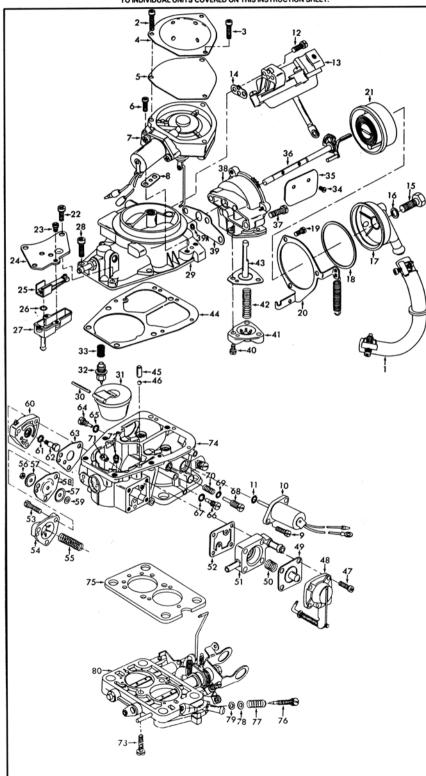
# INSTRUCTION SHEET (MIKUNI) SOLEX CARBURETOR - MODEL 28 - 32DID FARIY

### 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. NOTE: MOST LINK ENDS JUST SNAP IN OR OUT OF A PLASTIC TYPE BUSHING. BEFORE REMOVING CHOKE PLATE SCREWS (34) IT MAY BE NECESSARY TO FILE OFF PEENED END OF SCREWS WHICH WILL BE USED OVER. DISASSEMBLY OF VACUUM DIAPHRAGM UNITS (7)(13) IS NOT NECESSARY UNLESS DIAPHRAGMS ARE BEING REPLACED. RECORD SIZES OF JETS FOR PROPER REASSEMBLY. MARK DIAPHRAGM COVERS (41)(54) BEFORE REMOVING AND IDENTIFY SPRINGS (42)(55).

### NOMENCLATURE

I	REF NO.	•	REF.	•
ı	1.	HOSE & CLAMPS - WATER	39.	GASKET - CHOKE HOUSING
ı	2.	SCREW & LOCKWASHER (1) -	39A.	O-RING - CHOKE HOUSING
I		FILTER COVER & MOUNTING		(SOME MODELS)
ı	3.	SCREW & LOCKWASHER (2) -	40.	SCREW & LOCKWASHER (3)
ı		FILTER COVER		COVER VAC. BREAK
ı		COVER - FILTER		COVER - VACUUM BREAK DIA
ı		FILTER		SPRING - DIAPHRAGM RETUR
ı	6.	SCREW & LOCKWASHER -	43.	DIAPHRAGM ASSY VACUUM
ı	_	THROTTLE POSITIONER	l	BREAK
I		THROTTLE POSITIONER ASSY.		GASKET - BOWL COVER
ı		GASKET - THROTTLE POSITIONER		
I	9.	SCREW & LOCKWASHER (2) -		BALL - PUMP DISC. SCREW & LOCKWASHER (4)
ı		FUEL CUTOFF SOLENOID	47.	PUMP DIAPH. COVER
I	10.	SOLENOID ASSY FUEL CUTOFF	۱. ه	COVER & LINK ASSY PUM
I	11.	O-RING - SOLENOID ASSY.		DIAPHRAGM ASSY PUMP
I		MOUNTING		SPRING - DIAPH. RETURN
I	12	SCREW & LOCKWASHER (2) -		HOUSING - DIAPHRAGM
I	12.	SECONDARY VAC. UNIT		GASKET - DIAPHRAGM
I	13	SEC. VAC. UNIT ASSY.	١٠٠٠	HOUSING
ı	14.	GASKET - SEC. VAC. UNIT	53.	SCREW & LOCKWASHER (3)
I		BOLT - WATER CASE		VALVE COVER
I		GASKET - BOLT	54.	COVER - ENRICHMENT VALVE
I		CASE - WATER		SPRING - DIAPHRAGM RETUR
ı		GASKET - WATER CASE		NUT - VALVE STEM
J	19.	SCREW & LOCKWASHER (3) -	57.	CUP WASHER (2) - DIAPH.
1		CHOKE COVER RETAINER		DIAPH ENRICHMENT VALV
ı	20.	RETAINER & THROTTLE		WASHER - STEM
I		RETURN SPRING	60.	HOUSING - ENRICHMENT
I		CHOKE COVER ASSY.		VALVE
ı	22.			VALVE (RUBBER) - STEM
ı		IDLE COMPENSATOR		STEM - ENRICHMENT VALVE
ı	23.	SCREW & LOCKWASHER (3) -		GASKET - VALVE MOUNTING
I		VALVE COVER BRACKET		JET - SECONDARY PILOT
l	24.	COVER BRACKET - IDLE COMPENSATOR VALVE		O-RING - SEC. PILOT JET JET - PRIMARY PILOT
I	25	VALVE - IDLE COMPENSATOR		O-RING - PRI. PILOT JET
ı		O-RING - VALVE SEAT		SCREW - BY PASS
ı		HOUSING - VALVE		O-RING - BY PASS SCREW
ı		SCREW & LOCKWASHER (3) -		SPRING - BY PASS SCREW
ı	20.	BOWL COVER		JET - SEC. MAIN
ı	29.	BOWL COVER ASSY.		JET - PRIMARY MAIN
l		PIN - FLOAT LEVER		SCREW & LOCKWASHER (2)
ı		FLOAT & LEVER ASSY.		THROTTLE BODY
ı	32.	NEEDLE, SEAT & GASKET	74.	BOWL ASSY FLOAT
ı		ASSY.		INSULATOR-THROTTLE BODY
ı	33.	SCREEN - FUEL INLET	76.	NEEDLE-IDLE ADJ. (PILOT
ı		SCREW (2) - CHOKE VALVE		SCREW)
۱		VALVE - CHOKE		SPRING-IDLE NEEDLE
ı		SHAFT ASSY CHOKE		WASHER-SEAL
ı	37.	SCREW & LOCKWASHER (2) -		SEAL-IDLE NEEDLE
ı		CHOKE HOUSING	80.	THROTTLE BODY ASSY.
۱	38.	HOUSING ASSY CHOKE	l	
ı		01.54		

