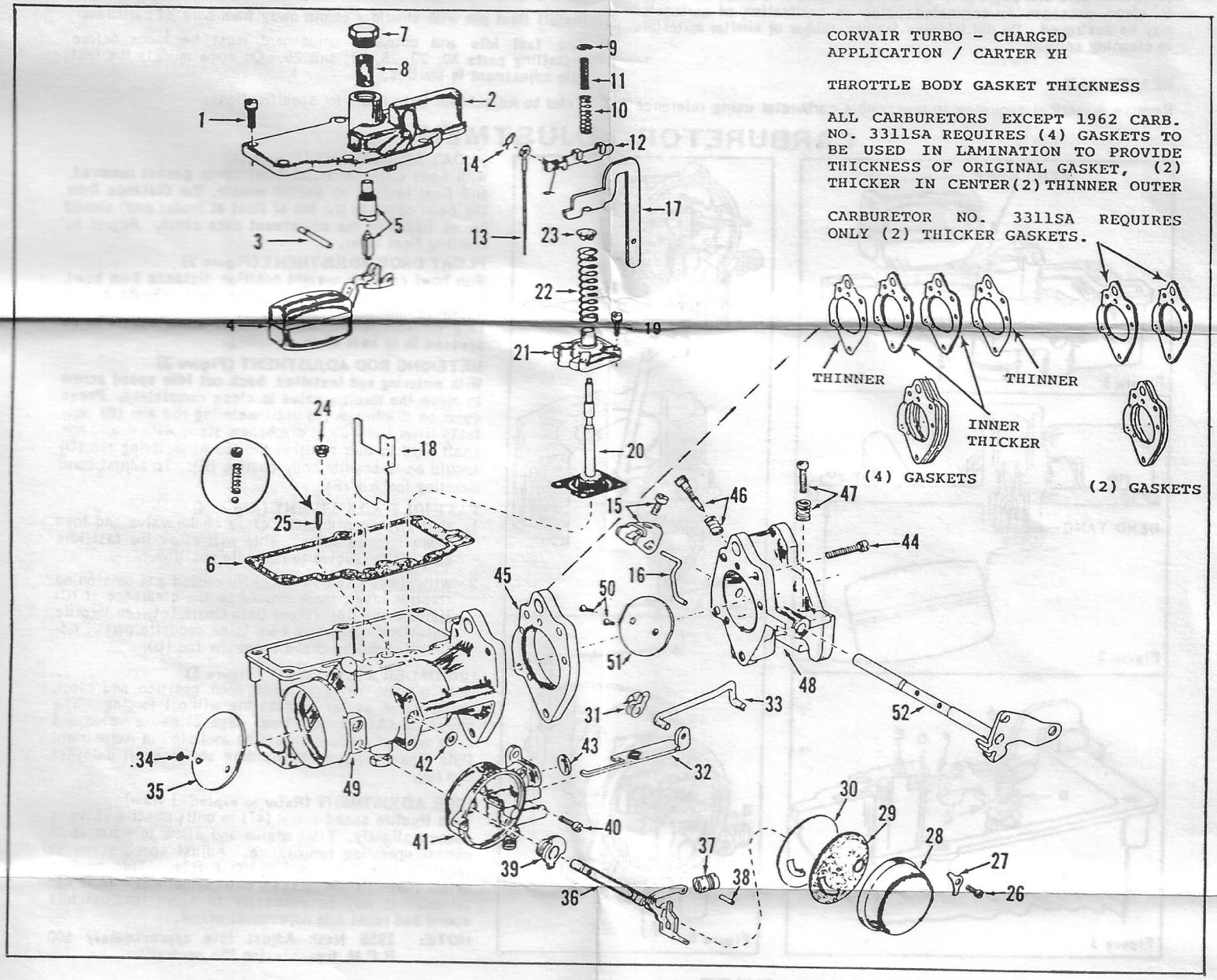
SERVICE INSTRUCTIONS

FOR CARTER CARBURETOR MODEL "YH"



