOKE HOUSING
16.	SCREW - CHOKE LEVER	54.	SEAL-CHOKE HOUSING
	LEVER - CHOKE SHAFT	1000	CAM - FAST IDLE
18.	SCREW-SEC. METERING ROD		CAM - SECONDARY LOCKOUT
	HOLDER	57.	SHAFT ASSYINTERMEDIATE
	HOLDER-SEC. METERING RODS		CHOKE
	METERING ROD (2)-SECONDARY	1.07.07	
21.	SCREW & LOCKWASHER (2)- BOWL COVER (LONG)		LEVER-INTERMEDIATE CHOKE SEAL-INTERMEDIATE CHOKE
22	SCREW & LOCKWASHER (4)-	00.	SHAFT
24.	BOWL COVER	61.	TUBE - VACUUM PASSAGE
×23.	BAFFLE - AIR		SCREW & LOCKWASHER (2) -
	SCREW (2) - BOWL COVER		THROTTLE BODY
	(TAPERED HEAD)	63.	THROTTLE BODY ASSY.
	BOWL COVER ASSY.	64.	CAP (2) - IDLE LIMITER
×26.	METERING ROD (1) -	65.	NEEDLE (2)-IDLE ADJUSTING
	AUXILIARY	66.	SPRING (2) - IDLE ADJ.
	GASKET - BOWL COVER		NEEDLE
	SPACER - PUMP STEM		GASKET - THROTTLE BODY
	PUMP ASSY.	The second secon	FILTER NUT-FUEL INLET
	SPRING - PUMP RETURN		GASKET-FILTER NUT
	SCREW (2)-ANEROID ASSY.		FILTER - FUEL
	ANEROID ASSY. (SPACER 1976)		
	POWER PISTON ASSY MAIN SPRING - METERING ROD		SCREW (2) - COVER .
	METERING ROD (2)-MAIN		COVER - IDLE COMPENSATOR
			IDLE COMPENSATOR ASSY.
			GASKET - IDLE COMPENSATOR FLOAT BOWL ASSY.
- 1 -	AUXILIARY	/ 0 .	LOWI DOME WOOL

" ITEMS NOT NORMALLY FOUND ON ALL MODELS.

CLEANING

USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BORES ARE FREE OF ALL CARBON DEPOSITS. RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OB-SCURE AREAS. CAUTION: DO NOT SOAK FILLER SPOOL OR ANEROID ASSY. (32), FLOAT (40), DIAPHRAGM UNITS (2) (7), OR PARTS MADE OF RUBBER OR PLASTIC IN CLEANING SOLVENTS. DO NOT SAND, WIRE BRUSH, OR FILE ON TEFLON-COATED PARTS.

REASSEMBLY

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

SPECIAL INSTRUCTIONS

SPECIAL INSTRUCTIONS SEE NEXT PAGE.

ADJUSTMENTS

SPECIAL INSTRUCTIONS

FUEL FILTER NUT & GASKET (68) (69) - INSTALL AND TIGHTEN SECURELY (18 FT. LBS.). DO NOT OVER-TIGHTEN.

IDLE ADJUSTING NEEDLES (65)- TURN EACH NEEDLE IN UNTIL LIGHTLY SEATED, THEN BACK OUT THE NUMBER OF TURNS COUNTED AT DISASSEMBLY (ALTERNATE 3-4 TURNS OUT).

SEALS, INTERMEDIATE CHOKE SHAFT (60) (54)- SEAL (60) INSTALL WITH LIP FACING OUT. SEAL (54) INSTALL WITH LIP FACING IN.

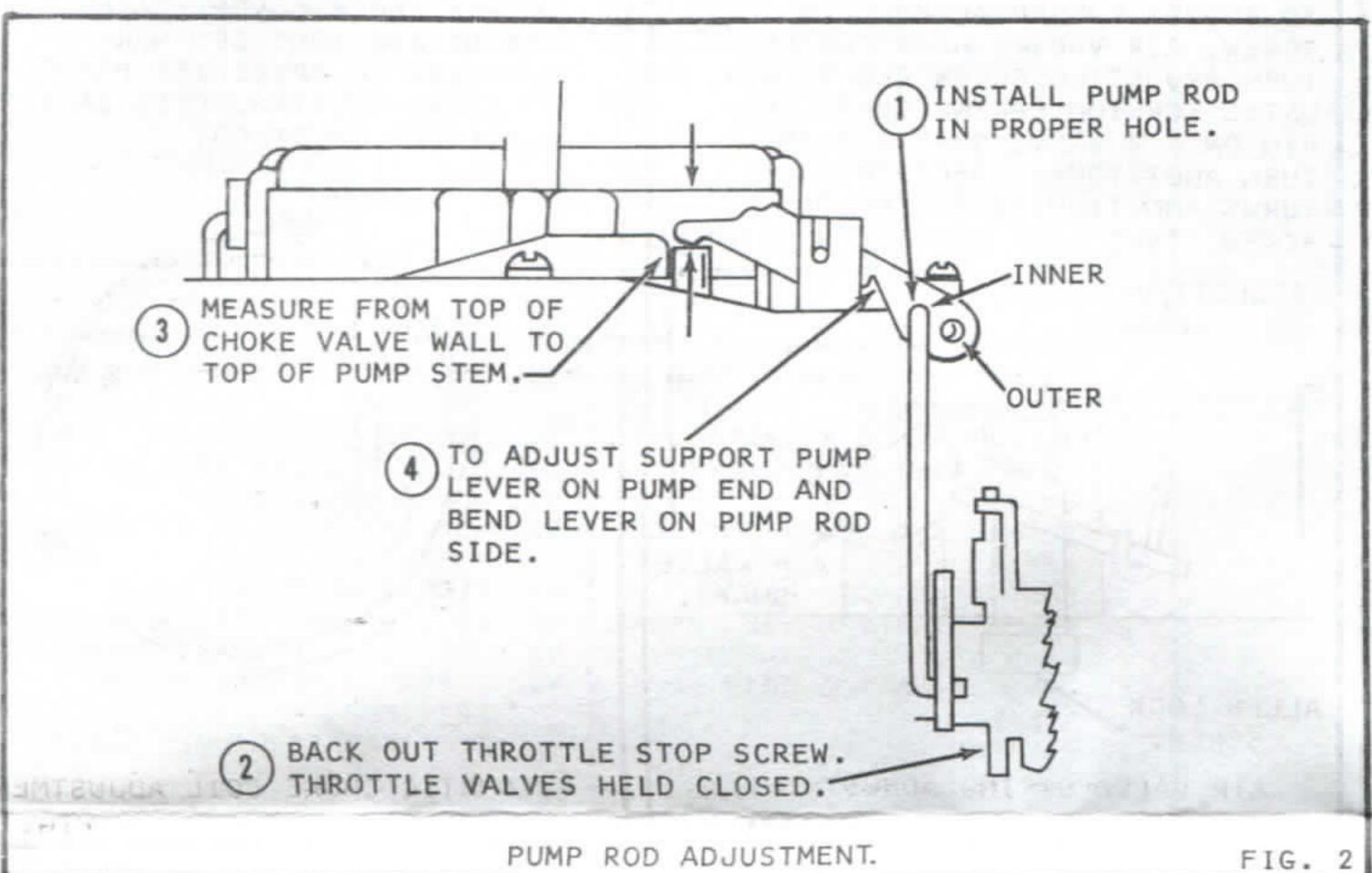
CHOKE COVER ASSY. (48)- DO NOT INSTALL COVER UNTIL CHOKE LINKAGE ADJUSTMENTS ARE MADE. CAUTION: ELECTRIC CHOKE MODELS DO NOT USE A CHOKE COVER GASKET (49) BETWEEN THE ELECTRIC CHOKE ASSY. AND HOUSING

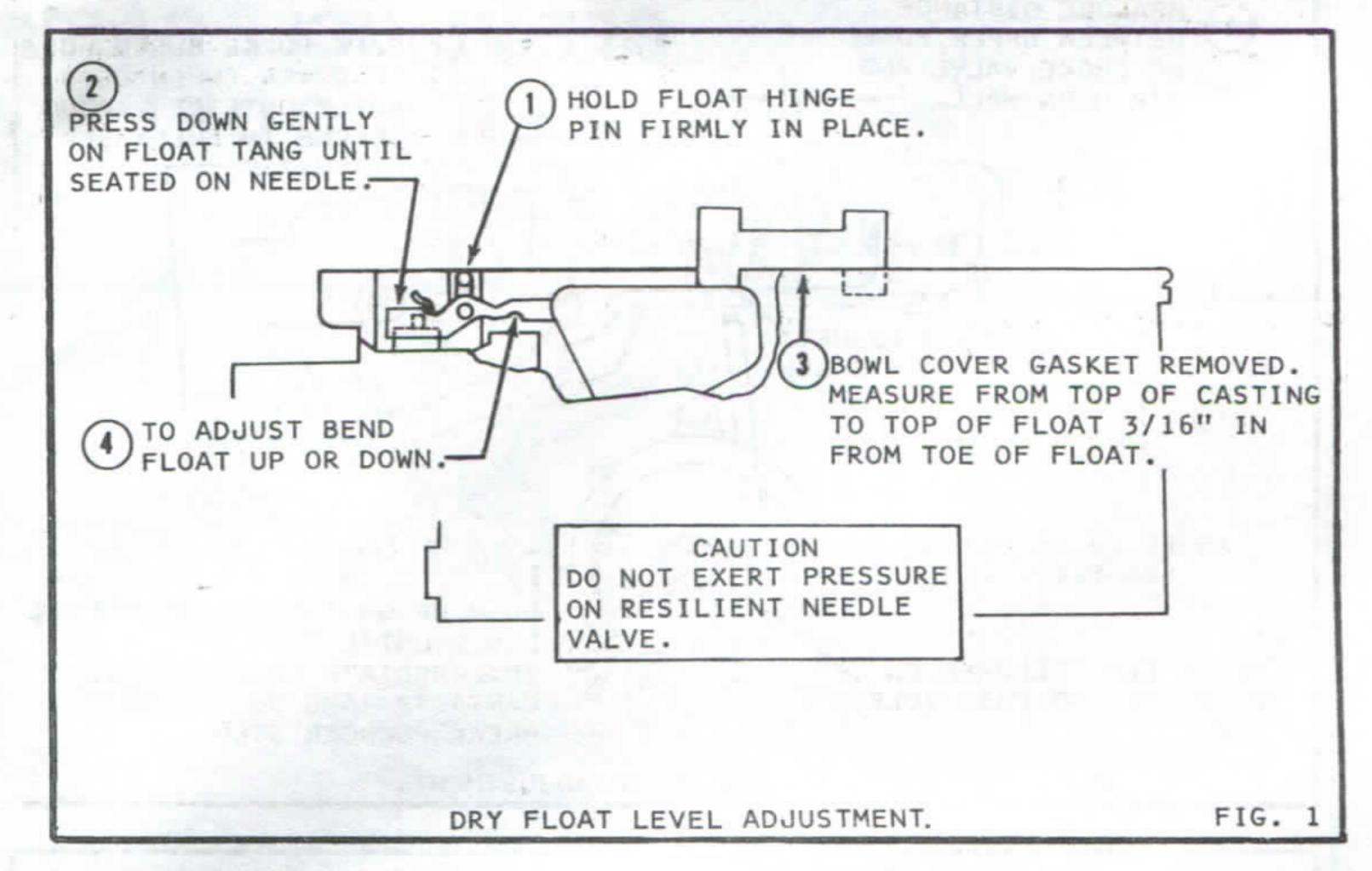
FLOAT INSTALLATION- INSTALL FLOAT BY SLIDING FLOAT LEVER UNDER PULL CLIP FROM FRONT TO BACK, INSTALL FLOAT PIN (DO NOT INSTALL PULL CLIP IN HOLES OF FLOAT ARM).

