INSTRUCTION SHEET 50-590-2 **MOTORCRAFT CARBURETOR - MODEL 2700 / 7200 VV** 1979-80

GENERAL EXPLODED VIEW

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

13 VENTURI AIR COLD ENRICHMENT ROD LIMITER 32 (39) PROPER ASSEMBLY POSITION 37 31 33 VENTURI VALVE 1979 28 (2700) INTERNAL VENT 25 22 23 1979 SOLENOID 1979 THROTTLE POSITION HEAT SHIELD CHOKE (2700 1979 THROTTLE RETURN CONTROL & KICK 68 67 DOWN LEVER RETURN SPRING

DISASSEMBLY

USE THE EXPLOOED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION.

SPECIAL INSTRUCTIONS

AUTION: ALWAYS BLOCK THE VENTURIVALVES WIDE OPEN WHENWORKING ON THE MAIN METERING JETS. ITEM (35).

BEFORE REMOVING THROTTLE POSITION SENSOR (72) SCRIBE TWO MARKS ON SENSOR AND NOTTLE BODY FOR PROPER REASSEMBLY

NOTE POSITION OF THE TWO LONG BOWL COVER SCREWS FOR PROPER REASSEMBLY ITEM

PIVOT PLUGS (30): SUPPORT BOWL COVER HINGE BRACKET (SMALL SOCKET, ETC.) THEN USING A SMALL PUNCH, LIGHTLY TAP PIVOT PLUG FROM PIVOT PIN.REMOVE VENTURI VALVE AND METERING ROD ASSEMBLY (32) BY SLIDING BACKWARD

CUP PLUGS (34)- CAREFULLY PUNCH OR ORILL HOLE IN CENTER OF PLUG, THEN USING AN EASY OUT TYPE PULLER. TAP PLUG OUT OF BOWL COVER

MAIN JETS (35)-BEFORE REMOVING. USE JET WRENCH OR A PROPER FITTING SCREWDRIVER TO CAREFULLY TURN JETS IN CLOCKWISE. COUNTING THE EXACT NUMBER OFTURNS IT TAKES TO SEAT JET IN CASTING. RECORD NUMBER OFTURNS TO THE NEAREST 1/4 TURN.

REMOVE JETS. THEN IDENTIFY THE JETS AND METERING RODS, THROTTLE SIDE OR CHOKE SIDE, FOR PROPER REASSEMBLY

IDLE TRIM SCREWS (39) BEFORE REMOVING, USING AN ALLEN WRENCH. CAREFULLY TURN SCREWS IN CLOCKWISE. COUNTING THE NUMBER OF TURNS IT TAKES TO SEAT SCREW IN CASTING RECORD FOR PROPER REASSEMBLY (2700 ONLY)

WELCH PLUG (45) (52) PUNCH OR DRILL HOLEIN CENTER OF PLUG, USING AN EASYOUT TYPE PULLER TAP PLUG FROM SEAT

CHOKE COVER RIVETS (56) (7200)- REMOVE THE TOP TWO (THROUGH) RIVETS USING A 1/8 INCH DIAMETER DRILL DRILL THROUGH THE RIVET HEAD AND REMOVE THETHIRD (BOTTOM) RIVET IS LOCATED IN A "BLIND" HOLE, AND MUST BE REMOVED BY LIGHTLY TAPPING THE BACKSIDE OF THE RETAINER RING, USING A PUNCH AND HAMMER THE RIVET, RETAINER RING, CHOKE HOUSING AND GASKET, CAN THEN BE REMOVED

CHOKE DIAPHRAGM COVER (61)- DO NOT PUT COVER IN ANY TYPE OF CLEANING FLUID. (FILTER ANO CHECK VALVE WILL BE DAMAGED)

