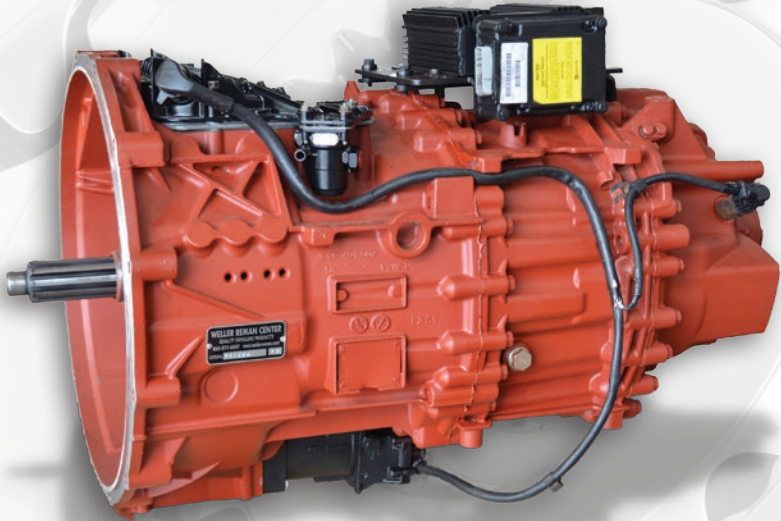


WELLER

100% Associate Owned



**OWNER'S MANUAL:
AS-TRONIC/
FREEDOMLINE**

Tag # _____

Mileage In: _____

Date Installed: _____

WELLER REMAN

Quality Remanufactured



Manual Transmissions and Transfer Cases

Quality Remanufactured Products by WELLER for the Following Applications
Light to Heavy Duty

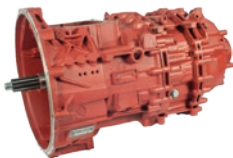
Eaton/Fuller • Borg Warner • New Process • Clark • IHC • TTC Spicer • Isuzu • GMC • Mack • Noster • ZF • Meritor
A complete line of Auxiliaries and Transfer Cases



Automated Manual Transmissions

Quality Remanufactured Products by WELLER for the Following Applications

ZF AS-Tronic® • Meritor Freedomline® • Volvo I-Shift® • Mack M Drive® • Eaton/Fuller • Detroit DT 12



Automatic Transmissions

Quality Remanufactured Products by WELLER for the Following Applications

Allison Transmissions® • Clark • Funk • CAT • ZF



Differentials

Quality Remanufactured Products by WELLER for the Following Applications
Complete Stock for quick exchange.

Spicer • Clark • FWD • GMC • IHC • Industrial/Off Road • Mack/PAI • Dana/Eaton • Terex • Freightliner/Alliance • Meritor /Rockwell • Volvo



Steering Gear Boxes and Pumps

Quality Remanufactured Products by WELLER for the Following Applications

All units are tested on our state-of-the-art XLT3 Road Simulator.
TRW-Ross • Saginaw • Sheppard • Vickers Pumps • ZF • Eaton • Luk