### 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 (74) OR THROTTLE BODY (80) FOR A PROLONG PERIOD OF TIME BECAUSE OF PLASTIC & RUBBER COMPONENTS. DO NOT SOAK OR WASH UNITS SUCH AS 1,7,10,13,25,31, IN CLEANING SOLVENTS.

### REASSEMBLY

REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENTS.

### SPECIAL INSTRUCTIONS

IDLE MIXTURE NEEDLE (76) - TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT 1 1/4 - 2 TURNS.

BY PASS SCREW (68) - TURN IN UNTIL LIGHTLY SEATED THEN BACK OUT 1 - 1 1/2 TURNS.

CHOKE SHAFT (36) - WHEN INSTALLING BE SURE TO HOOK SPRING TO FAST IDLE CAM.

CHOKE PLATE (35) - BEFORE TIGHTING SCREWS, CLOSE VALVE AND TAP TO CENTER VALVE.

CHOKE COVER (21) - MAKE SURE HOOK ON STAT SPRING CONTACTS LEVER ON CHOKE SHAFT. THEN TURN TO ALIGN MARK ON COVER TO INDEX MARK ON HOUSING.

## (MIKUNI) SOLEX CARBURETOR — MODEL 28-32 DIDTA + 30-32 DIDTA LATE

REF.

### GENERAL EXPLODED VIEW

THE GENERAL DESIGN AND PARTS SHOWN WILL VARY TO INDIVIDUAL UNITS COVERED ON THIS INSTRUCTION SHEET.

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### 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. DISASSEMBLY OF VACUUM DIAPHRAGM UNITS (3) (7) (13) IS NOT NECESSARY UNLESS THEY NEED SERVICE. O-RING (35) IN CHOKE VACUUM PASSAGE CAN EASILY BE REMOVED AFTER CHOKE HOUSING SCREWS (34) ARE REMOVED. BEFORE REMOVING ADJUSTING SCREWS (67) (71) OR (74), TURN IN COUNTING THE NUMBER OF TURNS IT TAKES TO SEAT EACH SCREW AND RECORD FOR REASSEMBLY.

### NOMENCLATURE

REF.

