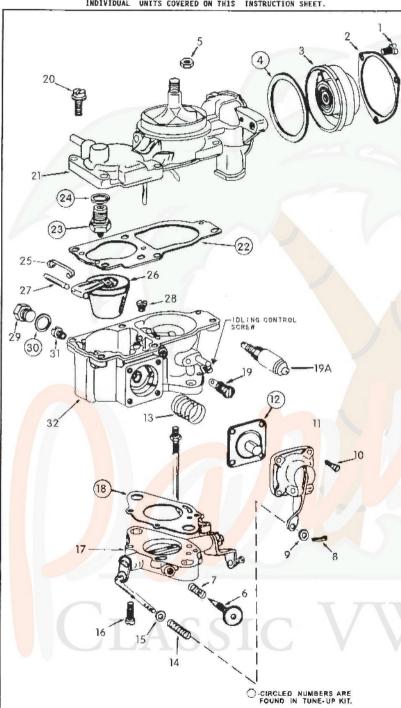


INSTRUCTION SHEET SOLEX 32PDSIT-2. -3 CARBURETORS

1964 TO 1967-TYPF 3

GENERAL EXPLODED VIEW

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



REMOVING

REMOVE AIR CLEANER DISCONNECT FUEL HOSE, CABLE FOR AUTO-MATIC CHOKE, AND IDLE CUT-OFF VALVE, AND IF REBUILDING LEFT CARBURETOR, REMOVE VACUUM HOSE FOR DISTRIBUTOR. REMOVE CARBURETOR LINKAGE RETURN SPRING AND CONNECT ING ROD.REMOVE TWO NUTS FROM STUDS ON CARBURETOR FLANGE AND TAKE OFF CARBURETOR. DISASSEMBLY

USE EXPLODED YIEM AS A QUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. CAUTION BRASS TUBE-TYPE JETS ARE NOT REMOVABLE. NOTE POSITION OF LOCKNUT(5) BEFORE

REF.		REF. NO.
1. SC 2. RE 3. CO HE 4. GA 5. LO	REW(S) RETAINING RING TAINING RING -COVER VER-WITH SPRING AND ATER ELEMENT SKET - COVER CKNUT- THROTTLE INNECTOR ROD	17. THROTTLE HOUSING ASSY. (8) GASKET - MAIN BODY TO THROTTLE HOUSING 19. JET - PILOT (EARLY MODELS) 13A. VALVE - IDLE CUT - DFF 1.LATE MODELS! 20. SCREW & WASHER(6) - UPPER
6. SC 7. SP 8. CO 9. WA 10. SC	REW- VOLUME CONTROL RING - YOLUME CONTROL REW ITTER PIN - PUMP ROD SHER- PUMP ROD REW(4) - PUMP COVER VER - WITH LEVER & PIN	20 SONEW O WINDHENING - UPPER BODY ASSY. (22) GASKET - UPPER BODY (23) NEEDLE & SEAT ASSY. (24) GASKET - NEEDLE SEAT
3. SP 14. SP 15. WA	APHRAGM - PUMP RING - PUMP DIAPHRAGM RING - PUMP ROD SHER- PUMP ROD REW(2) - THROTTLE USING	25. SEAT SPRING- FLOAT PIN 26. FLOAT 27. PIN - FLOAT LEVER 28. JET - AIR CORRECTION 29. PLUG - MAIN JET 31. JET - MAIN 32. MAIN BOOY ASSY.

CLEANING HUST 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 HARD CARBON DEPOSITS. WASN OFF IN
SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH
COMPRESSED AIR AND CHECK CAREFULLY TO INSURE THOROUGH
CLEANING OF DBSCURE AREAS, CAUTION: DO NOT SOAK SOLEHOIDS,
RUBBER OR PLASTIC PARTS IN SOLVENTS.
REASSEMBLY
REASSEMBLE IN REVERSE ORDER OF DISASSEMBLY. NOTE SPECIAL
INSTRUCTIONS.