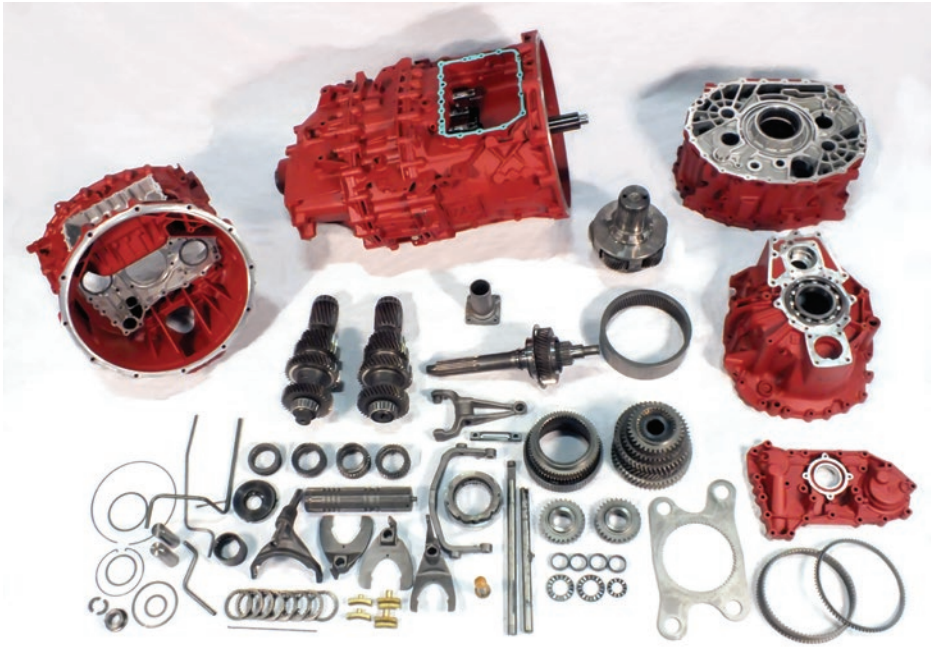
Electronics

Quality Remanufactured Products by WELLER for the Following Applications All units are tested for performance and quality.

Cummins • Eaton/Fuller • ZF • Allison® • Volvo



PROGRAM DESCRIPTION



Weller's Unit Exchange program eliminates down time by getting you the parts you need when you need them. With over 17,000 transmissions and differentials ready to ship, we can help you eliminate your or your customer's downtime. Consider becoming a key partner in the industry's leading drivetrain program today. With no commitments and no minimums, we are the industry partner for you!

Our aggressive reman program includes:

- All Makes Coverage – One Call
- Same Day Service
- Obsolete and Discontinued Specialists
- One-year Warranty
- Two Year Warranty on Eaton/Fuller Transmissions
- 17,000 Unit Stock – It's Available Today!
- Excellent Core Policy (call for details)
- Technical Support on Questions

WELLER REMAN HAS THE ADVANTAGE!



Check Out Our New App!



We are excited to announce our new app! Designed with our customers in mind, we wanted to bring a user-friendly way for you to access the information you need when you need it most.

Features

Schedule a Core Return: Easily schedule core returns from your phone!

View Warranty Status: Have a warranty you want to know the status of? View all of your warranties with the Warranty Tracker.

Quickly Locate a Store: We are always adding new locations to better serve you.

Weller Literature: Find our Owner's Manuals and other sales literature like our Core Return Program and sales catalogs

Training Videos: Visit our growing collection of videos designed to educate and prevent common issues across a wide range of our products.

How to Download

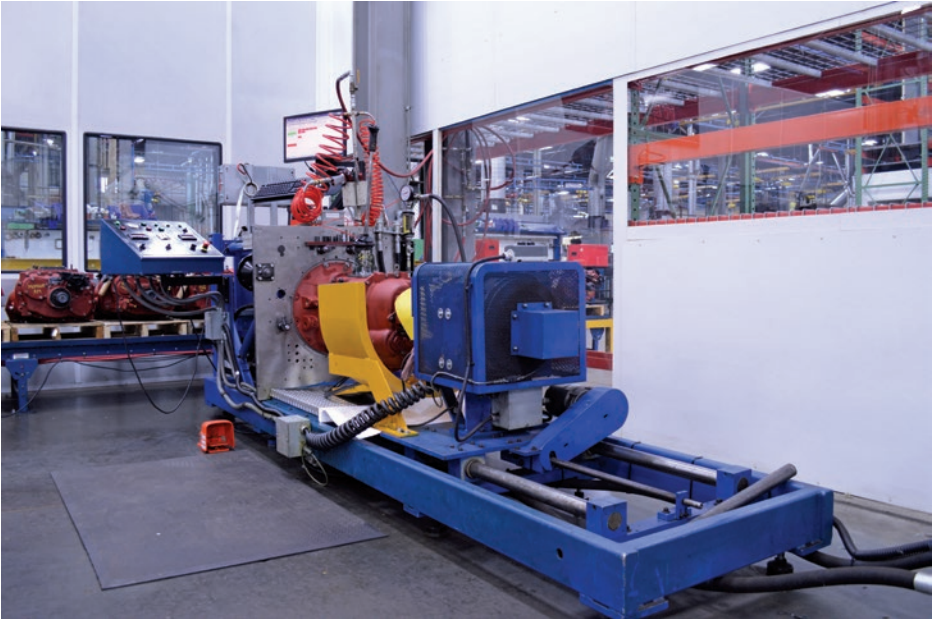
The new Weller Truck Parts app can be downloaded for free from the Apple App Store and Google Play.

