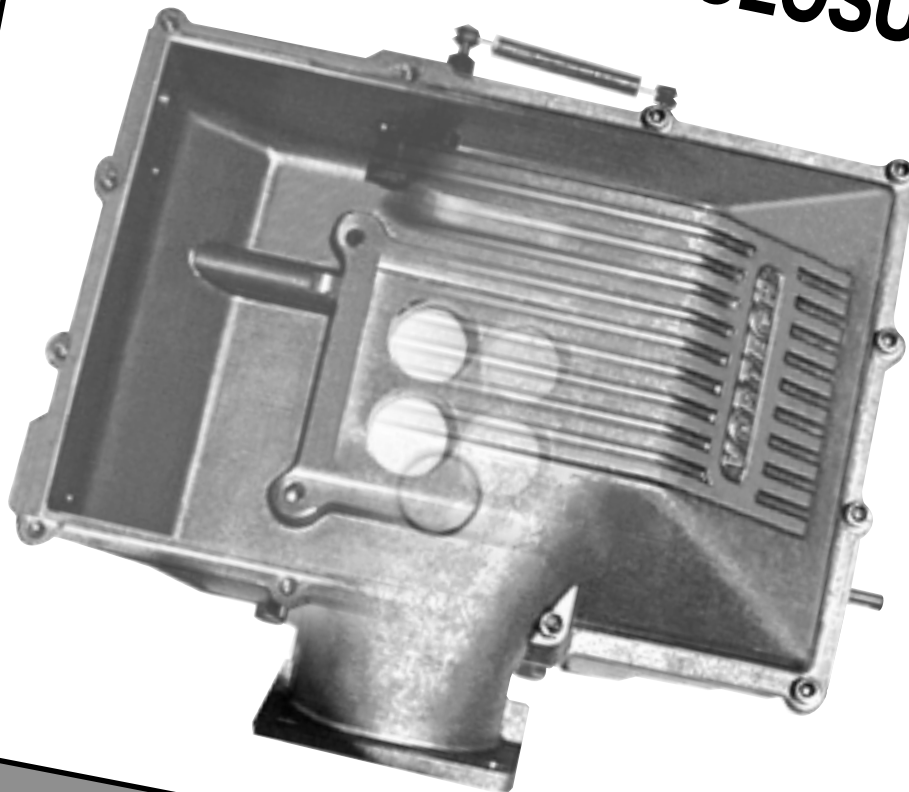


UNIVERSAL CARBURETOR ENCLOSURE



ENGINEERING, INC.

1650 PACIFIC AVENUE • CHANNEL ISLANDS, CA 93033-9901

FOREWORD

Proper installation of this supercharger kit requires general automotive mechanic knowledge and experience. Please browse through each step of this instruction manual *prior* to beginning the installation to determine if you should refer the job to a professional installer/technician. Please call Vortech Engineering for installers in your area.