NOMENCLATURE

2 THROTTLE RETURN CONTROL 3 FITTING - FUEL INLET 4 GASKET- FITTING 5 FILTER- FUEL 6 SPRING- FILTER 7 .E . CLIP. PUMP ROD 9 GASKET- CONTROL MOTOR (7200) 10 .VALVE - METERING (7200) 11 SPRING- METERING (7200) 12 E . CLIP. CHOKE CONTROL ROD 13 SCREW & LOCKWASHER (2)- COVER PLATE 14 COVER PLATE - VENTURI VALVE 15 FRUG- VENTURI AIR BYPASS SCREW 16 GASKET- COVER PLATE 17 ROLLER BEARINGS (2) 18 HOSE- CHOKE FRESH AIR (7200) 19 SCREW & LOCKWASHER (2)- BOWL COVER (LONG) 20 SCREW & LOCKWASHER (2)- BOWL COVER (LONG) 20 SCREW & LOCKWASHER (5)- BOWL COVER (LONG) 21 BOWL COVER ASSEMBLY 23 SPRING- PUMP RETURN 24. CUP- PUMP 25. STEM- PUMP 26. STEM- PUMP 27. PIOAT BLEVER ASSEMBLY 28 GASKET— BOWL COVER 29 NEEDLE. SEAT & GASKET ASSEMBLY 30 PIVOT PLUG (2)- WENTURI VALVE 31. PIVOT PIN (2)- VENTURI VALVE 32. VENTURI VALVE AND METERING ROD ASSEMBLY 33. BUSHING (2)- VENTURI VALVE 34. CUP PLUG (2)- MAIN JET 35 JET (2)- MAIN JET 37 SEAL- COLD ENRICHMENT ROD 40 L 14 M 42 MA 42 M 44 M 42 MA 42 BM 45 CB 55 CB 56 RT 56 BM 57 BM 58 CB 56 BM 66 GB 67 BM 68 BM 68 BM 68 BM 68 BM 68 BM 69 LE 60 SE 61 CM 69 LE 61 CM	
38. CUP PLUG (2)- IDLE TRIM SCREW (2700).	CREW (2)- IDLE TRIM (2700) RING (2)- IDLE TRIM (2700) RING (2)- IDLE TRIM SCREW(2700) RING COLOR SPECIAL REW & LOCKWASHER (4)- ROBERT (5)- ROBERT (5)- ROBERT (6)-
INSTALL THESE PARTS AS BENCH ADJUSTMENTS INSTALL AFTER FINAL RUNNING ADJUSTMENTS A	

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBELED. SOAK PARTS LONG ENDUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USEA 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, CAUTION: DO NOT SOAK PARTS CONTAINING NYLON OR RUBBER. THESE INCLUDE SOLENOIDS, SWITCHES, OR PARTS SUCHAS(2), (8) .(10).(19).(27). (58)-(61) (72)

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

CHECK ADJUSTMENTS. SOME ARE MADE AS CARBURETOR IS BEING ASSEMBLED.

RING- WHEN INSTALLING, LIGHTLY LUBRICATE WITH LIGHT OIL

IDLE TRIM SCREWS (39) - TURN EACH SCREW IN CLOCKWISE UNTIL IT IS SEATED IN THE CASTING, THEN TURN SCREW COUNTERCLOCKWISE THE NUMBER OF TURNS RECORDED DURING DISASSEMBLY (2700

MAIN JETS (35).- TURN EACH MAIN JETIN CLOCKWISE UNTILITIS SEATED INTHECASTING. THEN TURN JET COUNTERCLOCKWISE THE NUMBER OF TURNS RECORDED DURING DISASSEMBLY.

CUP PLUGS (34) - USING A 3/8" DRIFT PUNCH, INSERT PLUG IN HOLE AND TAP LIGHTLY UNTIL PLUG SEATS IN CASTING. (SET PROPER DEPTH WITH GAUGE)- SEE FIG. 2

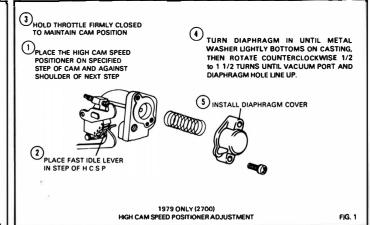
PIVOT PLUG (30) - TAPERED PLUGS CAN BE CAREFULLY PRESSED INTO THE PIVOT PIN USING PLIERS

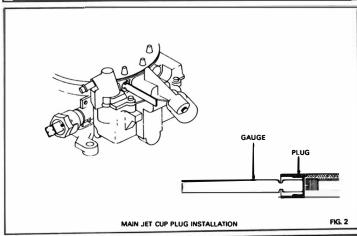
WITH PARALLEL JAWS IN THE OPEN POSITION. FLOAT HINGE PIN (26) - INSTALL PIN SO FLAT HEAD OF PIN IS IN THE RECESSED LEG OF THE FLOAT

BOWL COVER ASSEMBLY (21) WHEN INSTALLING ON MAIN BODY, BE SURE LIMITER LEVER IS MOVED FORWARD TO CLEAR VENTURI VALVE ARM AND VENTURI VALVE DIAPHRAGM STEM ENGAGES THE

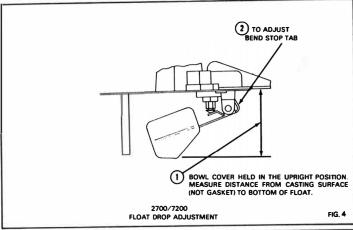
VENTURI VALVE PIN

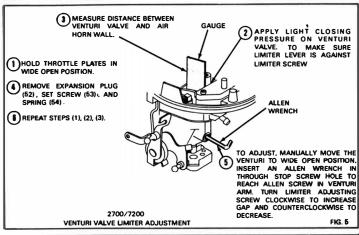
IMPORTANT: SEE FIG. 22 FOR COLO ENRICHMENT METERING ROD ADJUSTMENT NOTE.