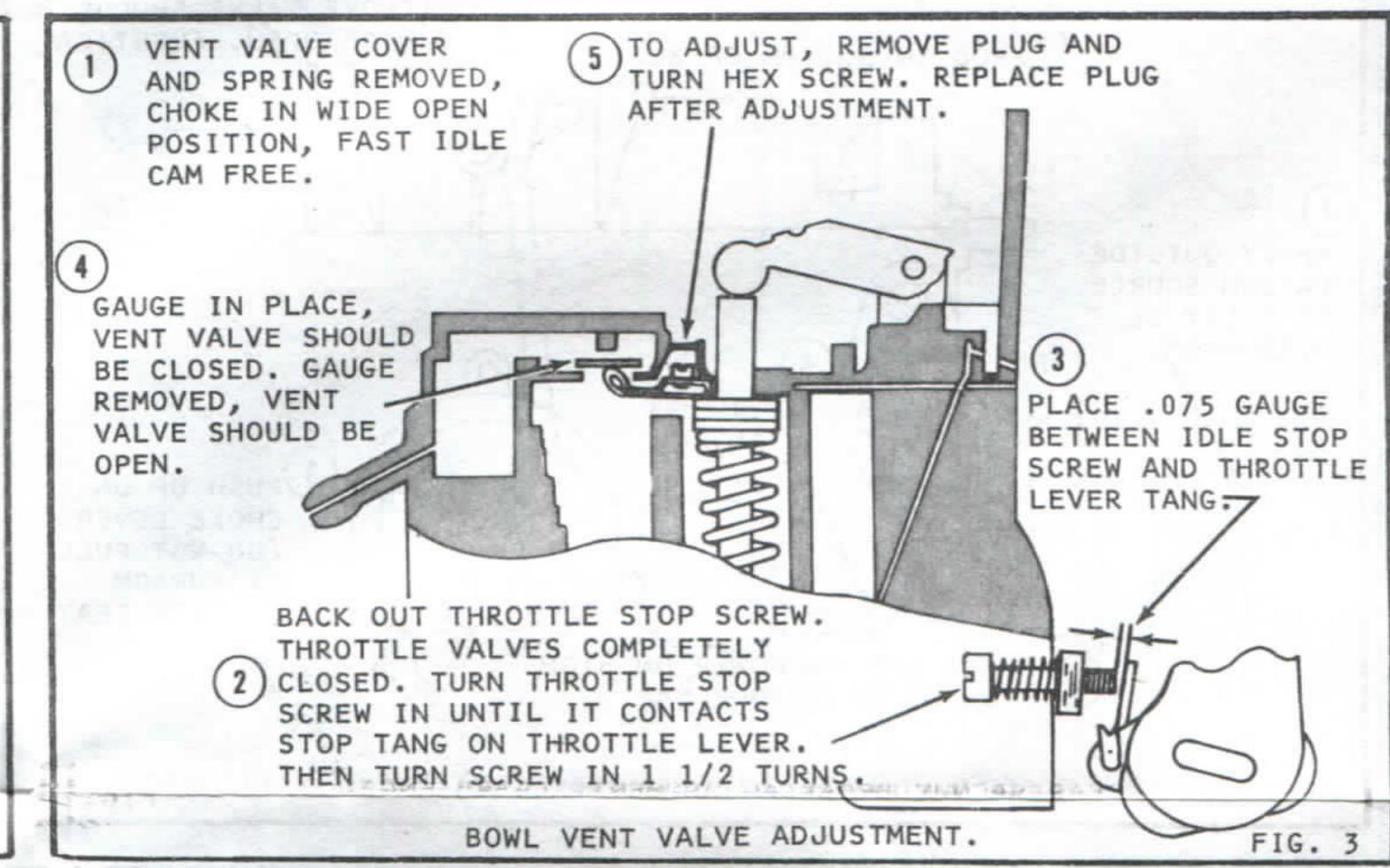
POWER PISTON ASSYS. (33) (37)- PRESS DOWN FIRMLY ON PLASTIC POWER PISTON RETAINER TO BE SURE IT IS FLUSH WITH TOP OF BOWL CASTING.

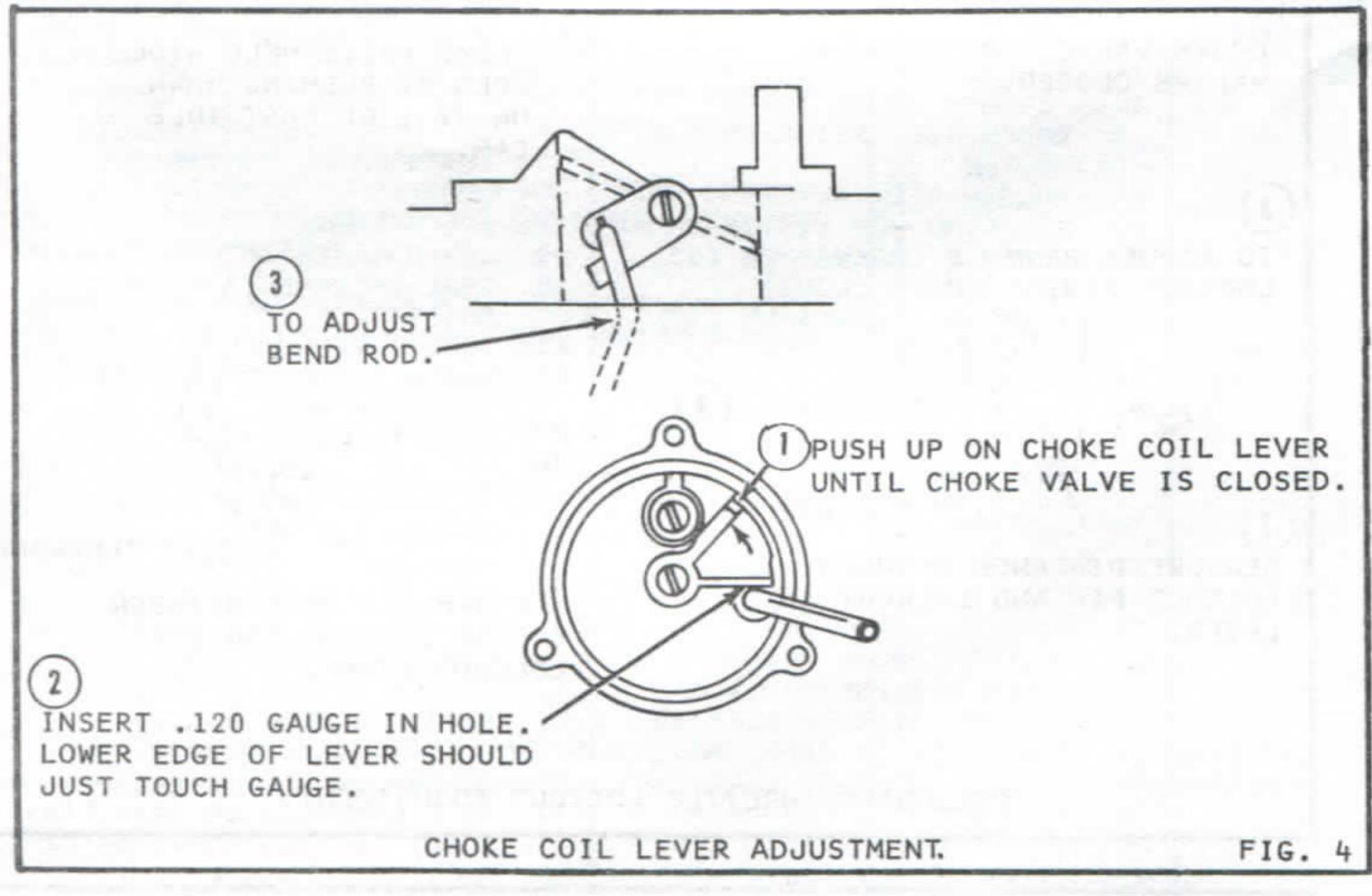
BOWL COVER INSTALLATION-TIGHTEN BOWL COVER SCREWS IN SEQUENCE AS SHOWN. (SEE EXPLODED VIEW).

