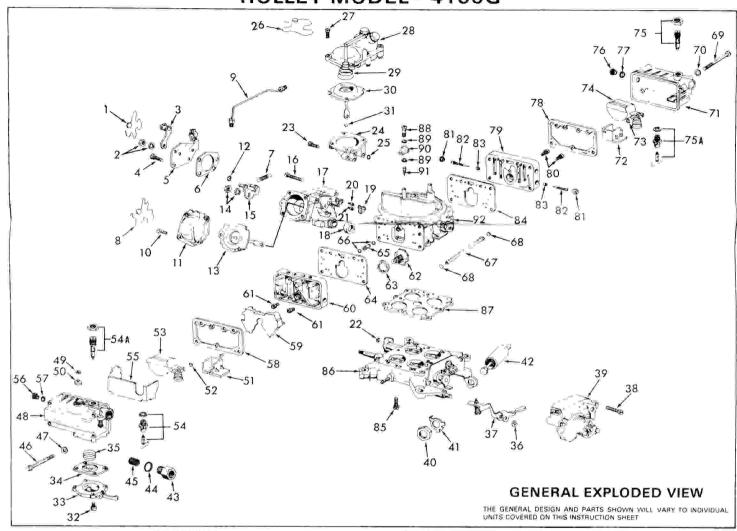
INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE **HOLLEY MODEL - 4150G**



DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE THENUMERICAL SEQUENCE MAY GENERALLY BEFOLLOWED TO DISASSEMBLE UNIT FAR ENDUGH TO PERMIT CLEANING AND INSPECTION NOTE: ON SOME MODELS UNHOOK HEAVY SAFETY SPRING ON THROTTLE LEVER ASSEMBLY 1931 FOR EASIER ACCESS TO SCREWS (38) HOLDING ASSEMBLY TO CARBURETOR. RECORD JET SIZES AND THEIR LOCATION PARK REASSEMBLY.

REF NO:		REF:	
1	SEAL & WIRE— COVER	28	COVER & VALVE ASSY
2:	NUT & LOCKWASHER—LEVER	20	SEC DIAPHRAGM
3	LEVER- CHOKE	29	
4	SCREW & LOCKWASHEE		DIAPHRAGM— SECONDARY
5	COVER-GOVENOR HOUSING		BALL— SEC. DIAPHRAGM CHECK
6	GASKET - GOVENOR HOUSING	31	(SOME MODELS)
7	SPRING- GOVERNOR	55	
8	SEAL & WIRE— DIAPHRAGM COVER.		SCREW & LOCKWASHER (4) COVER
9	PIPE- GOV TO SEC. DIAPHRAGM		COVER ASSY - PUMP.
	COVER	34	
10.	SCREW & LOCKWASHER (4)-		SPRING-PUMP DIAPHRAGM
	DIAPHRAGM COVER		E-CLIP - LEVER.
11	COVER- GOV DIAPHRAGM		LEVER ASSY - PUMP
1.2	E-CLIP- DIAPHRAGM STEM RETAINER.	38	SCREW & LOCKWASHER (2)-
13	DIAPHRAGM ASSEMBLY		THROTTLE OPERATING SHAFT
14.	NUT & LOCKWASHER— GOV LEVER.		HOUSING
15.	LEVER— GOV.	39	HOUSING ASSY - THROTTLE
16	SCREW & LOCKWASHER (3)-	1000	OPERATING LEVER.
	GOV HOUSING		NUT- SOLENOID
17	GOV HOUSING ASSEMBLY		LOCKTAB WASHER— SOLENOID
13	SEAL- GOV HOUSING.		SOLENOID - THROTTLE
19	GASKET - GOV HOUSING		FITTING - FÜEL INLET
20	JET "A" - GOV. HOUSING.		GASKET FITTING
21.	JET "B" -GOV HOUSING.		SCREEN— FUEL INLET
22	E-CLIP-SEC DIAPH STEM		SCREW (4)— PRI FUEL BOWL
23	SCREW & LOCKWASHER (3)-		GASKET (4)- PRI FUEL BOWL SCREY
	SEC DIAPH HOUSING		BOWL - PRI FUEL
24	SECONDARY DIAPHRAGM HOUSING.	49	RETAINER- VENT VALVE
25.	GASKET- SEC. DIAPH, HOUSING	50	VALVE— VENT (SOME MODELS)
	SEAL & WIRE— COVER	51	BAFFLE PLATE
27		52	E-CLIP - FLOAT

