

STREET DEMON™ CARBURETOR REBUILD KITS

625 Street Demon[™] #1920 750 Street Demon[™] #1919

INSTRUCTION SHEET - LIT709



1

DISASSEMBLY:

NOTE: Numbers in parentheses refer to the exploded views in Figures 10 & 11.

- Remove the choke shaft / lever assembly (5). Remove step up piston cover screws (2) and step-up piston cover (1). Remove the step up pistons (19), metering rods (15), and springs (14) as an assembly. Metering rods (15) may be removed from the piston (19), if desired.
- Remove the pump lever connecting rod (32), c-clips (31), choke connector rod (42), c-clip (31), and cotter pin (46). Remove the 8 assembly screws (36).
- 3. Lift the air horn straight up from the fuel bowl to avoid damage to the parts attached. Remove the float pins (8), floats (9), and fuel needle seat and gasket assembly (20), and strainers (26). Remove the air horn gasket (28).
- 4. Separate the fuel bowl from the throttle body. Remove the choke cap retainer screws (41), choke cap retainer (40), choke cap assembly (39), and choke cap gasket (38).
- 5. Remove the throttle body gasket (34). Set the throttle body (35) and fuel bowl assembly (30) aside for cleaning.
- 6. Remove the pump lever screw (4), pump lever (3), and pump "S" link (21) from the end of the plunger stem (Fig. 1). Remove the fuel inlet fitting (16) and gasket (17).

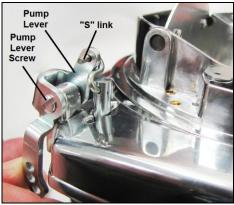


Figure 1

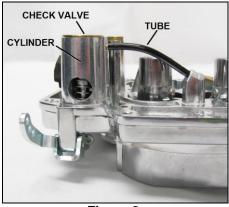


Figure 2

- 7. The accelerator pump cylinder is part of the air horn casting and connects to the discharge nozzle in the primary section through a short flexible tube (Fig. 2). The intake check valve assembly acts as a bottom closure for the pump cylinder.
- 8. Remove the accelerator pump intake check valve (12) and accelerator pump assembly (10). The accelerator pump intake check valve fits tightly into the bottom of the accelerator pump cylinder and can be removed by tapping lightly on the end of the pump plunger shaft. Tap the end of accelerator pump plunger carefully to guard against damage to the shaft or the air horn assembly (Fig. 3). Once the accelerator intake check valve is removed, carefully pull the accelerator pump assembly from the air horn.



Figure 3

9. Remove the accelerator pump plunger assembly (10) and spring (11). See Fig. 4.

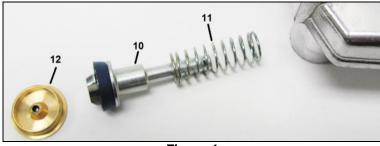


Figure 4

- 10. Remove the rubber cup from the pump plunger assembly.
- 11. Remove the primary (6) and secondary jets (13), noting their locations.
- 12. Remove the discharge nozzle screw (23), discharge nozzle (22), and discharge nozzle gaskets (24). Invert the air horn to remove discharge check needle (25).
- 13. Remove the idle mixture screws (47) and springs (48) from the throttle body assembly (35). Remove any rubber vacuum caps at this time.

CLEANING:

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

REASSEMBLY:

Reverse the disassembly sequence. Note the following special instructions:

- 1. To ensure proper usage of gaskets and parts packaged in kit, use old gaskets and parts for identification.
- 2. Idle mixture screws should be seated lightly and then backed out approximately 1-1/2 to 2 turns for initial setting.
- 3. Install the new accelerator pump rubber cup on the pump plunger assembly (10). See Fig. 5.
- 4. Push the accelerator pump stem into the accelerator pump cylinder to compress the spring. Install the new brass accelerator pump intake check valve. Avoid contact with the check valve orifice area during assembly. Install open end of "S" link in pump shaft toward choke valve.
- 5. Refer to Adjustment Data for adjustment specification (Fig. 6 & 7).
- 6. When installing the choke cap, be sure the pick-up lever (in the housing) fits into the loop on the bi-metal spring. Proper assembly may be verified by turning the choke cap in both directions. The choke plate should open when rotated clockwise, and it should close when rotated counter-clockwise.



