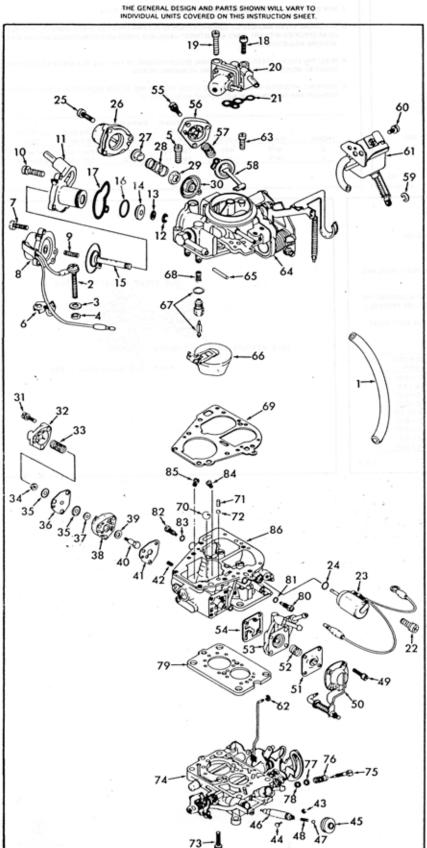
INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE (MIKUNI) SOLEX-MODELS 28-32 DIDTA, 30-32DIDTA

GENERAL EXPLODED VIEW



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 RETAINES. UNHOOK THROTTLE RETURN SPRING AT LOWER END AND SECONDARY LEVER RETURN SPRING AT UPPER END WHEN REMOVING CHOKE PULL OFF DIAPHRAGM AND DIAPHRAGM SHAFT WILL NOT CLEAR GUIDE PIN. TAPP INI NA LITTLE UNTIL SHAFT CAN BE TURNED SLIGHTLY AND REMOVED NOTE SIZES AND LOCATION OF PRIMARY & SECONDARY JETS FOR PROPER REASSEMBLY (RECORD SIZES BELOW.)

BY PASS SCREW AND ADJUSTING SCREW LOCATED ON PRIMARY SIDE OF FLOAT BOWL. 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 SCALED ADJUSTMENT WILL BE AT THE RISK OF THE INDIVIDUAL SERVICING THE CARBURETOR.

BEFORE REMOVING IDLE ADJUSTING NEEDLE (75), TURN IN COUNTING THE NUMBER OF TURNS IT TAKES TO LIGHTLY SEAT NEEDLE AND RECORD FOR REASSEMBLY.

