

General Instructions

- Take lots of pictures as you take your carburetor apart. This will give you a reference of where things go.
- Using a cookie sheet with folded up sides will help keep parts from falling on the floor.
- We suggest not removing the throttle shaft, valves, or choke shaft unless they are corroded, or very dirty. These parts can be easily damaged and are difficult to re-assemble.
- Instruction sheets that come with our carburetor kits are somewhat generic. It may not match your parts exactly.
- Do NOT use WD-40 around your carburetor. It reacts with ethanol.
- Using Silicon Spray Lubricant on the gaskets will help with sticking in case you need to take the carburetor apart again.
- Be careful after taking the top of the carburetor off. Turning the carburetor upside down may cause parts to fall out and you won't know where they were.
- Screws and jets that are frozen can often be removed after heating outside the screw or jet.
- Stuck check balls can be removed by heating the outside of where the check ball resides and tapping the carburetor on the work bench.
- Do not discard any parts until complete done. You may have to refer for size, or matching.

Cleaning:

- Clean with carburetor dis-assembled.
- Soak all parts except rubber & electrical in Simple Green for 2 hours. Aluminum parts will get discolored if left longer.
- Wash parts with hot water if available to remove all chemicals.
- Blow out each passage way taking special notice of the smaller ones. Test each passage that air goes through the entire passage.
- Blow out the idle mixture hole.

- Check any hole above the idle mixture hole (inside the bore). This is the idle discharge and often becomes plugged.
- A tooth brush can facilitate cleaning parts.
- Soda blasting, then washing again will make the carburetor look good any will clean any minor deposits.
- Any corrosion, or deposits that are hard to remove may indicate the passages are also corroded and the carburetor should be replaced.
- If your engine has been sitting for 6 months or more, the gas has probably turned, and the gas tank will need to be cleaned as well as the fuel lines. Flushing new gas through the tank will not be enough.

Assembly:

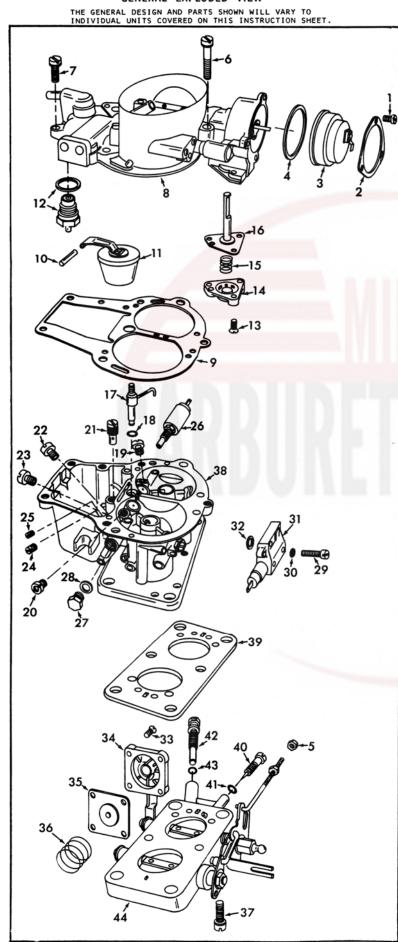
- Do NOT apply any gasket sealant on any of the gaskets. Gas will break sealant part and the particles will clog the small passages.
- Test your float.
 - Brass floats should be immersed into hot water. As the air inside expands any leak will be noticeable with air bubbles.
 - Plastic, or Nitrophyl floats should be weighed. The weight is in grams. Check our technical pages for any weight specification that we may have.
- Most gaskets will fit as expected, but you may have to trim some, especially under the venturis.
- Your kit may include multiple gaskets in order to get better coverage out of the kit. Use the one
 that fits the best. Look for any opening the gasket may leave allowing air into the carburetor.
 Some holes may be casting holes that don't lead to anything and do not have to be covered.
- Mounting gaskets for multiple bore carburetors do not have to have matching holes. Example a
 four-barrel gasket can be open in the middle instead of 4 holes as long as the carburetor has
 some kind of passage between bores. The passage is between primary, or secondary, not both.
- When adjusting the float be careful not to put any pressure on the needle. The viton tip is easily damaged.
- Most idle mixture screws can be cleaned using a soft wire wheel. Inspect for any scoring, which
 would indicate over tightening. Screw with scoring should be replaced.

Accelerator Pumps:

- On leather cups run your finger around the inside of the cup to break any manufacturer sealant.
- Apply 2 drops of oil to cups (leather, or rubber) before inserting into carburetor. Do not soak the
 cup in oil. The swelling of the cup needs to happen inside the carburetor. Allow the 2 drops of oil
 and the gas to do its job naturally.
- Twist the pump as you are inserting to help keep the cup from curling or folding over.
- Test your accelerator pump circuit before putting the top of the carburetor back on. Our technical pages have instructions on how to do this for most carburetor types.
- Pump wells are usually slight tapered, and the pump will not seal until it gets towards the bottom.

INSTRUCTION SHEET SOLEX CARBURETOR — MODEL TDID

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

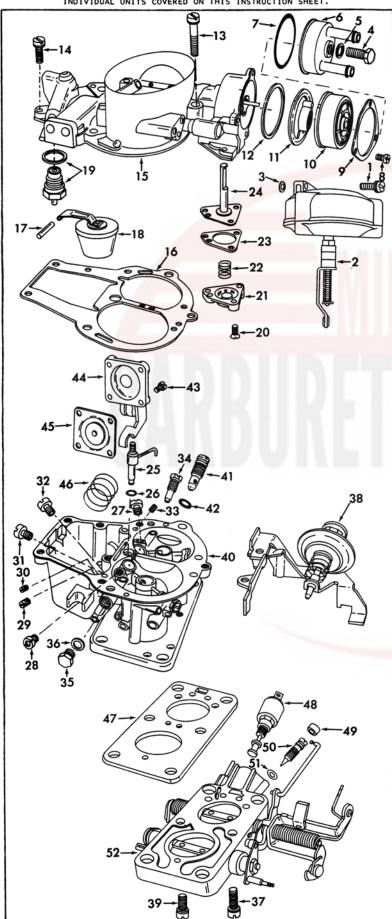
CARBURETOR MOUNTING BOLTS .- TIGHTEN TO 7 FT. LBS. DO NOT OVERTIGHTEN.