Figure 5

ADJUSTMENT DATA:

FLOAT LEVEL:

- 1. With the air horn inverted and weight of float seating needle at the toe of the float, there should be 1.01" (25.7mm) between the top of each float and the air horn gasket surface (Fig. 6).
- 2. To adjust, raise float slightly and bend the float lever. CAUTION! DO NOT PRESS NEEDLE INTO SEAT WHEN ADJUSTING FLOAT LEVER.

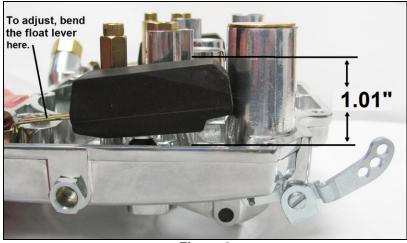


Figure 6

PUMP:

- 1. Install the pump connector rod in the center hole.
- 2. Check the clearance (Fig. 7). You may need to bend the pump rod to obtain .156" (4.0mm) clearance (Fig. 8).

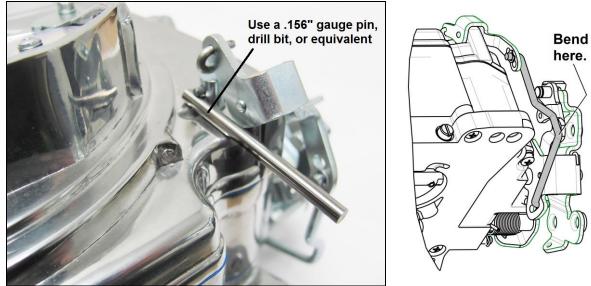


Figure 7



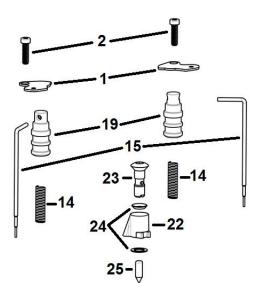
ELECTRIC CHOKE SETTING:

- 1. With the thermostat cap assembly cold, rotate the cap against the spring tension until the mark on the cap is aligned with the index mark on the housing (Fig. 9).
- 2. Turn clockwise an additional two notches rich for the proper setting.
- 3. After engine is warmed up, check that the choke valve has opened fully and that it operates freely.



Figure 9

Item	Description	Item	Description
1	Step-Up Piston Cover	14	Step-Up Piston Spring (Green)
2	#6 – 32 x .75 FHS w/ Lockwasher	15	Metering Rod
3	Pump Lever	16	Fuel Inlet Fitting
4	Pump Lever Screw	17	Gasket
5	Choke Shaft / Lever Assembly	18	C-Clip
6	Main Well Primary Metering Jet	19	Step Up Piston
7	Fuel Inlet Needle	20	Fuel Needle Seat
8	Float Pin	21	Pump "S" Link
9	Float	22	Discharge Nozzle
10	Accelerator Pump Assembly	23	Discharge Nozzle Screw
11	Pump Drive Spring	24	Discharge Nozzle Gaskets
12	Accelerator Pump Intake Check Valve	25	Check needle
13	Secondary Jet	26	Strainer



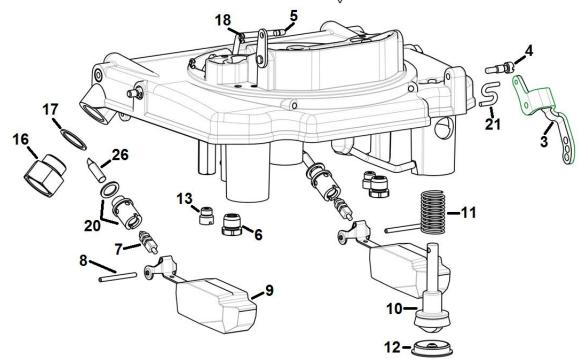
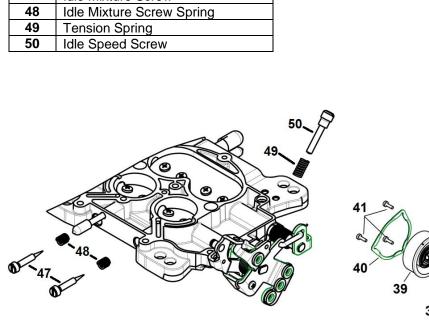