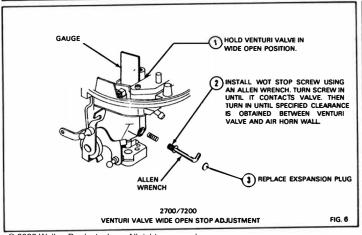


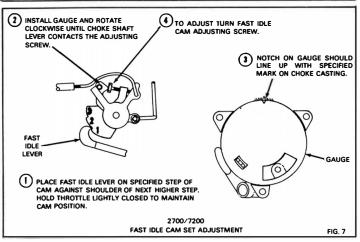


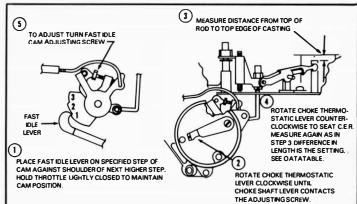
(BOWL COVER GASKET REMOVED). BOWL COVER INVERTED MEASURE DISTANCE FROM CASTING SURFACE TO BOTTOM OF FLOAT. CHECK FLOAT 2 TO ADJUST BEND TAB PONTOON AT EACH END. CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE 2700/7200 DRY FLOAT LEVEL ADJUSTMENT FIG. 3



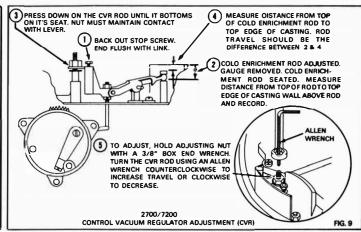


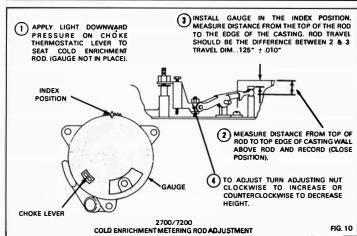


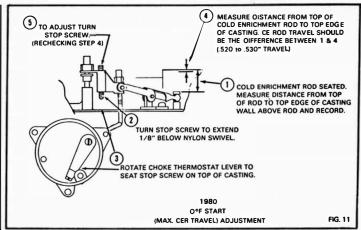


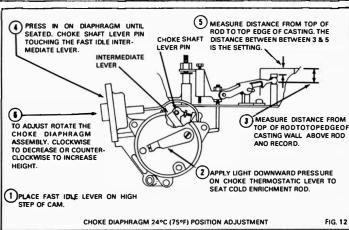


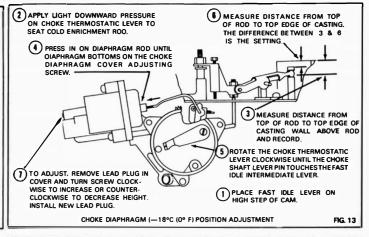
SOME 1980 MODELS (7200)
FAST IDLE CAM SET ADJUSTMENT FIG. 8

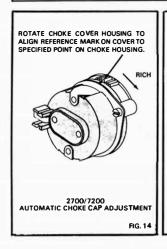


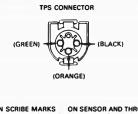












1) ALIGN SCRIBE MARKS ON SENSOR AND THROTTLE BODY MADE BEFORE DISASSEMBLE, TIGHTEN SCREWS SECURELY.

 TO CHECK SENSOR FOR PROPER SETTING FOLLOW PROCEDURE IN THE SECTESTER OPERATIONS MANUAL AND THE APPROPRIATE SHOP MANUAL TEST PROCEDURE.

THROTTLE POSITION SENSOR

FIG. 15

SENSOR CABLE
(SHOULD BE FREE OF LINKAGE)

PROPER SENSOR CABLE MOUNTING

FIG. 18



CURB IDLE ADJUSTMENT WITHOUT THROTTLE POSITIONER WITH OR WITHOUT DASHPOT



SOLENOID BRACKET ADJUSTMENT WITH OR WITHOUT DASHPOT



SOLENOID THRU ADJUSTMENT WITH OR WITHOUT DASHPOT



VACUUM KICKER





KICKER-DASH POT



SOL-A-VAC

FIG 17

CURBIDLE ADJUSTMENT TYPE SCREWS

FOLLOW IDLE ADJUSTMENT PROCEDURE FOUND ON ENGINE DECAL (OR IN SERVICE MANUAL).