NOMENCLATURE

1. Bowl cover attaching screw and washer (6)
2. Bowl cover and strainer assembly
3. Float lever pin
4. Float and lever assembly
5. Needle and seat assembly
6. Bowl cover gasket
7. Strainer nut assembly
8. Bowl strainer
9. Upper pump spring retainer
10. Upper pump spring (outer)
11. Upper pump spring (inner)
12. Metering rod arm assembly
13. Metering rod
14. Pin spring
15. Throttle shaft arm assembly
16. Throttle shaft arm connector link
17. Pump lifter link
18. Fuel bowl baffle plate
19. Diaphragm housing attaching screw and washer (4)
20. Pump diaphragm assembly
21. Pump diaphragm housing assembly
22. Pump diaphragm spring
23. Pump diaphragm spring retainer
24. Metering jet
25. Pump check needle
26. Coil housing attaching screw (3)
27. Coil housing retainer (3)
28. Thermostatic coil housing
29. Thermostatic coil housing gasket
30. Baffle plate
31. Choke connector rod retainer
32. Fast idle link
33. Choke connector rod
34. Choke valve attaching screw (2)
35. Choke valve
36. Choke piston lever, link and shaft assembly
37. Choke piston
38. Choke piston pin
39. Fast idle cam and spring assembly
40. Piston housing attaching screw (3)
41. Piston housing and plug assembly
42. Piston housing gasket
43. Welsh plug
44. Body flange attaching screw and washer
45. Body flange gasket
46. Idle adjustment screw and spring
47. Throttle lever adjusting screw and spring
48. Body flange
49. Main casting
50. Throttle valve attaching screw (2)
51. Throttle valve
52. Throttle shaft and lever assembly

Printed in U.S.A.

FORM NO. 2030-1

DISASSEMBLY

The numerical sequence of the exploded view may be followed in most instances to permit the cleaning inspection, and installation of the kit contents. Some variation in shape, omission and addition of some parts will occur between models in this group.

CLEANING

Clean all parts thoroughly in an approved carburetor solvent or lacquer thinner. Special attention should be given to carbon deposits in throttle bore and passages. Do not use a wire or similar instrument to clean passages or calibrated holes as calibration of carburetor may be destroyed. Do not immerse leather, rubber or similar materials in cleaning solvent.

REASSEMBLY

Reverse numerical sequence to reassemble carburetor using reference numbers shown in illustration as a guide, and noting the following instructions.

1. Idle adjustment screw should be seated lightly and then backed out approximately 1/4 to 1-3/4 turns for initial setting.
2. To properly install diaphragm, insert diaphragm in housing and make sure holes in diaphragm align with holes in housing. Carefully insert screws through housing and diaphragm being careful not to damage diaphragm. Install spring and retainer on diaphragm stem. Place assembly in correct position and tighten all screws down evenly.
3. Install float pin with shoulder of pin away from bore of carburetor.
4. The fast idle and unloader adjustment must be made before installing parts 30, 29, 28, 27, and 26. On some models the fast idle adjustment is omitted.
5. Refer to Adjustment Data Chart for specifications.

CARBURETOR ADJUSTMENT

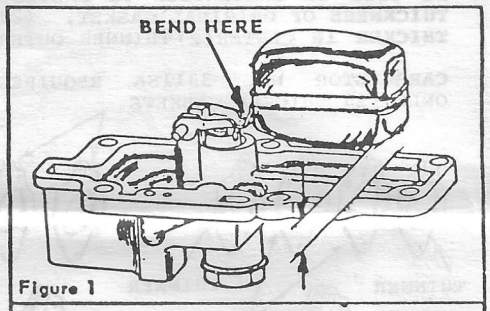


Figure 1

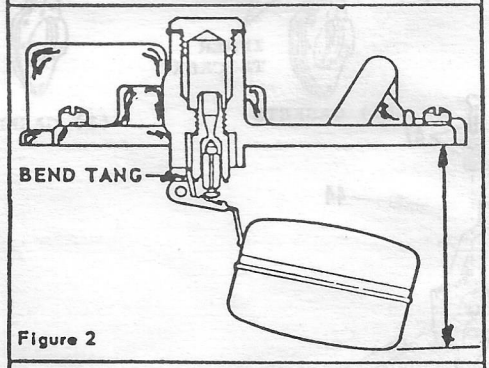


Figure 2

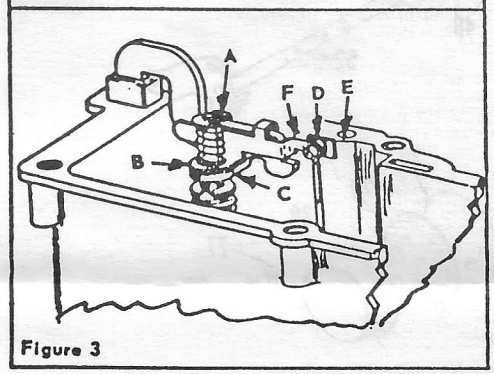


Figure 3

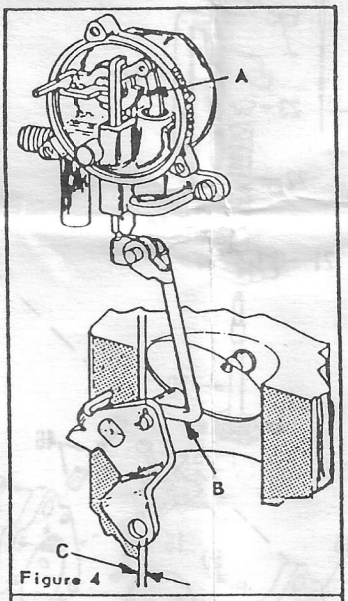


Figure 4

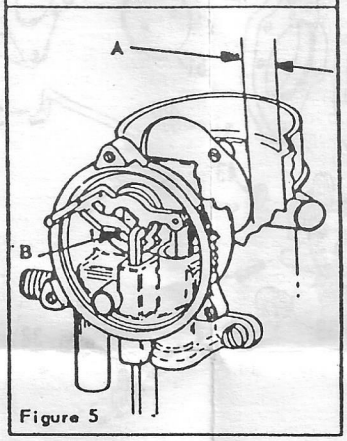


Figure 5

FLOAT ADJUSTMENT (Figure 1)

