

Limited Warranty

SuperTrapp Industries, Inc. of 4540 West 160th Street, Cleveland, Ohio 44135 (SuperTrapp), warrants its SuperTrapp products against defects in factory materials and workmanship for one year from the date of purchase or until ownership in the product is transferred, whichever occurs first, subject to limitations below.

Under this warranty, SuperTrapp will repair or replace defective, covered parts, at option, or provide a replacement unit. SuperTrapp makes no warranty with respect to components of the SuperTrapp product not manufactured by SuperTrapp, including but not limited to the following: clamps, nuts, bolts, packing, boots, and hoses. Repair by SuperTrapp or replacement are the exclusive remedies under this written warranty or any implied warranty. SuperTrapp will not pay for the cost of removal or re-installation of the unit from any vehicle or for delivery and pick up of the unit. To obtain service under this warranty, the original purchaser must give specific written notice to his or her dealer within fifteen (15) days after discovery of any claimed defect in the unit, and must return such unit to the dealer within a reasonable time thereafter at the cost of the original purchaser.

This limited warranty is the only express warranty applicable to SuperTrapp product. Any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of this written warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

SuperTrapp shall not be responsible for any consequential, special or incidental damages of any nature including but not limited to the loss of use of any vehicle on which the unit may be installed and the cost of obtaining another substitute product. Some states do not allow the exclusion or limitation of incidental or consequential damages so this limitation or exclusion may not apply to you.

This warranty is valid only if the proper size of the unit is installed, operated and maintained in accordance with factory instructions. This warranty does not cover any damage caused by (i) modification or alteration of the unit; (ii) improper installation, maintenance, operation, or use; (iii) accident; (iv) servicing or repair by anyone other than SuperTrapp or its authorized agents.

CAUTION! Warranty does not cover chrome discoloration. You can minimize this problem by thoroughly cleaning and polishing the system before initial start-up, being sure the carburetion jetting is not too lean, and preventing long periods of engine idle.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Outside the United States, a different warranty may apply. For details, please contact your authorized SuperTrapp distributor.

Customer Service

Call Dealership or Point of Purchase in which the exhaust was purchased for questions on returns, repairs, or fit and finish of SuperTrapp products.

Call SuperTrapp Customer Service for technical questions between 8am-5pm Eastern Time, (216) 265-8400, or by fax, (216) 265-0130.

Since 1975, SuperTrapp has built a reputation on innovation and technical superiority. SuperTrapp R&D is constantly designing, testing and improving; providing you with the latest in state-of-the-art performance engineering. SuperTrapp 2:1 SuperMags are the culmination of hundreds of hours of street, track and dyno-development. They will provide you with unmatched performance and lasting, trouble-free service.

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SuperTrapp 2:1 SuperMags

Exhaust System / Installation Instructions

828-71454 / Chrome / Harley-Davidson FLST/FXST Softail, FXD Dyna

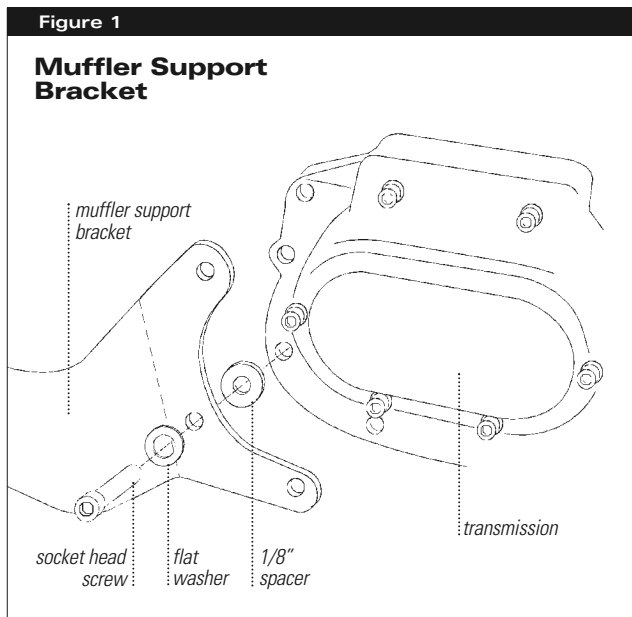
827-71454 / Black Ceramic / Harley-Davidson FLST/FXST Softail, FXD Dyna

Stock System Removal

- 1 Remove the stock exhaust system as described in your owner's manual. Retain the flange nuts for the new system installation. *DYNA MODELS, retain carriage bolt and lock nut from P-clamp on front pipe.
- 2 Remove the stock snap rings and flanges from the head pipes and retain for the new system installation.
- 3 *FLST MODELS ONLY. Remove right side floorboard. The floorboard will be re-installed once the new system installation is complete.
- 4 Remove the stock, exhaust, mounting bracket.
- 5 The exhaust gaskets should be inspected and replaced to achieve a proper seal. Replacement gaskets are available from your Harley-Davidson dealer.