NO.	NO.
1. HOSE & CLAMPS- WATER	36. GASKET- BOWL COVER
<ol><li>SCREW &amp; LKWSHR DASHPOT</li></ol>	37. WEIGHT- PUMP DISC BALL
ASSY.	38. BALL- PUMP DISCHARGE
<ol><li>DASHPOT &amp; LINK ASSY.</li></ol>	39. BALL- ROLL OVER
4. GASKET- DASHPOT ASSY.	40. SCREW & LKWSHR. (4)- PUMP
5. SCREW & LKWSHR. (2)-	DIAPHRAGM COVER
COVER AND FILTER- DASHPOT	41. COVER & LINK ASSY PUMP
6. SCREW & LKWSHR. (2)-	DIAPHRAGM
ALTITUDE VALVE	42. DIAPHRAGM ASSY PUMP
7. ALTITUDE COMPENSATOR VALVE	43. SPRING- PUMP DIAPHRAGM
(HIGH ALTITUDE CARS ONLY)	44. HOUSING- DIAPHRAGM
8. GASKET- ALT. VALVE NOUNTING	
(O-RING TYPE)	46. SCREW & LKWSHR. (3)-VALVE
9. SCREW & LKWSHR FUEL CUT	COVER
OFF SOLENOID	47. COVER- ENRICHMENT VALVE
10. SOLENOID ASSY FUEL CUT	48. SPRING- DIAPHRAGM RETURN
OFF	49. NUT- VALVE STEM
11. O-RING- SOLENOID ASSY.	50. CUP WASHER (2)- DIAPHRAGM
12. SCREW & LKWSHR. (2). SEC.	51. DIAPHRAGM- ENRICHMENT
VAC. UNIT	VALVE
13. SECONDARY VACUUM & HOSE	52. WASHER- STEM
ASSY.	53. HOUSING- ENRICHMENT VALVE
14. BOLT- WATER CASE	54. VALVE (RUBBER)- STEM
15. GASKET- BOLT	55. STEM- ENRICHMENT VALVE
16. CASE- WATER	56. GASKET- VALVE MOUNTING
17. GASKET- WATER CASE	57. PLUG- ENRICHMENT JET
18. SCREW & LKWSHR. (3)-	58. GASKET- PLUG
CHOKE COVER RETAINER	59. JET- ENRICHMENT
19. RETAINER & THROTTLE RETURN	60. JET- ENRICHMENT
SPRING ASSY.	61. JET- SECONDARY PILOT
20. CHOKE COVER ASSY.	62. O-RING- SECONDARY PILOT
21. INSULATOR SPACER- CHOKE	JET
COVER	63. JET- PRIMARY PILOT
22. SCREW & LKWSHR- BRACKET	64. O-RING- PRIMARY PILOT JET
23. BRACKET- CLAMP	65. JET- PRIMARY MAIN
24. SCREW & LKWSHR. (4)- BOWL	66. JET- PRIMARY MAIN
COVER	67. NEEDLE- IDLE ADJUSTING
25. BOWL COVER ASSY.	
26. PIN- FLOAT	68. SPRING- IDLE ADJUSTING
27. FLOAT & LEVER ASSY.	NEEDLE
28. NEEDLE, SEAT & GASKET	69. WASHER- NEEDLE SEAL
ASSY.	70. SEAL- IDLE NEEDLE
29. SCREEN- FUEL INLET	71. BYPASS SCREW- IDLE CIRCUIT
30. SCREW & LKWSHR. (3)-COVER	
VACUUM BREAK	72. O-RING- BYPASS SCREW
31. COVER ASSY VAC. BREAK	73. SPRING- BYPASS SCREW
DIAPHRAGM	74. NEEDLE- ADJ.
32. SPRING- DIAPHRAGM	75. O-RING- ADJ. NEEDLE
33. DIAPHRAGM ASSY VACUUM	76. SCREW & LKWSHR. (2)-
BREAK	THROTTLE BODY ASSY.
34. SCREW & LKWSHR. (2)- CHOKE	77. THROTTLE BODY ASSY.
HOUSING	78. GASKET- THROTTLE BODY
35. O-RING- VAC. PASSAGE CHOKE	79. BOWL ASSY FLOAT
HOUSING	1

### 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 (79) OR THROTTLE BODY (77) FOR A PROLONG PERIOD OF TIME BECAUSE OF PLASTIC AND RUBBER COMPONENTS. DO NOT SOAK OR WASH UNITS SUCH AS (1), (3), (10), (13), (20), (27), (33), (42) IN CLEANING SOLVENTS.

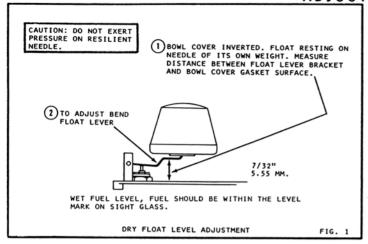
### REASSEMBLY

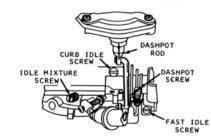
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENT.

### SPECIAL INSTRUCTIONS

ADJUSTING SCREWS (74) (71) (67)- 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.