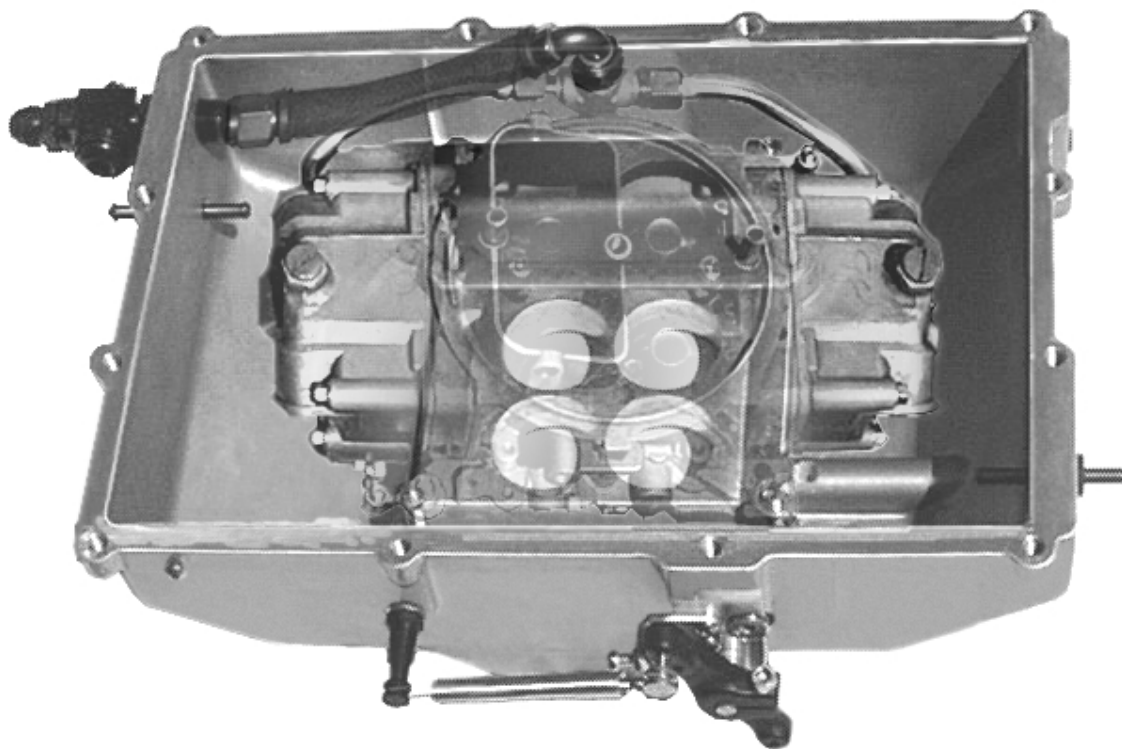
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UNIVERSAL CARBURETOR ENCLOSURE

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UNIVERSAL CARBURETOR ENCLOSURE

Part No. 8M205-012/8M205-018/8M205-020

-012 WITHOUT FUEL LINES, SATIN/-018 WITHOUT FUEL LINES, POLISHED/-020 WITH OPTIONAL HOLLEY FUEL LINE KIT,
SATIN

ENGINEERING, INC.

PARTS LIST

IMPORTANT: Before beginning installation, verify that all parts are included in the kit. Report any shortages or damaged parts immediately.

Item Description	Vortech Part #	Qty.	Item Description	Vortech Part #	Qty.
CARBURETOR ENCLOSURE ASSY, WITH LINES (4150 HOLLEY LINES)			SHAFT, 5/16 HEX	8M010-140	1
ENCL. STD. MACH. ASSY.	8M105-012	1	SPACER, ENCL.	2A017-032	1
MANIFOLD, UPPER COOLER	8M003-011	1	NUT, THROTTLE	7F010-026	1
5/16-18 X 2 1/8 SS SHCS	7A312-212	2	WASHER, THROTTLE	7J010-687	1
5/16-18 X 3/4 SS SHCS	7A312-078	14	3/16 ROD END RH WITH NUT	7C010-187	1
1/4 NPT PLUG	7P250-120	1	3/16 ROD END LH WITH NUT	7C010-188	1
FITTING, -3 TO 1/4 HOSE	7P187-102	1	10-24 X 3/4 SS BHCS	7C010-077	4
O-RING, -3	7U100-003	4	10-24 X 1/2 SS BHCS	7C010-052	4
PLUG, -3 BUTTONHEAD w/O-RING	7P187-103	3	SPACER, SHAFT ENCL.	2A017-031	1
PLUG, OIL HOLE	7P375-104	4	10-32 SCREW	7C011-075	1
3/8" COPPER WASHER	7J375-024	4	10-32 NUT	7F010-033	1
5/16 STUD	7A312-252	4	#10 FLAT WASHER	7J010-001	4
5/16-24 JAM NUT	7F312-024	4	1/4-20X3/4 SHCS SS	7A250-076	1
5/16 FLAT WASHER-SAE	7J312-000	4	FUEL LINE ASSY, (OPT.) HOLLEY 4150 ...		
O-RING	7U100-008	1	FRONT FUEL LINE	8M110-020	1
PLUG, AN -8 O-RING PORT	7P500-087	1	REAR FUEL LINE	8M010-100	1
THROT LINK ASSY, CARB ENCL	8M110-010	1	MALE TEE -8,-6,-6	8M010-110	1
BRACKET, IDLE	8M010-010	1	FITTING, -8 BULKHEAD w/O-RING	7P500-084	1
THROTTLE ARM OUTER	8M010-030	1	FITTING, -8 BULKHEAD NUT, BLK	7P500-085	1
THROTTLE ARM INNER	8M010-040	1	PLUG BTNHD, AN -8 w/O-RING, BLK	7P500-087	1
THROTTLE SHAFT	8M010-050	1	FTG, AN -8 MALE w/O-RING, BLK	7P500-088	2
RETAINER, SPRING ENCL.	8M010-070	1	AN -8 HOSE END, STRAIGHT	7P500-083	1
RETAINER, SPRING THROTTLE	8M010-080	1	120° -8 TO 1/2" BARB	7P500-086	1
SPRING, THROTTLE ENCL.	8M010-090	1	1/2" FUEL LINE	7U037-030	5.4"
			1/8 NPT PLUG	7P125-016	1
			O-RING, -8	7U100-008	3