System Installation

- 1 Remove the two bottom and one top rear transmission bearing housing fasteners. (See Figure 1.)
- 2 Using new socket head screws (supplied), install the new muffler mount support bracket. You MUST use the supplied screws. Failure to do so will result in damage to the transmission. Torque the screws to Harley Davidson specifications. (5/16" = 13-16 ft. lbs.) (1/4" = 7-9 ft. lbs.)
NOTE: On all models without the rear brake light switch mounted to the transmission you MUST use the 1/8" spacer supplied with the system (See Figure 1). Failure to add the spacer will cause damage to the transmission and/or the muffler support bracket.
*SOFTAIL models with the transmission mounted brake light switch DO NOT use the 1/8" spacer. The switch bracket will act as the spacer.
- 3 *DYNA MODELS ONLY. Slide the P-clamp (supplied) onto the front head pipe. The square hole should be facing up.
- 4 Install stock flanges on both head pipes.
- 5 Mount the head pipes using the stock nuts. DO NOT TIGHTEN.
- 6 *DYNA MODELS ONLY. Align the P-clamp with the stock support bracket mounted under the timing cover. Install the stock carriage bolt through the P-clamp and mounting bracket and install the stock nut. DO NOT TIGHTEN.
- 7 Slide two T-bolts (supplied) into the slotted bracket on the back of the muffler and install the T-bolt clamp (supplied) onto the inlet end of the muffler.
- 8 Slide the muffler onto the outlet end of the head pipe. Align the T-bolts with the holes in the mounting bracket. Softail models use the top holes and Dyna models use the bottom holes. Install the flat washers and locknuts onto the T-bolts. DO NOT TIGHTEN.
- 9 Align the system and tighten all fasteners and clamps starting at the muffler and working up to the flange nuts. On Dyna models tighten the P-clamp bolt last.



Heatshield Installation

- 1 Slide the hose clamps into the slots on the back of each shield. Orient the clamps to gain the easiest access to tighten them while in position on the head pipe.
- 2 Install the heat shields on the head pipes and collector. The tabs on the front of the collector shield must fit into the clips on the end of the front and rear shields.
- 3 Tighten the shields starting with the rear shield, then the collector shield, and finally the front shield. Align the shields as you tighten to minimize the gap between the head pipe and collector shields.
- 4 *FLST SOFTAILS ONLY: Re-install the right side floorboard.

*IMPORTANT: CHECK AND RETIGHTEN ALL FASTENERS AFTER THE FIRST COUPLE OF RIDES, THEN AT EACH SCHEDULED MAINTENANCE.

Tuning Tips

We suggest using 20 discs with the closed end cap. Use a Screaming Eagle air box kit and a Dynojet Thunderslide jet kit.

The following are the settings at which we achieved the optimum power and torque on our 2000 TC88B @ 792ft. and 69.8 deg. You may need to fine tune the fuel screw, main jet, and slow jet to meet your local conditions.

We suggest:

Main Jet: 180-195

Needle clip position from top groove: Position 5

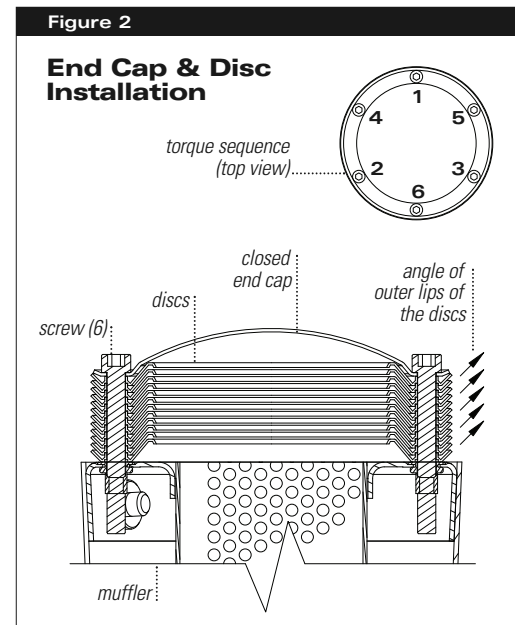
Fuel Screw: 2 turns out from bottomed

Slow Jet: 50, 55, or 60 (See your dealership)

*We also had good results with the Screamin Eagle split electrode type spark plugs and wire kit.

We DO NOT suggest removing the muffler packing material to "get more noise". Removing the packing will result in a loss of power due to the sound waves not being absorbed into the material thus causing a restrictive wave in the core. It will also affect the jetting and in most cases cause a lean condition.

Removing the closed end cap and running just the polished end cap, with or without discs, will also cause a lean condition and a loss of power. If you must have more noise, we suggest you get the optional 4" open end cap (p/n 405-3046) and run 9 discs. This set-up has the same flow as the 20 discs and the closed end cap but will add more noise.



End Cap & Disc Installation

- 1 Stand the muffler on the bench with the outlet end pointing up.
- 2 Place the appropriate mount of discs and end cap on the outlet of the muffler. The flat surface should be against the core with the outer lip angled away from the muffler. Align the (6) screw holes with the threaded inserts in the muffler outlet (see Figure 2.)
- 3 Insert the screws through the end cap and discs and into the threaded inserts in the muffler outlet (see Figure 2.)
- 4 Tighten the screws evenly in a cross pattern (see Figure 2.) 4" discs should be tightened to 15-25 in/lbs. and 5" discs to 40-50 in/lbs. or once the screw head contacts the end cap tighten 2 full turns.