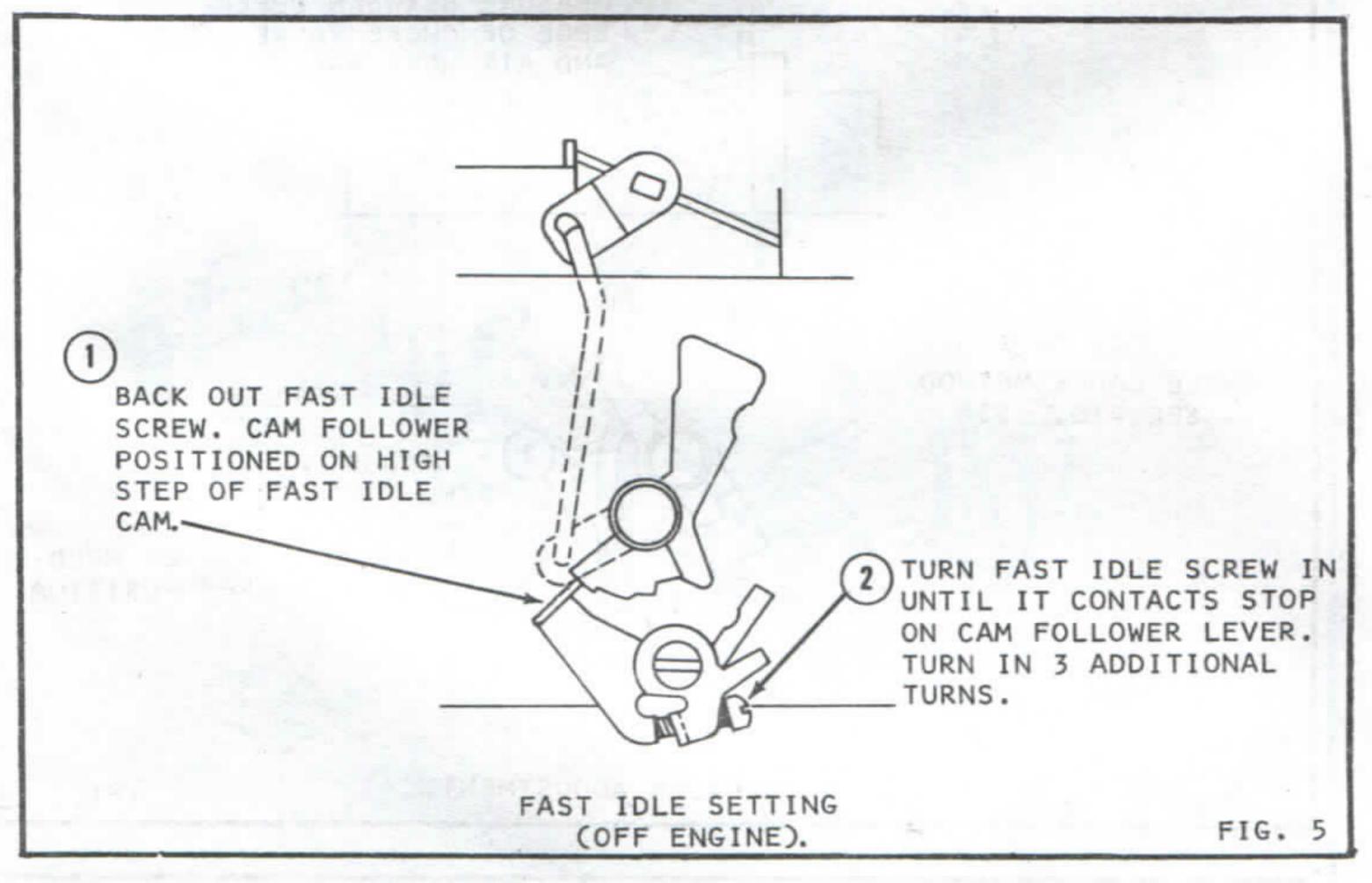
REFER TO DECAL IN ENGINE COMPARTMENT FOR CORRECT TUNE UP PROCEDURE AND SPECIFICATIONS.

