



ENGINEERING, INC

1650 PACIFIC AVENUE • CHANNEL ISLANDS, CA 93033-9901

## **FOREWORD**

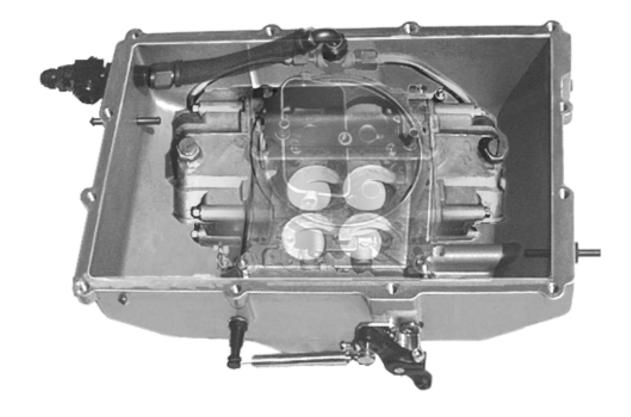
Proper installation of this supercharger kit requires general automotive mechanic knowledge and experience. Please browse through each step of this instruction manual prior to beginning the installation to determine if you should refer the job to a professional installer/technician. Please call Vortech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

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## UNIVERSAL CARBURETOR ENCLOSURE





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

## **PARTS LIST**

Qty.

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

Item Description	Vortech Part #	Qty.	Item Description	Vortech Part #	(
CARBURETOR ENCLOSURE ASSY, WITH	H LINES		SHAFT, 5/16 HEX	8M010-140	1
(4150 HOLLEY LINES)	8M205-020	1	SPACER, ENCL		
	8M105-012	1	NUT, THROTTLE	7F010-026	1
	8M003-011		WASHER, THROTTLE	7J010-687	1
	7A312-212		3/16 ROD END RH WITH NUT	7C010-187	1
	7A312-078		3/16 ROD END LH WITH NUT	7C010-188	1
	7P250-120		10-24 X 3/4 SS BHCS	7C010-077	4
	7P187-102		10-24 X 1/2 SS BHCS		
	7U100-003		SPACER, SHAFT ENCL	2A017-031	1
PLUG -3 BUTTONHEAD W/O-RING	7P187-103	3	10-32 SCREW	7C011-075	1
	7P375-104		10-32 NUT	7F010-033	1
	7J375-024		#10 FLAT WASHER	7J010-001	4
	7A312-252		1/4-20X3/4 SHCS SS	7A250-076	1
	7F312-024		FUEL LINE ASSY, (OPT.) HOLLEY 4150	8M110-020	1
	7J312-000		FRONT FUEL LINE		
O-RING	7U100-008	1	REAR FUEL LINE		
	7P500-087		MALE TEE -8,-6,-6		
	8M110-010		FITTING, -8 BULKHEAD w/O-RING		
BRACKET, IDLE	8M010-010	1	FITTING, -8 BULKHEAD NUT, BLK		
	8M010-030		PLUG BTNHD, AN -8 w/O-RING, BLK		
	8M010-040		FTG, AN -8 MALE w/O-RING, BLK		
	8M010-050		AN -8 HOSE END, STRAIGHT	7P500-083	1
	8M010-070		120° -8 TO 1/2" BARB		
	8M010-080		1/2" FUEL LINE		
	8M010-090		1/8 NPT PLUG		
			O-RING, -8		
OPTIONAL PARTS	PART #	USED F	, , , , , , , , , , , , , , , , , , ,		
			* · · ·		
			OLD AND ENCLOSURE OR BETWEEN ENCLOS	SURE AND CARBURETOR	
	8M001-018USE ON ENCLOSURE I				
	7P250-084USE ON BACK OF ENC				
	7P250-047USE ON ENCLOSURE I				
			CK OF ENCLOSURE FOR DIRECT THROTTLE H		
			SEFORE INSERTING THROUGH CARB ENCLOSU		
			1/2" SLEEVE ON ENCL. CVR, EXIT PERPENDICU		
			1/2" SLEEVE ON ENCLOSURE CVR, EXIT PARAL		
AN -6 - HOLLEY ADPTR	7P375-107THREADS INTO HOLL	EY CENT	ER HUNG FLOAT BOWLS, DASH 6 MALE OUTL	LET	
REQUIRED, BUT NOT INCLUDED	PART#	USED F	OR:		
FUEL LINE HOLLEY	8M110-020 HOLLEY 4150 SERIES	CARRUR	ETER (W/DUAL METERING BLOCKS), SS FUEL	LINE KIT	
FUEL LINE DEMON				LIIVE IVI	