OPTIONAL PARTS

PART

USED FOR:

HOLLEY CARB GASKET	8M001-017	USE BETWEEN INTAKE MANIFOLD AND ENCLOSURE OR BETWEEN ENCLOSURE AND CARBURETOR
TBODY GASKET FORD	8M001-018	USE ON ENCLOSURE INLET FLANGE
FTG, 1/4 NPT-1/2 BARB 90°	7P250-084	USE ON BACK OF ENCLOSURE FOR PCV
FTG, 1/4 NPT - 3/8 BARB 90°	7P250-047	USE ON ENCLOSURE FOR PCV
RETAINER, MORSE	8M010-020	HOLDS MORSE CABLE ON BACK OF ENCLOSURE FOR DIRECT THROTTLE HOOKUP
O-RING, MORSE CABLE SEAL	7U100-010	INSTALLS ON MORSE CABLE BEFORE INSERTING THROUGH CARB ENCLOSURE
MACHINE, Ø3.5 FLANGE	8M003-041	ALLOWS INSTALLATION OF 3 1/2" SLEEVE ON ENCL. CVR, EXIT PERPENDICULAR TO VALVE CVR
MACHINE, Ø3.5 FLANGE 90°	8M012-011	ALLOWS INSTALLATION OF 3 1/2" SLEEVE ON ENCLOSURE CVR, EXIT PARALLEL TO VALVE CVR
AN -6 - HOLLEY ADPTR	7P375-107	THREADS INTO HOLLEY CENTER HUNG FLOAT BOWLS, DASH 6 MALE OUTLET

