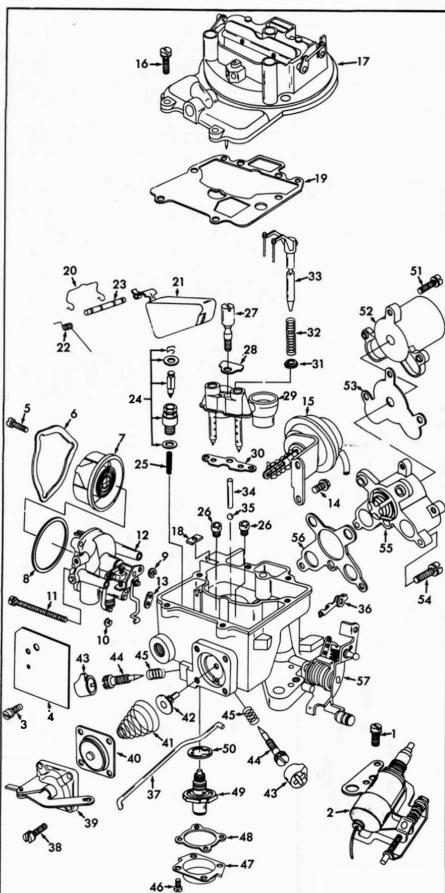
INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE AMERICAN MOTORS — MODEL 2150

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: WHEN REMOVINC PUMP ROD RETAINER (36) MARK ROD HOLE POSITION ON LEVER FOR PROPER ASSEMBLY. TO REMOVE PLASTIC LIMITER CAPS (43) INSTALL A SHEET METAL SCREW IN THE CENTER OF THE CAP AND TURN CIOCKWISE.

NOMENCLATURE

	NO.		NO.	
	1.	SCREW & LOCKWASHER-		GASKET- VENTURI CILUSTER
	١.	THROTTLE POSITIONER	31.	RETAINER - AIR METERING
		THROTTLE POSITIONER ASSY.	۱	ROD SPRING
		SCREW- AIR SHIELD	32.	SPRING- AIR METERING RUD
		AIR SHIELD	١	RETURN
	٠٠ ا	SCREW (3)- CHCKE COVER		AIR METERING ROL ASSY. GASKET- VENTURI CLUSTER
	١,	CLAMP CHOKE COVER		EALL- PUMP DISCHARGE
		CLAMP- CHOKE COVER CHOKE COVER & SPRING	٠,,,	CHECK
	١′٠	ASSY.	76	RETAINER- PUMP ROD
		GASKET- CHOKE COVER		ROD- PUMP
		RETAINER - CHOKE ROD		SCREW (4) - PUMP DIAPHRAG
		RETAINER- FAST IDLE CAM	١,,,	COVER
)	١٠٠.	ROD (LOWER)	30.	COVER- PUMP DIAPHRAGM
2	l11.	SCREW & LOCKWASHER (3)-		PUMP DIAPHRAGE ASSY.
		CHOKE HOUSING		SPRING - PUMP DIAPHRAGE
	12.	CHOKE HOUSING ASSY.		RETURN
١		GASKET- CHOKE HOUSING	42.	VALVE- PUMP INLET CHECK
١	14.	SCREW (2)- CHOKE PULLDOWN	43.	CAP (2)- IDLE LIMITER
)		ASSY.	44.	NEEDLE (2)- IDLE
2	15.	CHOKE PULLDOWN MOTOR &		ADJUST ING
		HOSE ASSY.	45.	SPRING (2)- IDLE ADJ.
	1€.	SCREW & LOCKWASHER (6)-		NEEDLE
		BOWL COVER	46.	SCREW & LOCKWASHER (4)-
		BOWL COVER ASSY.	١	ENRICHMENT VALVE COVER
		SEAL- CHOKE ROD		COVER- ENRICHMENT VALVE
		GASKET- BOWL COVER		GASKET- COVER
		RETAINER- FLOAT PIN		VALVE- ENRICHMENT
		FLOAT & LEVER ASSY.		GASKET- ENRICHMENT VALVE
	22.	SPRING- DAMPER (WHERE USED)	>1.	SCREW & LOCKWASHER (3)- ANERIOD ASSY.
	2.7	PIN- FLOAT HINGE	62	ANERIOD ASSY.
		NEEDLE & SEAT ASSY.		GASKET- ANERIOO ASSY.
		SCREEN- NEEDLE SEAT		SCREW & LOCKHASHER (4)-
		JET (2)- MAIN METERING	,,,,	POPPET VALVE ASSY.
		SCREW- PUMP DISCHARGE	55.	POPPET VALVE ASSY ALT
		NOZZLE		GASKET- POPPET VALVE
	28.	GASKET- PUMP DISC. SCREW	,	HOUSING
		VENTURI CLUSTER ASSY.	57.	MAIN PODY ASSY.
N				

