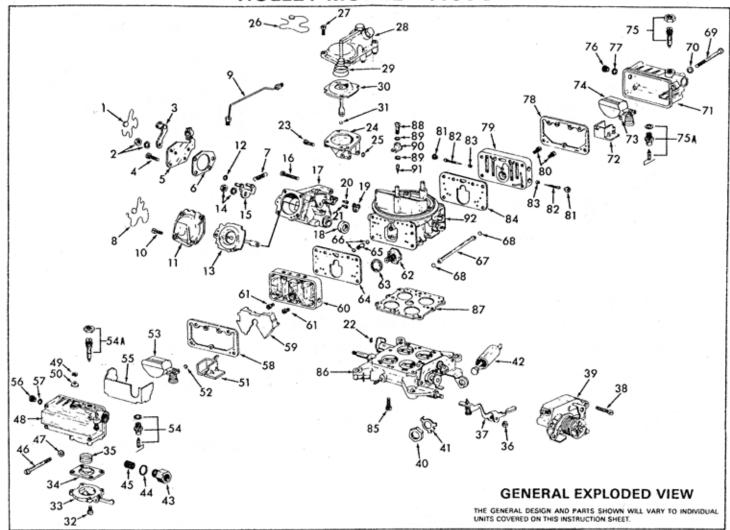
# INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE HOLLEY MODEL - 4150G



#### 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: ON SOME MODELS UNHOOK HEAVY SAFETY SPRING ON THROTTLE LEVER ASSEMBLY (39) FOR EASIER ACCESS TO SCREWS (39) HOLDING ASSEMBLY TO CARBURETOR. RECORD JET SIZES AND THER LOCATION FOR REASSEMBLY.

#### NOMENCLATURE

REF		REF.	
NO.		NO.	
1.	SEAL & WIRE- COVER	28.	COVER & VALVE ASSY.
3.	NUT & LOCKWASHER—LEVER LEVER— CHOKE.		SEC. DIAPHRAGM.
6.	SCREW & LOCKWASHEF		SPRING-SEC. DIAPHRAGM.
5.	COVER—GOVENOR HOUSING		DIAPHRAGM-+ SECONDARY:
5.	GASKET GOVENOR HOUSING	31.	BALL- SEC. DIAPHRAGM CHECK
,	SPRING— GOVERNOR		( SOME MODELS )
Ŕ	SEAL & WIRE- DIAPHRAGM COVER	32.	SCREW & LOCKWASHER (4)- COVER
î.	PIPE— GOV. TO SEC. DIAPHRAGM		COVER ASSY.— PUMP.
	COVER.	34.	DIAPHRAGM PUMP.
٥	SCREW & LOCKWASHER (4)-	35.	SPRING-PUMP DIAPHRAGM.
٧.	DIAPHRAGM COVER		E-CLIP - LEVER
1.	COVER- GOV. DIAPHRAGM.	37	LEVER ASSY.— PUMP.
	E-CLIP- DIAPHRAGM STEM RETAINER.	38.	SCREW & LOCKWASHER (2) -
	DIAPHRAGM ASSEMBLY		THROTTLE OPERATING SHAFT
	NUT & LOCKWASHER - GOV. LEVER.		HOUSING.
	LEVER- GOV.	39.	HOUSING ASSY THROTTLE
	SCREW & LOCKWASHER (3)-		OPERATING LEVER.
	GOV. HOUSING		NUT- SOLENOID.
17.	GOV. HOUSING ASSEMBLY.		LOCKTAB WASHER - SOLENOID
	SEAL- GOV. HOUSING		SOLENOID THROTTLE
	GASKET GOV. HOUSING.		FITTING FUEL INLET
20.	JET "A" - GOV. HOUSING.		GASKET FITTING
1	JET "8" GOV. HOUSING.		SCREEN FUEL INLEY
	E-CLIP - SEC. DIAPH, STEM.		SCREW (4) PRI FUEL BOWL
3.	SCREW & LOCKWASHER (3)		GASKET (4)— PRI FUEL BOWL SCREI
	SEC. DIAPH. HOUSING.		BOWL— PRI. FUEL
24.	SECONDARY DIAPHRAGM HOUSING	49.	RETAINER- VENT VALVE
	GASKET SEC. DIAPH, HOUSING	50	VALVE- VENT (SOME MODELS)
	SEAL & WIRE COVER	51	BAFFLE PLATE
	SCREW & LOCKWASHER (4) COVER.	52.	E-CLIP - FLOAT

