

DRIVEN DIESEL PERFORMANCE  
99-03 7.3L HIGH PRESSURE CROSSOVER



\*DD-73L-HPX-0BS\*



**HIGH PRESSURE CROSSOVER (HPX)**  
**Fits 94-97 7.3L Powerstroke Diesel**



# Installation Guide



**INSPECT CONTENTS OF THIS KIT  
THOROUGHLY **BEFORE** STARTING  
THE INSTALLATION PROCESS!**

**IF YOU FIND A PROBLEM WITH YOUR PACKAGE:**

- **KEEP ALL OF THE PARTS & PACKAGING TOGETHER**
- **DO **NOT** ATTEMPT INSTALLATION OF THE PRODUCT**
- **PROMPTLY NOTIFY YOUR **SELLING DEALER****
- **PROVIDE DEALER WITH PHOTOGRAPHS IF REQ'D\***
- **WAIT FOR FURTHER INSTRUCTIONS FROM DEALER**

**\*WE RESERVE THE RIGHT TO REQUEST  
PHOTOGRAPHS OF PACKAGING OR PARTS  
IN ORDER TO PROPERLY ADDRESS ANY  
SITUATION INVOLVING EITHER DAMAGED  
OR MISSING ITEMS.**

**THANK YOU FOR YOUR COOPERATION!**

**T**hank You for purchasing the Driven Diesel 1994-1997 7.3L Ford Powerstroke **HIGH PRESSURE CROSSOVER (HPX) LINE!** Please read and familiarize yourself with this manual fully before proceeding with the installation of the kit. Also, always work safely. Make sure that there is plenty of light and adequate ventilation, and allow yourself enough time to complete the installation. After reading these instructions, if you feel that the installation is beyond your capability, please have this kit installed by a qualified mechanic.

## HIGH PRESSURE CROSSOVER PARTS IDENTIFICATION

<u>Qty:</u>	<u>Part Number:</u>	<u>Description:</u>
1	HPX Line	Pre-Bent Stainless Steel High Pressure Crossover Line
2	Fittings	Loosely Pre-Installed Cylinder Head Fittings
1	Instructions	Full Color Instruction Manual

## REQUIRED TOOLS

5/8" Open End Wrench (Long)	5/8" Open End Wrench (Short)
Ratchet w/6" Extension & 5/8" Socket	Short Pry Bar
Clean Shop Towels or Rags	

## INSTALLATION PROCEDURE

**IMPORTANT NOTES :** Your HPX line is shipped "pre-assembled", **the ferrules are pre-crimped** on each end of the tube to simplify installation and ensure a secure connection. You will be able to remove the o-ring fitting from the end of each tube, but **the ferrules and the tube nuts will not be removable.**

Inspect and clean the HPX line before installation. We recommend blowing through the tube with shop air to ensure that it is clean. If you feel like the line may have gotten bent in transit, please reach out to us before attempting installation.

We highly recommend performing this installation on a COLD engine. You will be less likely to burn yourself, and cold oil will not run as quickly and make as much of a mess.

You will need to remove your engine cover (if still in use) to gain clear access to the high pressure oil ports in the cylinder heads.

1. Locate the High Pressure Oil Rail Plugs that are over cylinder #4 (driver side) and #5 (passenger side). They will be the 2<sup>nd</sup> Plug from the front on the driver side and the 3<sup>rd</sup> Plug from the front on the passenger side. Figures 1 and 2 show their locations.
2. Remove both plugs and use clean shop towels or rags to absorb any oil that runs out.
3. Thoroughly clean around both of the open ports, making sure that there is no engine grime, old o-ring fragments or any other debris on the sealing surface.
4. Install the O-Ring end of the HPX line fittings into each open port in the heads and tighten. Torque to **15-18 ft/lbs MAX**. **DO NOT OVERTIGHTEN THESE FITTINGS!** The o-ring does the sealing, overtightening may damage the threads or o-ring, tighter is NOT better!
5. Insert the HPX line into the engine valley from the passenger side, feeding it between the turbocharger and the intake Y manifold.
6. Place a small drop of removable thread lock compound onto the threads of each of the cylinder head fittings.
7. Insert each end of the HPX tube into the threaded boss until the compression ferrule bottoms out inside the boss fitting. Check for proper tube alignment (tube centered in each boss fitting) and make sure the tube is not resting on any engine components.
8. Thread each tube nut onto each boss fitting until finger tight.
9. Use a 2<sup>nd</sup> wrench to hold the fitting in the cylinder head while tightening the tube nuts! Each tube nut should be tightened at least  $\frac{3}{4}$  to  $1\frac{1}{4}$  full turns from finger tight to ensure proper seal.
10. Clean up any oil that spilled during the installation.
11. Start the engine and check for leaks. Resolve any leaks if necessary.