INSTRUCTION SHEET SOLEX CARBURETOR — MODEL DIDTA

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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.

	SCREW(2)-VACUUM DIAPHRAGM ASSY.		JET PRIAIR CORRECTION
	SECONDARY VACUUM DIAPHRAGM ASSY.		JET SECAIR CORRECTION
3.	GASKET-SEC. VAC. DIAPH. HOUSING	29.	JET-IDLE AIR
4.	SCREW-WATER CONNECTOR	30.	JET-IDLE FUEL
5.	GASKET-SCREW	31.	JET-SECMAIN
6.	COVER-WATER HOUSING		JET-PRIMAIN
7.	O-RING-COVER		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 ASSYCHOKE	37.	SCREW & LOCKWASHER-DASHPOT
12.	GASKET-CHOKE COVER	1	ASSY.
13.	SCREW & LOCKWASHER(1)-	38.	DASHPOT & BRACKET ASSY.
	BOWL COVER	39.	SCREW & LOCKWASHER-THROTTLE
14.	SCREW & LOCKWASHER(4)-		BODY
	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)-
18.	FLOAT & LEVER ASSY.		PUMP DIAPHRAGM COVER
19.	NEEDLE, SEAT & GASKET ASSY.	44.	COVER ASSYPUMP DIAPHRAGM
20.	SCREW & LOCKWASHER(3)-	45.	DIAPHRAGM ASSYPUMP
	DIAPHRAGM COVER	46.	SPRING-DIAPHRAGM
21.	COVER-DIAPHRAGM	47.	GASKET-THROTTLE BODY
22.	SPRING-DIAPHRAGM RETURN	48.	VALVE ASSYBYPASS CUTOFF
23.	GASKET-CHOKE VACUUM DIAPHRAGM		PLUG-IDLE ADJUSTING NEEDLE
24.	DIAPHRAGM ASSY CHOKE VACUUM		NEEDLE-IDLE ADJUSTING
25.	TUBE ASSYPUMP INJECTOR	51.	O-RING-IDLE ADJ. NEEDLE
26.	O-RING-INJECTOR TUBE	52.	THROTTLE BODY ASSY.

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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.

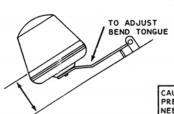
NEEDLE & SEAT INSTALLATION (19)-SELECT PROPER GASKET THICKNESS REFER TO OLD GASKET.

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

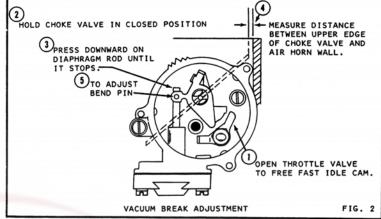
FLOAT BOWL HELD AT A 45° ANGLE. MEASURE DISTANCE FROM SURFACE OF BOWL COVER TO UPPER EDGE OF BEAD ON THE FLOAT. (DO NOT COMPRESS SPRING LOADED BALL.)

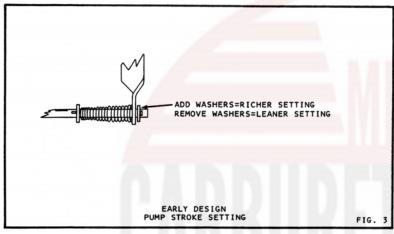


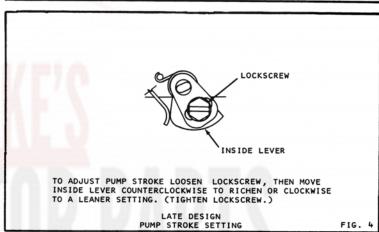
CAUTION: DO NOT EXERT PRESSURE ON RESILIENT NEEDLE VALVE.

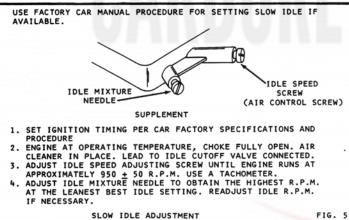
FIG. 1

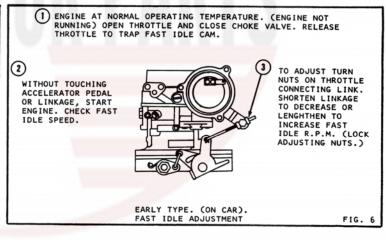
DRY FLOAT LEVEL ADJUSTMENT

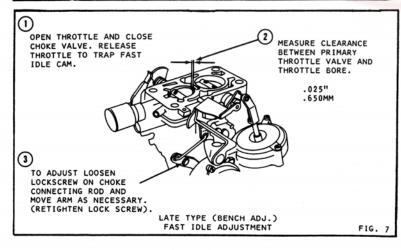












ADJUSTMENT DATA

MAKE	KE FLOAT LEVEL		VACUUM BREAK	
AUDI				
1971	21/32"	16.5MM	.140"	3.50MM
1972	21/32"	16.5MM	.098"	2.50MM
1973			1	1
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	30		.128"	3.27MM
BMW				
1974-76	23/32"	18MM	.259"	6.6MM

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