REF.	NO.
53. FLOAT & SPRING ASSYPRI. 54. NEEDLE & SEAT ASSYPRI. 54. NEEDLE & SEAT ASSYPRI. ADJUSTABLE (SOME MODELS ) 55. BOWL FILLERPRI. (SOME MODELS ) 56. PLUGFUEL LEVEL (SOME MODELS ) 57. GASKETPII. (PUEL BOWL 59. METER BODY FILLERPPII. (SOME MODELS ) 60. METERING BLOCKPRI. 61. JET (2)PRI. MAIN 61. JET (2)PRI. MAIN 62. VALVE ENRICHMENT VALVE 63. GASKETPRI. PRITERING BLOCK 65. TUBSPUMP TRANSFER 66. O-RING (2)TRANSFER TUBE 67. TUBEFUEL LINE 68. O-RING (2)FUEL LINE 68. O-RING (2)FUEL LINE 69. SCREW (4)SEC. FUEL 69WLSEC. FUEL 60WLSEC. FUEL 60WL	
	CLEANING RETOR DISASSEMBELED, SOAK PARTS LONG ENOUGH

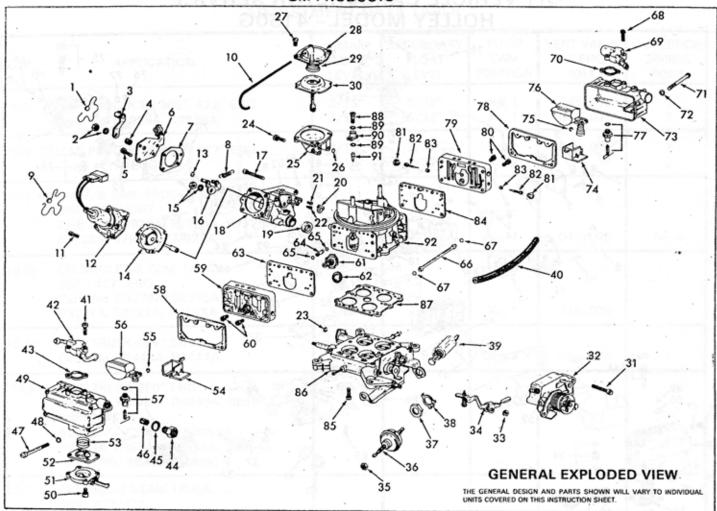
CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBELED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USE A CARBURETOR CLEANING SOLVENTMAKE SURE THE THROTTLE BORES ARE FREE OF ALL CARBON AND VARNISH DEPOSITS. RINSE OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED 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 OUTLINE IN MAKING ADJUSTMENTS NECESSARY FOR CARBURETOR BEING SERVICE.

## INSTRUCTION SHEET HOLLEY CARBURETOR MODEL 4150 EG

**GM PRODUCTS** 



#### DISASSEMBLY

LISASSEMBLY

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 (32) FOR EASIER ACCESS TO (31) HOLDING ASSEMBLY TO CARBURETOR. RECORD JET SIZES AND LOCATION FOR REASSEMBLY.

