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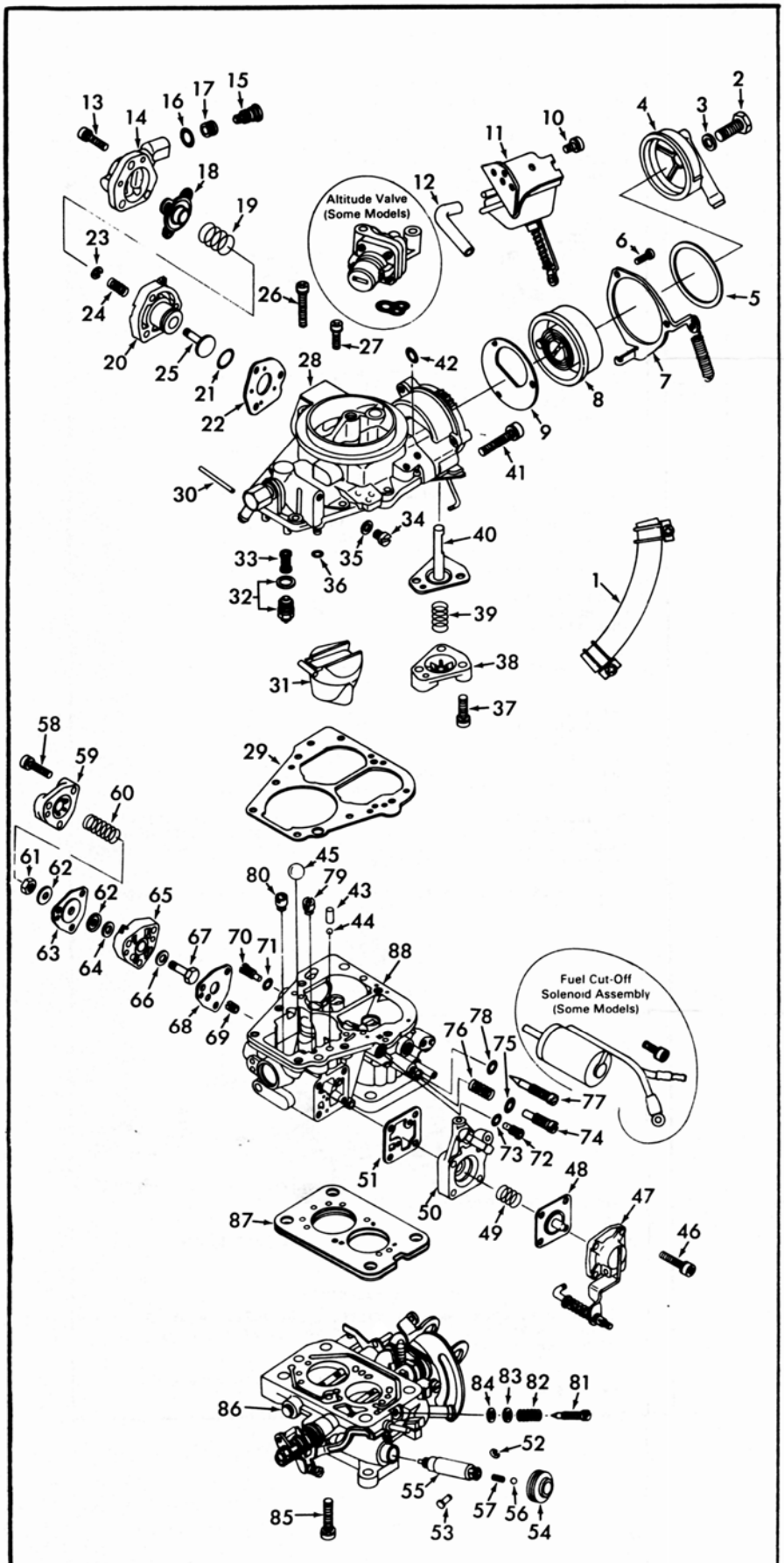
INSTRUCTION SHEET

50-553

(MIKUNI) SOLEX CARBURETOR MODELS - 28-32 DIDTA, 30-32 DIDTA (1978)



DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION SNAP LINKS OUT OF PLASTIC BUSHINGS AT LOWER END ONLY O-RING (42) IN CHOKE VACUUM PASSAGE CAN BE REMOVED AFTER CHOKE HOUSING SCREWS (41) ARE REMOVED **ADJUSTING SCREWS, ITEMS (74) - (77) ARE SEALED BY WHITE PAINT AT THE FACTORY. IT IS RECOMMENDED THAT THEY NOT BE REMOVED OR TAMPERED WITH. NO SERVICE INSTRUCTIONS ARE AVAILABLE FOR SERVICE. TAMPERING WITH ANY FACTORY SEALED ADJUSTMENT WILL BE AT THE RISK OF THE INDIVIDUAL SERVICING THE CARBURETOR.** BEFORE REMOVING IDLE ADJUSTING NEEDLE (81), TURN IN COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT NEEDLE AND RECORD FOR REASSEMBLY

