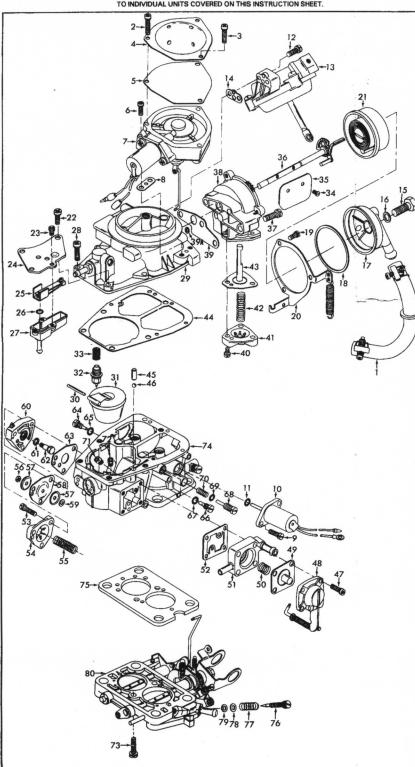
INSTRUCTION SHEET (MIKUNI) SOLEX CARBURETOR - MODEL 28 - 32DID EARLY

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		REF.	•
ı	NO.		NC.	
ı	1.	HOSE & CLAMPS - WATER	39.	GASKET - CHOKE HOUSING
1		SCREW & LOCKWASHER (1) -		O-RING - CHOKE HOUSING
I		FILTER COVER & MOUNTING		(SOME MODELS)
١	3.	SCREW & LOCKWASHER (2) -	40.	SCREW & LOCKWASHER (3) -
١		FILTER COVER		COVER VAC. BREAK
Į	4.	COVER - FILTER	41.	COVER - VACUUM BREAK DIAPH.
ı		FILTER		SPRING - DIAPHRAGM RETURN
1	6.	SCREW & LOCKWASHER -	43.	DIAPHRAGM ASSY VACUUM
١		THROTTLE POSITIONER		BREAK
I		THROTTLE POSITIONER ASSY.	44.	GASKET BOWL COVER
l		GASKET - THROTTLE POSITIONER		
۱	9.	SCREW & LOCKWASHER (2) -		BALL - PUMP DISC.
١	10	FUEL CUTOFF SOLENOID	47.	
ı	10.	SOLENOID ASSY, - FUEL CUTOFF	40	PUMP DIAPH. COVER COVER & LINK ASSY PUMP
۱	11	O-RING - SOLENOID ASSY.		DIAPHRAGM ASSY PUMP
I		MOUNTING		SPRING - DIAPH, RETURN
۱	12	SCREW & LOCKWASHER (2) -		HOUSING - DIAPHRAGM
ı		SECONDARY VAC. UNIT		GASKET - DIAPHRAGM
l	13.	SEC. VAC. UNIT ASSY.		HOUSING
١		GASKET - SEC. VAC. UNIT		SCREW & LOCKWASHER (3) -
ı		BOLT - WATER CASE		VALVE COVER
ı	16.	GASKET - BOLT	54.	COVER - ENRICHMENT VALVE
l	17.	CASE - WATER	55.	SPRING - DIAPHRAGM RETURN
I		GASKET - WATER CASE	56.	NUT - VALVE STEM
l	19.	SCREW & LOCKWASHER (3) -		CUP WASHER (2) - DIAPH.
۱	_	CHOKE COVER RETAINER		DIAPH ENRICHMENT VALVE
ł	20.	RETAINER & THROTTLE		WASHER - STEM
l		RETURN SPRING	60.	HOUSING - ENRICHMENT
L		CHOKE COVER ASSY. SCREW & LOCKWASHER (2) -		VALVE
I	22.	IDLE COMPENSATOR		VALVE (RUBBER) - STEM STEM - ENRICHMENT VALVE
ı	22	SCREW & LOCKWASHER (3) -		GASKET - VALVE MOUNTING
I	25.	VALVE COVER BRACKET		JET - SECONDARY PILOT
ı	24.	COVER BRACKET - IDLE		O-RING - SEC. PILOT JET
ı		COMPENSATOR VALVE		JET - PRIMARY PILOT
ı	25.	VALVE - IDLE COMPENSATOR		O-RING - PRI. PILOT JET
ľ		O-RING - VALVE SEAT		SCREW - BY PASS
ı	27.	HOUSING - VALVE	69.	O-RING - BY PASS SCREW
ı	28.	SCREW & LOCKWASHER (3) -		SPRING - BY PASS SCREW
l		BOWL COVER	71.	JET - SEC. MAIN
ŀ		BOWL COVER ASSY.	72.	JET - PRIMARY MAIN
ı		PIN - FLOAT LEVER	73.	SCREW & LOCKWASHER (2) -
ı		FLOAT & LEVER ASSY.		THROTTLE BODY
Į	32.	NEEDLE, SEAT & GASKET		BOWL ASSY FLOAT
ı		ASSY.		INSULATOR-THROTTLE BODY
1		SCREEN - FUEL INLET	76.	
		SCREW (2) - CHOKE VALVE		SCREW)
l		VALVE - CHOKE		SPRING-IDLE NEEDLE
	77	SHAFT ASSY CHOKE SCREW & LOCKWASHER (2) -		WASHER-SEAL
ŀ	5/.	CHOKE HOUSING		SEAL-IDLE NEEDLE THROTTLE BODY ASSY.
1	38	HOUSING ASSY CHOKE	80.	THRUTTLE BUDT ASST.
1	,			