Supported devices include iPhone (iOS 11.0 or later) and Android smartphones (5.0 Lollipop and up).





DYNO TESTING



All transmissions are dyno tested with a load to simulate real truck conditions. Every transmission is evaluated to ensure proper torque, no leakage, accurate shifting, oil flow and performance on our state-of-the-art dynamometers.

AUTOMATED MANUAL TRANSMISSIONS



Weller is proud to offer Automated Manual Transmissions (AMTs)! We offer Fuller, ZF, Volvo, and Mercedes remanufactured transmissions and their electronic components. Like all our other units, every unit is remanufactured by trained experts and dyno tested for quality.



Fuller UltraShift PLUS®



ZF AS Tronic®

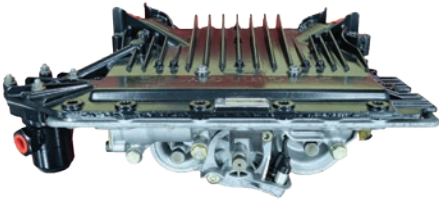


Volvo I-Shift®



ASTRONIC/FREEDOMLINE ELECTRONICS

Quality Parts Offered Individually by Weller



Reman GS3 – GS3.3



Clutch Actuator



Voltage Doubler



ZMTEC

INSTALLATION GUIDE

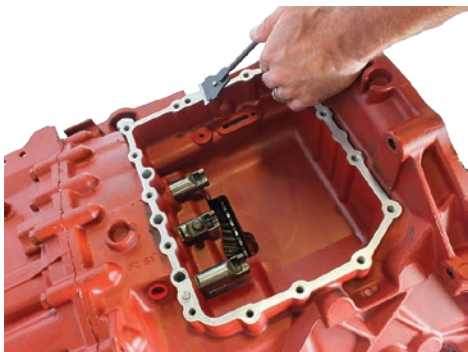


VEHICLE MAKE AND MODEL _____
MECHANIC'S NAME _____

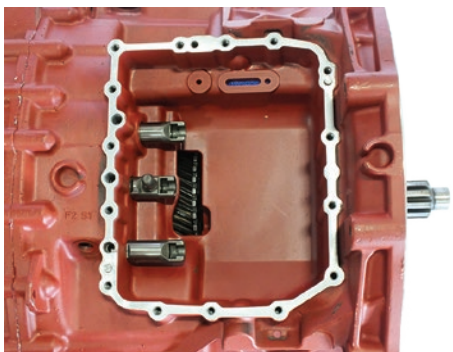
TRANSMISSION ASSEMBLY NO. _____
VEHICLE ID NO. _____

- I. Transmission contains **NO** lubricants. Recommend using **ZF-Ecofluid M**. See ZF lubricants manual TE-ML 02 for complete list.
- II. This transmission contains **NO** speed sensors. Be sure to remove speed sensors from your exchange unit.
- III. This transmission contains **NO** GS3 or GS3.3. Be sure to remove GS3 or GS3.3 from your exchange unit.
- IV. This transmission contains **NO** clutch actuator. Be sure to remove and test from your exchange unit.
- V. Check engine mounts for wear.
- VI. Check clutch and related components
 - a. Inspect all clutch related parts for wear. (Forks, pins, hydraulics, etc.)
 - b. Did the flywheel get resurfaced?
 - c. Inspect the dowel pins for wear
 - d. Ensure no grease or oil is on any friction surface!
 - e. Reference pg. 12 for correct throw out fork grease procedure
 - f. Install a high temperature pilot bearing
- VII. Check driveline for worn or failed components
 - a. U-Joints
 - b. Carrier bearings
 - c. Yoke seal surface and splines
 - d. Ride height
 - e. Driveline phasing
 - f. Driveshaft balance
 - g. Torque transmission output flange bolts to 89 lb-ft
- VIII. PTO (if equipped)
 - a. Is the PTO leaking?
 - b. Is your PTO properly shimmed? (Backlash of .06-.029 inch or as specified by PTO Manufacturer)
 - c. Shim PTO with proper selective gaskets. PTO cover gaskets or cork gaskets should NOT be used.
 - d. Flush PTO out. PTO's are a great catch-all for failed transmission parts
- IX. Transmission heat exchanger(if equipped)
 - a. Clean and flush cooler system
- X. Air system
 - a. Check air dryer
 - b. Check truck pressure & inspect for leaks
 - c. Check air filter screen on GS3