Figure 10

ltem	Description
27	Air Horn Assembly
28	Air Horn Gasket
29	Air Baffle
30	Fuel Bowl
31	C-clips
32	Pump Lever Connecting Rod
33	Outer Choke Counter Lever
34	Throttle Body Gasket
35	Throttle Body Assembly
36	#10 – 32 Fillister Head Screw
37	#6 – 32 UNC x .75 w/ Lockwasher
38	Choke Cap Gasket
39	Choke Cap Assembly
40	Choke Cap Retainer
41	Choke Cap Retainer Screw
42	Choke Rod
43	Choke Linkage Cover
44	Hex Nut
45	Washer
46	Cotter Pin
47	Idle Mixture Screw
48	Idle Mixture Screw Spring
49	Tension Spring
50	Idle Speed Screw



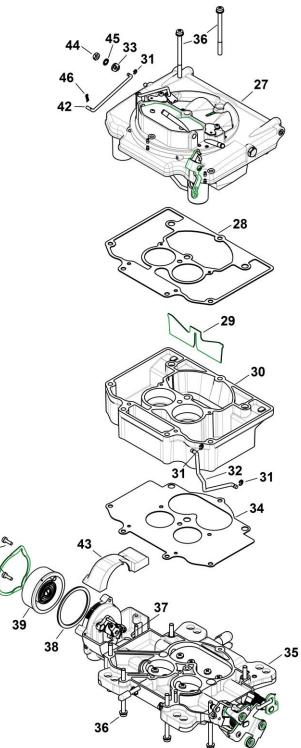


Figure 11

Demon Carburetion[™] Limited Warranty

All Demon Carburetion[™] Limited Warranties are extended to the original consumer only. This Limited Warranty is not assignable or otherwise transferable. There are no warranties that extend beyond those stated herein. Demon Carburetion[™] offers no other warranties expressed or implied beyond this Limited Warranty.

In the event of an alleged defect in material or workmanship, the responsibility of Demon Carburetion[™] is strictly limited to the repair or replacement of the defective product. Demon Carburetion[™] has no other obligation expressed or implied. Final warranty determination will be in the sole discretion of Demon Carburetion[™]. Demon Carburetion[™] shall not be responsible for; (a) actual or alleged labor, transportation, or other incidental charges; or (b) actual or alleged consequential or other damages incurred by use of any product of Demon Carburetion[™].

To initiate the warranty process, the consumer must return the alleged defective product to the place of purchase with a dated receipt and completed applicable warranty claim tag. Warranty claims will be rejected if the date of purchase cannot be established by the consumer. Do not send products directly to Demon Carburetion[™]. Demon Carburetion[™] assumes no responsibility for products sent directly to Demon Carburetion[™].

This Limited Warranty sets forth specific legal rights. The consumer may have other rights as a result of variations in state laws or provincial laws. This Limited Warranty supersedes all prior warranty statements.

DEMON CARBURETION – NEW PRODUCT

Demon Carburetion[™] warrants its new Speed Demon products to be free from defects in material and workmanship for a period of 90 days from date of purchase.

Demon Carburetion[™] Limited Warranty specifically does not apply to products, which have been (a) modified or altered in any way; (b) subjected to adverse conditions, such as misuse, neglect, accident, improper installation or adjustment, dirt or other contaminants, water, corrosion, or faulty repair; or (c) used in other than those applications recommended by Demon Carburetion[™]. Demon Carburetion[™] also does not warrant, and disclaims all liability for products used in racing activities and/or applications other than those specifically recommended in the current brand catalog.

NOTE: IF YOU HAVE ANY QUESTIONS ABOUT THE SETUP OR TUNING OF THIS CARBURETOR, PLEASE CONTACT THE DEMON CARBURETOR™ TECHNICAL DEPARTMENT DIRECTLY AT 270-901-3346.

Return Address & Contact information:

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