CLEANING

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

NO.

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 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

NO.		NO.	
1.	HOSE & CLAMPS- WATER	36.	GASKET- BOWL COVER
2.	SCREW & LKWSHR DASHPOT	37.	WEIGHT- PUMP DISC BALL
	ASSY.	38.	BALL- PUMP DISCHARGE
3.	DASHPOT & LINK ASSY.	39.	BALL- ROLL OVER
4.	GASKET- DASHPOT ASSY.	40.	SCREW & LKWSHR. (4)- PUMI
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		SPRING- PUMP DIAPHRAGM
	(HIGH ALTITUDE CARS ONLY)		HOUSING- DIAPHRAGM
8.	GASKET- ALT. VALVE NOUNTING		
]	(O-RING TYPE)	46.	SCREW & LKWSHR. (3)-VALVI
9.	SCREW & LKWSHR FUEL CUT		COVER
	OFF SOLENOID		COVER- ENRICHMENT VALVE
10.	SOLENOID ASSY FUEL CUT		SPRING- DIAPHRAGM RETURN
	OFF		NUT- VALVE STEM
	O-RING- SOLENOID ASSY.		CUP WASHER (2)- DIAPHRAGE
12.	SCREW & LKWSHR. (2). SEC.	51.	DIAPHRAGM- ENRICHMENT
	VAC. UNIT		VALVE
15.	SECONDARY VACUUM & HOSE		WASHER- STEM
	ASSY.		HOUSING- ENRICHMENT VALVE
	BOLT- WATER CASE		VALVE (RUBBER)- STEM
	GASKET- BOLT CASE- WATER		STEM- ENRICHMENT VALVE
	GASKET- WATER CASE		GASKET- VALVE MOUNTING
	SCREW & LKWSHR. (3)-		PLUG- ENRICHMENT JET GASKET- PLUG
10.	CHOKE COVER RETAINER		JET- ENRICHMENT
10	RETAINER & THROTTLE RETURN		JET- ENRICHMENT
13.	SPRING ASSY.		JET- SECONDARY PILOT
20.	CHOKE COVER ASSY.		O-RING- SECONDARY PILOT
	INSULATOR SPACER- CHOKE	02.	JET
200	COVER	63.	JET- PRIMARY PILOT
22.	SCREW & LKWSHR- BRACKET		O-RING- PRIMARY PILOT JET
	BRACKET- CLAMP		JET- PRIMARY MAIN
24.	SCREW & LKWSHR. (4)- BOWL		JET- PRIMARY MAIN
	COVER	67.	NEEDLE- IDLE ADJUSTING
	BOWL COVER ASSY.		
	PIN- FLOAT	68.	SPRING- IDLE ADJUSTING
	FLOAT & LEVER ASSY.		NEEDLE
28.	NEEDLE, SEAT & GASKET		WASHER- NEEDLE SEAL
	ASSY.		SEAL- IDLE NEEDLE
	SCREEN- FUEL INLET	71.	BYPASS SCREW- IDLE CIRCU
30.	SCREW & LKWSHR. (3)-COVER		
	VACUUM BREAK		O-RING- BYPASS SCREW
31.	COVER ASSY VAC. BREAK	13.	SPRING- BYPASS SCREW
7.0	DIAPHRAGM		NEEDLE- ADJ.
	SPRING- DIAPHRAGM DIAPHRAGM ASSY VACUUM		O-RING- ADJ. NEEDLE
33.	BREAK	16.	SCREW & LKWSHR. (2)-
71.			THROTTLE BODY ASSY.
54.	SCREW & LKWSHR. (2)- CHOKE		THROTTLE BODY ASSY.
7.5	HOUSING O-RING- VAC. PASSAGE CHOKE		GASKET- THROTTLE BODY
25.	O-RING- VAC. PASSAGE CHOKE	/9.	BOWL ASSY FLOAT