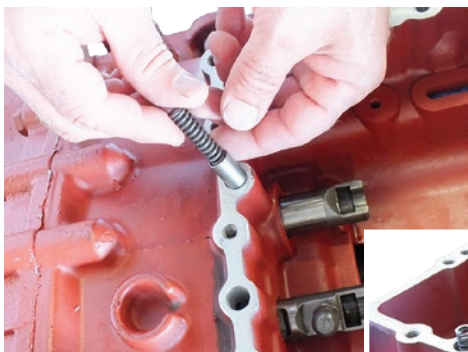
INSTALLATION OF THE GS3



1. Inspect the gasket surfaces of the GS3 and transmission to ensure a clean surface.



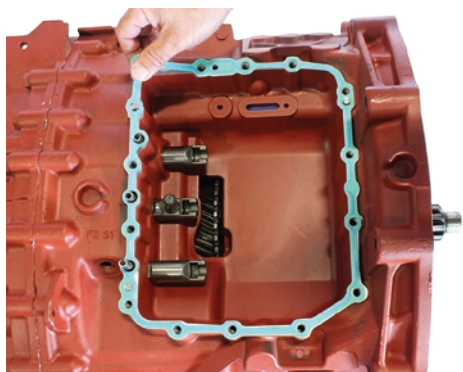
2. Identify the position of all 3 shift rails with the center shift rail finger straight up.



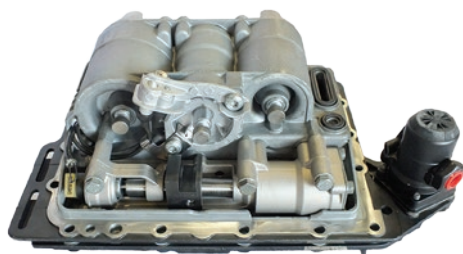
3. Install the 3 identical detents and detent springs. It is normal for one spring to sit higher than the other two.



INSTALLATION OF THE GS3



4. Install a new gasket.



5. Align the piston rods of the GS3 to match the shift rails of the transmission. Center the selector gate with the center piston rod. Measuring each shift rail and piston rod will limit the possibility of error.



6. Carefully install the GS3 on to the transmission ensuring that the piston rods and shift gate are seated correctly with the shift rails. GS3 should be fully seated.

INSTALLATION OF THE GS3



7. Secure the 15 bolts while keeping light pressure on the top of the GS3.



8. Torque the 15 bolts (13 mm) in a star pattern to 17 ft lbs.

LUBRICATION



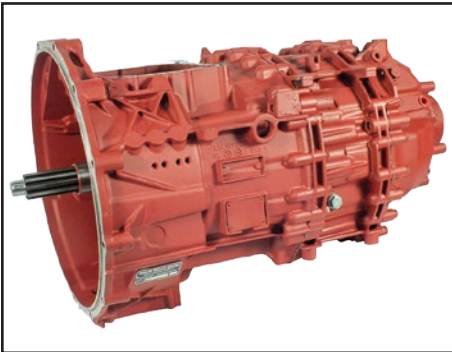
Filling the unit with approved fluid



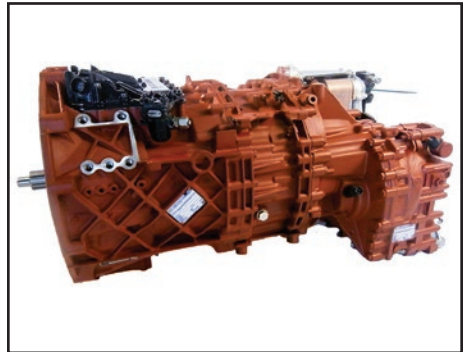
Remove the fill plug (22 mm) from the transmission and add the approved fluid until the level is even with the low part of the fill hole. Reinstall fill plug by hand and torque to 44 ft lbs.