NOMENCLATURE

REF.	REF.
1. HOSE - WATER	43. E-CLIP - PIN
2. SCREW & LKWSHR GRD. LEAD	44. PIN - SUB. EGR VALVE
3. WASHER - FLAT	45. BOOT - SUB. EGR VALVE
4. SEAL - GRD. LEAD SCREW	46. VALVE ASSY SUB. EGR
SCREW & LKWSHR WIRE CLAMP	47. BALL - SUB. EGR VALVE
6. CLAMP - WIRE	48. SPRING - BALL
7. SCREW & LKWSHR. (3) - SOLENOID BOWL VENT	49 SCREW & LKWSHR (4) - PUMP COVER 50 COVER & LINK ASSY - PUMP DIAPH
B. SOLENOID ASSY BOWL VENT	51, DIAPHRAGM ASSY.
9. SPRING - SOLENOID BOWL VENT	52 SPRING - DIAPHRAGM
10. SCREW & LKWSHR BOWL VENT HSG.	53. HOUSING - DIAPHRAGM
11. HOUSING ASSY BOWL VENT	54. GASKET - HOUSING
12. E-CLIP - VENT VALVE	55. SCREW & LKWSHR. (3) - COVER
13. WASHER - VENT VALVE	56. COVER - CHOKE BREAKER
14. VENT VALVE	57. SPRING - DIAPHRAGM
15. DIAPHRAGM - VENT VALVE	58. DIAPHRAGM ASSY CHOKE BREAKER
16. O-RING - VENT VALVE HSG.	59. E-CLIP - SEC. VAC. UNIT LINK
17. SEAL - VENT VALVE HSG.	60. SCREW & LKWSHR (2) - SEC. VAC. UNIT
18. SCREW & LKWSHR GRD. LEAD	61. SECONDARY VACUUM UNIT ASSY.
19. SCREW & LKWSHR AIR SWITCHING	62. E-CLIP - CHOKE ROD
VALVE	63. SCREW & LKWSHR. (4) - BOWL COVER
20. AIR SWITCHING VALVE ASSY.	64. BOWL COVER ASSY.
21. SEAL - AIR SWITCHING VALVE ASSY.	65. PIN - FLOAT
22. SCREW & LKWSHR SOLENOID ASSY.	66. FLOAT ASSY.
23. SÓLENOID ASSY FUEL CUT OFF	67. NEEDLE & SEAT ASSY.
24. O-RING - SOLENOID	68. SCREEN - FUEL INLET
25. SCREW & LKWSHR. (3) - MIXTURE	69. GASKET - BOWL COVER
CONTROL VALVE	70. BALL - ROLL OVER
26. COVER - MCV	71. WEIGHT - PUMP DISC. BALL
27. SPRING GUIDE - MCV	72. BALL - PUMP DISC.
28. SPRING - MCV	73. SCREW & LKWSHR. (2) - THROTTLE
29. GUID€ - MCV	BOOY
30. DIAPHRAGM - MCV	74. THROTTLE BODY ASSY.
31. SCREW & LKWSHR. (3) - VALVE COVER	75. NEEDLE - IDLE MIXTURE
32. COVER - ENRICHMENT VALVE	76. SPRING - MIXTURE NEEDLE
33. SPRING - DIAPHRAGM RETURN	77. WASHER - NEEDLE SEAL
34. NUT - VALVE STEM	78. SEAL - IDLE NEEDLE
35. WASHER (2) - DIAPHRAGM	79, GASKET - THROTTLE BODY
36. DIAPHRAGM - ENRICHMENT VALVE	80. JET - PRIMARY PILOT
37. WASHER - STEM (FIBER)	81. O-RING - PRI. PILOT JET
38. HOUSING - ENRICHMENT VALVE	82 JET - SECONDARY PILOT
39. VALVE (RUBBER)	83. O-RING - SEC. PILOT JET
40. STEM - ENRICHMENT VALVE	84. JET - PRIMARY MAIN
41. GASKET - VALVE MOUNTING	85. JET - SECONDARY MAIN

CLEANING

86. BOWL ASSY. - FLOAT

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL USE A CARBURETOR CLEANER 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 BOWL COVER (64), FLOAT BOWL (86) OR THROTTLE BODY (74) 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), (8), (15), (20), (21), (23), (30), (45), (58), (61), (66) 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 (75) - TURN IN UNTIL LIGHTLY SEATED, THEN BACK OUT NUMBER OF TURNS RECORDED ON DISASSEMBLY. (BASIC SET 2 1/2 TURNS OUT)

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

ROLL OVER BALL (70) - INSTALL STEEL BALL IN CHAMBER OF FLOAT BOWL AND UNDER BRASS BLADE WHICH MUST BE FACING DOWNWARD.