SPECIAL INSTRUCTIONS

MAKE SURE ALL JET ORIFICES ARE CLEAN AND OPEN CLEAN WITH COMPRESSED AIR, DO NOT USE WIRES.TO CHECK FOR CLOGGED ORI-

WHEN INSTALLING PUMP DIAPHRAGM SPRING (13) MAKE SURE SPRING IS PROPERLY SEATED IN METAL CAP ATTACHED TO DIAPHRAGM (12) AND THE PLUNGER IS TOWARDS THE PUMP COVER (11).

PUMP STROKE ADJUSTMENT. PLACE COTTER PIN IN CENTER HOLE OF PUMP ROD (ADJUST AS NEEDED) INSIDE HOLE RICHER, OUTER HOLE

CHECK FOR A WORN SPOT (DEPRESSION) ON THE FLOAT LEVER WHERE IT MAKES CONTACT WITH THE FUEL INLET NEEDLE VALVE. REPLACE FLOAT ASSEMBLY, IF NECESSARY. FLOAT ASSEMBLY MAY BE PURCHASED AT LOCAL VW DEALER P/N 311-129-391A ROUND SHAPED FLOAT (26).

CHECK THE THERMOSTATIC SPRING IN HOUSING (ITEM #3) FOR DAMAGE. IF IT IS DISTORTED OR KINKED, REPLACE THE ASSEMBLY.
ALSO, MAKE SURE THE ELECTRICAL HEATING ELEMENT IS NOT BROKEN. THIS CAN BE CHECKED WITH AN OHMMETER OR CONNECTED TO
A CORRECT VOLTAGE BATTERY FOR A FEM MINUTES TO SEE IF IT
WARMS UP. (BE SURE TO GROUND THE INSIDE METAL PART OF THE
HOUSING IN ORDER TO COMPLETE THE CIRCUIT.) WHEN INSTALLING
ASSEMBLY WITH SPRING AND HEATER ELEMENT, CAREFULLY ROTATE
ASSEMBLY COUNTERCLOCKNISE, BEING SURE THE HOOK ON COIL END
ENGAGES WITH THE LEYER ON CHOKE SHAFT, CONTINUE ROTATING
APPROXIMATELY 1/8 TURN MORE UNTIL INDEX MARKS ALIGN. THEN
TIGHTEN SCREWS SECURELY.
INSTALLING

TIGHTEN SCREWS SECURELY.

INSTALLING
INSTALL IN REVERSE ORDER OF REMOVING, EXCEPT DO NOT INSTALL
AIR CLEARER AT THIS TIME.

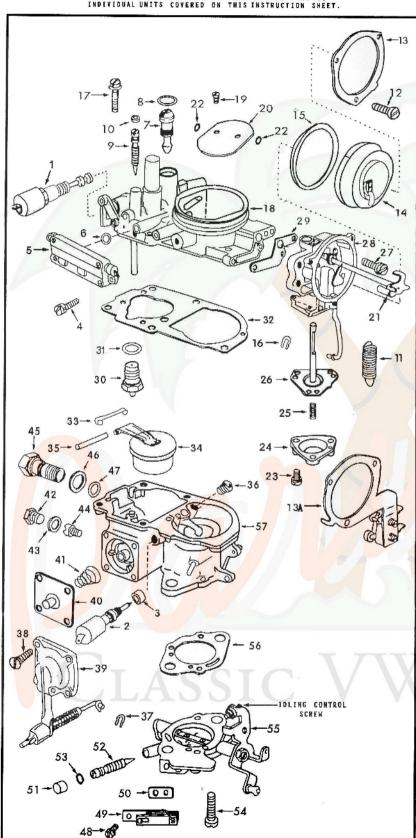
ADJUSTING TWIN CARBURETORS
RIN ENGINE UNTIL IT IS MARM. MAKE SURE THAL THE AUTOMATIC
CHOKES ARE FULLY OPEN ON BOTH CARBURETORS AND THE THROTTLE
VALVES ARE IN 10LE POSITION (IDLING CONTROL SCREWS OPEN BY
ABOUT ONE TURN). THE VOLUME CONTROL SCREWS 66 OPEN 1 1/2
TURNS. CONNECT A TACHOMETER. DISCONNECT RIGHT HAND COMMECTION ROD AND WITH ENGINE RUNNING. MOVE IDLING CONTROL
SCREW OF FACH CARBURETOR BY THE SAME AMOUNT UNTIL A SPEED
OF 800-900 R.P.M. IS ATTAINED. SCREW IN VOLUME CONTROL
SCREW (6) OF EACH CARBURETOR UNTIL THE ENGINE STARTS TO
RUN IRREGULARLY. THEN BACK OFF SCREWS TO LEFT (1/4 TO
1-2 TURN) UNTIL ENGINE RUNS SMOOTHLY. INSTALL AIR
CLEANER. DO NOT OVERTIGHTEN WING NUT. RECONNECT RIGHT
HAND CONNECTING ROD.