Start the vehicle and let it run for 30 seconds. Remove the fill plug to verify proper level and add if necessary.

Appropriate Fluid Capacity



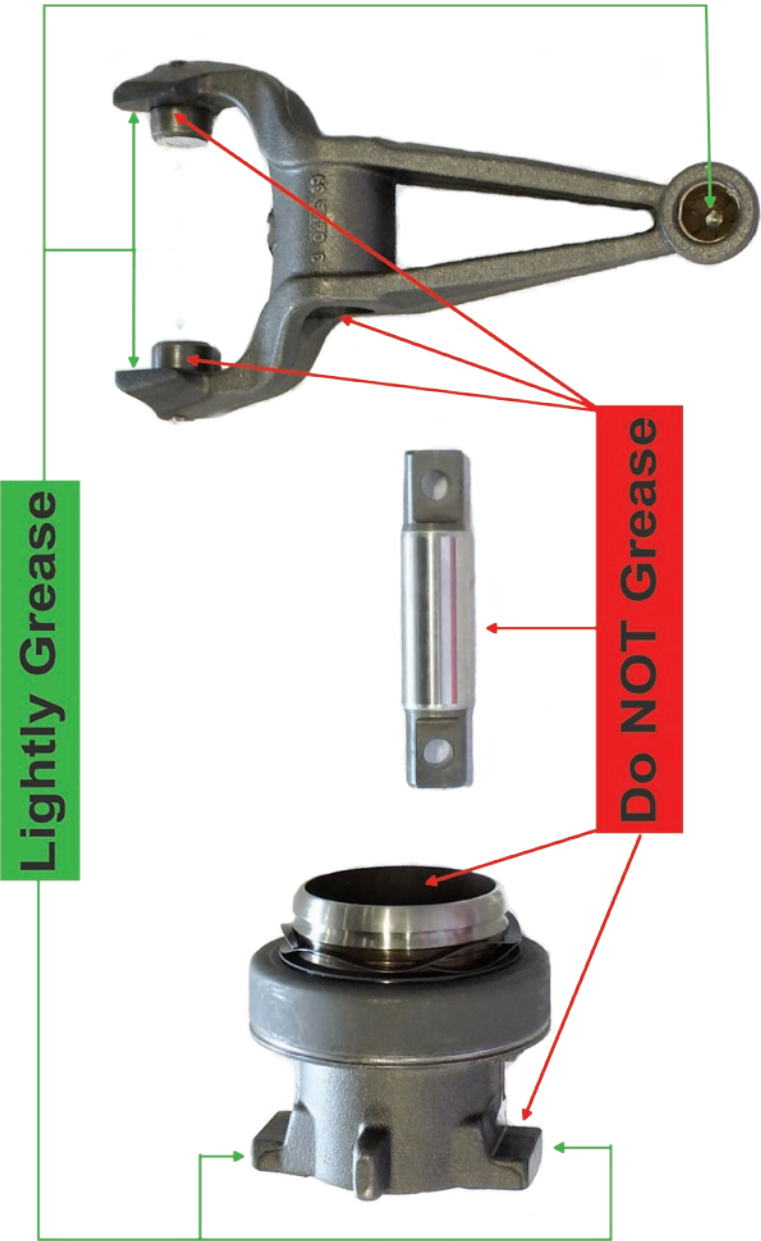
11.5 Quarts



22 Quarts



INSTALLATION OF THE ROLLER FORK



CORE RETURN INSTRUCTIONS



The Weller Truck Parts core return program is designed to facilitate an efficient and cost effective way of returning your cores. Following the instructions listed below will ensure your core is processed quickly and correctly.