REF	REF
NO:	NO.
53 ELOAT & SPRING ASSY - PRI 54 NEEDLL & SEAT ASSY - PRI ADJUSTABLE (SOME MODELS) 55 BOWL FILLER - PRI (SOME MODELS) 56 PLUG - FUEL LEVEL (SOME MODELS) 57 GASKET - PLUG (SOME MODELS) 58 GASKET - PRI PUEL BOWL 59 METER BODY FILLER - PRI 60 METERING BLOCK - PRI 61 JET (2) - PRI MAIN 61 JET (2) - PRI MAIN 63 GASKET - ENRICHMENT VALVE 64 GASKET - ENRICHMENT VALVE 65 TUBE - PUMP TRANSFER 66 O-RING (2) - TRANSFER TUBE 67 TUBE - FUEL LINE 68 O-RING (2) - TREL LINE TUBE 69 SCREW (4) - SEC. FUEL BOWL 69 GASKET (4) - SEC. FUEL 60 BOWL SCREW 60 BOWL SEC. FUEL 60 BOWL SEC. FUEL 60 BOWL SEC. FUEL 61 BOWL SEC. FUEL 61 BOWL SEC. FUEL	73 E.C.IP- FLOAT 74 FLOAT & SPRING ASSY - SEC 75. NEEDLE & SEAT ASSY - SEC. 75. NEEDLE & SEAT ASSY - SEC. 75. NEEDLE & SEAT ASSY - SEC. ADJUSTABLE (SOME MODELS) 76 FUG— FUEL LEVEL (SOME MODELS) 77 GASKET— PLUG (SOME MODELS) 78 GASKET— SEC FUEL BOWL 79 METERING BLOCK— SEC 80 JET (2)— MAIN 81 CAP (2)— IDLE LIMITER 82 NEEDLE (2)— IDLE ADJUSTING 83 GASKET (2)— IDLE ADJUSTING 84 GASKET— SEC METERING BODY 85 SCREW & LOCKWASHER (8)— THROTTLE BODY 86 THROTTLE BODY 87 GASKET— THROTTLE BODY 88 SCREW— PUMP DISCHARGE NOZZLE 89 GASKET (2)— PUMP NOZZLE 90 NOZZLE— PUMP DISC 91 NEEDLE— PUMP DISC

CLEANING

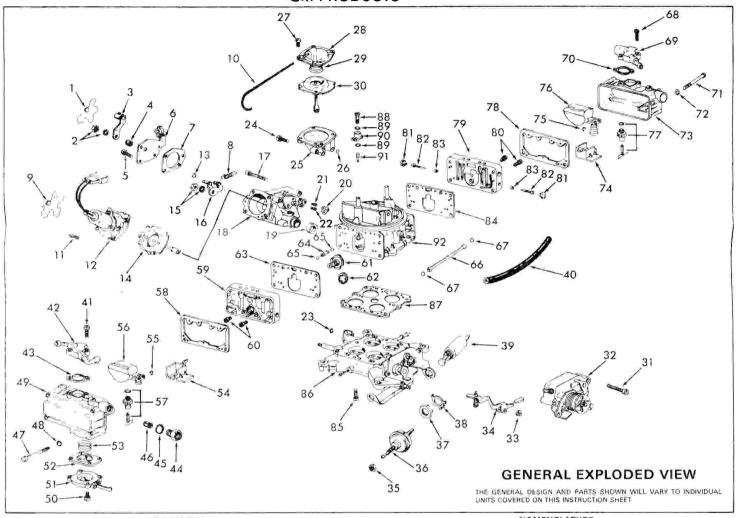
CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBELED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USE A CARBURETOR CLEANING SOLVENT MAKE SURE THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS RINSE OFF IN SUITABLE SOLVENT BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH CLEANING OF OBSCURE AREAS CAUTION: DO NOT SOAK FLOATS, SOLENOIDS OR PARTS CONTAINING RUBBER MATERIAL IN CLEANING SOLVENTS.