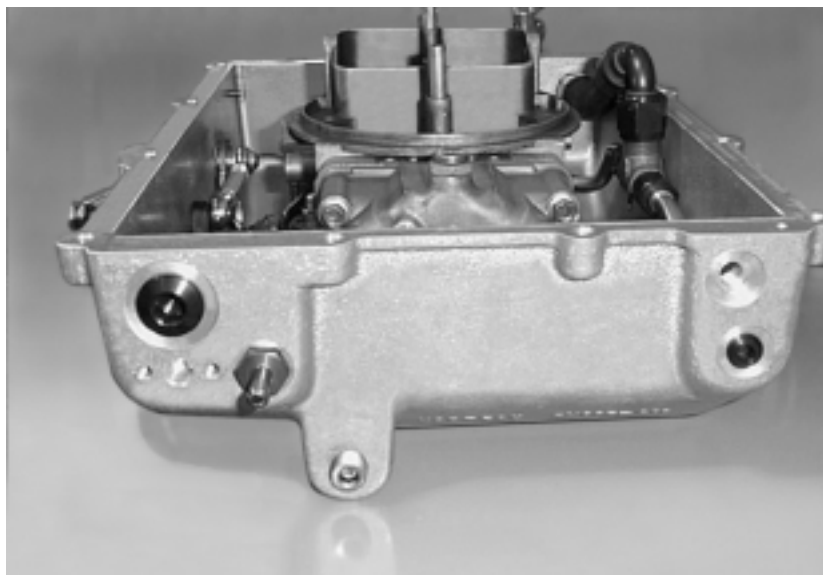


Fig. 1

CARBURETOR ENCLOSURE INSTALLATION

- A. Relieve the fuel pressure in the system.
- B. Remove the carburetor from the intake manifold.
- C. Thoroughly clean the intake manifold carburetor flange.
- D. Thread the four supplied carburetor flange studs into the intake manifold.
- E. Install a new carburetor gasket.
- F. Install the lower part of the carburetor enclosure over the studs until it sits flat on the intake manifold.
- G. Install a new carburetor gasket over the studs until it sits flat on the carburetor enclosure carburetor mounting surface.
- H. With the carburetor in a suitable work area, bend the damper tab on the main throttle arm until it is flat. (See *Figs. 2, 3, 4.*)
- I. Install the throttle nut through the large hole on the outside of the throttle arm. Using a 10-24 cap screw inserted through a rod end and the #10 fender washer, thread into the throttle nut and tighten. (See *Figs. 5, 6.*)

