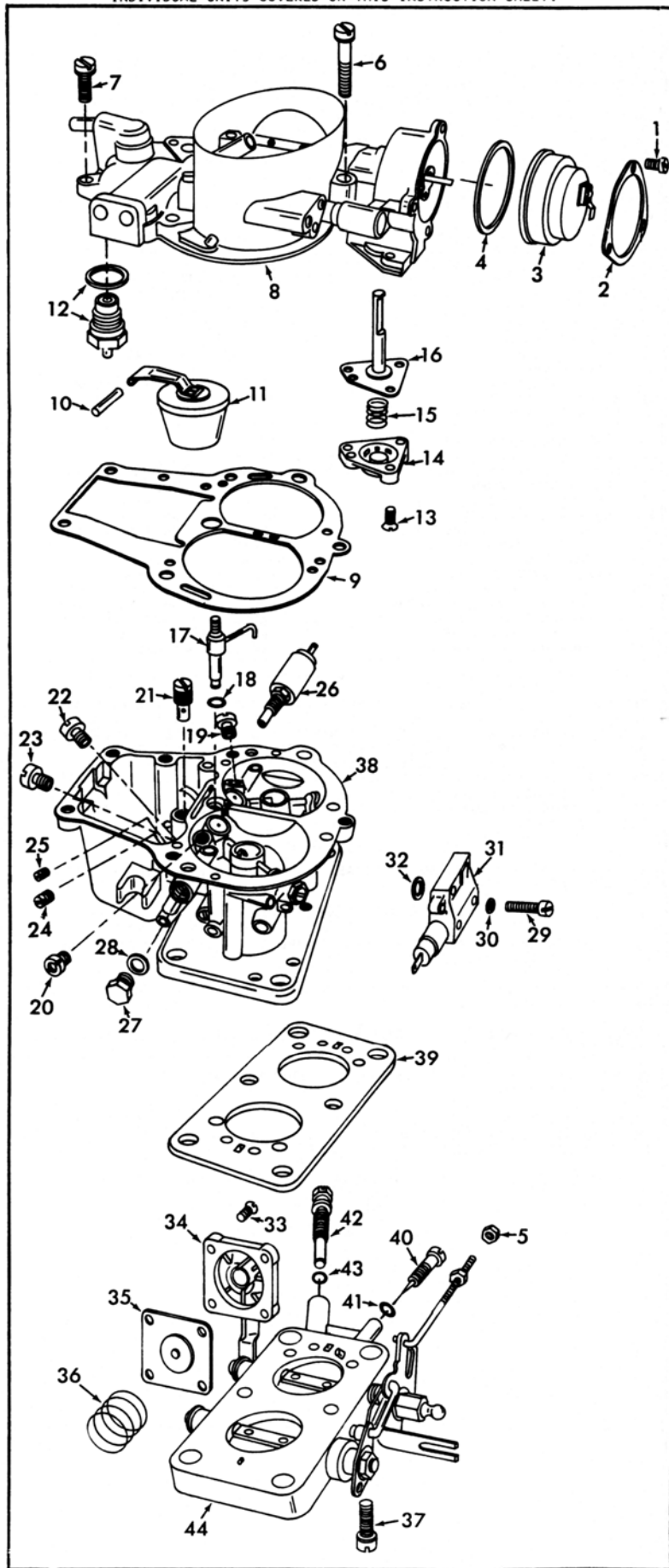


# INSTRUCTION SHEET

## SOLEX CARBURETOR — MODEL TDID

### 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: TO REMOVE PUMP INJECTOR TUBE ASSY. (17) CAREFULLY PRY UP WITH SCREWDRIVER. REMOVE PUMP DIAPHRAGM COVER SCREWS (33) ONLY, NOT NECESSARY TO DISCONNECT LINKAGE, NOTE SIZES OF JETS AND THEIR LOCATION FOR PROPER ASSEMBLY. (RECORD SIZES BELOW.)

### NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW (3)- RETAINER RING	23. JET SEC.- MAIN _____
2. RING- RETAINING	24. JET SEC.- AIR JET _____
3. CHOKE COVER ASSY. ELECTRIC TYPE	25. JET SEC.- IDLE _____
4. GASKET- CHOKE COVER	26. VALVE ASSY.- IDLE CUT OFF
5. NUT- CHOKE LINK ADJ.	27. PLUG - SEC. IDLE PASSAGE
6. SCREW & LOCKWASHER (1)- BOWL COVER LONG	28. GASKET- PLUG
7. SCREW & LOCKWASHER (4)- BOWL COVER SHORT	29. SCREW & LOCKWASHER (2)- THERMAL VALVE
8. BOWL COVER ASSY.	30. WASHER- VALVE SCREW
9. GASKET- BOWL COVER	31. THERMAL STARTING VALVE
10. PIN- FLOAT HINGE	32. GASKET- THERMAL-VALVE
11. FLOAT & LEVER ASSY.	33. SCREW (4)- PUMP COVER
12. NEEDLE, SEAT & GASKET ASSY.	34. COVER- PUMP DIAPHRAGM
13. SCREW (3)- DIAPHRAGM COVER	35. DIAPHRAGM ASSY.- PUMP
14. COVER- DIAPHRAGM	36. SPRING- DIAPHRAGM RETURN
15. SPRING- DIAPHRAGM RETURN	37. SCREW & LOCKWASHER (2)- THROTTLE BODY
16. DIAPHRAGM ASSY.- CHOKE VACUUM	38. BOWL ASSY.
17. TUBE ASSY.- PUMP INJECTION	39. GASKET- THROTTLE BODY
18. O-RING- TUBE ASSY.	40. NEEDLE- IDLE MIXTURE
19. JET PRI.- AIR CORRECTION _____	41. O-RING- IDLE NEEDLE
20. JET SEC.- AIR CORRECTION _____	42. SCREW- IDLE SPEED ADJUSTING
21. CHECK VALVE- PUMP INLET	43. O-RING- IDLE SPEED ADJ. SCREW
22. JET PRI.- MAIN _____	44. THROTTLE BODY ASSY.

### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. DO NOT PROLONG SOAKING OF PARTS WITH PLASTIC COMPONENTS. 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 (11) SOLENOID (26) THERMAL VALVE (31) OR PARTS MADE OF RUBBER MATERIAL IN CLEANING SOLVENTS.

### REASSEMBLY

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

### SPECIAL INSTRUCTIONS

IDLE SPEED ADJUSTING SCREW (42) - TURN IN UNTIL LIGHTLY BOTTOMED THEN BACK OUT 5/8 TURN (ROUND END TYPE.) 2 1/2 TURNS ON (SQUARE END TYPE.)

IDLE MIXTURE NEEDLE (40) - TURN IN UNTIL LIGHTLY BOTTOMED THEN BACK OUT 2 1/2 TURNS.

PUMP INJECTION TUBE (17) - INSTALL WITH TUBE POINTING INTO PRIMARY VENTURI.

NEEDLE & SEAT INSTALLATION (12) - SELECT PROPER GASKET THICKNESS REFER TO OLD GASKET.

CHOKE COVER ASSY. (3) - INSTALL CHOKE COVER SO THAT LOOP ON CHOKE SPRING SLIDES OVER THE AUTOMATIC CHOKE OPERATING LEVER. ALIGN THE MARK ON CHOKE COVER WITH CENTER TOOTH ON CHOKE HOUSING. (INDEX SETTING.)