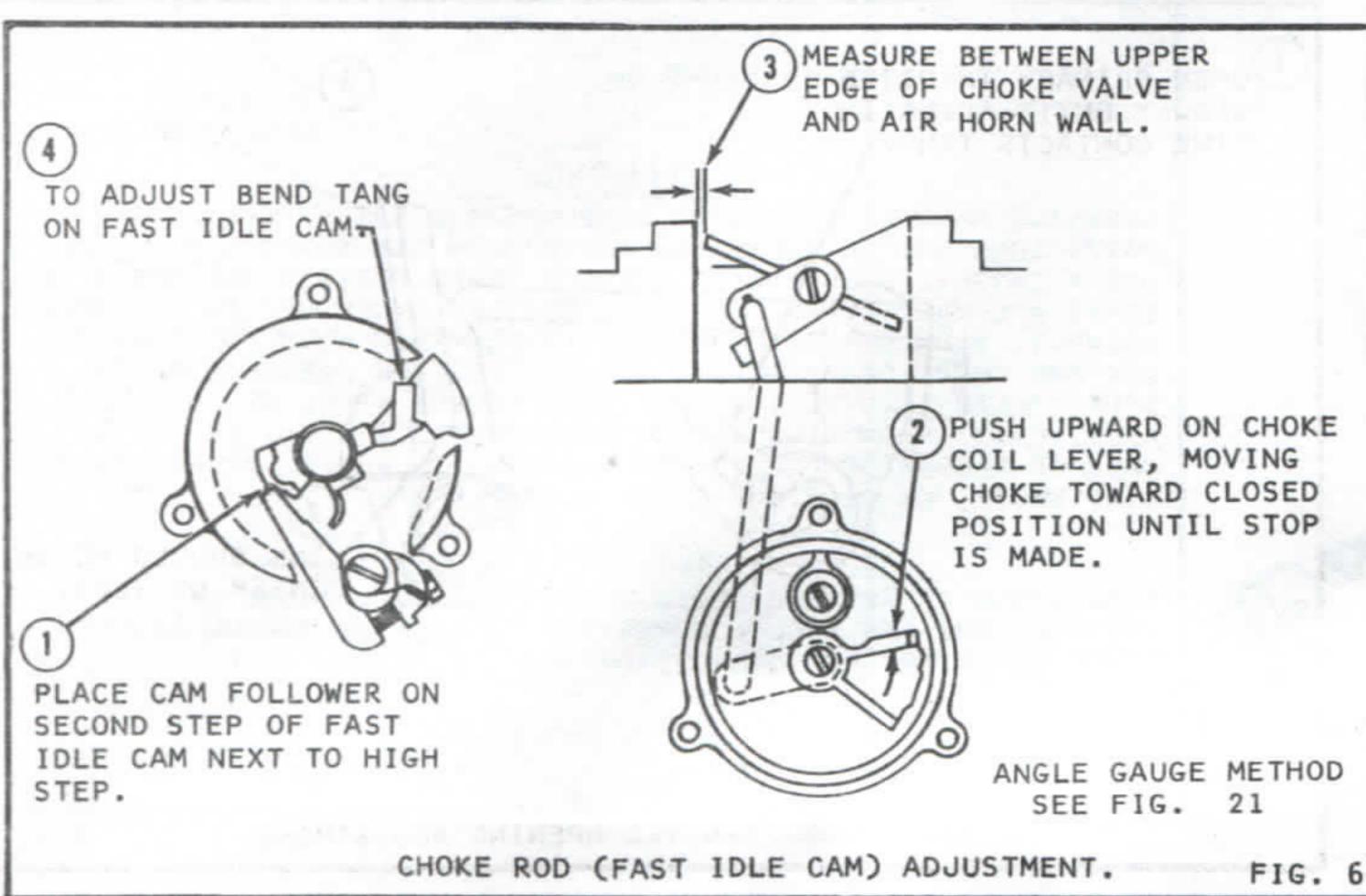


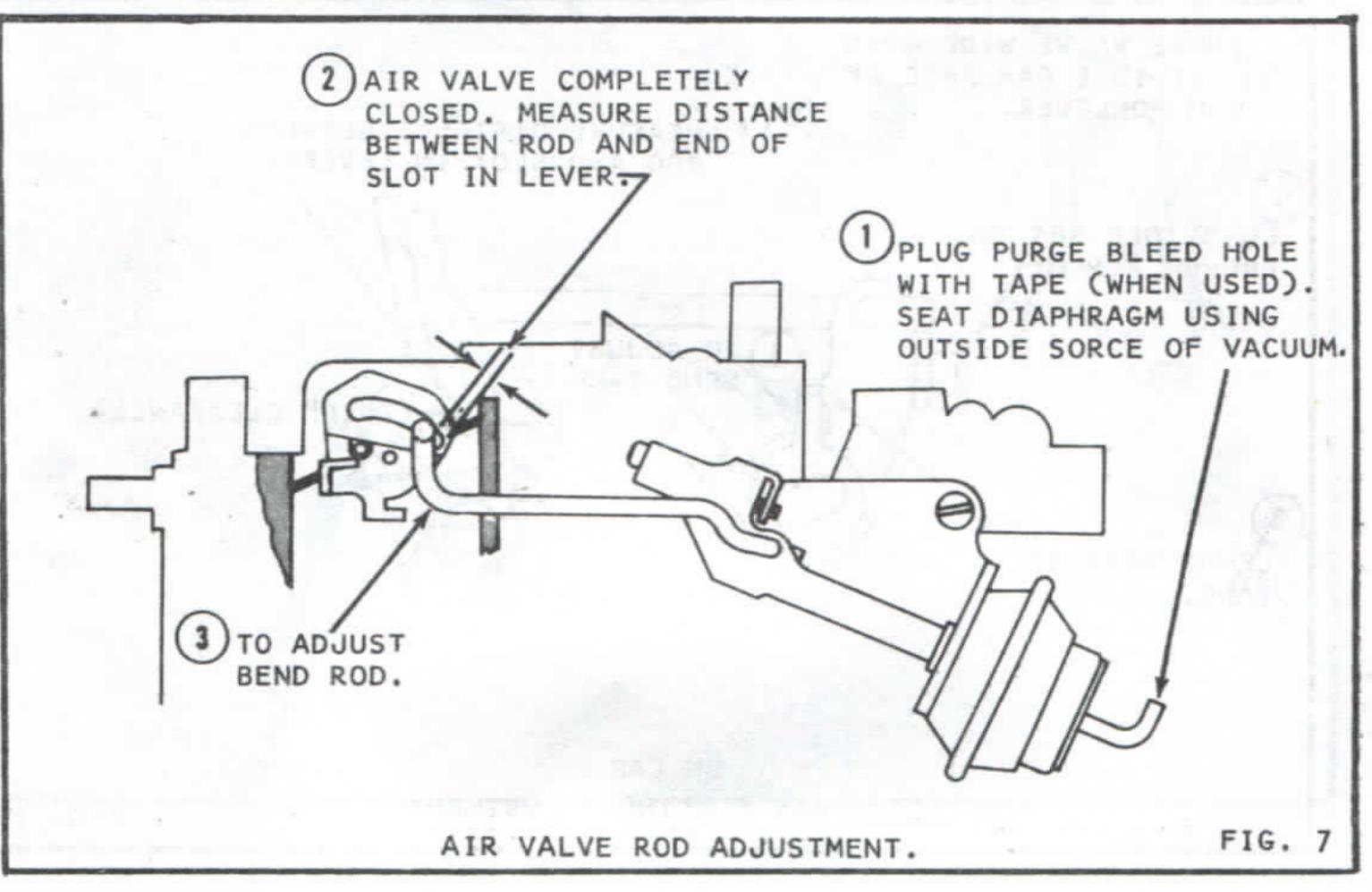


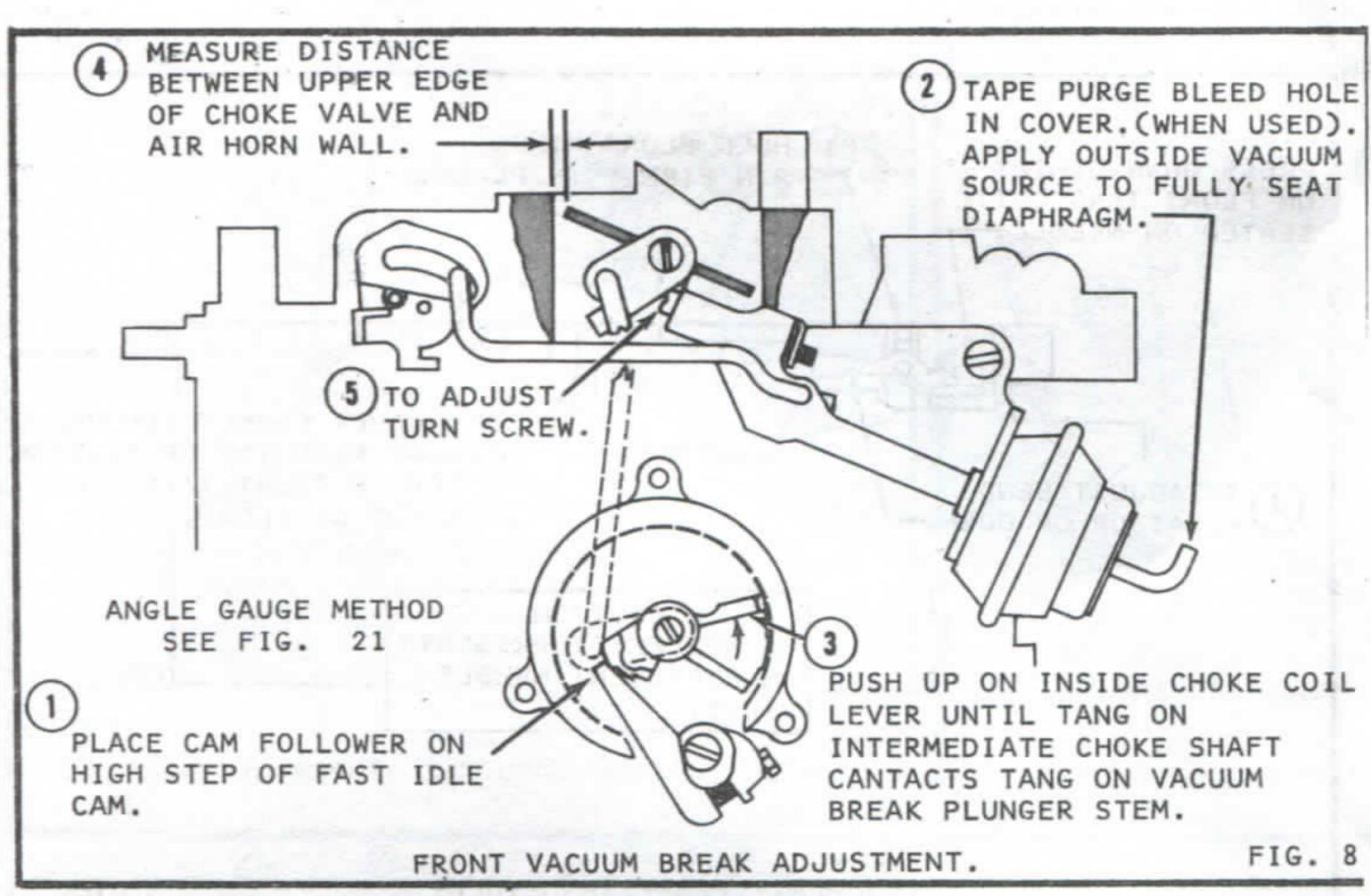