NOTE THIS IS A CLOSE TOLERANCE SETTING WHICH IS CALIBRATED ON A PRECISION FLOW STAND DURING THE MANUFACTURING PROCESS THE ADJUSTMENTS ARE SET AND DO NOT NORMALLY LOOSE THE ADJUSTMENTS. IF ALL ATTEMPTS TO CURE A PROBLEM THROUGH NORMAL DIAGNOSTIC TECHNIQUES ARE UNSUCCESSFUL PERFORM THIS ADJUSTMENT

- 1 BEFORE INSTALLING CARBURETOR REMOVE VENTURI VALVE ADJUSTING SCREW PLUG. (CENTER PUNCH UNTIL LOOSE) ALSO REMOVE VENTURI BYPASS SCREW PLUG. (IF SO EQUIPPED).
 2 INSTALL CARBURETOR ON ENGINE AND ATTACH VACUUM AND ELECTRICAL CONNECTIONS.
 3 START THE ENGINE AND BRING IT TO NORMAL OPERATING TEMPERATURE.
 4 CONNECT VACUUM GAUGE (T77L-9510-A OR EQUIVALENT) TO VACUUM TAP ON VENTURI VALVE COVER

NOTE: THE SPECIFIED VACUUM GAUGE INDICATES VACUUM IN INCHES OF WATER. AN INTAKE MANI-FOLD VACUUM GAUGE INDICATES VACUUM IN INCHES OF MERCURY AND CANNOT BE USED TO PER-FORM THIS ADJUSTMENT.

- 5 SET IDLE SPEED TO 500 RPM WITH TRANSMISSION IN DRIVE, RETURN TRANSMISSION TO "PARK"
 6 USING FINGERS, PUSH VENTURI VALVE UNTIL VALVE IS SEATED AGAINST CASTING FACE WHILE HOLDING
 CLOSED, ADJUST BYPASS SCREW TO OBTAIN A VACUUM READING OF SPECIFIED INCHES OF WATER ON
 GAUGE
 7 RELEASE VENTURI VALVE AND CYCLE THROTTLE
 NOTE: CYCLE THE THROTTLE AFTER EACH ADJUSTMENT,

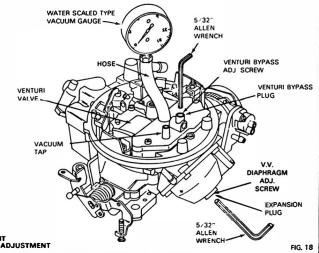
- 8 WITH ENGINE AT CURB IDLE AND TRANSMISSION IN PARK, ADJUST VENTURI VALVE DIAPHRAGM SCREW UNTIL CONTROL VACUUM SPECIFICATIONS IS OBTAINED
 9 SET CURB IDLE SPEEDS TO SPECIFICATION IN DRIVE (INSTALL VENTURI VALVE DIAPHRAGM SCREW PLUG)

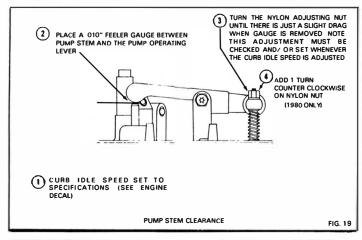
FLOGI HOTE THIS ADJUSTMENT SHOULD BE DONE AS A LAST STEP AND VARIATIONS TO THE ABOVE READING MAY OCCUR. DEPENDING ON ENGINE CONDITION HOWEVER, AS LONG AS THE ENGINE FUNCTIONS PROPERLY, THESE VARIATIONS ARE ACCEPTABLE

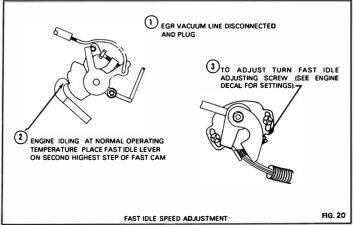
NOTE: 1980 5.8L CALIFORNIA 7200 FEEDBACK CAR-BURETORS DON'T HAVE AN ADJUSTMENT SCREW. YOU CANNOT ADJUST CONTROL VACUUM ON THESE CARBURETORS.

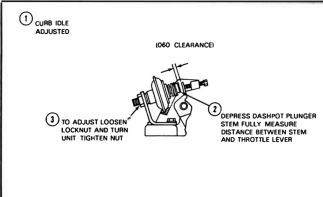
ON CAR ADJUSTMENT
BYPASS AND CONTROL VACUUM ADJUSTMENT

FIG. 21









DASHPOT ADJUSTMENT

AJUSTMENTS IMPORTANT! THE COLD ENRICHMENT METERING ROD ADJUSTMENT (FIG. 10) MUST BE DONE PRIOR TO ANY OTHER CHOKE SYSTEM ADJUSTMENTS.

FIG 22