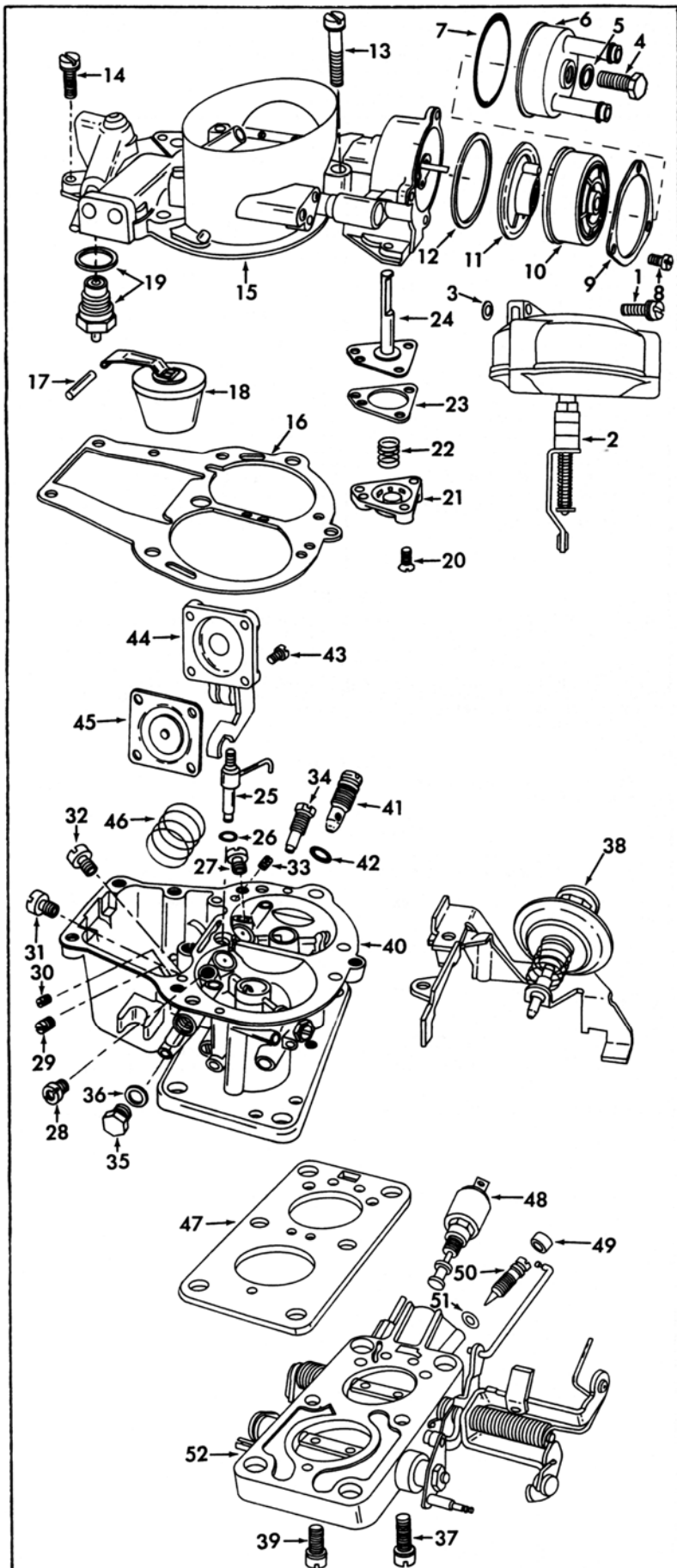
CARBURETOR MOUNTING BOLTS - TIGHTEN TO 7 FT. LBS. DO NOT OVERTIGHTEN.

# INSTRUCTION SHEET

## SOLEX CARBURETOR — MODEL DIDTA

### 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: TO REMOVE PUMP INJECTOR TUBE ASSY. (25) CAREFULLY PRY UP WITH SCREWDRIVER. NOTE SIZES OF JETS AND THEIR LOCATION FOR PROPER ASSEMBLY. (RECORD SIZES BELOW.)

### NOMENCLATURE

REF. NO.	REF. NO.
1. SCREW(2)-VACUUM DIAPHRAGM ASSY.	27. JET PRI.-AIR CORRECTION
2. SECONDARY VACUUM DIAPHRAGM ASSY.	28. JET SEC.-AIR CORRECTION
3. GASKET-SEC. VAC. DIAPH. HOUSING	29. JET-IDLE AIR
4. SCREW-WATER CONNECTOR	30. JET-IDLE FUEL
5. GASKET-SCREW	31. JET-SEC.-MAIN
6. COVER-WATER HOUSING	32. JET-PRI.-MAIN
7. O-RING-COVER	33. JET-AUXILIARY AIR
8. SCREW(3)-RETAINER RING	34. JET-IDLE
9. RING-RETAINING	35. PLUG-SEC. IDLE PASSAGE
10. COVER-CHOKE COIL	36. GASKET-PLUG
11. SPRING ASSY.-CHOKE	37. SCREW & LOCKWASHER-DASHPOT ASSY.
12. GASKET-CHOKE COVER	38. DASHPOT & BRACKET ASSY.
13. SCREW & LOCKWASHER(1)-BOWL COVER	39. SCREW & LOCKWASHER-THROTTLE BODY
14. SCREW & LOCKWASHER(4)-BOWL COVER	40. BOWL ASSY.
15. BOWL COVER ASSY.	41. SCREW-IDLE SPEED ADJUSTING
16. GASKET-BOWL COVER	42. O-RING-IDLE SPEED SCREW
17. PIN-FLOAT HINGE	43. SCREW & LOCKWASHER(4)-PUMP DIAPHRAGM COVER
18. FLOAT & LEVER ASSY.	44. COVER ASSY.-PUMP DIAPHRAGM
19. NEEDLE, SEAT & GASKET ASSY.	45. DIAPHRAGM ASSY.-PUMP
20. SCREW & LOCKWASHER(3)-DIAPHRAGM COVER	46. SPRING-DIAPHRAGM
21. COVER-DIAPHRAGM	47. GASKET-THROTTLE BODY
22. SPRING-DIAPHRAGM RETURN	48. VALVE ASSY.-BYPASS CUTOFF
23. GASKET-CHOKE VACUUM DIAPHRAGM	49. PLUG-IDLE ADJUSTING NEEDLE
24. DIAPHRAGM ASSY.-CHOKE VACUUM	50. NEEDLE-IDLE ADJUSTING
25. TUBE ASSY.-PUMP INJECTOR	51. O-RING-IDLE ADJ. NEEDLE
26. O-RING-INJECTOR TUBE	52. THROTTLE BODY ASSY.