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLEG. SOAK PARTS LONG EMOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT. MAKE CERTAIN THE THROTTLE BURES 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 SUAK PARTS CONTAINING RUBBER MATERIALS OR PARTS SUCH AS (2)(7)(15)(21)(49) (52)(55) IN CLEANING SOLVENTS.

REASSEMBLY

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

SPECIAL INSTRUCTIONS

ENRICHMENT VALVE (49)- USE CARE WHEN TIGHTENING TO PREVENT DISTORTION OF GASKET (50)

IDLE ADJUSTING NEECLES (44)- TURN IN UNTIL SEATED, THEN BACK OUT I 1/2-2 TURMS. (DO NOT INSTALL LIMITER CAPS AT THIS TIME

PUMP INLET CHECK VALVE (42)- INSTALLATION.- LUBRICATE TIP OF NEW VALVE AND INSERT IN CENTER HOLE OF PUMP CAVITY. USE NEEDLE NOSE PLIERS AND PULL THRU FROM FUEL BOWL SIDE INTIL FULLY SEATED. CUT OFF VALVE TIP AT RETAINING SHOULDER.

PUMP OIAPHRAGM RETURN SPRING (41)- INSTALLATION.- INSTALL LARGE OPEN END OF SPRING OVER RUBBER INLET CHECK VALVE (42).

CHOKE COVER (7)- INSTALLATION- BE SURE TO INSTALL BI-METAL SPRING HOOK IN SLOT OF LEVER.

INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE **AMERICAN MOTORS — MODEL 2150**

REF. NO.

GENERAL EXPLODED VIEW

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

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DISASSEMBLY

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

TAMPER RESISTANT CHOKE CAN BE REMOVED AS A ASSEMBLY FOR MAJOR OVERHAUL. IF NECESSARY TO OVERHAUL CHOKE REMOVE CHOKE COVER CLAMP TAMPER PROOF SCREWS BY CENTER PUNCHING THE SCREW HEADS, THEN USING A 1/4" DRILL. DRILL THE SCREW HEAD DEEP ENOUGH TO REMOVE THE RESTAINING RING. CAREFULLY REMOVE THE CAP (16) BY INSERTING A SHAPP FLAT CHISEL BETWEEN THE LAYERS OF THE CHOKE CAP GASKET. REMOVE THE REMAINING PORTION OF THE CHOKE CAP GASKET. REMOVE THE REMAINING PORTION OF THE CHOKE CAP RETAINING SCREWS WITH A LOCKING PLIERS. CLEAN ANY REMAINING EPOXY FROM THE MATING SURFACES WITH A GASKET SCRAPER.

TO REMOVE CAP (46) AND CUP (49) FROM IDLE MIXTURE NEEDLE SUPPORT THE AREA UNDER THE LIMITER PLUG AND USING A POINTED TOOL DIRECTED AT THE TONG, LIGHTLY TAP THE PLUG FORWARD. BEFORE REMOVING IDLE ADJUSTING NEEDLE, TURN IN CLOCKWISE COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT THE NEEDLE. RECORD FOR REASSEMBLY.

