

*Since 1975 SuperTrapp has built a reputation on innovation and technical superiority. SuperTrapp R&D is constantly designing, testing, and improving; our goal is to provide you with the latest in state-of-the-art performance engineering.*

#### ACCESSORY AND REPLACEMENT PARTS

3" Disc 6-pack	304-6506
3" Disc 12-pack	304-6512
Screw 3-pack with Hi-Temp Lube	304-7203
Hi-Temp Lube 3-pack	090-2622
Fiberglass Repack Kit	400-4020
3" 3-bolt Closed End Cap	304-3033
3" 3-bolt Open End Cap(Competition Only)	304-3034
Replacement Core with Fiberglass	300-8179
Hardware Kit	010-7851
Replacement Body	027-7851
Tapered End Cap	308-3340
Slash Cut End Cap	308-3560
2-1/2" Turndown End Cap	308-3608
3-1/2" Turndown End Cap	308-3635
Fishtail End Cap	308-3750

#### CUSTOMER SERVICE

If you have any problems or questions, please call our technical support staff between 8:00 AM - 12:00 PM and 1:00 PM - 5:00 PM Eastern Time, (216) 265-8400.

# SuperTrapp

## 3" INTERNAL DISC SLIP-ONS

**HARLEY-DAVIDSON  
FLH/FLT MODELS 1985-94**

**Part Numbers: 628-78050 Turndown, 628-78051 Fishtail,  
628-78052 Tapered**



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## STOCK SYSTEM REMOVAL

1. Remove saddlebags to gain access to muffler mounting bolts.
2. Remove inlet clamp bolt and 2 mounting bolts (each side).
3. Remove mufflers.

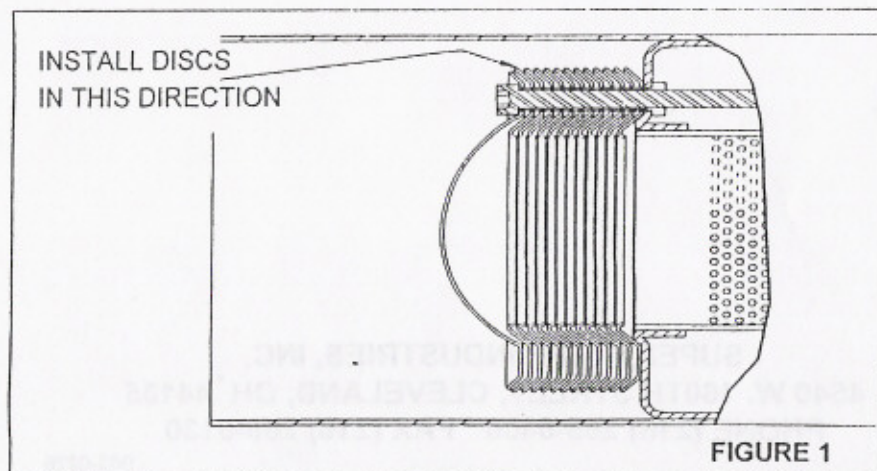
## SUPERTRAPP INSTALLATION

1. Install the round muffler gaskets onto the inlets of the SuperTrapp silencers (replace if necessary).
2. Slide clamps over inlets but leave bolts out for now.
3. Install silencers onto headpipes and line up mounting brackets. Tighten the two mounting bolts.
4. Line up clamps over rolled edge of inlets, install bolts and tighten.
5. Install saddlebags.

## DISC AND END CAP INSTALLATION

Install the diffuser discs with their outlets pointing toward the end cap as shown in Figure 1. To ease installation, first insert the 3 screws (with a small amount of Hi-Temp Lube) through the end cap and disc stack. Install the entire assembly into the muffler using the supplied T-Handle Hex Key inserted into one of the screw heads as a handle. Tighten screws in a cross-pattern to approximately 45 in-lbs. It is essential that they are torqued evenly. Always use Hi-Temp Lube when installing or changing discs.

Insert end caps into mufflers and install button head screws and lock washers using Hi-Temp Lube and hex key provided. Note: Turnout style end caps can be positioned with the outlet either straight down or out to the side.



## GENERAL TUNING

SuperTrapp exhaust systems are uniquely tunable. Back-pressure and noise level are controlled by the number of discs used.

NOTE: Increasing the number of discs creates a larger exhaust outlet area and, therefore, causes less back-pressure but more noise. Conversely, removing discs increases back-pressure but reduces sound level.

A stock engine with stock jetting will not benefit from using more than 12 discs. Using more than 12 discs will require richer jetting to prevent a lean condition which will cause chrome discoloration. Best all around performance will be achieved with an aftermarket air cleaner and 18-22 discs.

With the Internal Disc design, there is a practical limit to the number of discs that can be used. The reason is, as discs are added, the combined gap area of all the discs will eventually exceed the flow area between the outside of the discs and the inside of the muffler shell. Using more than 22 discs will not decrease back-pressure further because the flow is limited by the gap around the discs. The Open End Cap, Part No. 304-3034, is then recommended for Competition Use Only if improved flow is required.

**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.**