	NOMENCLATURE						
REF.		REF.	THE SHEET HARD A TAR TO SEE				
		NU.					
1.	SEAL & WIRE—COVER (WHEN USED)	28.	COVER-SEC. DIAPHRAGM.				
2.	NUT & LOCKWASHER-LEVER	29.	SPRING-SEC, DIAPHRAGM				
3.	LEVER—CHOKE SEAL:DUST	30.	DIAPHRAGM-SECONDARY				
		31.					
6	SCREW & LOCKWASHER (4)-COVER	3 7 1 30 1	THROTTLE OPERATING SHAFT HOUSE				
7.		32.	HOUSING ASSYTHROTTLE				
8.	OF TOTAL OF THE OW COVER		OPERATING LEVER				
9.	SPRING-GOVERNOR	33.	E-CLIP-LEVER				
э.	SEAL & WIRE-DIAPHRAGM COVER (WHEN USED)	34.	LEVER ASSY.—PUMP				
10.		35.	NUT-MODULATOR				
10.	COVER	36.	MODULATOR-THROTTLE				
11	SCREW & LOCKWASHER (4)-	37.	NUT-SOLENOID				
	DIAPHRAGM & SOLENOID COVER	38.	LOCKTAB WASHER-SOLENOID				
12.		39	SOLENOID-THROTTLE				
12.	SOLENOID	40.					
13.	E-CI IP -DIAPHRAGM STEM RETAINER	41.					
	DIAPHRAGM ASSEMBLY		PRI, VENT COVER				
15.		42.					
	LEVER-GOVERNOR	43.					
17.	SCREW & LOCKWASHER (3)—	44.					
	GOVERNOR HOUSING	45.					
18	GOV. HOUSING ASSEMBLY	46.					
19.	SEAL-GOV. HOUSING	47.					
20.	GASKET—GOV HOUSING	48.	GASKET (4)-PRI. FUEL BOWL SCREW				
	JET "A"—GOV. HOUSING	. 49.	BOWLPRI. FUEL				
	JET "8"—GOV. HOUSING	50.	SCREW & LOCKWASHER (4)- COVER				
	E-CUP-SEC DIAPH, STEM	51.	COVER ASSY-PUMP DIAPHRAGM				
24.		52.	DIAPHRAGM ASSY.—PUMP				
	SEC. DIAPH. HOUSING	53.	SPRING-DIAPHRAGM				
25.		54.	BAFFLE PLATE.				
26.	GASKET—SEC. DIAPH. HOUSING	55.	E-CLIP-FLOAT				
27.	SCREW & LOCKWASHER (4)-COVER	56.	FLOAT & SPRING ASSY PRI				
	OCHEN & LOCKWASHER (4)- COVER	57.	NEEDLE & SEAT ASSY PRI.				

#### NOMENCLATURE

REF.	REF.
NO.	NO.
50. GASKET-PRI. FUEL BOWL	76. FLOAT & SPRING ASSYSEC.
<ol> <li>METERING BLOCK—PRI.</li> </ol>	77. NEEDLE & SEAT ASSY.—SEC.
60. JET (2)—PRI. MAIN	78. GASKET-SEC. FUEL BOWL
61. VALVE—ENRICHMENT	79. METERING BLOCK—SEC.
62. GASKET—ENRICHMENT VALVE	80. JET (2)-SEC. MAIN
63. GASKET—PRI. METERING BLOCK	81. CAP (2)-IDLE LIMITER
64. TUBEPUMP 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)— SEC. VENT COVER	85. SCREW & LOCKWASHER (8)— THROTTLE BODY
69. VENT COVER—SECONDARY	86. THROTTLE BODY ASSY.
70. GASKETVENT 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 SOFTEN 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 AR AND CHECK CAREFULLY TO 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.

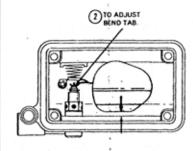
PRIMARY & SECONDARY FUEL BOWL (48)-(71) OR (49)-(73) BEFORE INSTALLING MAKE DRY FLOAT LEVEL ADJUSTMENT.

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

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

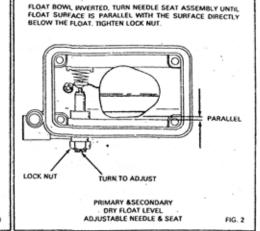
GOVERNOR DIAPHRAGM (13) OR (14)- INSTALLATION SEE FIGURE. 7

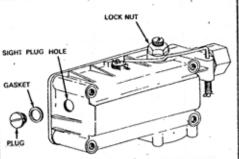


1 FUEL BOWL INVERTED, WEIGHT OF FLOAT RESTING ON SEATED NEEDLE. MEASURE DISTANCE BETWEEN FLOAT AND INSIDE SURFACE OF FUEL BOWL.

