



# INSTALLATION INSTRUCTIONS FOR TYPE 1 SINGLE EMPI HPMX & IDF KITS



READ THOROUGHLY ALL STEPS OF THESE INSTRUCTIONS BEFORE BEGINNING THIS INSTALLATION.

**TOOLS AND EQUIPMENT NEEDED:**

Combination, box or open end wrenches (metric + U.S.)  
 Socket set metric  
 Screwdriver (Regular and Phillips)  
 Pliers  
 Gasket Scraper  
 Rags  
 Cleaning Solvent  
 Knife  
 Gasket Sealer  
 3/8" Drive Ratchet  
 3/8" Drive Swivel  
 3/8" Drive Extension (10-12")  
 3/8" open-end Wrench  
 Allen Wrenches  
 Wire Cutters

**PARTS SUPPLIED WITH INSTALLATION KIT:**

1 - Hardware Kit  
 1 - Intake Manifold  
 1 - Carburetor  
 1 - Air Filter Assembly  
 1 - Fuel Line

Your EMPI carburetor(s) come equipped with the Main, Air, and Idle jets most often used in the kit's particular application. Although it is a bolt-on kit, with the necessary hardware, gaskets and linkage to install the carburetor(s) onto the desired motor - The carburetor(s) are jetted not engine size specific. Multiple engine displacements, compression, camshafts, ignition, cylinder heads, and many other items such as operating elevation, will affect the overall requirements of the air/fuel ratio and may require additional jetting and tuning. A wide variety of jets and components are available at your EMPI dealer.

1. Mount manifold to engine case utilizing existing case stud if long enough. If stud is not long enough, remove stud and secure manifold with M8 X 55 bolt and M8 washer supplied. Mount end casting to heads and manifold. (Manifold tubes can be shortened if necessary).
2. Install M8 X 40 studs on manifold and mount carburetor to manifold using supplied gaskets.
3. Mount new flat carburetor arm on carb throttle shaft as shown in **Figure 2** (Approx. the 5 o'clock position). **DO NOT OVER TIGHTEN THROTTLE SHAFT NUTS, 4-5FT/LBS MAXIMUM.** Slide collar with set screw onto shaft then slide shaft with carb arm through ears on manifold. Position lock collar next to left side edge of **FIRST** ear (This will keep linkage from "walking"), loosely tighten. Slide bent throttle cable arm onto shaft with short ear facing to the right, loosely tighten (**See Figure 3**).
4. Mount swivel joint to 1/4-28 stud, then thread 1/4-28 jam nut onto stud. Add other swivel joint to stud. Only one lock nut is necessary to maintain the set length. Attach one swivel end to carb arm on carburetor and the other one to the arm with shaft. The arm with shaft (on manifold) should be pointing at approx. 7 o'clock. Attach throttle cable to throttle arm with barrel nut supplied. Check and adjust all linkage for full travel. **NOTE: WHEN SETTING THE CABLE ADJUSTMENT AT THROTTLE ARM, BE SURE TO SET AT "FULL THROTTLE POSITION". THIS MEANS THE ACCELERATOR PEDAL SHOULD BE AT "FULL STOP" AND THEN CABLE IS SET AT CARBURETOR "FULL THROTTLE STOP". THIS WILL KEEP YOU FROM OVER-EXTENDING YOUR CARBURETOR LINKAGE AND THROTTLE SHAFTS.** Tighten all set screws and nuts.
5. Refer to tuning/adjustment sheet (Included) for any necessary carburetor fine tuning.
6. Install air cleaner assembly.