NOMENCLATURE

REF. NO.	
1.	HOSE & CLAMPS - WATER
2.	BOLT - WATER CASE
3.	GASKET - BOLT
4.	CASE - WATER
5.	GASKET - WATER CASE
6.	SCREW & LOCKWASHER (3) - CHOKE COVER RETAINER
7.	RETAINER & THROTTLE RETURN SPRING
8.	CHOKE COVER ASSY.
9.	SPACER (FIBER) CHOKE COVER
10.	SCREW & LOCKWASHER (2) - SECONDARY VAC. UNIT
11.	SECONDARY VAC. UNIT ASSY.
12.	HOSE - SEC. VAC. UNIT
13.	SCREW & LOCKWASHER (3) - COVER ALT. VALVE
14.	COVER - ALT. VALVE
15.	JET PLUG - ALT. COVER
16.	O-RING - JET PLUG
17.	FILTER - JET PLUG
18.	DIAPHRAGM ASSY. - ALT.
19.	SPRING - ALT. DIAPHRAGM ASSY.
20.	HOUSING - ALT. VALVE
21.	O-RING - ALT. VALVE HOUSING
22.	GASKET - ALT. VALVE HOUSING
23.	E-CLIP - ALT. VALVE
24.	SPRING - ALT. VALVE
25.	VALVE - ALT.
26.	SCREW & LOCKWASHER (1) LONG - BOWL COVER
27.	SCREW & LOCKWASHER (6) - BOWL COVER
28.	BOWL COVER ASSY.
29.	GASKET - BOWL COVER
30.	PIN - FLOAT
31.	FLOAT & LEVER ASSY.
32	NEEDLE, SEAT & GASKET ASSY.
33.	SCREEN - FUEL INLET
34.	PLUG - PASSAGE
35	GASKET - PLUG
36.	O-RING - PASSAGE
37.	SCREW & LOCKWASHER (3) - COVER
38.	COVER - VAC. BREAK DIAPHRAGM
39.	SPRING - DIAPHRAGM
40.	DIAPHRAGM ASSY. - VAC BREAK
41.	SCREW & LOCKWASHER (2) - CHOKE HOUSING
42	O-RING - VAC PASSAGE CHOKE HOUSING
43.	WEIGHT - PUMP DISC. BALL
44.	BALL PUMP DISC
45.	BALL - ROLL OVER
46.	SCREW & LOCKWASHER (4) - PUMP DIAPHRAGM COVER
47.	COVER & LINK ASSY - PUMP DIAPHRAGM
48.	DIAPHRAGM ASSY - PUMP
49.	SPRING - PUMP DIAPHRAGM
50	HOUSING DIAPHRAGM
51.	GASKET - DIAPHRAGM HOUSING
52.	E-CLIP - PIN
53.	PIN - SUB. EGR VALVE
54.	BOOT - SUB. EGR VALVE
55.	VALVE ASSY - SUB. EGR
56.	BALL - SUB EGR VALVE
57	SPRING - BALL
58	SCREW & LOCKWASHER (3) - VALVE COVER
59.	COVER - ENRICHMENT VALVE
60.	SPRING DIAPHRAGM RETURN
61.	NUT - VALVE STEM
62.	CUP WASHER (2) - DIAPHRAGM
63.	DIAPHRAGM - ENRICHMENT VALVE
64.	WASHER - STEM
65.	HOUSING - ENRICHMENT VALVE
66.	VALVE (RUBBER) - STEM
67.	STEM - ENRICHMENT VALVE
68.	GASKET - VALVE MOUNTING
69.	JET - ENRICHMENT _____
70.	JET - SECONDARY PILOT _____
71.	O-RING - SEC PILOT JET
72.	JET PRIMARY PILOT _____
73	O-RING - PRI PILOT JET
74	BYPASS SCREW IDLE
75	O-RING - BYPASS SCREW
76	SPRING BYPASS SCREW
77.	NEEDLE - EGR PASSAGE
78	O-RING - NEEDLE
79.	JET - PRIMARY MAIN _____
80	JET - SECONDARY MAIN _____
81.	NEEDLE - IDLE ADJ
82.	SPRING - IDLE ADJ. NEEDLE
83.	WASHER - NEEDLE SEAL
84.	SEAL - IDLE NEEDLE
85	SCREW & LOCKWASHER (2) - THROTTLE BODY
86.	THROTTLE BODY ASSY.
87.	GASKET THROTTLE BODY
88.	BOWL ASSY FLOAT

CLEANING

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 BODY IS FREE OF ALL CARBON DEPOSITS WASH 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 FLOAT BOWL (88) OR THROTTLE BODY (86) FOR A PROLONG PERIOD OF TIME BECAUSE OF PLASTIC AND RUBBER COMPONENTS THAT ARE NOT REMOVABLE. DO NOT SOAK OR WASH DIAPHRAGM ASSEMBLIES, FLOAT, SOLENOIDS OR RUBBER PARTS SUCH AS (1), (12), (18), (25, (54) IN CLEANING SOLVENTS.** THESE PARTS WILL BE USED OVER

REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENTS

SPECIAL INSTRUCTIONS

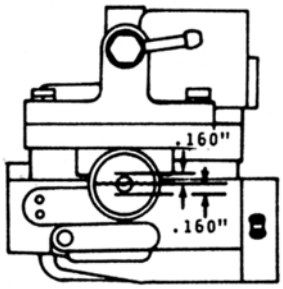
IDLE ADJUSTING NEEDLE (81) - TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY

LINK INSTALLATION - INSTALL LINK END INTO LARGE OPENING OF PLASTIC BUSHING, SNAP IN PLACE

CHOKE COVER (8) - MAKE SURE LOOP OR HOOK ON STAT SPRING CONTACTS OR IS ON PIN OF LEVER ON CHOKE SHAFT THEN TURN TO ALIGN MARK ON COVER TO INDEX MARK ON HOUSING

ADJUSTMENTS

NORMAL FUEL LEVEL IS WITHIN LEVEL MARK ON THE SIGHT GLASS. FUEL LEVEL CAN BE .160" (4.MM) ABOVE OR BELOW THE NORMAL LEVEL, IF IT STAYS WITHIN THIS RANGE IT NEED NOT BE ADJUSTED.



NOTE: TO CHANGE FLOAT LEVEL REQUIRES CHANGING THE THICKNESS OF THE NEEDLE SEAT GASKET. (DO NOT BEND FLOAT HANGER).

FLOAT LEVEL CHECK FIG. 1

CURB IDLE ADJUSTMENT

1. ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CLEANER IN PLACE IGNITION TIMING CHECKED, TRANSMISSION IN NEUTRAL & A/C OFF.

2. IDLE ADJUSTMENT FOR HIGH ALTITUDE CARS SHOULD HAVE MANUAL ALTITUDE COMPENSATOR KNOB SET FOR PROPER ALTITUDE BEFORE MAKING IDLE ADJUSTMENT.

HIGH ALTITUDE

ABOVE 4000 FT. (1,219M)

LOW ALTITUDE

BELOW 4000 FT. (1,219M)

3. SET THE ENGINE SPEED TO THE ENRICHED IDLE SPEED AND ENRICHED IDLE CO, AS SPECIFIED, BY USING THE IDLE SPEED ADJUSTING SCREW AND THE IDLE MIXTURE ADJUSTING SCREW.

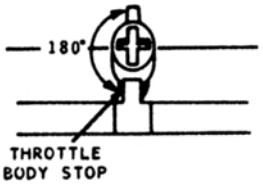
ENGINE	TRANS.	ENRICHED IDLE SPEED R.P.M.	ENRICHED IDLE CO%
97.5 CID (1600CC)	MANUAL	730	1.0
97.5 CID (1600CC)	AUTO	780	1.0
121.7 CID (2000CC)	MANUAL	730	1.0
121.7 CID (2000CC)	AUTO	780	1.0
155.9 CID (2600CC)	MANUAL	780	1.0
155.9 CID (2600CC)	AUTO	830	1.0

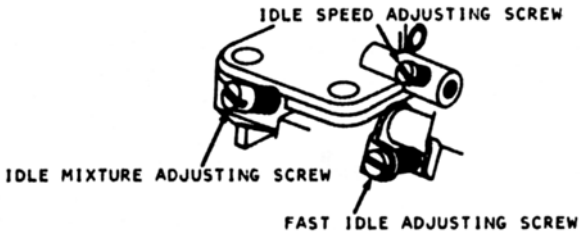
RESET THE ENGINE SPEED TO THE NOMINAL SPECIFICATIONS OF THE IDLE SPEED, BY ADJUSTING THE IDLE MIXTURE ADJUSTING SCREW.

ENGINE	TRANS.	IDLE SPEED R.P.M.	IDLE CO%
97.5 CID (1600CC)	MANUAL	650±50	BELOW 0.1
97.5 CID (1600CC)	AUTO	700±50	BELOW 0.1
121.7 CID (2000CC)	MANUAL	650±50	BELOW 0.1
121.7 CID (2000CC)	AUTO	700±50	BELOW 0.1
155.9 CID (2600CC)	MANUAL	700±50	BELOW 0.1
155.9 CID (2600CC)	AUTO	750±50	BELOW 0.1

5. THE IDLE CO AND THE IDLE SPEED SHOULD MEET THE SPECIFICATIONS WITHOUT ANY MISFIRING. IF NOT, RESET THE SPECIFICATIONS BY ADJUSTING THE IDLE MIXTURE ADJUSTING SCREW SO AS NOT TO CAUSE ANY MISFIRING, OR REPEAT ABOVE STEPS.

6. AFTER ADJUSTMENT, INSTALL THE IDLE LIMITER CAP AS ILLUSTRATED.





FAST IDLE ADJUSTMENT

1. ENGINE OFF, OPEN THROTTLE VALVE, CLOSE CHOKE VALVE BY HAND THEN RELEASE THROTTLE VALVE TO SET FAST IDLE ON HIGH STEP OF CAM.

2. START ENGINE, DO NOT TOUCH THROTTLE, SET TO 2000 R.P.M. OR LESS USING THE FAST IDLE SCREW.