



JOHN WOOD VALVE BODY INSTALLATION INSTRUCTIONS

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IMPORTANT NOTE!

Installation of this product requires an INCH/POUND torque wrench. Please pay very close attention to the torque specifications in this document, there is a HUGE difference between 100in/lb and 100ft/lb!!! Using the wrong tool and wrong torque value will severely damage your transmission!

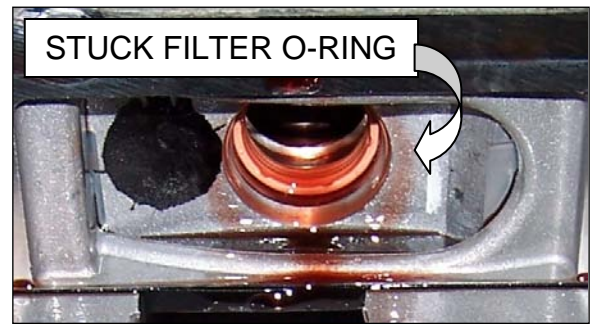
Necessary Tools & Supplies:

- Ratchet Wrench
- INCH/Pound Torque Wrench
- FOOT/Pound Torque Wrench
- Misc. Metric Sockets and Extensions for Above
- Approximately 8qts New Transmission Fluid (Assuming Stock Trans Pan)
- New Transmission Filter (Highly Recommended)
- 15qt Fluid Drain Pan

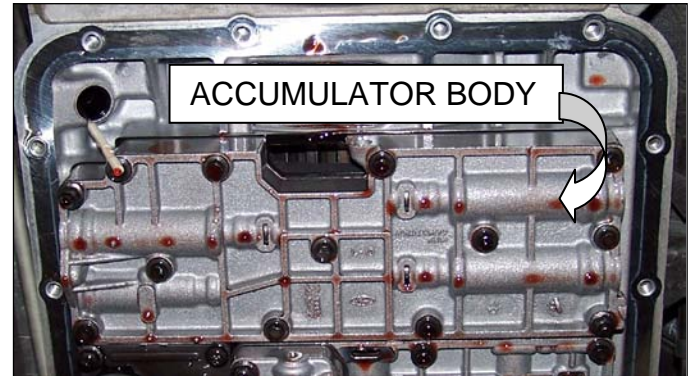
1. Park the truck on a level surface. If necessary, jack the truck up to gain access to the underside. Use of jack stands and wheel chocks is highly recommended, safe work practices are your responsibility. (Obviously some 4x4 trucks won't need to be jacked up)
2. Place a sufficiently sized drain pan under the transmission and remove the drain plug to drain the fluid. Once the fluid has drained from the pan, reinstall the drain plug. You will need to leave the drain pan under the transmission as fluid will continue to drain from the transmission during the valve body swap.
3. Using a 10mm socket, remove the transmission pan bolts. BE CAREFUL TO LOWER THE TRANSMISSION PAN STRAIGHT DOWN OVER THE DRAIN PAN, THERE MAY STILL BE FLUID IN IT THAT NEEDS TO BE DUMPED OUT!
4. Place the transmission pan and gasket aside to be cleaned later. The transmission pan gasket IS REUSABLE, do not throw it away!
5. Your transmission should now look like the picture to the right.
6. Pull the large black filter straight down to remove it from the transmission. **Watch out, more fluid will be released when you remove the filter...have the drain pan in place!**



7. CHECK THE FILTER BORE FOR THE FILTER O-RING, THESE COMMONLY STICK IN THE TRANSMISSION AND DON'T COME OUT WITH THE FILTER. IF YOU DON'T REMOVE IT BEFORE INSTALLING A NEW FILTER, YOU WILL HAVE PROBLEMS LATER! SEE THE PICTURE AT RIGHT FOR WHAT THE O-RING STUCK IN THE BORE LOOKS LIKE.

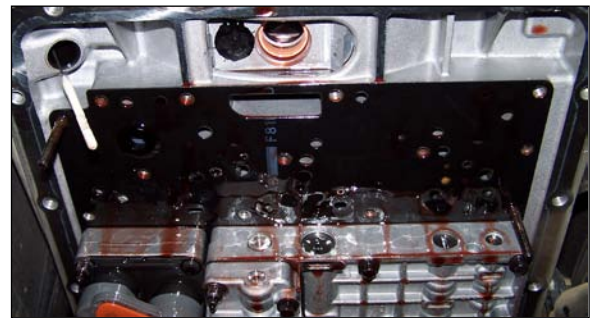


8. You will be removing the accumulator body, which is the farthest forward valve body on the transmission. If there is any question about which one to remove, refer to the picture at right and compare the John Wood Valve Body to what you see on your transmission. You do NOT want to remove the wrong part!



9. The accumulator body is held in place with (11) 8mm bolts and (2) 10mm nuts. Using your ratchet, remove the 8mm bolts first and set aside. Then remove the 10mm nuts while holding the valve body up in place. **Once again, when you lower this component more fluid will be released, make sure your drain pan is in place!**

10. With the valve body removed, your transmission should look like the picture at right. No other components should come down with the valve body if the transmission is stock.



If there was a previously installed "shift kit", there might be a steel plate with holes in it that is the same size and shape as the accumulator body, that should be removed as well and will NOT be reused.