1. Attach the Core Return Tag provided with the remanufactured unit to core

- For warranty units, obtain a Warranty Repair Authorization (RA#) from your Weller Truck Representative. If you are not sure who your representative is call the Reman Center at 1-800-872-6697 or email warranty@wellertruck.com.

2. Prepare the unit for shipping.

1. Drain oil from unit.
2. Band, wrap, or strap unit(s) to a pallet.
3. Attach a copy of the warranty invoice, core tag or RA# to the unit for identification.

3. Notify Weller Shipping Department when unit is ready for pick up.

- Download the Weller App!
 - Scan the QR code or go to wellertruck.com/app
- Email corereturn@wellertruck.com or call 1-800-872-6697 Ext. 3794 or 3759
 - Provide the following:
 - ✓ Core return tag, Weller Truck Parts invoice, or the RA if the unit is a possible warranty
 - ✓ Your contact information
 - ✓ Hours of operation



Weller will prepare the bill of lading and schedule your unit to be picked up by a Weller approved carrier.

Thank you for choosing Weller Truck Parts!

Failure to follow these procedures could result in core credit delays and freight charge backs.

*Core eligibility is one year from invoice date



WELLER WARRANTY

WARRANTY STATEMENT

- **Metal tag must not be removed or warranty will be void**
 - **Nationwide**
 - **One Year Coverage**
 - **Two Year Coverage on Eaton/Fuller Transmissions**
 - **Unlimited Mileage**
- Call Us!*
800-872-6697
-for-
- **Technical Assistance**
 - **Return Authorization**

Warranty Coverage

Standard Warranty Coverage

Weller Reman Manual Transmissions – One year, unlimited mileage – parts and labor.

Authorized Repair Points – Our Nationwide Warranty may be administered only by an authorized warranty repair facility. Call 1-800-872-6697 for authorization.

Exclusions – Subject to the conditions stated herein, Weller warrants to the original retail purchaser thereof that its Reman products will, when used in a motor truck for on-highway or on/off-highway applications in the United States and properly installed and assembled on vehicles approved by the O.E.M. for such purpose, be and remain under normal conditions of use and operation free from failure due to defects in materials and workmanship from the date of sale.

This warranty covers parts and labor to repair or replace, at Weller's option, the failed Weller component. Units installed as replacements under this warranty are warranted only for the remainder of the original warranty period.

This warranty shall not extend to failures or damage due to improper lubrication or operation in excess of original design limitations, failure to follow normal published preventive maintenance guidelines of the O.E.M., abuse or damage by improper installation, casualty or shipment.

This warranty shall not extend to repairs for noise (including idle rattle), excessive operating temperature, transmission rear seal leakage, nor does it cover failures caused by engine, clutch, driveline; including transmission synchronizer pin breakage, or other truck components or system.

This warranty does not cover failures caused by a worn, damaged or defective part or component mounted to the unit by the dealer or retail purchaser, including without limitation, the transmission end yoke.

All warranty claims shall be made to Weller and shall be supported by satisfactory evidence in respect of the conditions stated herein. As a condition precedent to the allowance of such claims, the component or assembly involved shall, if requested by Weller, be returned prepaid to Weller for examination.

EXCEPT FOR THE EXPRESS WARRANTY STATED HEREIN, WELLER DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE FOREGOING IS THE LIMIT OF THE LIABILITY OF WELLER, AND IS THE EXCLUSIVE AND SOLE REMEDY OF THE PARTY TO WHOM THIS WARRANTY IS MADE. LIABILITY ON THE PART OF WELLER FOR DAMAGES, EXPRESSLY INCLUDING CONSEQUENTIAL DAMAGES IS DISCLAIMED.

This warranty may not be changed or modified in any way except in writing by Weller.

Weller Warranty Procedure

Don't Buy the Paper. Buy the Performance. Weller Reman.

PRE-REPAIR

Verify Complaint, Collect Information & Determine Warranty Coverage

- Have the Weller Tag or Invoice Number ready when calling.
- Provide the Make/Model and vocation of the truck.
- Provide a detailed description of the problem
- Weller will issue a Repair Authorization #

UNIT REPAIR OPTIONS

#1. Service Repair

(In Place Fix)

Customer to determine failure/repair cost and get Weller Approval before work is started

#2. Weller Repair

(R&R)

Weller to determine failure/repair cost and get customer approval before work is started.