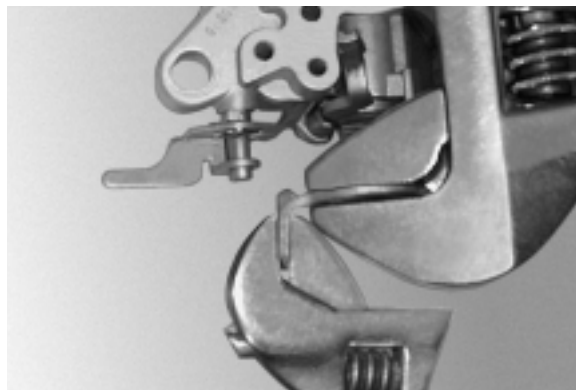


Fig. 2

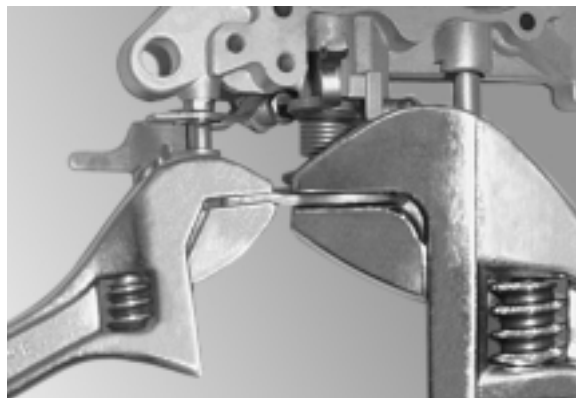


Fig. 3

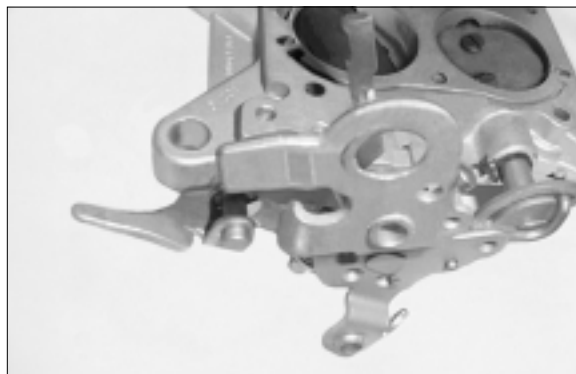


Fig. 4



Fig. 6

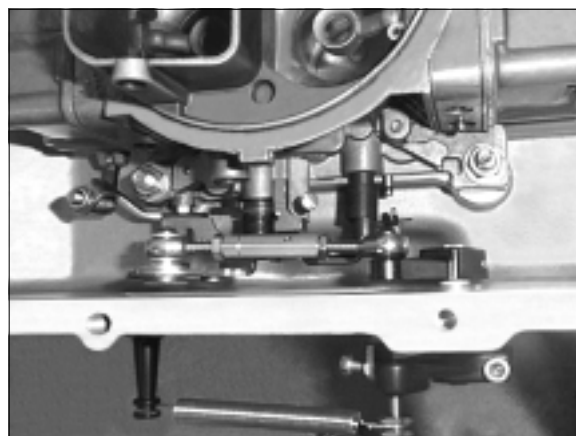


Fig. 5

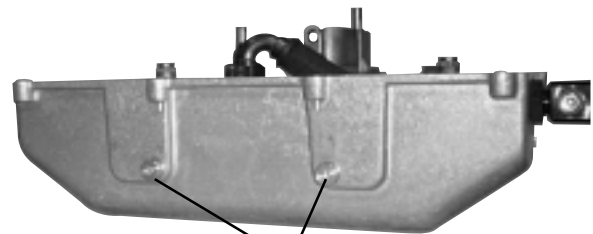
CARBURETOR ENCLOSURE INSTALLATION, cont'd.

- J. Install the carburetor in the enclosure until it sits flat on the flange.
- K. Install two of the brass plugs in each side of the carburetor enclosure. Make sure the copper crush washers are installed between the brass plugs and the enclosure. (See Fig. 8.)
- L. Install the idle bracket on the outside of the enclosure using two 1/2" screws. (See Fig. 9.)
- M. With the one armed throttle arm on the inside of the enclosure, insert the splined shaft through the throttle bushing on the side of the carburetor enclosure.
- N. Install the large brass spacer over the splined shaft until it rests flat against the outside of the enclosure. (See Fig. 9.)
- O. Line up the two armed throttle arm with the inner throttle arm and slide onto the splined shaft.
- P. Tighten the clamp screws on both of the throttle arms. Rotate the throttle linkage to verify free movement. If drag is felt, adjust the distance between the two throttle arms.
- Q. Install the remaining rod end on the outer hole on the inside of the inside throttle arm and tighten screw.
- R. Install the carburetor over the carburetor studs until it sits flat on the gasket.
- S. Install the four 5/16" nuts and washers on the studs and tighten.
- T. With a jam nut installed on each rod end, install the 5/16" coupler shaft between the two rod ends. Adjust the coupler until the angle of the carburetor enclosure throttle arm matches that of the carburetor throttle arm.
- U. Install the supplied 10-32 jam nut on the 1" 10-32 screw and insert into the idle bracket. (See Fig. 9.)
- V. Install the fuel lines on the carburetor. See Fig. 10 if optional Vortech fuel lines are used, and proceed with the following steps:
 - 1. Install the -8 bulkhead nut and O-ring on the bulkhead fitting.
 - 2. Thread the bulkhead fitting into the front hole in the carburetor enclosure.
 - 3. Install the fuel lines into the carburetor bowls loosely.
 - 4. Connect the free end of each fuel line to the -8/-6/-6 TEE.
 - 5. Install the -8 straight hosebarb fitting on the inside of the bulkhead fitting. Install the -8 120° fitting on top of the TEE.
 - 6. Measure and cut the supplied pushlock hose so that it will fit well between the two installed barb fittings.

NOTE: The 10-24 screw should not protrude past the nut. Use washers as necessary to adjust the thread depth.



Fig. 7



Brass Plugs w/Copper Washers
Fig. 8

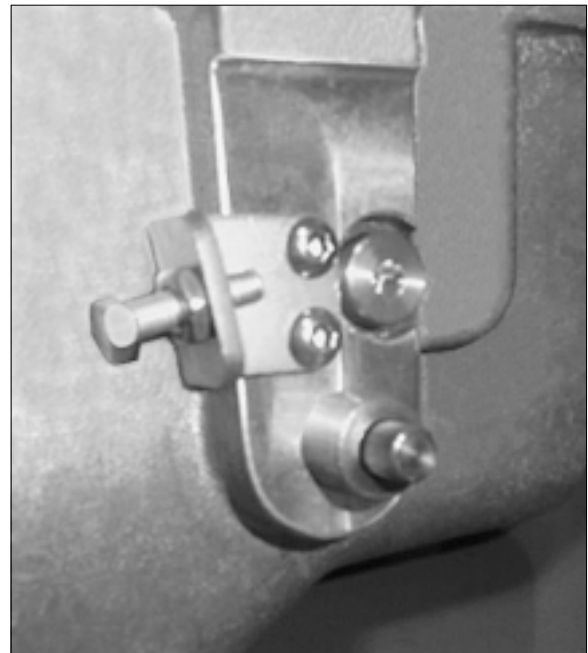


Fig. 9

Carburetor Enclosure Installation, cont'd.