INSTRUCTION SHEET SOLEX CARBURETOR - MODELS 34 PDSIT-2.-3 JULY 1972 TO 1974 - TYPE 2

GENERAL EXPLODED VIEW

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



REMOVING

REMOVE AIR CLEANER DISCONNECT FUEL HOSE, CABLE FOR AUTOMATIC CHOKE, AND IDLE CUT-OFF VALVE, AND IF REBUILDING THE LEFT CARBURETOR, REMOVE VACUUM HOSE FOR DISTRIBUTOR. REMOVE CARBURETOR LINKAGE RETURN SPRING AND CONNECTING ROD. REMOVE TWO NUTS FROM STUDS ON CARBURETOR FLANGE AND TAKE OFF CARBURETOR

DISASSEMBLY

USE EXPLODED VIEW AS A GUIDE. THE NUMERICAL SEQUENCE MAY GENERALLY BE FOLLOWED TO DISASSEMBLE UNIT FAR ENOUGH TO PERMIT CLEANING AND INSPECTION. CAUTION: BRASS TUBE TYPE JETS ARE NOT REMOVABLE. BEFORE REMOVING CHOKE PLAYE SCREWS (19) FILE OFF PEENED END FOR EASY REMOVAL.

NOMENCL ATURE

	NO.		NO.	
	1.	VALVE - BYPASS AIR CUT OFF VALVE - IDLE CUT-OFF	29.	GASKET - CHOKE HOUSING
	3.	SEALING WASHER - IDLE CUT-	30.	NEEDLE & SEAT ASSY.
	0.00	OFF VALVE	31.	GASKET - NEEDLE SEAT
	4.	SCREW & LOCKWASHER (2) - VALVE	32.	GASKET - UPPER BODY
	5.	VALVE- THERMO CUT - OFF	33.	SEAT SPRING - FLOAT PIN
	6.	O -RING -THERMO CUT-OFF VALVE	34.	FLOAT
	7.	SCREW - BYPASS AIR		PIN - FLOAT LEVER
	8.	O-RING - BYPASS AIR SCREW	36. 37.	JET - AIR CORRECTION LOCKRING - CONNECTION ROD
	9.	SCREW - CONTROL	38.	SCREW(4) - COVER WITH LEVER
	10.	O-RING - CONTROL SCREW	***	AND ROD
	11.	SPRING - RETURN	39.	COVER - WITH LEVER AND
	12.	SCREW(3) - RETAINING RING	40.	DIAPHRAGM - PUMP
	13.	RETAINING RING -COVER	41.	SPRING - DIAPHRAGM
	13A.	RETAINING RING & MICRO SWITCH -(RIGHT SIDE CARB' A/TI	42.	PLUG - MAIN JET
	14.	COVER - WITH SPRING & HEATER	43.	GASKET - PLUG
		ELEMENT	44.	JET - MAIN
- 1	15.	GASKET - COVER	45.	PLUG - FUEL BOWL(SOME LATE
	16.	CLIP - CONNECTOR ROD		MODELSI
	17.	SCREW & LOCKWASHER (5) - UPPER BODY	46.	GASKET - PLUG
	18.	BODY ASSY UPPER	47.	O-RING - PLUG
	19.	SCREW (2) - CHOKE PLATE	48.	SCREW & LOCKWASHER-HOT
	20.	PLATE - CHOKE SHAFT - CHOKE PLATE		IDLE VALVE
	22.	SPACEWASHER (2) - CHOKE PLATE	-	VALVE - HOT IDLE
	23.	SCREW & LOCKWASHER (3) -	50.	GASKET - HOT IDLE VALVE
	24.	COVER -VACCUM DIAPHRAGM	51.	SEAL PLUG - VOLUME CONTROL
	25.	SPRING -VACUUM DIAPHRAGM	52.	SCREW - VOLUME CONTROL
- 6	26.	VACUUM DIAPHRAGM - CHOKE		O -RING VOLUME CONTROL
-	27.	SCREW & LOCKWASHER(2) -	7 577	SCREW
		CHOKE HOUSING		SCREW (2) - THROTTLE HOUSING
-	28.	HOUSING ASSY CHOKE		THROTTLE HOUSING ASSY.
			56.	GASKET - MAIN BODY TO THROTTLE HOUSING
			57.	MAIN BODY ASSY.
			202	NOTES AND A DESTRUCTION OF THE PARTY OF THE