### CLEANING

CLEANING MUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK PARTS LONG ENOUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL. DO NOT PROLONG SOAKING OF PARTS WITH PLASTIC COMPONENTS. 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 (18) SOLENOID (48) SECONDARY VACUUM UNIT (2) OR PARTS MADE OF RUBBER MATERIAL IN CLEANING SOLVENTS.

### REASSEMBLY

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

### SPECIAL INSTRUCTIONS

IDLE SPEED ADJUSTING SCREW (41)-TURN IN UNTIL LIGHTLY BOTTOMED, THEN BACK OUT 5/8 TURN (ROUND END TYPE).

IDLE MIXTURE NEEDLE (50)-TURN IN UNTIL LIGHTLY BOTTOMED, THEN BACK OUT 2 1/2 TURNS.

PUMP INJECTION TUBE (25)-INSTALL WITH TUBE POINTING INTO PRIMARY VENTURI.

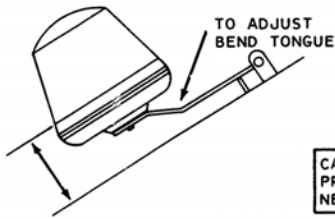
NEEDLE & SEAT INSTALLATION (19)-SELECT PROPER GASKET THICKNESS REFER TO OLD GASKET.

CHOKE SPRING ASSY. (11)-INSTALL SO THAT LOOP ON SPRING SLIDES OVER THE AUTOMATIC CHOKE OPERATING LEVER. ALIGN MARK ON CHOKE HOUSING AND INTERMEDIATE RING BETWEEN THE TWO MARKS ON CHOKE COVER (10).

CARBURETOR MOUNTING BOLTS-TIGHTEN TO 7 FT. LBS. DO NOT OVERTIGHTEN.

# ADJUSTMENTS

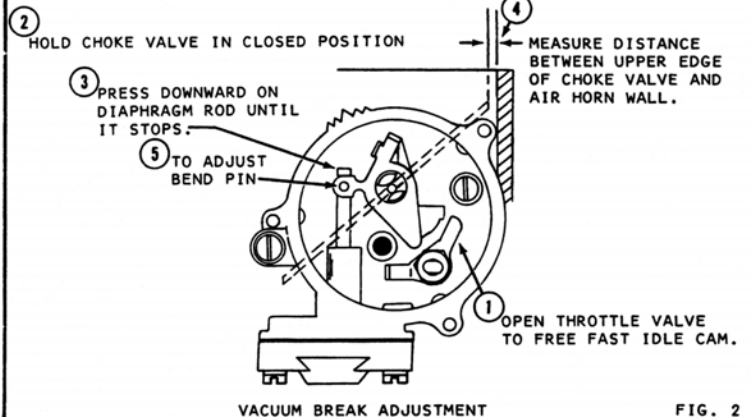
FLOAT BOWL HELD AT A 45° ANGLE. MEASURE DISTANCE FROM SURFACE OF BOWL COVER TO UPPER EDGE OF BEAD ON THE FLOAT. (DO NOT COMPRESS SPRING LOADED BALL.)



CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

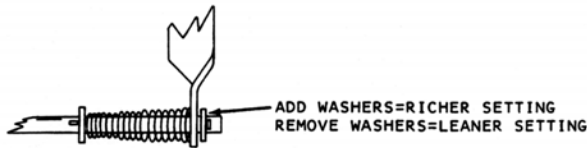
DRY FLOAT LEVEL ADJUSTMENT

FIG. 1



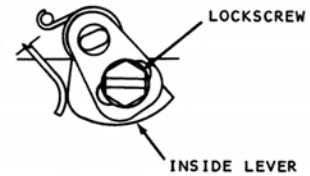
VACUUM BREAK ADJUSTMENT

FIG. 2



EARLY DESIGN PUMP STROKE SETTING

FIG. 3

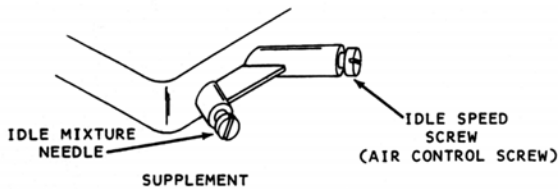


TO ADJUST PUMP STROKE LOOSEN LOCKSCREW, THEN MOVE INSIDE LEVER COUNTERCLOCKWISE TO RICHER OR CLOCKWISE TO A LEANER SETTING. (TIGHTEN LOCKSCREW.)