Be aware that installing this HPX line introduced some air into the high pressure oil rails, so a longer crank time may be noticed until the air is purged from the rails (generally 25-50 miles of driving).
12. It isn't a bad idea to keep your factory high pressure oil rail plugs. The time may come that you need to remove the HPX line to service some part of the engine, reinstalling the plugs helps make the job cleaner.
13. Reinstall your engine cover (if applicable).

**CONGRATULATIONS! YOU'VE COMPLETED THE  
INSTALLATION OF THE DRIVEN DIESEL HPX LINE!**

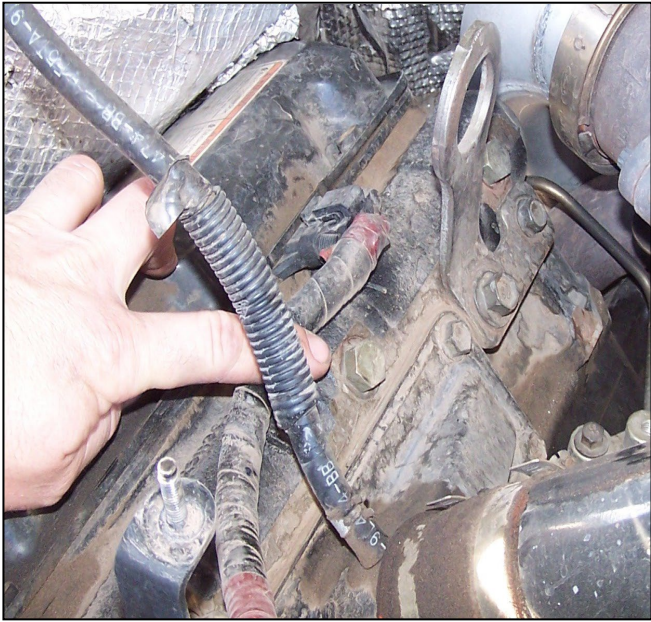


Fig. 1 - Passenger Side Oil Rail Plug

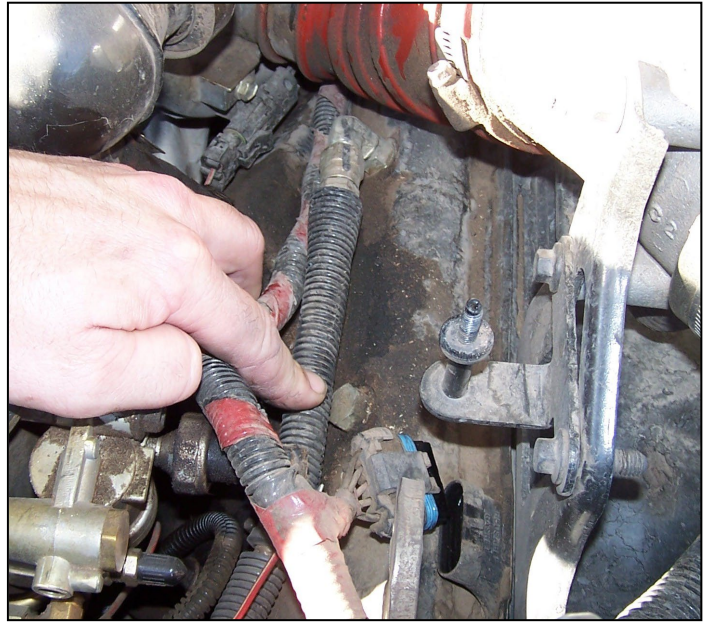


Fig. 2 - Driver Side Oil Rail Plug



Fig. 3 - Using a Pry Bar to Bend Hose Clamp