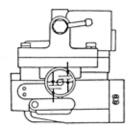
SMALL SPRING GUIDE

33 - 5/16" x 1 1/16" 52 - 7/16" x 9/16"

57 - 5/16" x 3/4"

ADJUSTMENTS

ENGINE AT NORMAL OPERATING TEMPERATURE OPERATING AT ICLE SPEED. IN NEUTRAL AND WITH ALL ACCESSORIES OFF. NORMAL FUEL LEVEL IS WITHIN LEVEL MARK ON THE SIGHT GLASS FUEL LEVEL CAN BE 160" (AMM), 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

IDLE SPEED AND MIXTURE SETTING PROCEDURE (CHECK EMISSION LABEL IN ENGINE COMPARTMENT)

- 1 TRANSMISSION IN NEUTRAL, PARKING BRAKE ON, A/C, LIGHTS, ALL ACCESSORIES OFF
- 2. RUN ENGINE TO OPERATING TEMPERATURE 80 TO 90°C (170 TO 190°F)
- 3 SET ENGINE SPEED AND IDLE CO-CONCENTRATION TO THE ENRICHED IDLE SPEED AND ENRICHED IDLE CO-AS SPECIFIED IN CHART. MAKE ADJUSTMENT USING IDLE SPEED ADJUSTING SCREW. AND THE IDLE MIXTURE ADJUSTING SCREW.
- RESET THE ENGINE SPEED TO THE NOMINAL SPECIFICATIONS OF THE CURBIDLE SPEED AS SHOWN IN CHART BY ADJUSTING THE IDLE MIXTURE ADJUSTING SCREW.
- 5 PROPERLY ADJUSTED WHEN CURBIDLE SPEED AND CO ARE WITHIN RESPECTIVE SPECIFICATIONS WITHOUT ANY MISSFIRING. IF NOT, REPEAT ADJUSTMENTS

ENGINE	TRANS.	LCOAL	ENRICHED IDLE R.P.M.	ENRICHED IDLE CO%	CURB IDLE	CURB IDLE
U	M/T	495	730 + 10	1.0 • 0.1	650 - 50	Ecow 0 1
U	A/T	495	780 + 10	1.0	700 + 50	Below 0.1

115 2

IDLE SPEED AND MIXTURE SETTING PROCEDURE (CHECK EMISSION LABEL IN ENGINE COMPARTMENT)

- 1 TRANSMISSION IN NEUTRAL. PARKING BRAKE ON, A/C, LIGHTS, ALL ACCESSORIES OFF
- 2 RUN ENGINE TO OPERATING TEMPERATURE 80 TO 90°C (170° TO 190°F)
- 3 AIR HOSE RUNNING BETWEEN THE REED VALVE AND AIR CLEANER, REMOVE FROM REED VALVE AND PLUG THE AIR INLET OF THE REED VALVE (THIS STEP NOT FOR CANADA.)
- 4 SET THE ENGINE SPEED AND THE IDLE CO TO THE RESPECTIVE VALUES SPECIFIED BY ADJUSTING THE SPEED ADJUSTING SCREW AND THE MIXTURE ADJUSTING SCREW. (NOTE. DO NOT USE PROPANE.)
- 5 UNPLUG THE AIR INLET OF THE REED VALVE AND RECONNECT THE AIR HOSE TO THE REED VALVE
- 6 RECHECK ENGINE IDLE SPEED, ADJUST IF NOT IN SPECIFIED RANGE

ENGINE	TRANS.	LOCAL	CURB IDLE R.P.M.	CURB IDLE
f	ALL/T	505	750 • 50	10 - 0.5*
J	ALL/T	CAN.	850 • 50	1.0 • 2.5
K	M/T	505	650 • 50	1.0 + 0.5*
κ .	A/T	505	700 • 50	1.0 + 0.5*
K	ALL/T	CAN	850 + 50	0 5 TO 2.0
U	M/T	CALIF.	650 • 50	1.0 + 0.5*
U	A/T	CALIF	700 • 50	1.0 + 0.5*
w	ALL/T	495	750 • 50	1.0 + 0.5*
w	ALL/T	CALIF	750 • 50	1.0 + 0.5*

WITH AIR INJECTION SYSTEM DISCONNECTED.

FIG. 3

IDLE SPEED ADJUSTING SCREW

IDLE MIXTURE ADJUSTING SCREW

FAST IDLE ADJUSTING SCREW