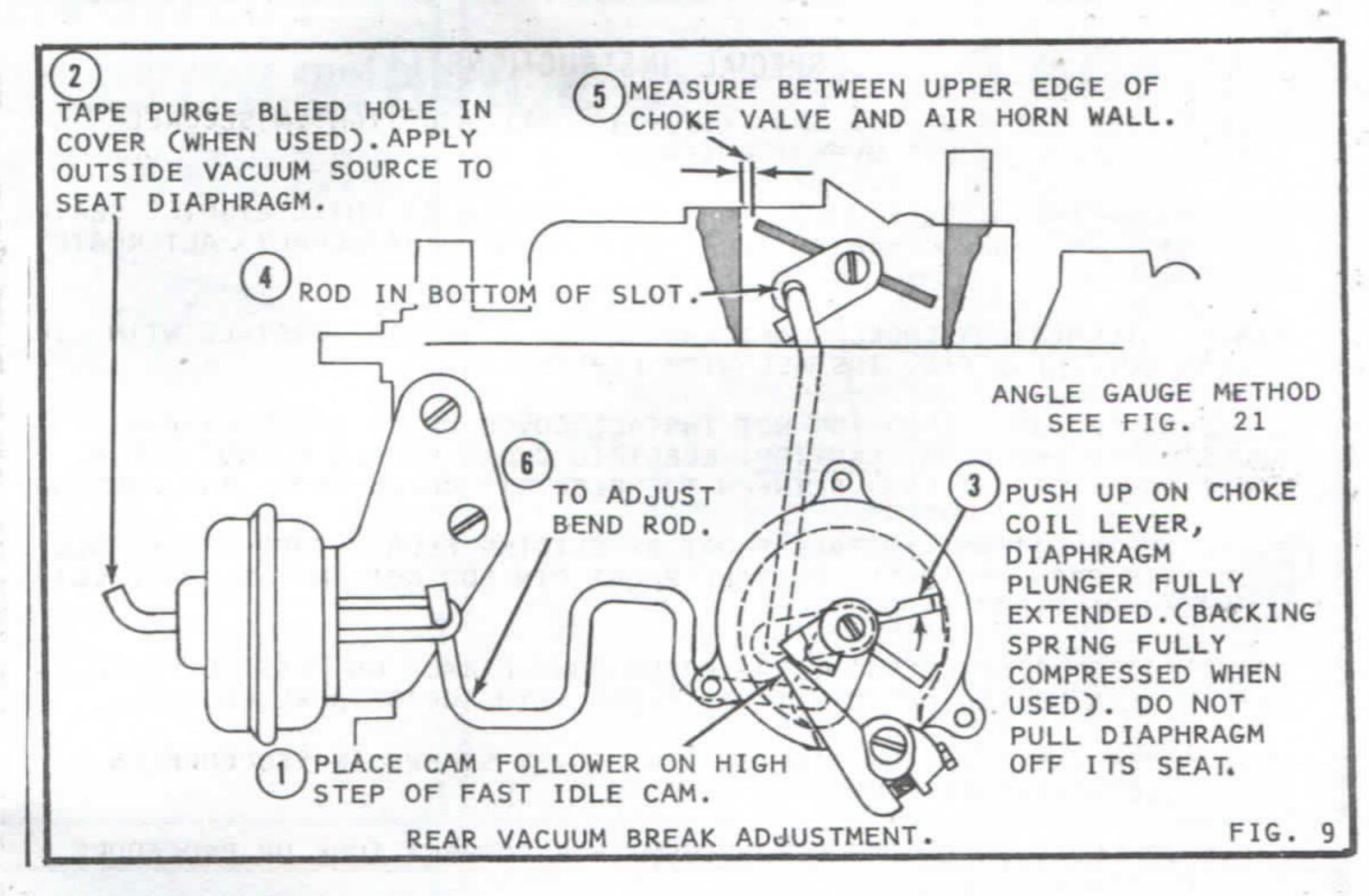


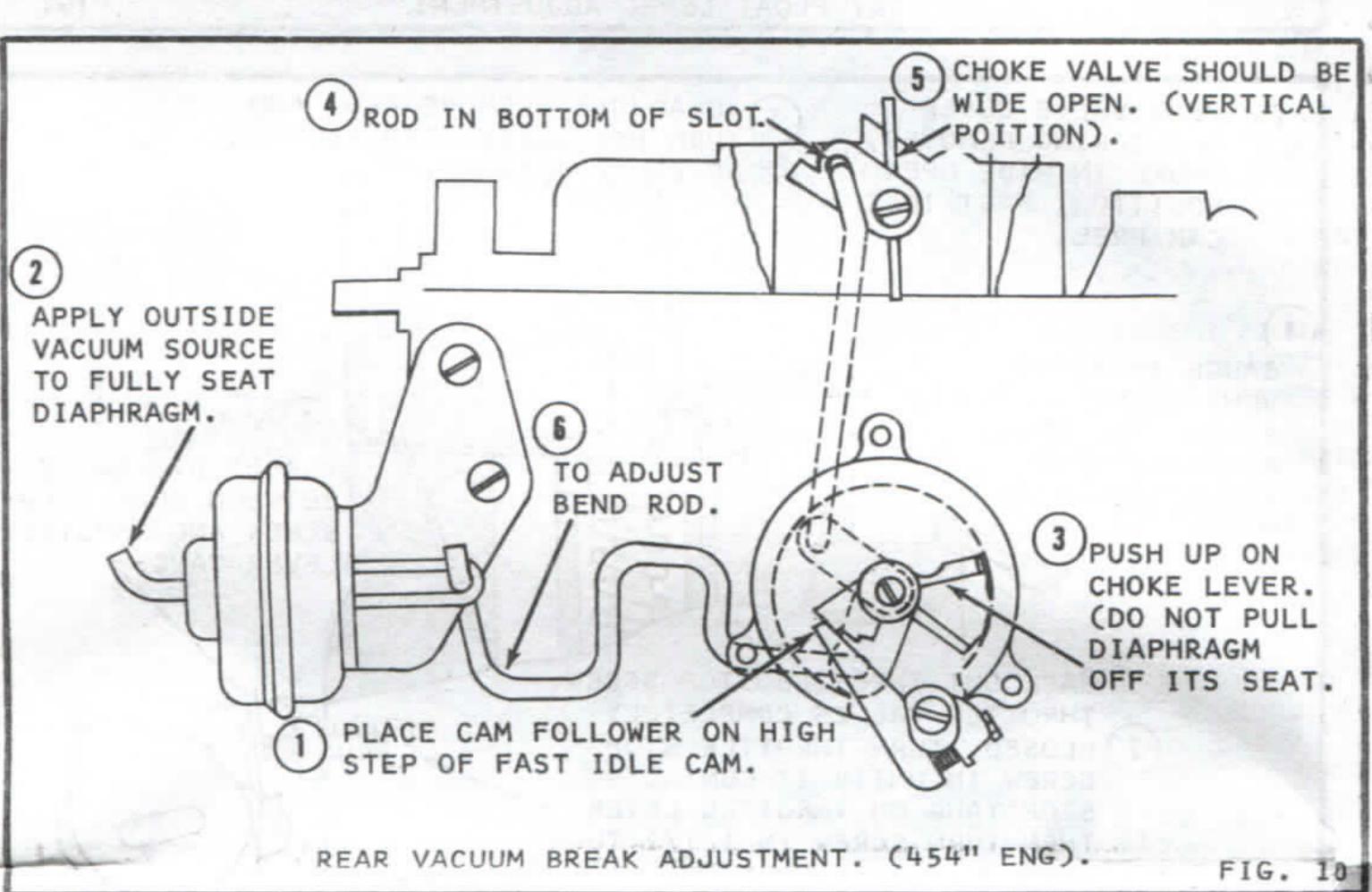


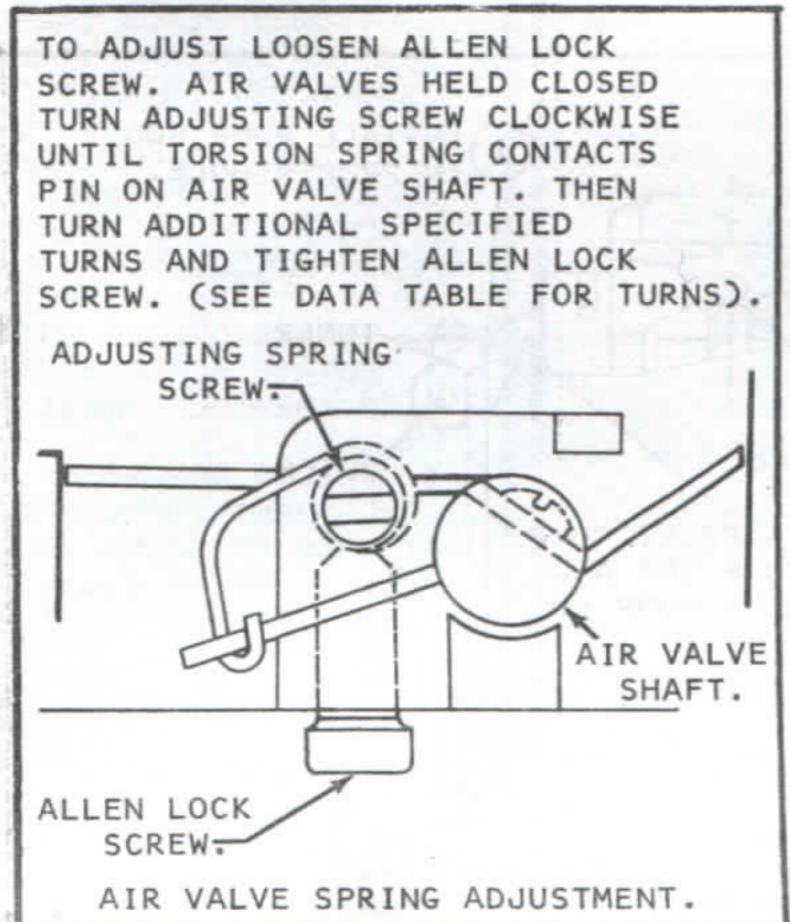


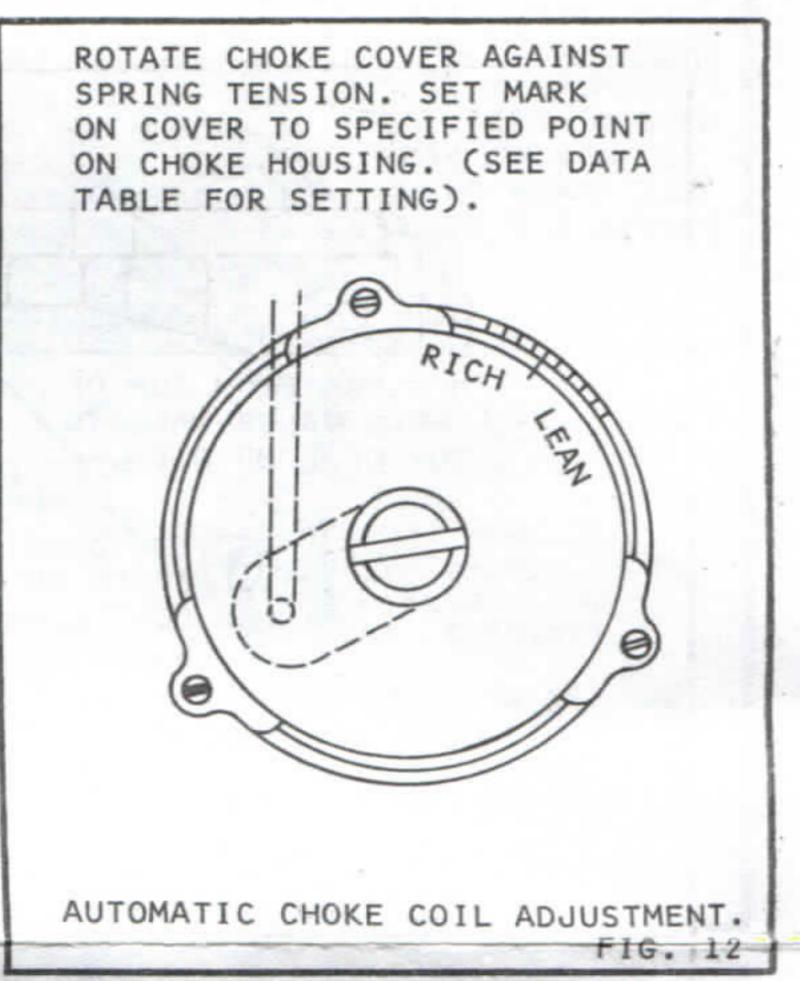