#3. Unit Replaced

(Exchange)

- Weller ships replacement unit
- Replacement unit is installed
- Truck is up and running
- Invoice your customer until warranty process is complete

Return Materials, Information & Images Required to Substantiate the Claim

Note: Only defects in materials and workmanship are considered warrantable.

Weller performs failure analysis and determines failure responsibility

Failure Analysis Not Complete

Invoice your Customer

Failure Analysis Complete

WARRANTY

- Complete the work
- Send the invoice to Weller. The Repair authorization # will become the purchase order #.
- Weller will pay agreed amount

NON-WARRANTY

- Invoice your Customer
- If non-warrantable failure, repair and invoice your customer.
- Weller will invoice for unit repaired by Weller

CALL WELLER FIRST
800-872-6697

WELLER

100% Associate Owned

800.872.6697 • wellertruck.com

WARRANTY CLAIM FORM

Date: _____

TAG #: _____

Claim Contact Information:	Vehicle Owner Information:	Truck Information:
Name, Company, and Address: _____ _____ _____	Name, Company, and Address: _____ _____ _____	Make: _____
Phone: _____	Phone: _____	Model: _____
Fax: _____	Fax: _____	Mileage: _____
E-Mail: _____	E-Mail: _____	Vocation: _____
		Engine: _____
		VIN: _____

COMPLAINT

Fluid Leak: <input type="checkbox"/> Yes <input type="checkbox"/> No	Description of the Problem: _____ _____ _____ _____ _____ _____ _____
Shifting: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Noise: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Vibration: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Hard Steering: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Contamination: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Other: <input type="checkbox"/> Yes <input type="checkbox"/> No	

ADDITIONAL INFO

Change with Speed? <input type="checkbox"/> Yes <input type="checkbox"/> No	Suspension Modified Recently? <input type="checkbox"/> Yes <input type="checkbox"/> No
Change with RPM? <input type="checkbox"/> Yes <input type="checkbox"/> No	Driveline in Phase? <input type="checkbox"/> Yes <input type="checkbox"/> No
During Acceleration? <input type="checkbox"/> Yes <input type="checkbox"/> No	Engine Mounts Checked? <input type="checkbox"/> Yes <input type="checkbox"/> No
During Deceleration? <input type="checkbox"/> Yes <input type="checkbox"/> No	King Pin Checked? <input type="checkbox"/> Yes <input type="checkbox"/> No
When Stationary? <input type="checkbox"/> Yes <input type="checkbox"/> No	Hydraulic Brakes? <input type="checkbox"/> Yes <input type="checkbox"/> No
Fluid at Proper Level? <input type="checkbox"/> Yes <input type="checkbox"/> No	System Flushed & Filter Replaced? <input type="checkbox"/> Yes <input type="checkbox"/> No
Fluid Clean? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is the Unit Getting Hot? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Vehicle Towed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Running PTO? <input type="checkbox"/> Yes <input type="checkbox"/> No	

EMAIL TO: WARRANTY@WELLERTRUCK.COM
 FAX TO: 616-365-5679, WELLER TRUCK PARTS WARRANTY

WELLER WARRANTY



Warranty

It is essential to contact Weller and start the claim prior to removing the transmission from the vehicle for warranty consideration. Weller's technicians can assist with diagnosing the complaint to reduce downtime. If the transmission failed, the unit will be filmed, documented, and warranty determined.

Authorized Weller Dealers call for warranty labor hours guidelines.

Call Weller First!
1-800-872-6697



NOTES

THE WELLER REMAN NETWORK



Scan to
download
our mobile
app!