REASSEMBLE

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY NOTE SPECIAL INSTRUCTIONS AND FOLLOW NUMERICAL DUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SERVICE

INSTRUCTION SHEET HOLLEY CARBURETOR MODEL 4150 EG

GM PRODUCTS



DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE THE NUMERICAL SEQUENCE MAY GENERALLY BEFOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPESTION, NOTE: ON SOME MODELS UNHOOK, HEAVY SAFETY SPRING ON THROTTLE LEVER ASSEMBLY 132 FOR EASIER ACCESS TO (31) HOLDING ASSEMBLY TO CARBURETOR RECORD JET SIZES AND LOCATION FOR REASSEMBLY

NIO	MACE	ICLA	THE
IAO	MICH	CLA	Uni

DE €		BEF	
NU		NC	
1	SEAL & WIRE—COVER (WHEN USED)	28	COVER-SEC DIAPHRAGM
2	NUT & LOCKWASHER-LEVER	29	SPRING-SEC DIAPHRAGM
3	LEVER-CHOKE	30	DIAPHRAGM-SECONDARY
4	SEAL DUST	31	SCREW & LOCKWASHER (2)-
5	SCREW & LOCKWASHER (4)-COVER		THROTTLE OPERATING SHAFT HOUSING
£	COVER—GOVERNOR HOUSING	-32	HOUSING ASSY - THROTTLE
7	GASKET - GOVERNOR COVER		OPERATING LEVER
8	SPRING-GOVERNOR	33	E CLIP-LEVER
9	SEAL & WIRE—DIAPHRAGM COVER	34	LEVER ASSY -PUMP
	(WHEN USED)	35	NUT -MODULATOR
1.0	HOSE—GOV TO SEC DIAPHRAGM	36	MODULATOR—THROTTLE
	COVER	37	NUT-SOLENOID
11	SCREW & LOCKWASHER (4)-	38	LOCKTAB WASHER-SOLENOID
	DIAPHRAGM & SOLENGID COVER	39	SOLENOID-THROTTLE
12	COVER ASSY - DIAPHRAGM &	AG.	HQSE-VENT CROSS OVER
	SCLENOID	411	SCREW & LOCKWASHER (2)-
13	E CLIP DIAPHRAGM STEM RETAINER		PRI VENT COVER
14	DIAPHRAGM ASSEMBLY	42	VENT COVER—PRIMARY
15	NUT & LOCKWASHER—GOV LEVER	43	GASKET - VENT COVER
1.6	LEVER-GOVERNOR	44.	FITTING—FUEL INLET
17	SCREW & LOCKWASHER (3)-	45.	GASKET— FITTING
	GOVERNOR HOUSING	46	SCREEN-FUEL INLET
18	GOV HOUSING ASSEMBLY	47	SCREW (4)-PRI FUEL BOWL
19	SEAL-GOV HOUSING	48.	GASKET (4) - PRI FUEL BOWL SCREW
20	GASKET- GOV HOUSING	49	BOWL—PRI FUEL
21	JET "A" -GOV HOUSING	50	
22	JET "B"-GOV HOUSING	51	COVER ASSY—PUMP DIAPHRAGM
23	E CLIP-SEC DIAPH STEM	52	DIAPHRAGM ASSY - PUMP
24	SCREW & LOCKWASHER (3)-	53	SPRING—DIAPHRAGM
100	SEC DIAPH HOUSING	54	BAFFLE PLATE
Z5	SECONDARY DIAPHRAGM HOUSING	55	E CLIP-FLOAT
26	GASKET -SEC DIAPH HOUSING	56	FLOAT & SPRING ASSY -PRI
27	SCREW & LOCKWASHER (4)-COVER	5.7	NEEDLE & SEAT ASSY -PRI

NOMENCLATURE

REF.		REF NO	
58	GASKET-PRI, FUEL BOWL	76.	FLOAT & SPRING ASSY.—SEC.
59	METERING BLOCK—PRI	77	NEEDLE & SEAT ASSY -SEC
60	JET (2)—PRI MAIN	78	GASKET-SEC FUEL BOWL
61.	VALVE—ENRICHMENT	19	METERING BLOCK SEC.
62	GASKET-ENRICHMENT VALVE	80	JET (2)—SEC MAIN
63	GASKET PRI METERING BLOCK	81	CAP (2)-IDLE LIMITER
84	TUBE PUMP TRANSFER	82	NEEDLE (2)-IDLE ADJUSTING
65	O RING (2) - TRANSFER TUBE	83	GASKET (2)-IDLE ADJUSTING
66	TUBE - FUEL LINE		NEEDLE
67	O-RING (2)-FUEL LINE TUBE	84	GASKET-SEC METERING BODY
68	SCREW & LOCKWASHER (2)-	85	SCREW & LOCKWASHER (8)-
	SEC VENT COVER		THROTTLE BODY
69	VENT COVER—SECONDARY	86	THROTTLE BODY ASSY
70	GASKET-VENT COVER	87	GASKET-THROTTLE BODY
71	SCREW (4)—SEC_FUEL BOWL	88	SCREW-PUMP DISC NOZZLE
72	GASKET (4)—SEC_FUEL BOWL/SCREW	89	GASKET (2)-PUMP NOZZLE
73	BOWL—SEC FUEL	90	NOZZLE-PUMP DISC-
74.	BAFFLE PLATE	91	NEEDLE-PUMP DISC.
75	E-CLIP-FLOAT	92	MAIN BODY ASSEMBLY

CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBELED SOAK PARTS LONG ENOUGH TO SOFTEM AND REMOVE ALL FOREIGN MATERIAL. USE A CARBURETOR CLEANING SOLVENT MAKE SURE 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 CAREFULLYTO INSURE THOROUGH CLEANING OF OBSCURE AREAS CAUTION, DO NOT SOAK FLOATS: SOLENOIDS, OR PARTS CONTAINING RUBBER MATERIAL IN CLEANING SOLVENT.

REASSEMBLE

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

ADJUSTMENTS

SPECIAL INSTRUCTIONS

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

THROTTLE BODY GASKET (87) MAKE SURE HOLES ARE PROPERLY MATCHED TO THROTTLE BODY TORQUE BODY SCREWS TO 50 INCH POUNDS

IDLE ADJUSTING NEEDLES (82) TURN IN UNTIL LIGHTLY SEATED. THEN BACK OUT ONE TURN (DO NOT INSTALL IDLE LIMITER CAPS AT THIS TIME.)

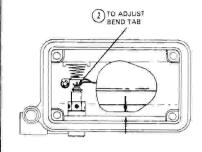
PRIMARY & SECONDARY FUEL BOWL (48)-(71) OR (49)-(73) BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT

BOWL SCREW INSTALLATION (46)+(69) OR (47)+(71)-INSTALL GASKETS (47)-(70) OR (48)+(72) ON SCREWS BEFORE INSTALLING THEN TORQUE EVENLY IN STAGES TO 40 INCH POUNDS

FUEL LINE TUBE (67) OR (66) INSTALL O-RINGS (68) OR (67) ON THE EXTREME ENDS OF THE TUBE, THEY WILL ROLL ON THE TUBE WHEN INSTALLING THE FUEL BOWL

ENRICHMENT VALVE (61)-(62) INSTALLATION TORQUE TO 100 INCH POUNDS

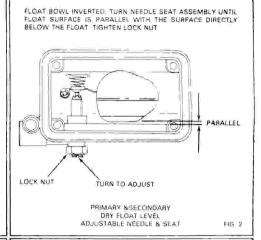
GOVERNOR DIAPHRAGM (13) OR (14): INSTALLATION SEE FIGURE 7



BOWL INVERTED WEIGHT OF FLOAT RESTING ON SEATED NEEDLE. MEASURE DISTANCE BETWEEN FLOAT AND INSIDE SURFACE OF FUEL BOWL

> PRIMARY & SECONDARY FLOAT LEVEL INTERNAL NEEDLE & SEAT

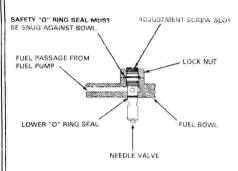
FIG. 1



LOCK NUT SIGHT PLUG HOLE GASKE

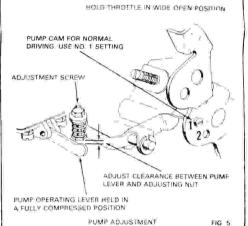
- VEHICLE SITTING ON LEVEL SURFACE AND ENGINE RUNNING
- REMOVE SIGHT LEVEL PLUG FROM HOLE
 ADJUST NEEDLE SEAT ASSEMBLY SO FUEL WILL BE AT BOTTOM EDGE OF SIGHT PLUG HOLE (1 32" TOLERANCE)
- 4 TIGHTEN LOCK NUT