NOMENCLATURE

1. SCREW - THROTTLE POSITIONER	29. SPRING - DAMPER
2. THROTTLE POSITIONER ASSY.	30. PIN • FLOAT HINGE
3. SCREW - AIR SHIELD	31. NEEDLE & SEAT ASSY.
4. AIR SHIELO	32. SCREEN - NEEDLE SEAT
5. RETAINER - CHOKE PULLDOWN ROD	33. VALVE - PUMP INLET CHECK
8. SCREW (2) - CHOKE PULLDOWN ASSY.	34. JET - MAIN
7. CHOKE PULLDOWN ASSY.	35. SCREW - PUMP DISCHARGE NOZZLE
8. RETAINER - FAST IDLE CAM ROD (LOWER)	38. GASKET - NOZZLE SCREW
9. RETAINER - CHOKE ROD	37. VENTURI CLUSTER ASSY.
10. SCREW & LOCKWASHER (3) - CHOKE	38. GASKET - VENTURI CLUSTER
ASSY.	39. WEIGHT - PUMP DISC. BALL
11. CHOKE HOUSING ASSY.	40. BALL - PUMP DISC.
12. GASKET - CHOKE HOUSING	41. SCREW & LOCKWASHER (3) - ANEROID
13. SCREW (3) BREAKAWAY - CHOKE COVER	ASSY.
CLAMP	42. ANEROID ASSY.
14. WASHER (3) - BREAKAWAY SCREW	43. GASKET - ANEROID ASSY.
15. RETAINER - CHOKE COVER	44. SCREW & LOCKWASHER (4) - POPPET
18. CHOKE COVER & SPRING ASSY.	VALVE ASSY.
17. GASKET - CHOKE COVER	45. POPPET VALVE ASSY ALT.
18. SCREW (4) - PUMP DIAPHRAGM COVER	48. GASKET '- POPPET VALVE ASSY.
19. COVER - PUMP DIAPHRAGM	47. CAP (2) - IDLE LIMITER
20. PUMP DIAPHRAGM ASSY.	48. NEEOLE (2) - IDLE ADJUSTING
21. SPRING - PUMP DIAPHRAGM	49. SPRING - IDLE ADJ. NEEDLE
22. ROD - PUMP	50. CUP (2) - IDLE LIMITER

CLEANING

23. SCREW & LOCKWASHER 8 - BOWL COVER

24. BOWL COVER ASSY. 25. SEAL - CHOKE ROD 26. GASKET - BOWL COVER 27. RETAINER - FLOAT PIN

28. FLOAT & LEVER ASSY.

50. CUP (2) - IDLE LIMITER 51. SCREW & LOCKWASHER (4) -

ENRICHMENT VALVE COVER
51. COVER - ENRICHMENT VALVE
53. GASKET - COVER 54 VALVE - ENRICHMENT 55. GASKET - ENRICHMENT VALVE

6 MAIN BODY ASSY

CLEANING MUST BE DONE WITH CARBURETOR 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 INSUITABLE SOLVENT. BLOW DUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS.

CAUTION: DO NOT SOAK PARTS CONTAINING RUBBER MATERIAL OR PARTS SUCH AS (2), (7), (16), (28), (42), (45), (54) IN CLEANING SOLVENTS.

REASSEMBLY

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

SPECIAL INSTRUCTIONS

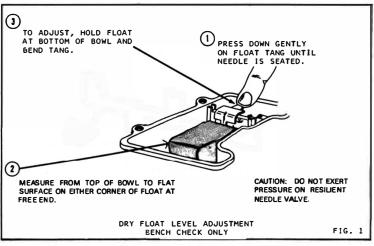
ENRICHMENT VALVE (54) - USE CARE WHEN TIGHTENING TO PREVENT DISTORTION OF GASKET (55)

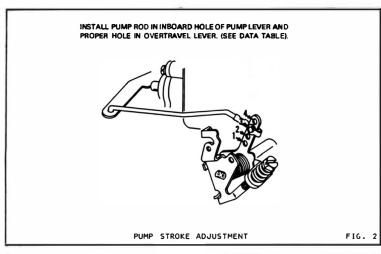
IDLE ADJUSTING NEEDLES (48) - TURN IN UNTILLIGHTLY SEATED THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY. (DO NOT INSTALL CAPS (47) AT THIS TIME).