11. You are now ready to install your new JOHN WOOD VALVE BODY!

12. Begin by sliding the JWVB over the studs and installing the (2) 10mm retaining nuts "finger tight".

13. Now install the (11) 8mm bolts "finger tight".

14. Using the **INCH/POUND** torque wrench, tighten the (11) 8mm bolts to 100in/lb. Start in the middle of the accumulator body and work in a circular fashion toward the outside until all 11 bolts have been tightened.

15. Using the **INCH/POUND** torque wrench, tighten the (2) 10mm nuts to 100in/lb.

16. Double check that ALL of the bolts and nuts have been properly torqued to 100in/lbs. The transmission should look like the "ACCUMULATOR BODY" picture above.

17. Lightly lube the o-ring of the new filter with fresh transmission fluid and press it up into the transmission until it stops. It should be oriented like the picture on page 1 of this document.

18. Clean the transmission pan, particularly around the drain plug.

NOTE: The following steps may be slightly different if you have an aftermarket transmission pan that does not use the factory gasket, such as a MagHytec pan.

19. Carefully clean the original transmission pan gasket, taking care not to bend it as this will permanently damage the metal core and require replacement.

20. Wipe any excess transmission fluid from the gasket surface of the transmission case with a clean shop towel.

21. Place the pan gasket and pan against the transmission pan rail and install the bolts "finger tight".

22. Using a FOOT/POUND torque wrench, tighten the pan bolts to 11ft/lbs.

23. Using a FOOT/POUND torque wrench, verify that the transmission pan drain plug is tightened to 18ft/lb.

24. Remove tools and drain pan from under truck. If necessary, lower truck back onto the ground.

25. Open hood and remove transmission dipstick. Using a funnel, add 6 quarts of fresh transmission fluid (whatever fluid matches what is already in your truck or as specified by your owner's manual). Check the fluid level with the dipstick and adjust until it is at the "full" mark.
26. Start the engine and after allowing it to idle for a minute, manually select every gear with the gear selector. Allow the transmission to completely shift into each gear before selecting the next one. Return the selector to "Park".
27. Allow the transmission to warm up to normal operating temperature then check the fluid level. Adjust as necessary until properly filled.
28. Check the ground under the truck for indications of any leaks, address leaks if necessary.
29. After the fluid level has been adjusted and no leaks are found, test drive the truck for proper shift function.

ENJOY YOUR NEW JOHN WOOD VALVE BODY!

VERY IMPORTANT!!! **CORE RETURN INSTRUCTIONS:**

1. **PLEASE CLEAN THE CORE BEFORE PACKAGING FOR RETURN!!!** UPS has informed us that they may not deliver boxes that are wet with unknown fluids, and transmission fluid has an odor that they do not like!
2. Wrap the core in several layers of paper towels or throwaway shop towels and place in the plastic bag that your JWVB was sent in. Please make sure that the zip end of the bag is completely closed before boxing for shipment as this will help keep any fluids in and packing materials out.
3. Repackage in the original box or other box of sufficient size, taking care to make sure that there is some packing material on all sides of the valve body to prevent damage.
4. Complete the blue Core Return Card and place in the box with the valve body.
5. Ship the core to the address marked on the Core Return Card.

Please Note: We inspect every core that is returned to us as we have received cores that were not for the same transmission that the JWVB is designed to fit. If you return a core that is not for a 4R100, we will NOT refund your core charge.

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

MOST 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 ninety (90) days 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

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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 MANUFACTURERS 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 WILL NOT BE SUBJECT TO ANY RESTOCKING 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.

SERVICE WARRANTY POLICY

Subject to the limitations, exclusions, and qualifications set forth below, the service or services performed by S DIESEL (the "S Diesel Service" or "S Diesel Services") are warranted to Buyer as set forth in this Warranty. Buyer's initials below indicate that Buyer has read, understands and agrees to the terms and conditions of this Warranty.

LIMITED WARRANTY

The S Diesel Services (except S Diesel Services specified to have different warranty terms) are warranted to have been performed in a workmanlike manner and to hold up under normal use and service for a period (the "Service Warranty Period") of twelve months from date the S Diesel Services are performed. S DIESEL's liability under this Warranty is limited to replication, subject to the provisions set forth herein, of any S Diesel Services which upon examination S DIESEL are found to have not been performed in a workmanlike manner.

S DIESEL shall not have any responsibility under this Warranty unless (1) the defect in an S Diesel Service results in a claim arising within the Service Warranty Period, measured from the date the S Diesel Service is performed, (2) the vehicle upon which the S Diesel Service was performed was normally maintained and not subject to misuse, negligence or accident, and (3) the vehicle upon which the S Diesel Service was performed was not repaired or altered in such a way that in the judgment of S DIESEL the S Diesel Service's durability 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, or serviced in connection with a warranty claim hereunder without prior written approval of S DIESEL.

REMEDIES EXCLUSIVE

Replication of unsatisfactory S Diesel Services 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 Service whether based in warranty, contract, tort, negligence, strict liability or otherwise.

GENERAL PROVISIONS APPLICABLE TO BOTH PRODUCT AND SERVICE WARRANTIES

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.