SLOW (CURB) IDLE ADJUSTMENT

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

  2. REMOVE AIR HOSE, BETWEEN REED VALVE AND AIR CLEANER AT THE REED VALVE SIDE, THEN PLUG THE AIR INLET OF THE REED VALVE.
- 3. SET THE ENGINE SPEED TO THE SPECIFIED SETTING BY ADJUSTING THE CURB IDLE ADJUSTING SCREW AND THE IDLE MIXTURE ADJUSTING SCREW. (SET THE IDLE CARBON MONOXIDE CONCENTRATION TO THE LEANEST POSSIBLE, WITHOUT ANY MISFIRING, WITHIN THE RANGE OF .5 TO 2.0%).
- 4. INSTALL AIR HOSE BACK ON REED VALVE. READJUST IDLE SPEED IF
- RUN ENGINE UP TO 2500 R.P.M. 2 OR 3 TIMES AND MAKE SURE THE ADJUSTMENTS HAVE BEEN PROPERLY DONE. (INSTALL IDLE LIMITER CAP).

M/T 950± 50 R.P.M. A/T 850± 50 R.P.M.

DASHPOT ADJUSTMENT

- 1. CURB IDLE ADJUSTMENT COMPLETED. (ENGINE RUNNING).
- 2. PUSH UP ON DASHPOT ROD UNTIL IT STOPS.
- CHECK ENGINE R.P.M. ADJUST TO SPECIFICATIONS USING DASHPOT ADJUSTING SCREW.

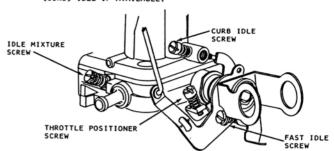
1600/C ENG. CALIF. & HIGH ALTITUDE 1900± 100 R.P.M. 2000CC ENG. CALIF. 1500± 100 R.P.M. 1500± 100 R.P.M. 2000± 100 R.P.M. 2000± 100 R.P.M.

### FAST IDLE ADJUSTMENT

- ENGINE OFF. OPEN THROTTLE VALVE, CLOSE CHOKE VALVE BY HAND THEN RELEASE THROTTLE VALVE TO SET FAST IDLE ON HIGH STEP OF CAM.
- START ENGINE DO NOT TOUCH THROTTLE. SET TO SPECIFIED R.P.M. USING THE FAST IDLE SCREW. 1976-77 2000 R.P.M.

LATE MODEL IDLE ADJUSTMENTS

USE FACTORY CAR MANUAL PROCEDURE FOR SETTING SLOW (CURB) IDLE IF AVAILABLE.



SLOW (CURB) IDLE ADJUSTMENT

WITH ENGINE AT NORMAL OPERATING TEMPERATURE, AIR CLEANER IN PLACE. RUN THE ENGINE UP TO 2500 R.P.M. 2 OR 3 TIMES. ADJUST CURB IDLE SCREW TO PROPER R.P.M. THEN ADJUST IDLE MIXTURE SCREW TO OBTAIN THE LEANEST BEST IDLE SETTING. RESET CURB IDLE IF NECESSARY.

THROTTLE POSITIONER ADJUSTMENT

- REMOVE VACUUM PIPE BETWEEN AIR CLEANER AND INTAKE MANIFOLD AT THE INTAKE MANIFOLD AND PLUG HOLE.
- 2. DISCONNECT NEGATIVE (GREEN) WIRE FROM TERMINAL OF SOLENOID.
- 3. RAISE ENGINE SPEED TO 2500 R.P.M.
- GROUND NEGATIVE WIRE TO CARBURETOR TO SET SOLENOID ON. ACTIVATING THROTTLE POSITIONER DIAPHRAGM.
- RELEASE THROTTLE LEVER. MAKE SURE THROTTLE POSITIONER IS SET TO PROPER R.P.M.
- TO ADJUST TURN ADJUSTING SCREW. (SOME MODELS USE ADJUSTING NUT ON THROTTLE POSITIONER.)

FAST IDLE ADJUSTMENT

ENGAGE FAST IDLE CAM IN THIRD STAGE & SET TO PROPER R.P.M.

CURB IDLE

1971 700-750 R.P.M. 1972-74 800-850 R.P.M. 1975 800-900 R.P.M.

THROTTLE POSITIONER

1350-1450 R.P.M.

FAST IDLE

71-74 1700-1750 R.P.M. 1975 2000 R.P.M.

EARLY MODEL IDLE ADJUSTMENTS

FIG. 2

HIGH ALT. POSITION

LOW ALT. POSITION





ABOVE 4000 FT.

BELOW 4000 FT.

CHECK CAR SERVICE MANUAL FOR PROPER HIGH ALTITUDE TIMING. ADJUST CURB IDLE. (NOTE ADJUSTMENTS MUST BE DONE AT A HIGH ALTITUDE LOCATION.)