FUEL LINE, DEMON ... .8M110-030......DEMON SERIES CARBURETER, SS FUEL LINE KIT

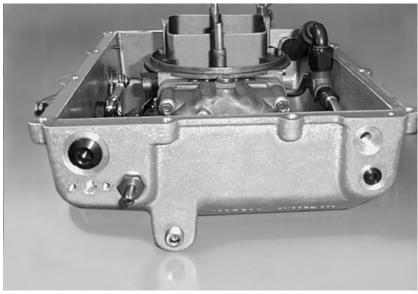


Fig. 1

#### 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.)
- Install the throttle nut through the large hole on the outside of the throttle arm. Using a 10-24 cap screwinserted through a rod end and the #10 fender washer, thread into the throttle nut and tighten. (See Figs. 5, 6.)

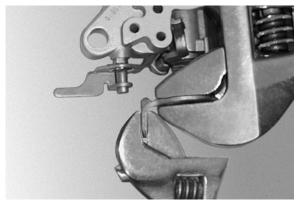


Fig. 2

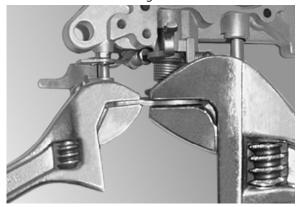
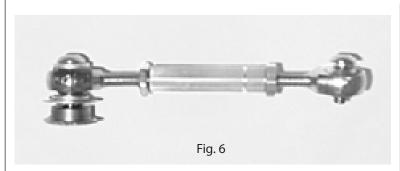


Fig. 3



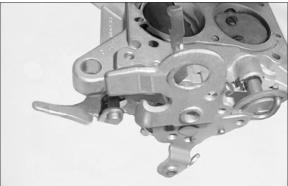


Fig. 4

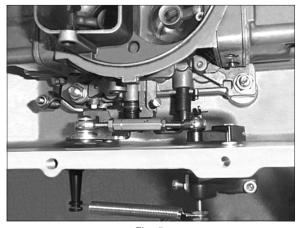


Fig. 5

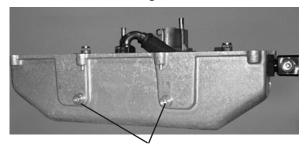
#### CARBURETOR ENCLOSURE INSTALLATION, cont'd.

- 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 stude 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

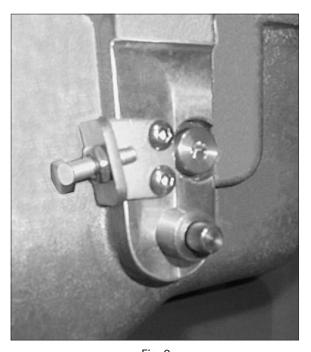
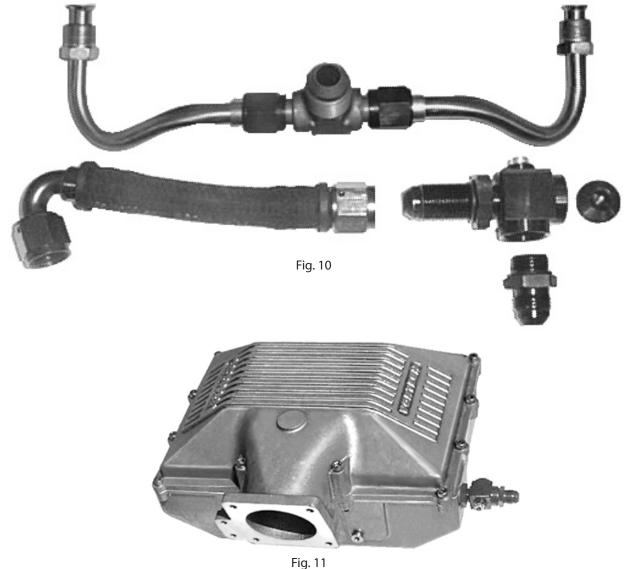


Fig. 9

Carburetor Enclosure Installation, cont'd.

- 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.
- 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.





### **ENGINEERING, INC**

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