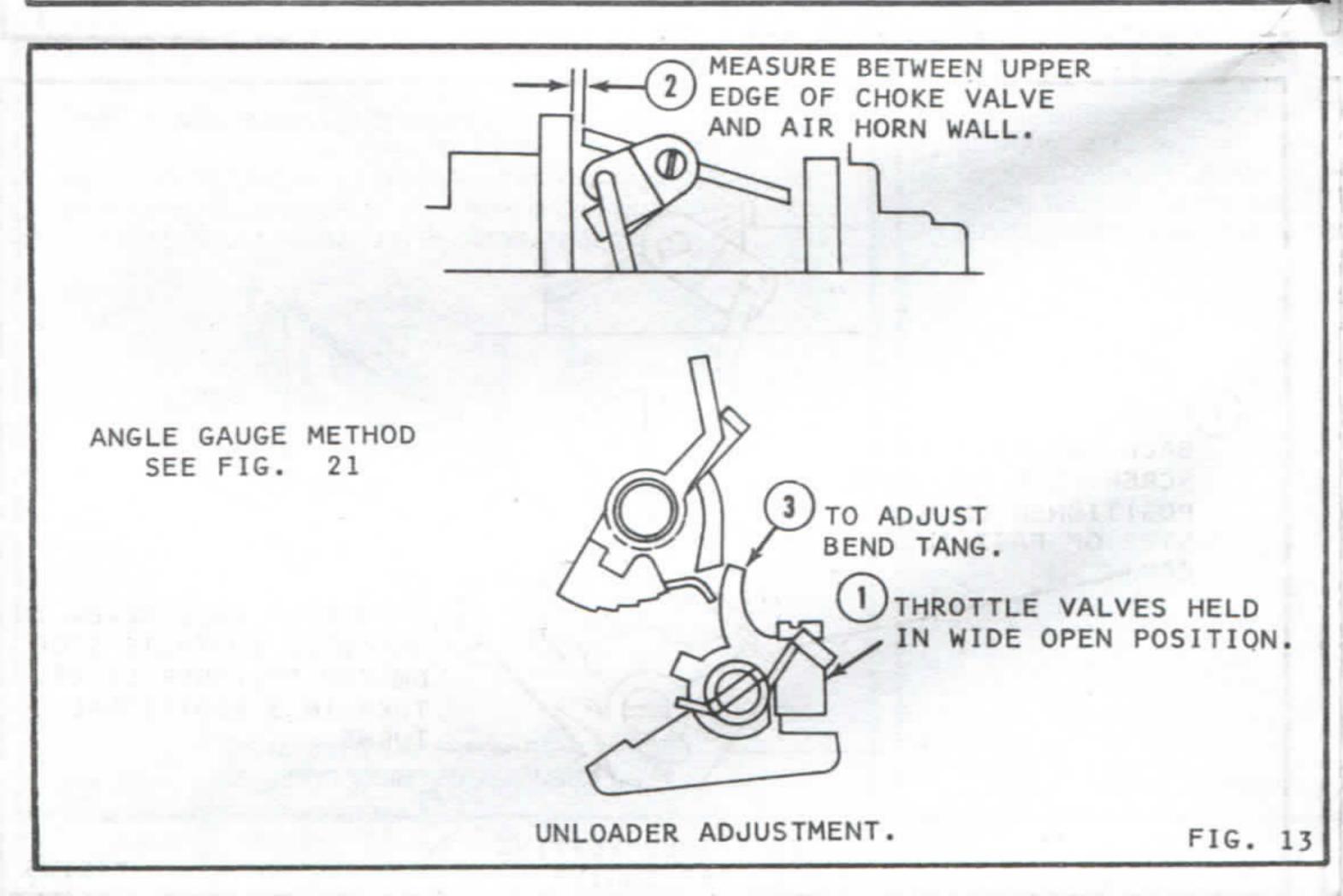












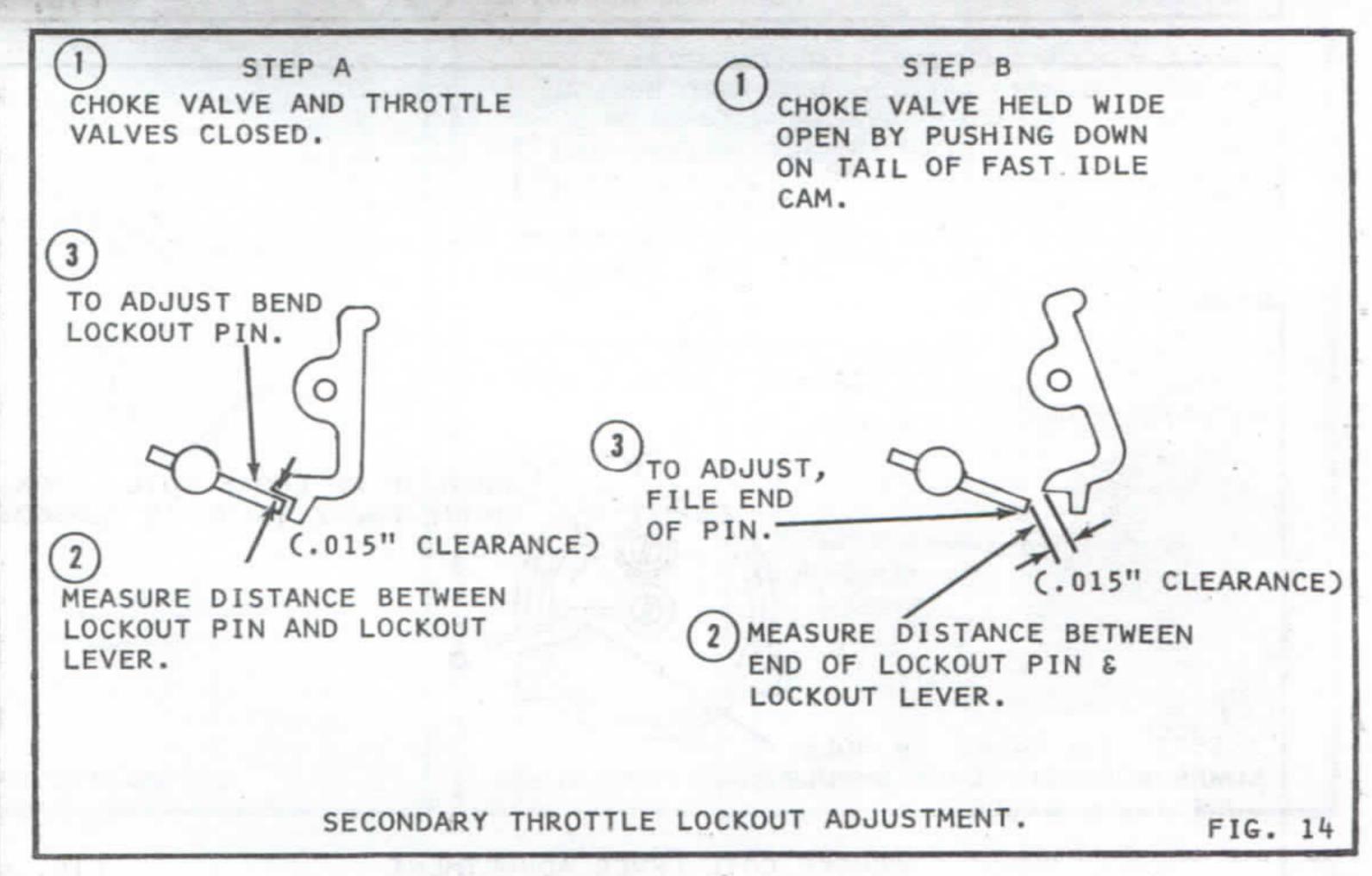
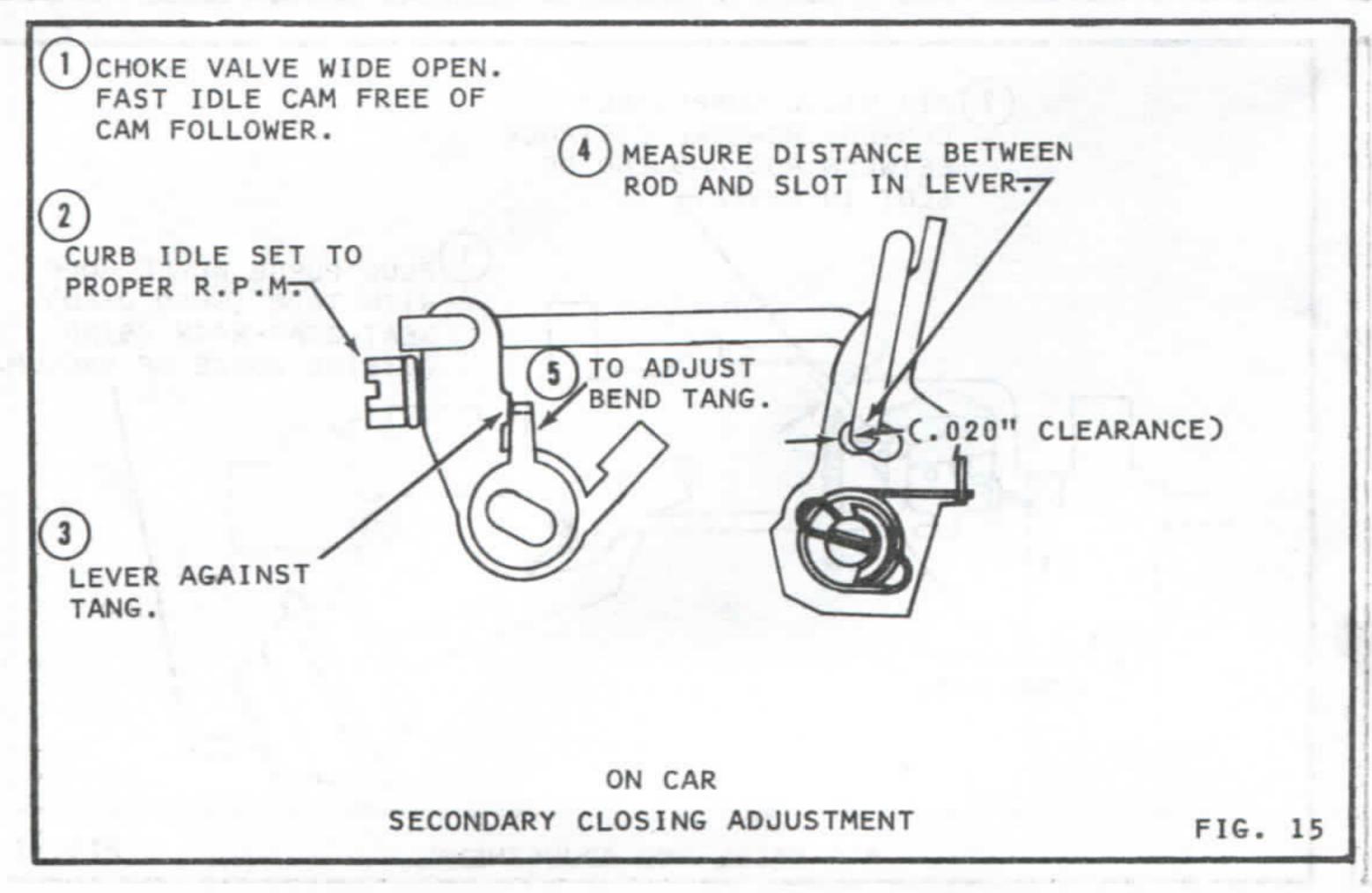