CLEANING

CLEANING HUST BE DONE WITH CARBURETOR DISASSEMBLED. SOAK
PARTS LONG ENDUGH TO SOFTEN AND REMOVE ALL FOREIGN MATERIAL.
USE A CARBURETOR CLENAING SOLVENT. MAKE CERTAIN THE THROTTLE
BODY IS FREE OF ALL HARD CARBON DEPOSITS. WASH OFF IN SUITABLE SOLVENT. BLOW OUT ALL PASSAGES IN CASTINGS WITH COMPRESSED AIR AND CHECK CARFULLY TO INSURE THOROUGH CLEANING
OF OBSCURE AREAS. CAUTION: DO NOT SOAK SOLEMOIDS, SWITCHES,
FLOAT, OR RUBBER PARTS IN SOLVENTS.

REASSEMBLY

REASSEMBLE IN REV<mark>erse o</mark>rder of disassembly, glying special attention to the following special instructions.

SPECIAL INSTRUCTIONS

MAKE SURE ALL JET ORIFICES ARE CLEAN AND OPEN. CLEAN WITH COMPRESSED AIR. DO NOT USE WIRES TO CHECK FOR CLOGGED ORIFICES.

WHEN INSTALLING THE PUMP DIAPHRAGH AND SPRING (41) MAKE SURE THE LARGER END OF SPRING IS PROPERLY SEATED IN THE CARBURETOR BODY CAVITY. BE SURE TO INSTALL THE DIAPHRAGM (40) WITH PLUNGER TOWARD PUMP COVER (39).

CHECK FOR A HORN SPOT (DEPRESSION) ON THE FLOAT LEVER WHERE IT MAKES CONTACT WITH THE FUEL INLET NEEDLE VALVE. REPLACE FLOAT ASSEMBLY HAY BE PURCHASED AT LOCAL VW DEALER. P/N 311-129-391A ROUND SMAPRD FLOAT (34).

CHECK THE THERMOSTATIC SPRING IN HOUSING (ITEM \$14) FOR DAMAGE IF IT IS DISTORTED OR "KINKED", REPLACE THE ASSEMBLY. ALSO, MAKE SURE THE ELECTRICAL HEATING ELEMENT IS NOT BROKEN. THIS CAN BE CHECKED WITH AN OHMHETER OR CONNECTED TO A CORRECT VOLTAGE BATTERY FOR A FEW MINUTES TO SEE IF IT WARMS UP. (BE SURE TO GROUND THE INSIDE HETAL PART OF THE HOUSING IN GROER TO COMPLETE THE CIRCUIT.) WHEN INSTALLING ASSEMBLY WITH SPRING AND HEATER ELEMENT. CAREFULLY ROTATE ASSEMBLY COUNTERCLOCK—WISE, BEING SURE THE HOOK ON COIL END ENGAGES WITH THE LEVER ON CHOKE SHAFT. CONTINUE ROTATING APPROXIMATELY 1/8 TURN HORE UNTIL INDEX MARKS ALIGN. THEN TIGHTEN SCREWS SECURELY.