With bowl cover inverted, bowl cover gasket removed, and float resting on seated needle, the distance from the bowl cover to the top of float at (outer end) should be as listed in the adjustment data chart. Adjust by bending float lever.

FLOAT DROP ADJUSTMENT (Figure 2)

With bowl cover in upright position distance from bowl cover to bottom of float at (free end), should be as listed in adjustment data chart. Adjust by bending tang on float lever. **NOTE: Never allow needle to be pressed in to seat when adjusting.**

METERING ROD ADJUSTMENT (Figure 3)

With metering rod installed, back out idle speed screw to allow the throttle valve to close completely. Press down on diaphragm (A) until metering rod arm (B) contacts lifter link (C) at diaphragm stem; with diaphragm shaft held in this position the top of metering rod (D) should be flush with body casting (E). To adjust bend metering rod arm (F).

FAST IDLE ADJUSTMENT (Figure 4)

1. Partially open throttle, close choke valve and then close throttle valve. This will allow the fast idle cam (A) to revolve to fast idle position.
2. With choke valve held tightly closed and tension on throttle lever, there should be the clearance at (C) listed in the Adjustment Data Chart, between throttle valve and carburetor bore (side opposite port). Adjust by bending choke connector rod (B).

UNLOADER ADJUSTMENT (Figure 5)

Hold throttle valve in wide open position and close choke valve as far as possible without forcing. The clearance (A) between lower edge of choke valve and inner wall of air horn should be as listed in Adjustment Data Chart. Adjust by bending choke shaft unloader arm (B).

IDLE ADJUSTMENT (Refer to exploded view)

Turn throttle speed screw (47) in until throttle valve is opened slightly. Start engine and allow to warm up to normal operating temperature. Adjust speed screw to regulate idle between 700-800 R.P.M. Turn mixture screw (46) "IN" or "OUT" until smoothest idle is obtained. It may be necessary to again readjust idle speed and reset idle adjustment screw.

NOTE: 1956 Nash—Adjust idle approximately 500 R.P.M. transmission "in neutral".

YH ADJUSTMENT DATA CHART

APPLICATIONS		FLOAT ADJ FUEL NEEDLE SOLID	FLOAT ADJ FUEL NEEDLE SPRING LOADED	FLOAT DROP	FAST IDLE	UNLOADER	CHOKE
1962	CORVAIR SPYDER	5/8	3/4	2 3/8	.033	7/16	1 RICH
1963-64	CORVAIR SPYDER	5/8	3/4	2 3/8	.033	7/16	1 LEAN
1965-66	CORVAIR CORSA	5/8	3/4	2 3/8	.033 (1)	7/16	1 LEAN (2)
1953-55	CORVETTE	3/8	1/2	2 3/8	-	-	-
	CHRYSLER CAMPER	5/8	3/4	2 7/16	.020	1/16	INDEX
	CHRYSLER MARINE (318-316 CU IN)	9/16	11/16	2 3/8	NONE	5/8	INDEX
	CLARK CAMPER	5/8	3/4	2 7/16	.020	11/16	INDEX
	CRUSADER MARINE (283 CU IN)	5/8	3/4	2 3/8	NONE	5/8	INDEX
	DEARBORN (239-256-272-292-312 CU IN)	9/16	11/16	2 3/8	.015	5/8	INDEX
	DEARBORN (144)	7/16	9/16	2 3/8	NONE	5/8	2 LEAN
	DEARBORN (221)	7/16	9/16	2 7/16	NONE	9/32	INDEX
	GRAYMARINE (250-327)	5/8	3/4	2 7/16	NONE	5/8	INDEX
1952-53	NASH 973S, 974S	7/16	9/16	2	.030	1/2	1 LEAN
	895S, SA	3/8	1/2	2	.030	1/4	1 RICH (3)
1956	NASH 2368S	5/16	7/16	2 3/8	.030	1/2	1 RICH
	2369S	7/16	9/16	2 3/8	.018	5/8	2 RICH

(1) CARB NO 4141S - SET .035
(2) CARB NO 4020S - SET INDEX
(3) ONE-PIECE CHOKE PISTON-SET 1 LEAN