Thank you for purchasing the ATS Stainless Steel Exhaust System. This manual is to assist you with your installation of the system. If you are installing this system for a customer, *please pass this manual on to your customer* for future reference.

1) **Removing the old Muffler and Tailpipe**

   Using a Sawzall, cut off the down pipe approximately 6” in front of the transmission cross member. Now cut off the tailpipe approximately 3” from the rear of the muffler. Now, using a spray lubricant, lubricate the four exhaust hangers that hold the tailpipe and muffler into the stock rubber hangers. Next, using a pry bar, remove the four exhaust hangers from the rubber exhaust mounts. Remove the muffler and tailpipe sections from the vehicle.

2) **Removing the old Down Pipe**

   Using a deep 7/16” socket, remove the v-band clamp that holds the down pipe to the turbo. If the v-band clamp will not release then use a rubber mallet to tap the cut end of the down pipe, this will usually free the clamp.

   **Note:** On some early 1999 models it is important to relocate the ground strap on the back of the engine block to prevent the down pipe from hitting. Check the clearance before securing the down pipe.

3) **Installing the new Down Pipe**

   Install the ATS 4” Down Pipe using the stock v-band clamp. Use a deep 7/16” socket to tighten the clamp. Once the down pipe is snug, make sure that the down pipe outlet is straight underneath the vehicle. When straight, tighten the clamp completely.

4) **Installing the new Offset Pipe**

   Install the short end of the offset pipe toward the front of the vehicle. Using the 4” butt-joint band clamp (CBC400L) supplied in the kit, connect the down pipe and offset pipe together using a 9/16” socket. Now install the front L-hanger (ER400SS) using the factory rubber mounts and tighten using a 9/16” box-end wrench.

   **Note:** Mark the exhaust tube with a magic marker 1 ½” from the end of the pipe. This makes it easier to center the butt joint clamp before tightening.
5) **Installing the new Straight Pipe**

   Next, install the 4” Stainless Straight Pipe by sliding the expanded end 3” onto the rear offset pipe. Use a narrow band clamp and tighten using a 9/16” socket. Next, install the rear L-hanger (ER400SS) using the factory rubber mounts and tighten using a 9/16” socket.

   **Note:** It may be necessary to cut the straight pipe to fit your model.
   - Crew Cab Long Box: No cutting required
   - Crew Cab Short Box: Cut 16” off rear of straight pipe
   - Extended Cab Long Box: Cut 14” off rear of straight pipe
   - Extended Cab Short Box: Cut 30” off rear of straight pipe

6) **Installing the new Muffler**

   Install the new front muffler hanger into the factory rubber hanger. Next, install one new 4” narrow band clamp onto the 4” side of the straight pipe. Slid the new stainless muffler onto the 4” straight pipe with the single inlet side of the muffler facing towards the front of the vehicle. Position the muffler so that the dual outlets are horizontal with the ground. Now secure the narrow band clamp using a 9/16” socket.

7) **Installing the rear muffler hanger**

   Install the T-hanger into the factory rubber mount. Set one half of the dual split clamp on top of the dual muffler outlets and position it directly under the T-hanger so that the 3/8” holes line up. Insert the 3/8” x 6 bolt down the through the 3/8” hole in the T-hanger and through the 3/8” hole in the dual split clamp. Now place the second half of the dual split clamps up from the bottom of the dual muffler outlets and through the 3/8” x 6 bolt. Secure this assembly using the 3/8” shoulder bolt, but do not fully tighten at this time.

8) **Installing the Passenger-side Tailpipe**

   Install one new 4” narrow band clamp over the muffler outlet. Now slide the short end of the new 4” stainless tailpipe up and over the rear axle and slide it into the muffler end. Next, install the rear tailpipe hanger and install the two 9/16” nuts and leave loose. Stand behind the vehicle and make sure that the end of the tailpipe is parallel with the bottom of the vehicle, if not, rotate the tailpipe so that this can be accomplished. Using a 9/16” socket tighten all of the 4” clamps that were left loose.

9) **Installing the Driver-side Tailpipe**

   First attach the supplied factory hanger. Position the hanger on the frame in the same manner but just opposite of the passenger’s side hanger. You will need to drill two 3/8 holes in the frame to complete this step. When hanger has been secured, repeat step #8 for installation of the driver-side tailpipe.

10) **Installing 5” Stainless Tips**

    First slide a 4” narrow band clamp onto the tailpipe, then slide the 5” stainless tip onto the tailpipe and position it to fit your personal preference. Now, slide the narrow band clamp
over the end of the 4” expanded area and tighten clamp using a 9/16” socket. Repeat for the other side.

**Have Any Questions?**

Thank you for purchasing the ATS Stainless Steel Exhaust System. Please check our website at http://www.atsdiesel.com for technical support and other performance products such as the Five Star torque converter, ATS High Performance Valve Body and ATS High Performance Transmission along with our full line of power enhancers. Please call or e-mail our Technical Service Department, 8:00am to 5:30pm Mountain Standard Time, Monday through Friday.

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We strive to make our instructions as clear and complete as possible. To achieve this, our instructions are under constant construction. We encourage you to visit our Technical Support Website (http://www.atsdiesel.com/ATSWebsite/Technical.asp) to check for the most up-to-date manuals and diagrams as well as other information. If you have any suggestions as to how we can improve this installation.