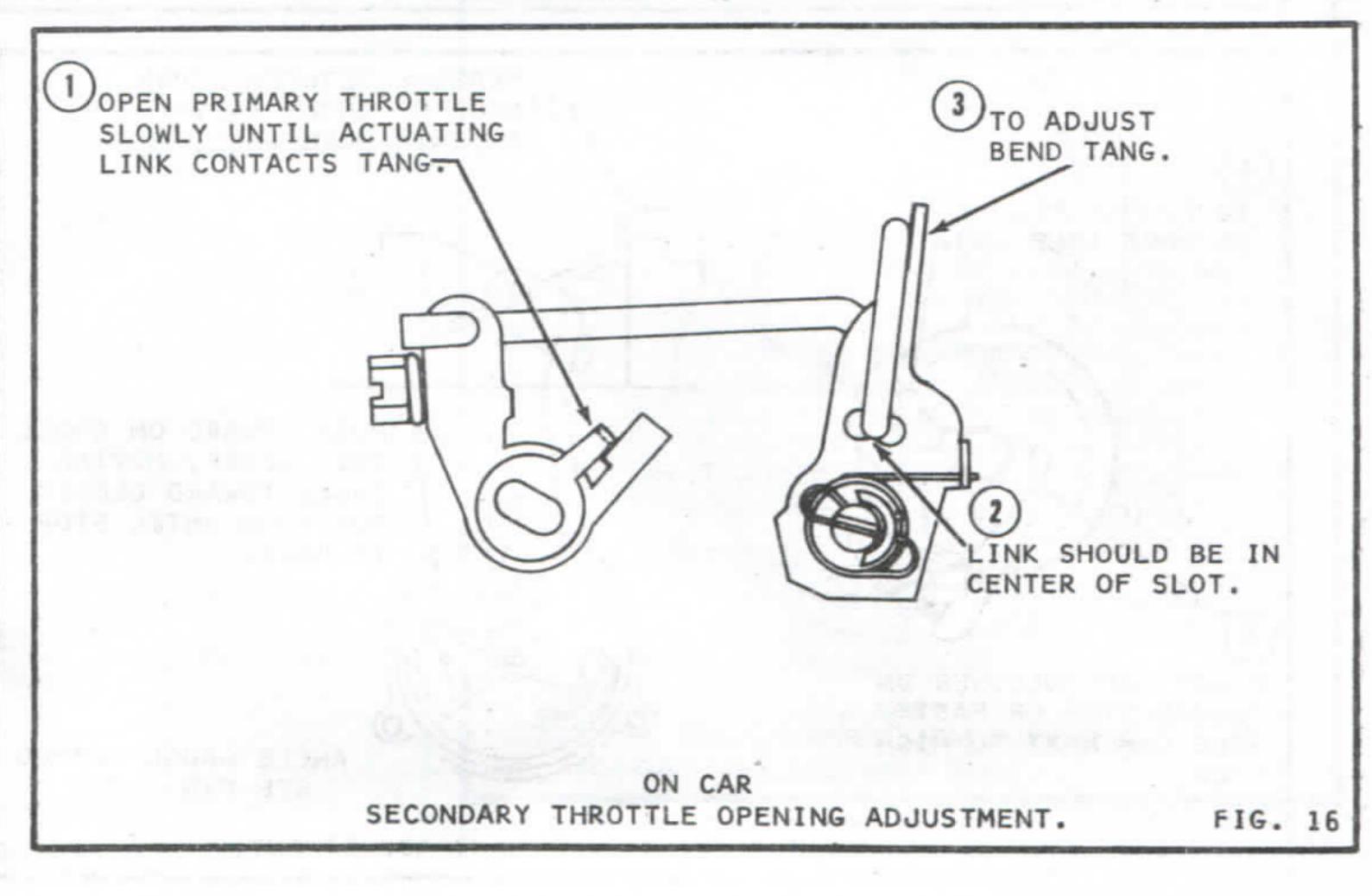
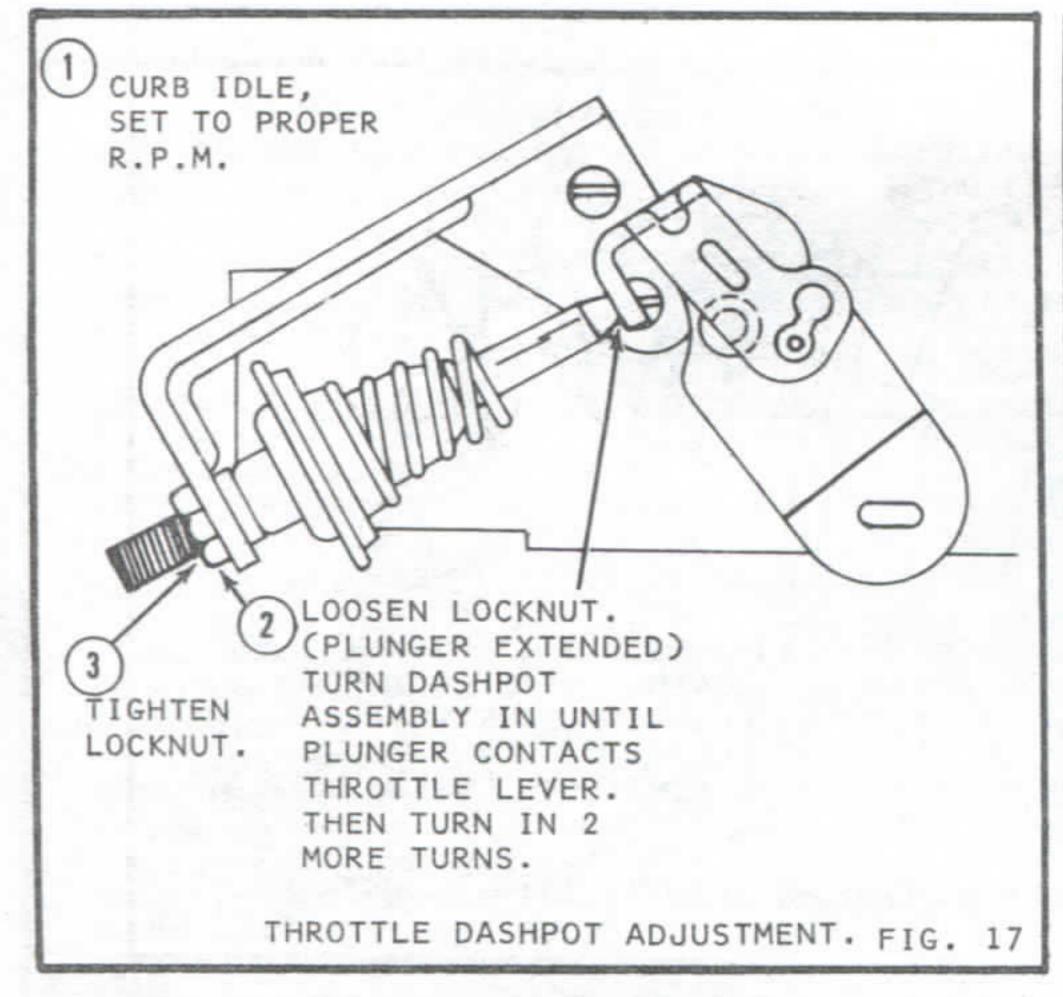
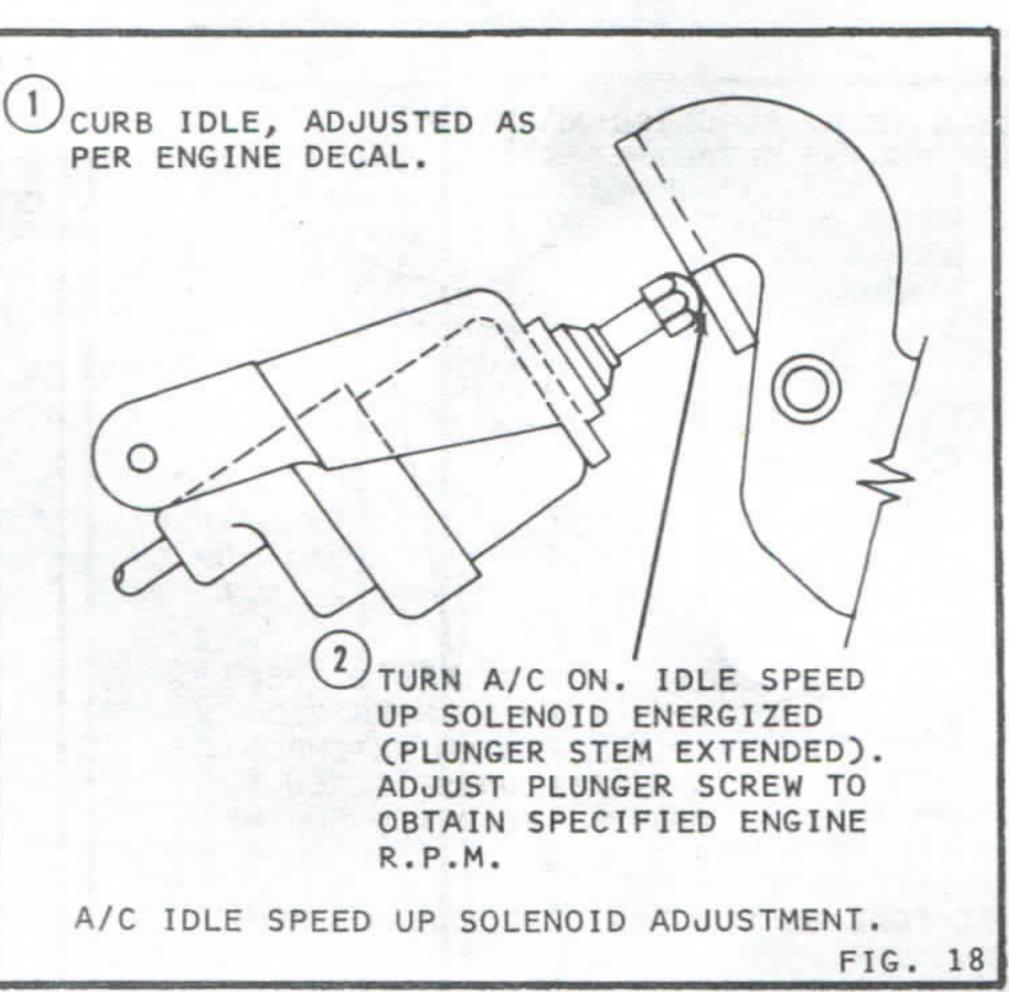