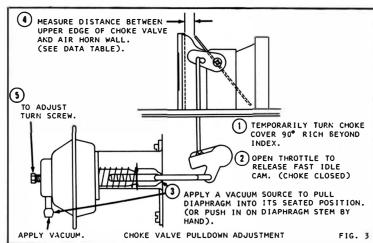
PUMP INLET CHECK VALVE INSTALLATION (33) - LUBRICATE TIP OF NEW VALVE AND IN SERT IN CENTER HOLE OF PUMP CAVITY. USE A NEEDLE NOSE PLIERS AND PULL THROUGH FROM FUEL BOWL SIDE UNTIL FULLY SEATED. CUT OFF VALVE TIP AT RETAINING SHOULDER

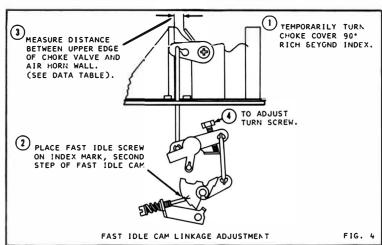
PUMP DIAPHRAGM RETURN SPRING INSTALLATION (21) - INSTALL LARGE OPEN END OF SPRING OVER RUBBER INLET CHECK VALVE (33).

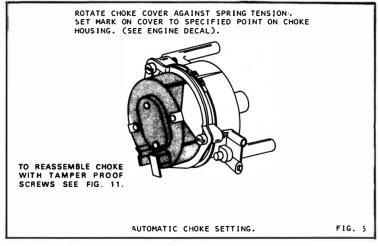
ADJUSTMENTS

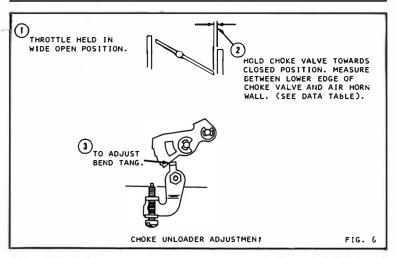


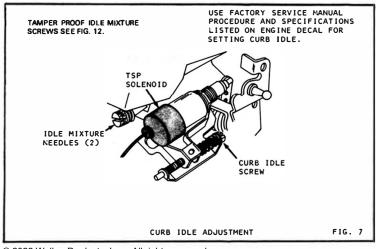


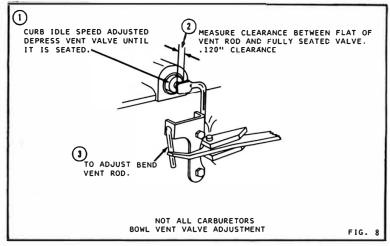




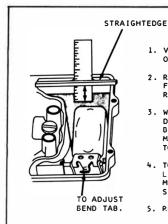








ADJUSTMENTS



- VEHICLE ON A LEVEL SURFACE AND ENGINE AT NORMAL OPERATING TEMPERATURE.
- 2. REMOVE AIR HORN ATTACHING SCREWS. START AND LET ENGINE IDLE FOR A FEW MINUTES, THEN ROTATE AIR HORN OUT OF WAY AND REMOVE AIR HORN GASKET.
- 3. WHILE ENGINE IS IDLING, USE A T-SCALE TO MEASURE THE VERTICAL DISTANCE FROM THE TOP MACHINED SURFACE OF THE CARBURETOR MAIN BODY TO THE LEVEL OF THE FUEL IN THE BOWL. CAUTION: MEASURE-MENT MUST BE MADE AT LEAST 1/4" AWAY FROM ANY VERTICAL SURFACE TO ASSURE AN ACCURATE READING. (SEE DATA TABLE FOR SETTING.)
- 4. TO ADJUST. <u>STOP ENGINE</u>, BEND FLOAT TAB UPWARD TO RAISE FUEL LEVEL, AND DOWNWARD TO LOWER IT. TO RECHECK LEVEL ENGINE MUST BE STARTED AND ALLOWED TO IDLE A FEW MINUTES TO
- 5. RECHECK CARBURETOR IDLE ADJUSTMENT.