Fig. 4 – Passenger Side HPX Fitting Installed

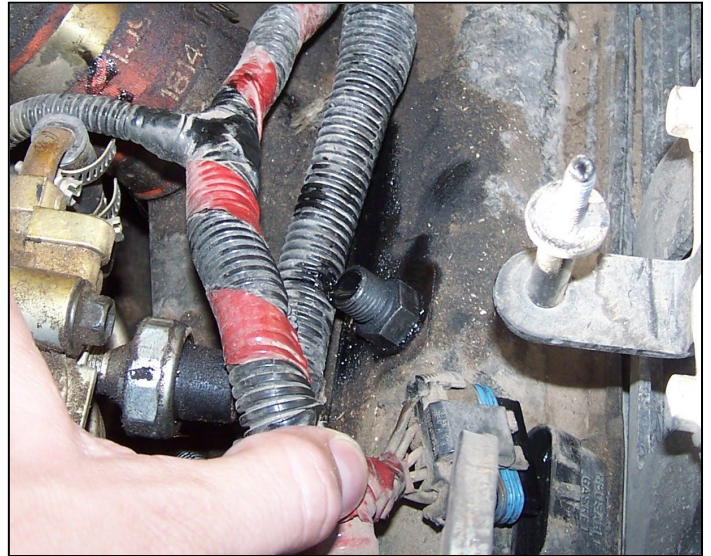


Fig. 5 – Driver Side HPX Fitting Installed



Fig. 6 – Passenger Side HPX Tube Installed

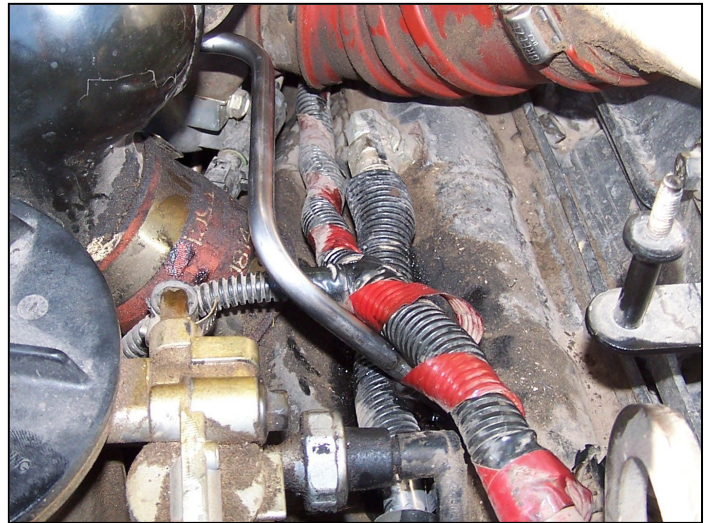


Fig. 7 – Driver Side HPX Tube Installed

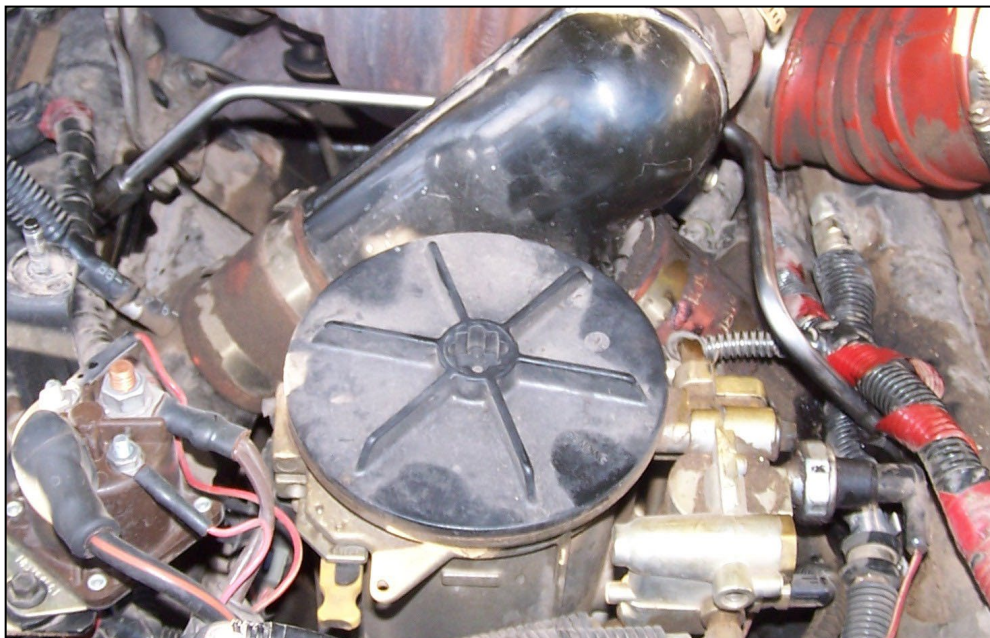


Fig. 8 – HPX Tube Fully Installed

## S DIESEL, LLC (dba STRICTLY DIESEL AND/OR DRIVEN DIESEL\*) WARRANTY AND LIABILITY POLICY

**MANY OF THE PRODUCTS SOLD BY S DIESEL, LLC, ARE DESIGNED TO INCREASE VEHICLE PERFORMANCE...USE AT YOUR OWN RISK!**

**Do not install or use any product(s) purchased from S DIESEL, LLC ("S DIESEL") until you have carefully read the following Warranty and Liability Policy (the "Warranty").**

