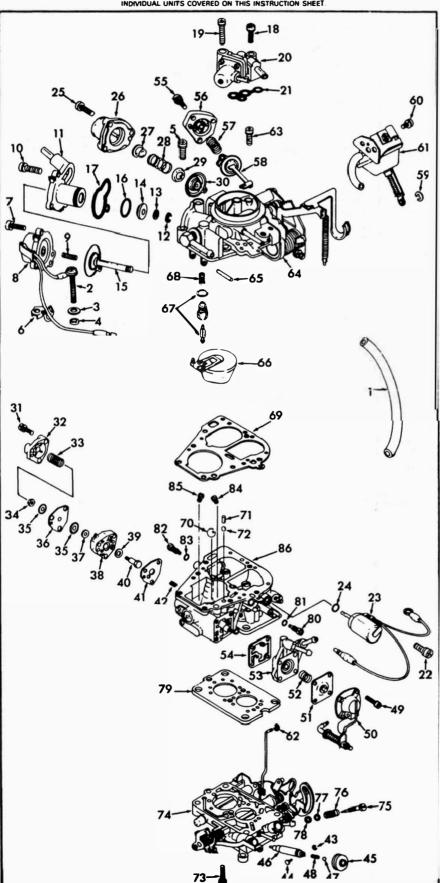
# INSTRUCTION SHEET OFF VEHICLE CARBURETOR SERVICE (MIKUNI) SOLEX-MODELS 28-32 DIDTA, 30-32DIDTA

REF.

#### 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 SNAP LINKS QUIT OF PLASTIC RETURNES UNHOOK THROTTLE RETURN SPRING AT LOWER END AND SECONDARY LEVER RETURN SPRING AT UPPER END WHEN REMOVING CHOKE PULL OFF DIAPHARGM AND DLAPHAGAM SHAFT WILL NOT CLEAR GUIDE PIN TAP PIN IN A LITTLE UNTX. 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 SEALED 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.

NO.	NO.
1 HOSE - WATER	43 E-CLIP - PIN
2. SCREW & LKWSHA 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
5 SCREW & LKWSHR - WIRE CLAMP	47 BALL - SUB EGR VALVE
6. CLAMP - WIRE	48 SPRING · BALL
7 SCREW & LKWSHR (3) - SOLENOID BOWL	49 SCREW & LKWSHR (4) - PUMP COVER
VENT	50 COVER & LINK ASSY - PUMP DIAPH
8. SOLENDID ASSY - BOWL VENT	51 DIAPHRAGM ASSY
9. SPRING · SOLEMOID 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 LINIT LINK
17 SEAL - VENT VALVE HSG	60 SCREW & LKWSHR (2) - SEC VAC UNI
18 SCREW & LKWSHR - GRD LEAD	61 SECONDARY VACUUM UNIT ASSY
19 SCREW & LKWSHR - AIR SWITCHING	62 E-CLIP - CHOKE ROD
VALVE	63 SCREW & LKWSHR 44) - 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. SOLENOID 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. GUIDE - MCV	BODY
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	BO 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
	86 BOWL ASSY - FLOAT
74. JET - EMMICHMENT	1 00 DUTTL A331 · PLUAT

# CLEANING

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 (84), FLOAT BOWL (89) 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), (46), (58), (61), (66) IN CLEANING SOLVENTS. THESE PARTS WILL BE USED OVER.

## REASS EMBLY

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 DPENING OF PLASTIC BUSHING SNAP INTO PLACE

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

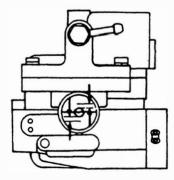


## SMALL SPRING GUIDE

ITEM NO 28 - 1/2" x 1 1/16" 33 - 5/16" x 11/16" 52 - 7/16" x 9/16" 57 - 5/16" x 3/4"

# **ADJUSTMENTS**

ENGINE AT NORMAL OPERATING TEMPERATURE OPERATING AT IDLE SPEED, IN NEUTRAL AND WITH ALL ACCESSORIES OFF NORMAL FUEL LEVEL IS WITHIN LEVEL MARK ON THE SIGHT GLASS FUEL LEVEL CAN BE 160" (4MM) 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
- 4 RESET THE ENGINE SPEED TO THE NOMINAL SPECIFICATIONS OF THE CURB IDLE SPEED AS SHOWN IN CHART BY ADJUSTING THE IDLE MIXTURE ADJUSTING SCREW
- 5 PROPERLY ADJUSTED WHEN CURB IDLE 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 R P M	CURB IDLE
U	M/T	495	730 • 10	10.01	650 - 50	Below O 1
U	A/T	495	780 + 10	10	700 + 50	Below 0 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 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 OD 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	50S	750 + 50	10+05*
J	ALL/T	CAN	850 + 50	10+25
K	M/T	50S	650 + 50	10+05*
K	A/T	50S	7 <b>00 • 5</b> 0	10+05*
K	ALL/T	CAN	850 + 50	05 TO 20
U	M/T	CALIF	650 + 50	10+05*
U	A/T	CALIF	700 + 50	10+05*
w	ALL/T	495	750 + 50	10+05
w	ALL/T	CALIF	750 + 50	10+05*

**\*WITH AIR INJECTION SYSTEM DISCONNECTED** 

FIG 3