- 1 Reman Center**
1500 Gezon Pkwy S.W.
Grand Rapids, MI 49509
616-724-2000
800-872-6697
- 2 Atlanta, GA**
5007 Clark Howell Hwy.,
Suite A
Atlanta, GA 30349
404-768-9577
877-768-9577
- 3 Baltimore, MD**
899 Airport Park Rd., Ste. N
Glen Burnie, MD 21061
410-553-0443
877-550-0443
- 4 Birmingham, AL**
116 Total Solutions Way
Alabaster, AL 35007
205-685-0777
866-535-0777
- 5 Boise, ID**
8484 W. Victory Road
Boise, ID 83709
208-331-1061
888-331-1061
- 6 Boston, MA**
Auburn Industrial Park
C Street, Building 15B
Auburn, MA 01501
774-374-8015
888-739-7191
- 7 Chicago, IL**
14407 S Gougar Rd Ste 500
Lockport, IL 60491
708-974-9919
888-974-9319
- 8 Cleveland, OH**
Coming Soon!
- 9 Columbus, OH**
2885 International St.
Columbus, OH 43228
614-771-9500
866-771-9501
- 10 Dallas, TX**
3113 Skyway Circle N
Irving, TX 75038
972-258-0460
855-258-0460
- 11 Denver, CO**
11333 East 55th Ave Unit A
Denver, CO 80239
303-375-6633
833-375-6633
- 12 Detroit, MI**
29826 W. Eight Mile Road
Farmington Hills, MI 48336
248-473-1900
800-473-1905
- 13 Gaylord, MI**
353 Expressway Court
Gaylord, MI 49735
989-731-6700
888-731-6700
- 14 Houston, TX**
4549 Aldine Bender
Houston, TX 77032
281-442-8855
877-677-8855
- 15 Indianapolis, IN**
6903 E. 32nd St.
Indianapolis, IN 46226
317-547-3190
888-547-3190
- 16 Jacksonville, FL**
10330 Chedoak Court
Suite 205
Jacksonville, FL 32218
904-757-0777
888-474-0777
- 17 Kansas City, MO**
3824 N. Skiles Ave.
Kansas City, MO 64161
816-454-2237
844-341-4578
- 18 Las Vegas, NV**
2985 Coleman St., Suite 14
North Las Vegas, NV 89032
702-638-8222
866-764-8222
- 19 Los Angeles, CA**
9355 Cherry Ave.
Fontana, CA 92335
909-356-8322
877-356-8322
- 20 Lubbock, TX**
603 CR 7150
Lubbock, TX 79423
806-516-8112
844-389-1766
- 21 Memphis**
7520 Appling Center Dr.
Ste 102
Memphis, TN 38133
901-386-8604
833-270-3220
- 22 Milwaukee, WI**
8625 North 107th
Milwaukee, WI 53224
414-354-6400
877-354-6400
- 23 Minneapolis, MN**
3201 85th Avenue North
Brooklyn Park, MN 55443
763-424-3800
877-424-3802
- 24 Nashville, TN**
230 Molly Walton Drive
Hendersonville, TN 37075
615-264-2750
866-426-2750
- 25 Omaha, NE**
8623 S. 117th St.
LaVista, NE 68128
402-597-9000
855-597-9001
- 26 Phoenix, AZ**
702-638-8222
866-764-8222
- 27 Portland, OR**
13150-2 NE Airport Way
Portland, OR 97230
503-255-1924
888-839-9758
- 28 Sacramento**
1424 N Market Blvd. Unit 80
Sacramento, CA 95834
279-972-4170
888-553-9753
- 29 Salt Lake City, UT**
3450 W. California Ave.
Suite 400
Salt Lake City, UT 84104
801-886-0100
855-847-0100
- 30 Seattle, WA**
6408 South 196th Street
Kent, WA 98032
253-872-0321
877-572-0321
- 31 South Bend, IN**
3303 William Richardson Ct.
Suite 200
South Bend, IN 46628
574-237-1000
800-968-8860
- 32 St. Louis, MO**
2388 Chaffee Drive
Maryland Heights, MO
63146
314-692-2227
877-992-2227
- 33 Syracuse, NY**
4530 Morgan Place
Liverpool, NY 13090
315-457-7098
844-320-4288
- 34 Tampa, FL**
217 Hobbs Street
Suite 103
Tampa, FL 33619
813-685-6100
866-685-6109

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