CLEANING

HOUS ING

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.

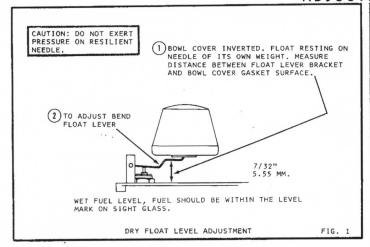
REASSEMBLY

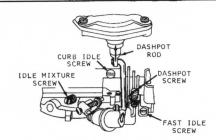
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL INSTRUCTIONS AND ADJUSTMENT.

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 VAVLE 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 NECESSARY.

 5. RUN ENGINE UP TO 2500 R.P.M. 2 OR 7. THESE AND THE CONTROL OF THE PROPERTY OF THE PROPERTY
- MELESSARY.

 5. 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

- DASHPOT ADJUSTMENT

 1. CURB IDLE ADJUSTMENT COMPLETED. (ENGINE RUNNING).

 2. PUSH UP ON DASHPOT ROD UNTIL IT STOPS.

 3. CHECK ENGINE R.P.M. ADJUST TO SPECIFICATIONS USING DASHPOT ADJUSTING SCREW.

 16000CC ENG. CALIF. & HIGH ALTITUDE 1900± 100 R.P.M.

 2000CC ENG. CALIF. 1500± 100 R.P.M.

 1600/2000CC ENG. FED. & CAN. CARS 2000± 100 R.P.M.

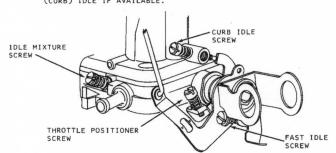
FAST IDLE ADJUSTMENT

- 1. ENGINE OFF. OPEN THROTTLE VALVE, CLOSE CHOKE VALVE BY HAND THEN RELEASE THROTTLE VALVE TO SET FAST IDLE ON HIGH STEP
- 2. 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

FIG. 3

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

1. 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.

4. GROUND NEGATIVE WIRE TO CARBURETOR TO SET SOLENOID ON. ACTIVATING

- THROTTLE POSITIONER DIAPPHRAGM.

 5. RELEASE THROTTLE LEVER. MAKE SURE THROTTLE POSITIONER IS SET TO PROPER R.P.M.

 6. 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

F1G. 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.)

MANUAL ALTITUDE COMPENSATOR KNOB SETTING

FIG. 4