WET FLOAT LEVEL ADJUSTABLE NEEDLE & SEAT

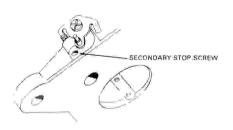


THE EXCLUSIVE SEALING FEATURE OF THIS ASSEMBLY PROVIDE SAFE ADJUSTMENT OF FUEL LEVEL WHILE ENGINE IS RUNNING

SAFETY SEAL ADJUSTABLE FUEL VALVE



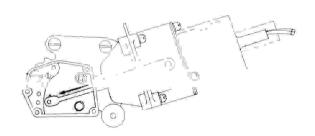
SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY PLATES ARE CLOSED TURN SCREW IN UNTIL IT CONTACTS STOP THEN TURN SCREW IN 1//2 TURN MORE



SECONDARY THROTTLE STOP ADJUSTMENT

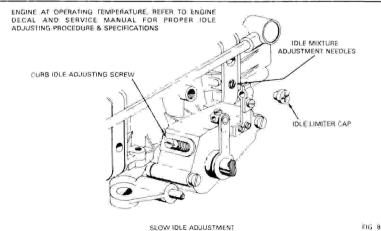
FIG. 6

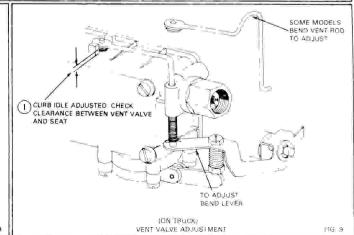
INSTALL COVER WITH THE SCREWS FINGER TIGHT PULL THE DIAPHRAGM ROD AS FAR AS IT WILL GO AND THEN TIGHTEN SCREWS EVENLY WHILE MAINTAINING DIAPHRAGM STRETCHED IN THIS POSITION:



GOVERNOR DIAPHRAGM INSTALLATION

FIG 7





ADJUSTMENT DATA TABLE

YEAR	APPLICATION	PRIMARY FLOAT LEVEL	SECONDARY FLOAT LEVEL	PUMP CAM POSITION	VENT VALVE AT ENG. IDLE	GOVERNOR SPRING POST
1975	G.M. PRODUCTS 366", 427" ENG. Carb. No. R6928A, R6929A	3/16" 3/16"	5/32″ 5/32″	No. 1 No. 1	045075 .045075	2 3
1976-77	G.M. PRODUCTS 366", 427" ENG. CALIF. 427" ENG.	3/16" 3/16"	7/32" 7/32"	No. 1 No. 2	.045075	2 2
1978-85	CHEV. & GMC TRUCK 366". 427" ENG. Carb. No. R7923A, R7924A, R7925A, R7926A, R7927A, R7928A	*	*	No. 1	.045075	Ño. 4
1979	CHEVROLET & GMC TRUCK 366", 427" ENG. Carb No. R8278A, R8279A, R8280A, R8281A, R8282A, R8283A	3/16"	7/32"	No. 1	045075	
1979	GMC TRUCK 454" ENG. Carb. No. R8443A, R8444A	3/16"	7/32″	No. 1	.045075	
1980-85	GMC TRUCK 366" ENG. Carb. No. R8848A, R8849A, R8850A, R8851A 427" ENG. Carb. No. R8852A, R8853A, R8854A, R8855A, R8894A 454" ENG. R8856A, R8857A	*	*			
1982-8	5 CHEVROLET & GMC TRUCK 366", 427" ENG. R-9714A, R-9715A, R-9716A, R-9717A	3/16"	7/32"	No.1	254	No.4
1969-8	OIHC TRUCK 392" ENG. Carb. No. R4323A,-1A,-2A,-3A,-4A Carb. No. R4323-5A, 6A Carb. No. R4324A, -1A,-2A,-3A,-4A,-5A Carb. No. R4324-6A,-7A Carb. No. R6803A,1A,2A,3A Carb. No. R7028A, R7579A Carb. No. R8105A, R8737A Carb. No. R8233A,1A, R8243A, R9021A 404" ENG. Carb. No. R7215A Carb. No. R8246A, 8922A 446" ENG. Carb. No. R7251A Carb. No. R7997A, R8247A Carb. No. R8740A, R8923A 537" ENG. Carb. No. R-6974A Carb. No. R8139A, R8924A	* * * * * * * * * * * * *	** * * * * * * * * * * * * * * * * * *	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2 1 2 1 1 3 2 3 2 3 2

^{*} ADJUST FLOAT SO IT IS PARALLEL WITH SURFACE OF BOWL.