7. Remove the barbed fittings, coat the barbs with grease, and fully insert the barbed fittings in the hose.
 8. Install the fuel hose assembly and tighten all of the fuel line connections.
- W.** Hose connections to the carburetor enclosure will vary widely depending on the application. All hoses that are not used should be plugged with the supplied -3, -8, 1/8 NPT and 1/4 NPT plugs.
- X.** Using the supplied 5/16" cap screws, install the top cover on the enclosure and tighten the screws. The cover opening must be pointed away from the throttle linkage for the idle bracket to be utilized. If the cover opening must point to the side where the throttle linkage is located, remove the idle bracket and brass spacer. Install a 5/16" washer and re-install the outer throttle arm.

NOTE: All -3 and -8 fittings should have an O-ring installed before using.

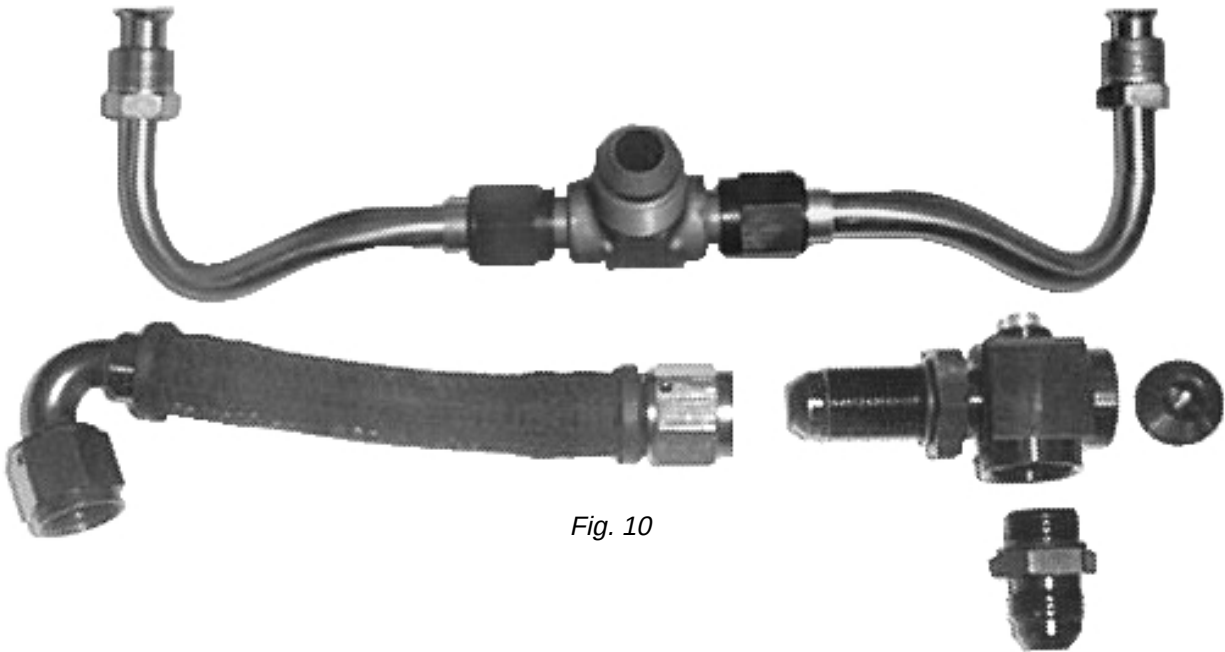


Fig. 10



Fig. 11



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