PRIMARY & SECONDARY FLOAT LEVEL INTERNAL NEEDLE & SEAT

FIG. 1

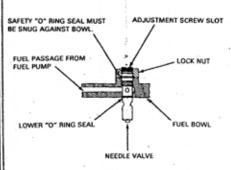




- VEHICLE SITTING ON LEVEL SURFACE AND ENGINE RUNNING.
   REMOVE SIGHT-LEVEL PLUG FROM HOLE.
   ADJUST NEEDLE SEAT ASSEMBLY SO FUEL WILL BE AT
- BOTTOM EDGE OF SIGHT PLUG HOLE (1/32" TOLERANCE.)
- 4. TIGHTEN LOCK NUT.

WET FLOAT LEVEL ADJUSTABLE NEEDLE & SEAT

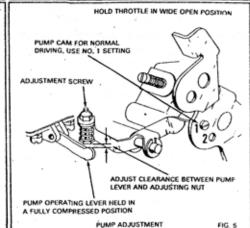
FIG. 3



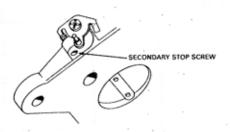
THE EXCLUSIVE SEALING FEATURE OF THIS ASSEMBLY PROVIDE SAFE ADJUSTMENT OF FUEL LEVEL WHILE ENGINE IS RUNNING

FIG. 6

SAFETY SEAL ADJUSTABLE FUEL VALVE FIG. 4

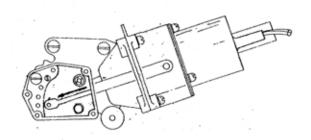


SECONDARY THROTTLE STOP SCREW, BACK OUT UNTIL SECONDARY PLATES ARE CLOSED. TURN SCREW IN UNTIL IT CONTACTS STOP, THEN TURN SCREW IN 1/2 TURN MORE.



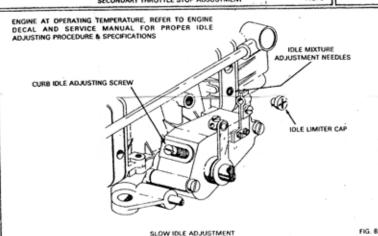
SECONDARY THROTTLE STOP ADJUSTMENT

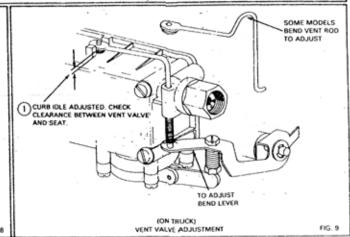
INSTALL COVER WITH THE SCREWS FINGER TIGHT, PULL THE DIAPHRAGM ROO AS FAR AS IT WILL GO AND THEN TIGHTEN SCREWS EVENLY WHILE MAINTAINING DIAPHRAGM STRETCHED IN THIS POSITION



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
1978-82	CHEV. & GMC TRUCK 366", 427" ENG. Carb. No. R7923A, R7924A, R7925A, R7926A, R7927A, R7928A		•	No. 1	.045075	No. 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	
1980-82	GMC TRUCK 366" ENG. Carb. No. R8848A, R8849A, R8850A, R8851A 427" ENG. Carb. No. R8852A, R8853A, R8854A, R8855A, R8894A 454" ENG. R8856A, R8857A	•	:		- <u>-</u> -	
1982	CHEVROLET & GMC TRUCK 366", 427" ENG. R-9714A, R-9715A, R-9716A, R-9717A	3/16"	7/32" .	No. 1		No.4
1969-80	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. 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.			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
	Carb. No. R-6974A Carb. No. R8139A, R8924A	:	:	2 2		3 3

<sup>\*</sup> ADJUST FLOAT SO IT IS PARALLEL WITH SURFACE OF BOWL.