WET FLOAT ADJUSTMENT

FIG. 9

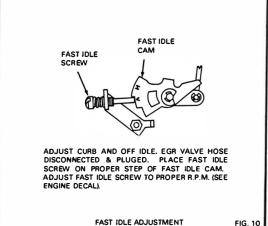
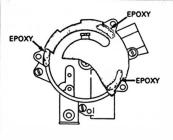
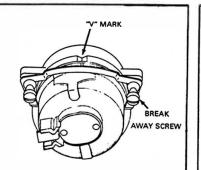


FIG. 10



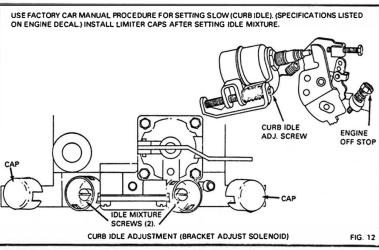
APPLY THREE 1/2" BEADS OF EPOXY (SMOOTH ON MT-13) ON EACH SIDE OF GASKET ADJACENT TO THE RETAINER SCREW BOSSES



INSTALL BI-METAL SPRING HOOK IN SLOT OF LEVER. SET COVER TO "V" MARK ON CHOKE HOUSING. SECURE RETAINING RING WITH NEW BREAK AWAY SCREWS.

AUTOMATIC CHOKE SETTING

FIG. 11



ADJUSTMENT DATA TABLE

					- 4	A1				
YEAR	APPLICATION	FLOAT LEVEL (ORY)	FUEL LEVEL (WET)*	PUMP LEVER HOLE	CHOKE INITIAL CLEARANCE (PULL DOWN)	FAST IDLE CAM	AUTO CHOKE	UNLOADER	CURB IDLE	FAST IDLE R. P. M
1977	PASS CARS 360° ENG. ALT. A/T	13/32*	.780	NO. 2	.104"	.089*	1-RICH	.290*	E/D	E/D
1977	JEEP 304" ENG. ALT. MJT A/T	13/32° 13/32°	.930**	NO. 2 NO. 2	.110*	.089"	2-RICH 1-RICH	.290° .290°	E/D	E/0 E/0
1978	PASSS CARS 304" ENG. ALT. A/T 360" ENG. ALT. A/T	9/16° 9/18°	.930** .780*	NO. 3 NO. 3	.0k9* .069*	.078°	2-RICH 2-RICH	.290° .290°	E/D E/D	E/D E/D
1976	JEEP 304" ENG. ALT. A/T 304" ENG. ALT. M/T	9/16° 9/16°	.930**	NO. 3 NO. 3	.089*	.078°	2-RICH 2-RICH	.290° .290°	E/0 E/0	1600 1600
1979-80	JEEP 360" ENG. A/T 360" ENG. M/T	9/16° 9/16°	.930**	ND. 3 NO. 3	.113"	.093" .086"	2-RICH 2-RICH	.350° .348°	E/D E/D	1600 1500
1981	JEEP 304" ENG. CARB. NO. 1DM2J. 1DA2J CARB. NO. 1DM2A	21/64° 21/64°	.930**	NO. 3 NO. 3	.073° .073°	.046" .046"	2-RICH 1-RICH	.350° .350°	E/D E/O	1600 A/T 1500 M/T
1961-83	JEEP 360" ENG. CARB. NO. 1RHA2 CARB. NO. 1RHM2 CARB. NO. 2RHA2 CARB. NO. 2RHM2	21/64° 21/64° 21/64° 21/64°	.930** .930**	NO. 3 NO. 3 NO. 3 NO. 3	.113" .104" .116" .118"	.086° .081° .076°	2-RICH 2-RICH 1-RICH 1-RICH	.350° .350° .420° .350°	E/O E/O E/O	1600 A/T 1500 M/T 1600 A/T 1500 M/T
1984-85	JEEP 360° ENG. CARB. NO. 4RHA2 CARB. NO. 5RHA2	21/84° 21/64°	.930**	NO. 3 NO. 3	.113° .113°	.086"	2-RICH 2-RICH	.350° .350°	E/D E/D	E/O E/O
986-89	JEEP ALL	21/64"	.930**	NO. 3	.118"	.076*	INDEX	.420*	E/0	E/D

⁻REFER TO CAR SERVICE MANUAL

A/T-AUTOMATIC TRANSMISSION M/T-MANUAL TRANSMISSION ALT.-HIGH ALTITUDE

Rev. 07/11

[&]quot;-WITH FLOAT DAMPER SPRING E/O-ENGINE DECAL