### PRODUCT WARRANTY POLICY

Subject to the limitations, exclusions, and qualifications set forth below, the product or the products made and sold by S DIESEL (the "S Diesel Product" or "S Diesel Products") are warranted to Buyer as set forth in this Warranty. The installation of the S Diesel Products indicates that Buyer has read, understands and agrees to the terms and conditions of this Warranty. Any warranty on products that are made by another manufacturer which are resold by S DIESEL to Buyer is made to Buyer by the manufacturer of such products in accordance with and subject to all conditions and limitations of the manufacturer's warranty in effect on the date of the purchase by Buyer. S DIESEL makes no warranties to Buyer, express or implied, with respect to such products that are made by another manufacturer.

### LIMITED WARRANTY

The S Diesel Products (except S Diesel Products specified to have different warranty terms) are warranted to be free from defects in material and workmanship, under normal use and service for a period (the "Product Warranty Period") of one (1) year from date of delivery to Buyer, unless S DIESEL performs the work installing the S Diesel Products, in which case the Product Warranty Period shall be extended to equal the Service Warranty Period (as defined below under "SERVICE WARRANTY POLICY"). S DIESEL's liability under this Warranty is limited to repair or replacement at its option, subject to the provisions set forth herein, of any S Diesel Products which upon examination S DIESEL are found to be defective. Buyer shall prepay cost of transportation of defective S Diesel Products to S DIESEL for inspection.

S DIESEL shall not have any responsibility under this Warranty unless (1) the defect in an S Diesel Product results in a claim arising within the Product Warranty Period, measured from the date of delivery to Buyer, (2) the S Diesel Product, if installed by an installer other than S DIESEL, was properly installed, (3) the S Diesel Product was normally maintained and not subject to misuse, negligence or accident, and (4) the S Diesel Product, system components and/or accessories were not repaired or altered in such a way that in the judgment of S DIESEL the S Diesel Product's performance or reliability was adversely affected.

### EXCLUSIONS

Any of the above warranties by S DIESEL shall not apply if Buyer's vehicle is in an accident, misused, neglected, altered from the S Diesel Product's manufacturer original designs or specifications or serviced in connection with a warranty claim hereunder without prior written approval of S DIESEL.

### REMEDIES EXCLUSIVE

Repair or replacement of defective S Diesel Products in accordance with the Limited Warranty above shall be Buyer's exclusive remedy for and shall constitute satisfaction of any and all liabilities of S DIESEL with respect to any defect in any S Diesel Product whether based in warranty, contract, tort, negligence, strict liability or otherwise.