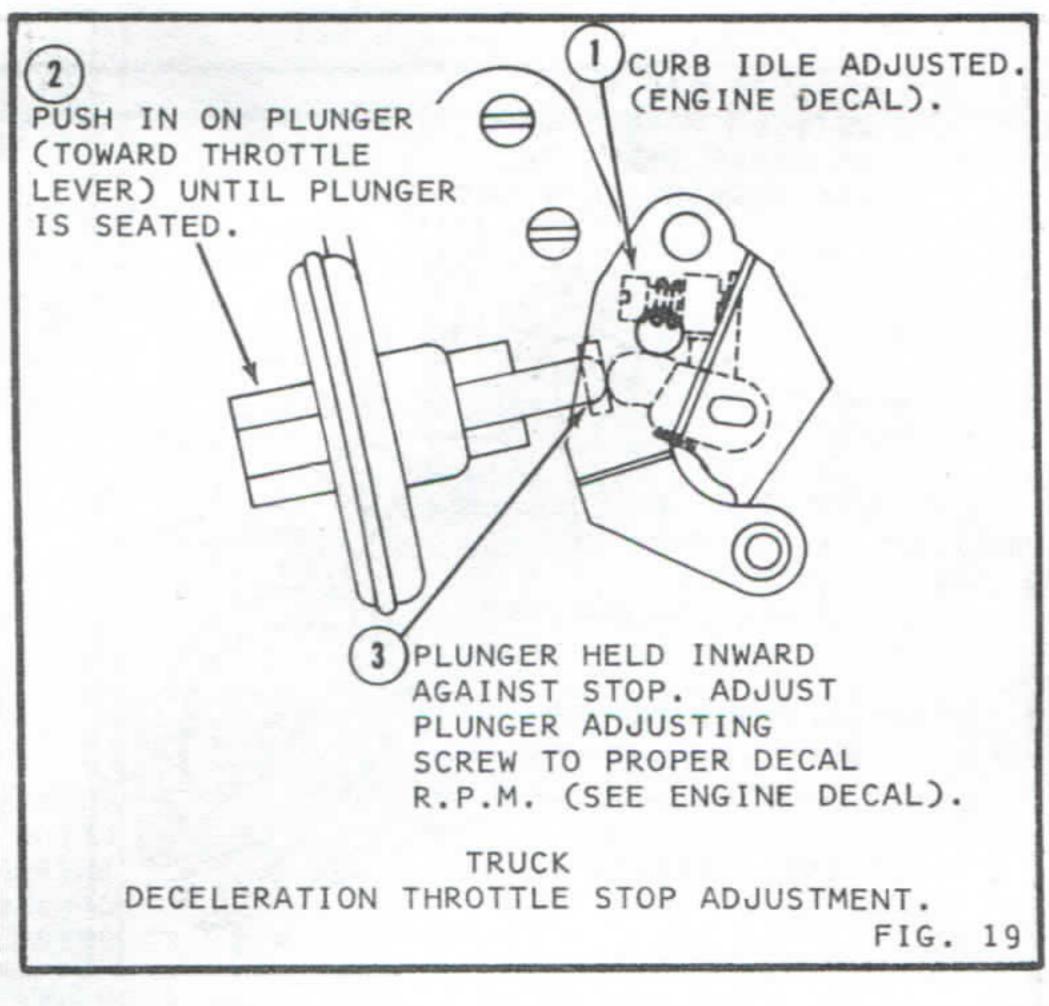
FIG. 11

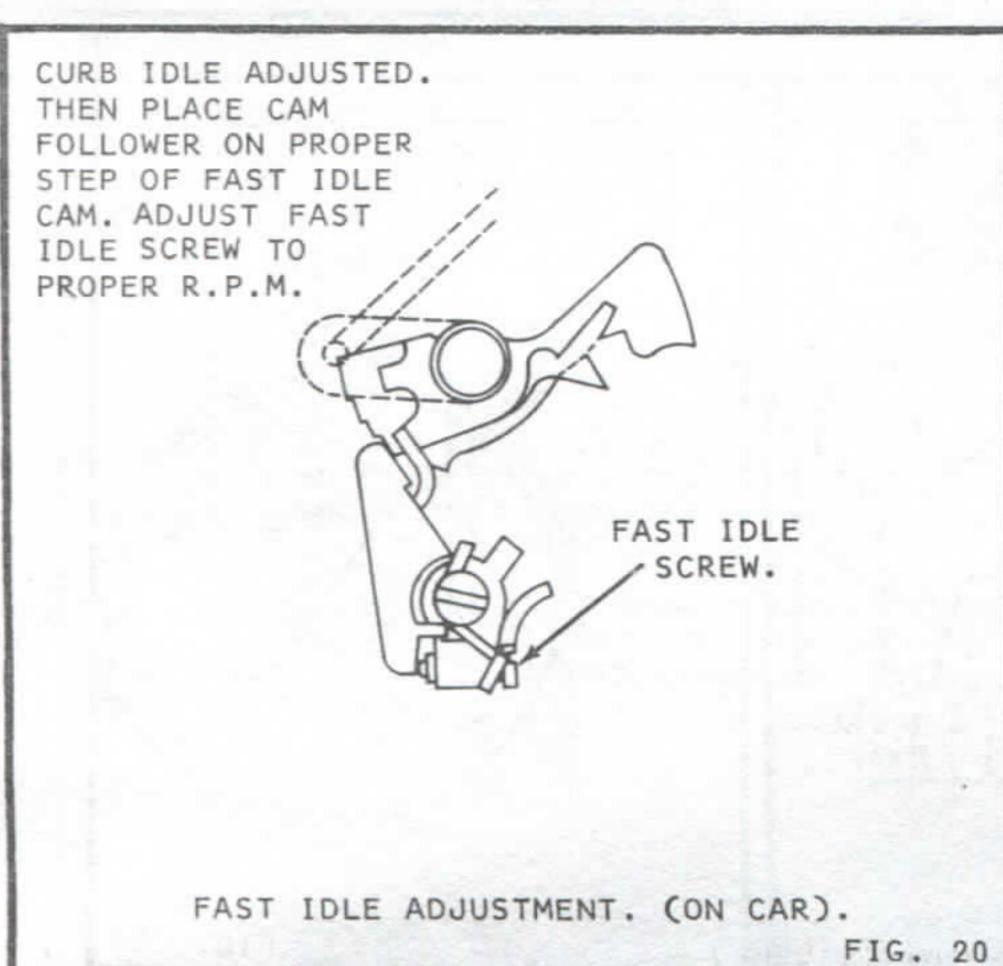












CAUTION: PLACE CARBURETOR ON HOLDING FIXTURE SO THAT IT WILL REMAIN IN SAME POSITION WHEN GAUGE IS IN PLACE.

1. ROTATE DEGREE SCALE UNTIL ZERO (0)
IS OPPOSITE POINTER.

2. CHOKE VALVE HELD COMPLETLY CLOSED. PLACE MAGNET SQUARLEY ON TOP OF CHOKE VALVE.

3. ROTATE BUBBLE UNTIL IT IS CENTERED.
4. ROTATE SCALE SO THAT DEGREE SPECIFIED FOR ADJUSTMENT IS OPPOSITE POINT-

5. FOLLOW NUMERICAL OUTLINE IN MAKING ADJUSTMENT, INSTEAD OF MEASURING GAP AT EDGE OF CHOKE VALVE. MAKE ADJUST-MENT TO BRING BUBBLE BACK TO CENTER POSITION.

GAUGE: J-26701 KENT MOORE TOOL BT-7704 BORROUGHS TOOL

ANGLE GAUGE METHOD
(USE WITH REGULAR ADJUSTMENT OUTLINE)

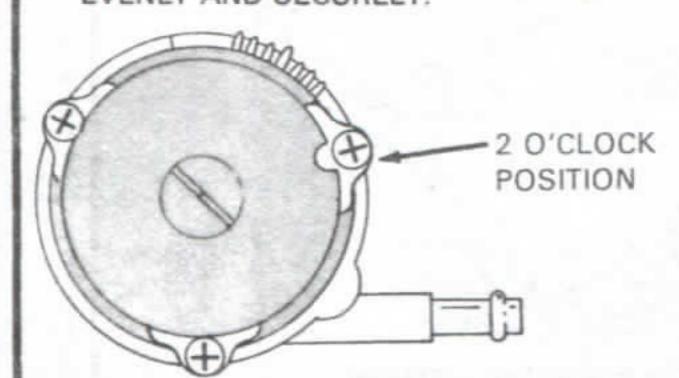
FIG. 21

1980 SPECIAL INSTRUCTIONS.

CAREFULLY ALIGN A #21 DRILL (.159") ON POP RIVET HEAD AND DRILL ENOUGH TO REMOVE RIVET HEAD. DRILL ALL 3 RIVET HEADS. USE A DRIFT PUNCH AND HAMMER, DRIVE THE REMAINDER OF RIVETS OUT OF THE CHOKE HOUSING. REMOVE CHOKE COMPONENTS. REPLACEMENT RETAINERS AND SELF TAPPING SCREWS ARE FOUND IN REPAIR KIT.

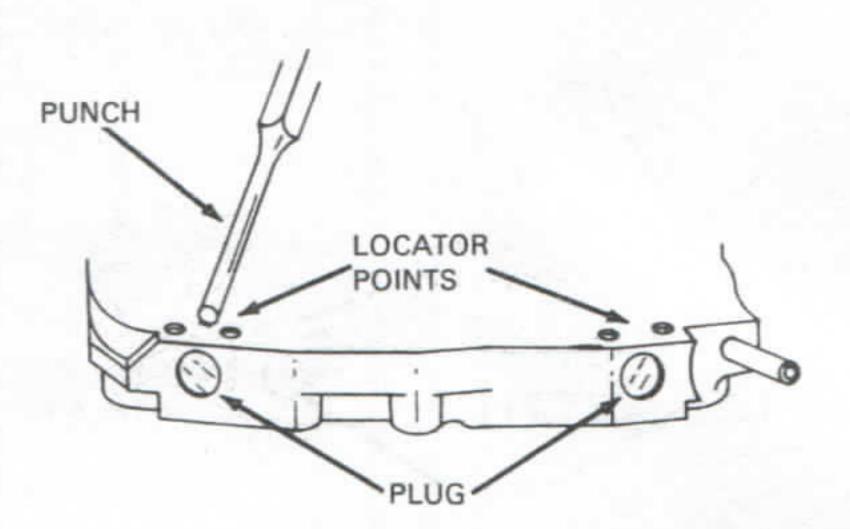
BEFORE ASSEMBLING CHOKE, START SELF TAPPING SCREWS IN CHOKE HOUSING TO BE SURE SCREWS START EASILY AND ARE ALIGNED PROPERLY.

CHOKE COVER INSTALLATION. ALIGN NOTCH IN COVER WITH RETAINER TAB (2 O'CLOCK POSITION). TIGHTEN SCREWS EVENLY AND SECURELY.



REMOVING & REPLACING TAMPER RESISTANT CHOKE COVER

THE TWO LOCATOR POINTS IN THROTTLE BODY. BREAK OUT THROTTLE BODY TO GAIN ACCESS TO THE IDLE MIXTURE NEEDLE. DRIVE OUT HARDENED STEEL PLUG COVERING MIXTURE NEEDLE. HARDENED PLUG WILL SHATTER (PLUG WILL NOT BE REPLACED). REMOVE IDLE ADJUSTING NEEDLE USING PROPER DEEP SOCK.



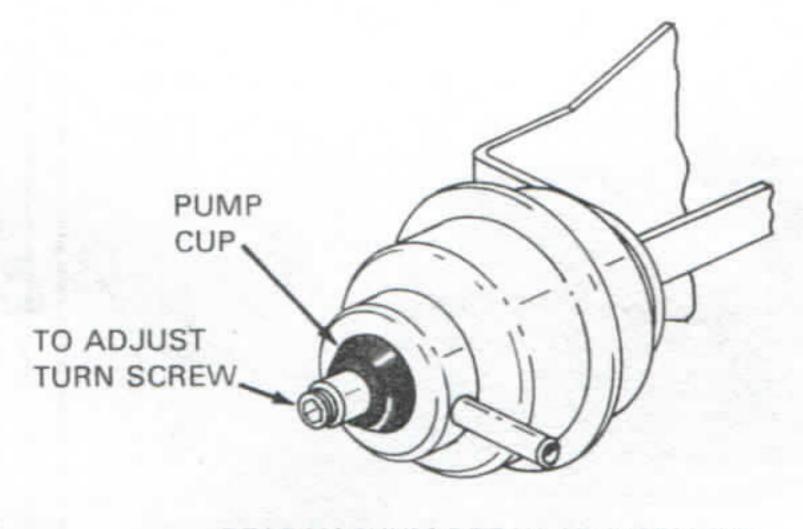
IDLE MIXTURE NEEDLE PLUG REMOVAL

FOLLOW PROCEDURE IN FIG. 9, & FIG. 21.

TO ADJUST USE A 1/8" HEX WRENCH TURN SCREW IN REAR COVER UNTIL BUBBLE IS CENTERED.

NOTE: ON DELAY MODELS (#634433 OR #64797 STAMPED ON

NOTE: ON DELAY MODELS (#634433 OR #64797 STAMPED ON BRACKET). PLUG END COVER USING A PUMP PLUNGER CUP 2G TYPE OR EQUIVALENT. REMOVE CUP AFTER ADJUSTMENT.



REAR VACUUM BREAK ADJUSTMENT (SCREW ADJUSTMENT TYPE)