LATE DESIGN PUMP STROKE SETTING

FIG. 4

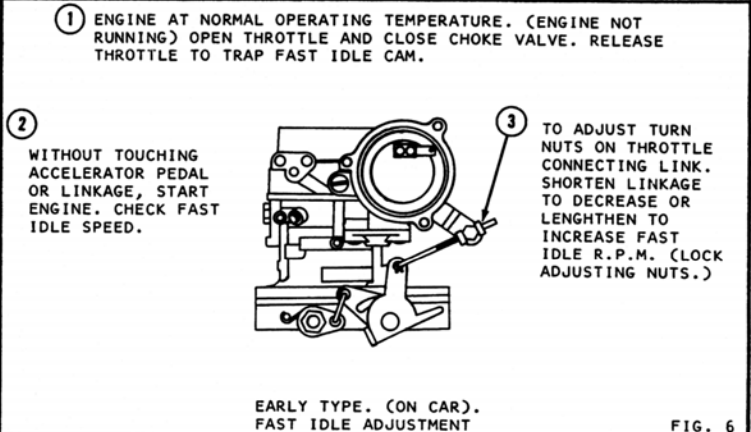
USE FACTORY CAR MANUAL PROCEDURE FOR SETTING SLOW IDLE IF AVAILABLE.



1. SET IGNITION TIMING PER CAR FACTORY SPECIFICATIONS AND PROCEDURE
2. ENGINE AT OPERATING TEMPERATURE, CHOKE FULLY OPEN. AIR CLEANER IN PLACE. LEAD TO IDLE CUTOFF VALVE CONNECTED.
3. ADJUST IDLE SPEED ADJUSTING SCREW UNTIL ENGINE RUNS AT APPROXIMATELY 950 ± 50 R.P.M. USE A TACHOMETER.
4. ADJUST IDLE MIXTURE NEEDLE TO OBTAIN THE HIGHEST R.P.M. AT THE LEANEST BEST IDLE SETTING. READJUST IDLE R.P.M. IF NECESSARY.

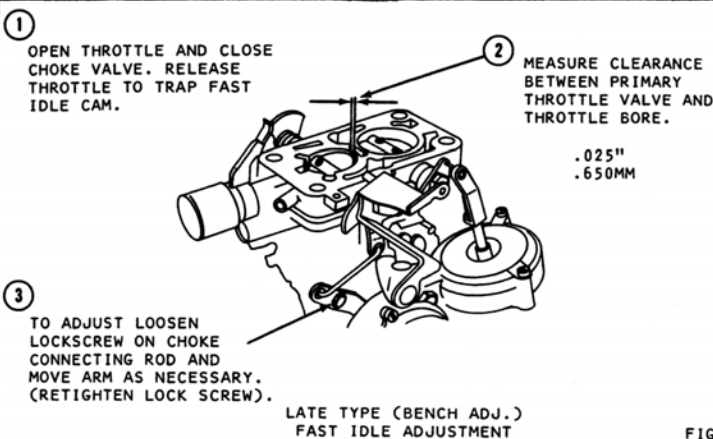
SLOW IDLE ADJUSTMENT

FIG. 5



EARLY TYPE. (ON CAR). FAST IDLE ADJUSTMENT

FIG. 6



LATE TYPE (BENCH ADJ.) FAST IDLE ADJUSTMENT

FIG. 7

ADJUSTMENT DATA

MAKE	FLOAT LEVEL		VACUUM BREAK	
AUDI				
1971	21/32"	16.5MM	.140"	3.50MM
1972	21/32"	16.5MM	.098"	2.50MM
1973				
100	21/32"	16.5MM	.137"	3.50MM
FOX	21/32"	16.5MM	.146"	3.70MM
1974	21/32"	16.5MM	.126"	3.20MM
DASHER				
1974	∞		.128"	3.27MM
BMW				
1974-76	23/32"	18MM	.259"	6.6MM

\* NOTE: DASHER USE 2.0MM GASKET ON NEEDLE SEAT.