### DISCLAIMERS AND LIMITATIONS

**THE EXPRESS WARRANTIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, CONDITIONS AND TERMS AS TO QUALITY OR FITNESS OF ALL PRODUCTS SUPPLIED BY S DIESEL TO BUYER, WHETHER WRITTEN, ORAL OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH OTHER WARRANTIES, CONDITIONS AND TERMS ARE HEREBY DISCLAIMED AND EXCLUDED BY S DIESEL. IN NO EVENT SHALL S DIESEL BE LIABLE FOR ANY LOSS OF ACTUAL OR ANTICIPATED PROFITS, LOSS OF ANTICIPATED BUSINESS, COST OF SUBSTITUTE PRODUCTS, LOSS OF USE OR DOWNTIME COSTS OR DELAY CLAIMS (WHETHER DIRECT OR INDIRECT) NOR FOR ANY OTHER SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATING TO THIS WARRANTY OR THE SUPPLY OF S DIESEL PRODUCTS TO BUYER, WHETHER BASED IN WARRANTY, CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE. BUYER ACKNOWLEDGES THAT (A) THE PRODUCTS PURCHASED FROM S DIESEL WILL BE USED IN CONNECTION WITH ACTIVITIES, UNDER EXTREME CONDITIONS AND/OR SUBJECT TO MODIFICATIONS REQUESTED BY BUYER FOR WHICH THE PRODUCTS MAY OR MAY NOT BE SUITABLE; (B) THE WARRANTY OF SUCH PRODUCTS FOR PERFORMANCE IN CONNECTION WITH SUCH ACTIVITIES, UNDER SUCH EXTREME CONDITIONS AND/OR SUBJECT TO SUCH MODIFICATIONS REQUESTED BY BUYER IS NOT POSSIBLE; AND (C) ANY MANUFACTURER'S WARRANTY MAY BE VOIDED BY USE OF THE PRODUCTS IN CONNECTION WITH SUCH ACTIVITIES, UNDER SUCH EXTREME CONDITIONS AND/OR SUBJECT TO SUCH MODIFICATIONS REQUESTED BY BUYER. BUYER ACKNOWLEDGES THAT THE INSTALLATION OF ANY S DIESEL PRODUCTS THAT ARE NOT LEGAL FOR USE ON POLLUTION CONTROLLED MOTOR VEHICLES IS DONE SOLELY AT THE REQUEST OF BUYER AND ALL RESPONSIBILITY FOR ANY EFFECTS ON THE ORIGINAL VEHICLE MANUFACTURER'S WARRANTY, ABILITY TO PASS ANY EMISSIONS INSPECTIONS OR FOR ANY FINES THAT MAY OCCUR DUE TO THE REMOVAL OF FEDERALLY MANDATED EMISSION CONTROL EQUIPMENT IS ON BUYER.** No employee or representative of S Diesel has the authority to make any representation, promise or agreement which in any way varies from the terms and conditions of this Warranty. No suit or claim based on any cause of action, regardless of form, arising out of or relating to this Warranty or any of the S Diesel Products supplied by S DIESEL may be brought by Buyer or anyone claiming by, through or under Buyer against S DIESEL more than one year after the date that such cause of action arose.

**IN THE EVENT BUYER DOES NOT AGREE WITH THE TERMS AND CONDITIONS OF THIS WARRANTY, BUYER MAY PROMPTLY RETURN THE PRODUCT TO S DIESEL FOR A FULL REFUND. THE PRODUCT MUST BE IN NEW, UNUSED AND RESELLABLE CONDITION, BE RECEIVED WITHIN FIFTEEN (15) DAYS OF THE ORIGINAL PURCHASE AND BE ACCOMPANIED BY A DATED PROOF OF PURCHASE (RECEIPT). PRODUCTS RETURNED IN NEW, UNUSED AND RESELLABLE CONDITION MAY STILL BE SUBJECT TO RESTOCKING/REPACKAGING FEES.**

**THE INSTALLATION OR USE OF ANY PRODUCT PURCHASED FROM S DIESEL INDICATES THAT BUYER HAS READ, UNDERSTANDS AND AGREES TO THE TERMS AND CONDITIONS OF THIS WARRANTY.**

### ASSIGNABILITY OF WARRANTY

This Warranty is for the exclusive benefit of Buyer and is not assignable.

### WARRANTY CLAIMS PROCEDURE

Warranty claim forms can be printed from the company websites (<http://www.drivendiesel.com> (Products) and <http://www.strictlydiesel.com> (Services)). A properly completed warranty claim form and a copy of the invoice for any defective Product or Service must be received by the Seller within the earlier of 30 days after the expiration of the Warranty Period or the incident giving rise to the claim. To qualify for an adjustment under this Warranty a defective Product must be returned prepaid to the Seller for inspection and must be accompanied by a dated proof of purchase receipt. In addition, the serial number of the defective Product, if any, must match the serial number on Buyer's invoice. All Warranty claims are subject to approval by the Seller and/or the Product's manufacturer. Buyer must pay all applicable service charges and taxes. Defective Products accepted for warranty compensation become the property of the Seller. To qualify for an adjustment under this Warranty a vehicle upon which S Diesel Services have been performed must be delivered to the Seller during Seller's hours of operation for inspection and must be accompanied by a dated proof of purchase receipt.

### WAIVER

Any failure of the part of S Diesel to insist on strict compliance with the Warranty Provisions shall no way constitute a waiver of such right. No claim or rights arising out of a breach of the Warranty Provisions by Buyer may be discharged in whole or in part by a waiver of the claim or right, unless the waiver is in writing signed by an authorized representative of S Diesel. S Diesel's waiver or acceptance of any breach by Buyer of any provisions of the Warranty Provisions shall not constitute a waiver of or an excuse for nonperformance as to any other provision of the Warranty Provisions nor as to any prior or subsequent breach of the same provision.

### APPLICABLE LAW

The Warranty shall be governed by the laws of the State of Arizona (excluding Arizona law with respect to conflicts of law).

\* Driven Diesel was formerly known as ITP Diesel, LLC and Sinister Diesel, LLC.