INSTALLING

INSTALL IN REVERSE ORDER OF REMOVING.

SYNCHRONIZATION OF CARBURETORS

WARM UP ENGINE. DISCONNECT OPERATING ROD FOR THROTTLE VALVE SHAFT ON RIGHT CARBURETOR, PULL HOSE OFF RETARO CHAMBER OF VACUUM UNIT ON DISTRIBUTOR, PULL LEFT HOSE OFF AIR PUMP AND SEAL THE HOSE. DISCONNECT WIRE FROM TERMINAL OF CUT-OFF VALVE (1) ON CENTRAL IDLING SYSTEM. TURN VOLUME CONTROL SCREW (52) ON BOTH CARBURETORS IN AS FAR AS THEY WILL GO. DO NOT USE FORCE.THEN TURN OUT 2 1/2 [] TURNS. START ENGINE AND SET IDLING SPEED TO 500-700 RPM AND CO VALUE TO 3-5% BY TURNING BOTH VOLUME CONTROL SCREWS (52) UNIFORMLY. DISCONNECTIDLING CUT-OFF VALVE WIRE (2) ON ONE CARBURETOR AND NOTE THE DECREASE IN SPEED. THE DECREASE IN SPEED MUST BE THE SAME WHEN THIS PROCEDURE IS REPEATED ON THE OTHER CARBURETOR. OTHERWISE, THE MIXUTRE MUST BE REGULATED BY ADJUSTING THE VOLUME CONTROL SCREWS (52). CONNECT OPERATING ROD FOR THROTTLE VALVE SHAFT, BEING CAREFUL NOTTO CHANGE THE POSITION OF THE THROTTLE VALVE. CONNECT WIRE TO TERMINAL OF CUT-OFF VALVE (1) ON CENTRAL IDLING SYSTEM AND INSTALL HOSES ON RETARD UNIT AND AIR PUMP. INCREASE SPEED BRIEFLY AND THEN SET IDLING WITH THE IDLING CONTROL SCREWS TO APPROXIMATELY 950 RPM.

IDLING ADJUSTMENT

CONNECT TACHOMETER. START ENGINE, AUTOMATIC CHOKE FULLY OPEN, SET IDLE SPEED BY TURNING THE BYPASS AIR SCREW (7) TO SPEED RANGE GIVEN IN THE FOLLOWING TABLE:

MANUAL TRANSMISSION 850- 900 RPM AUTOMATIC TRANSMISSION 900-1,000 RPM

TURN CONTROL SCREW (9) OUT UNTIL ENGINE SPEED INCREASES, THEN TURN IN SLOWLY UNTIL ENGINE SPEED STARTS TO DROP; THEN TURN IT TO THE LEFT 1/2 TO 1 TURN UNTIL THE ENGINE RUNS SMOOTHLY. STARTING AT THIS POINT, TURN THE CONTROL SCREW (9) IN AGAIN UNTIL THE ENGINE SPEED DROPS APPROXIMATELY 20-30 RPM. IF BY WEAKENING THE MIXTURE IN THIS MANNER THE ENGINE NO LONGER RUNS EVENLY, THE SCREW MUST BE TURNED OUT AGAIN VERY SLIGHTLY UNTIL THE ENGINE CONTINUES TO RUN SMOOTHLY. CHECK AND MAKE SURE THAT THE ENGINE SPEED CORRESPONDS TO THE SPEED RANGE GIVEN IN THE TABLE.

CLASSIC VW SUPPLIES