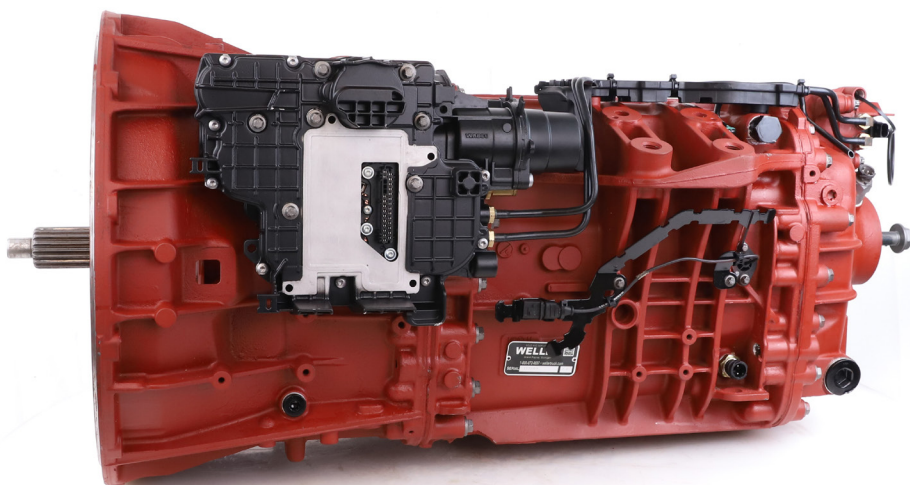


WELLER

100% Associate Owned



OWNER'S MANUAL: DT12 AUTOMATED MANUAL TRANSMISSION

Tag # _____

Mileage In: _____

Date Installed: _____

QUALITY REMANUFACTURED

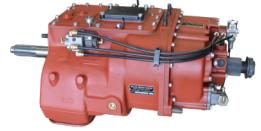
Manual Transmissions and Transfer Cases

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

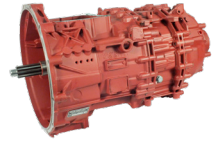


Automated Manual Transmissions

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



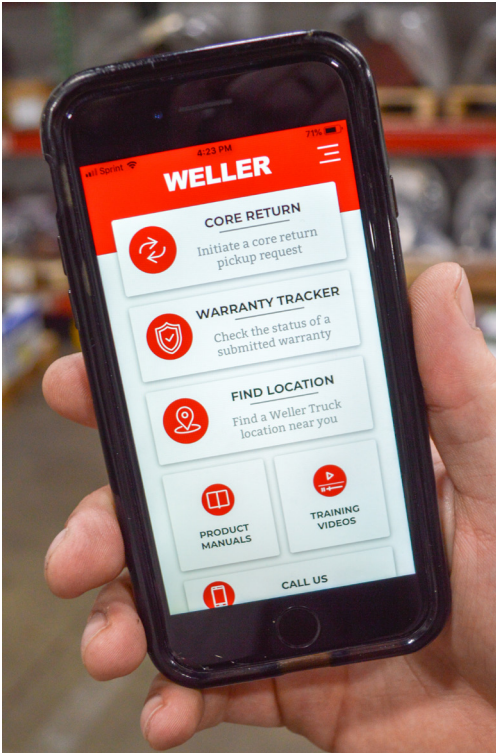
Weller's Unit Exchange Program eliminates down time by getting you the parts you need when you need them. With over 20,000 remanufactured transmissions, differentials, steering gears, PTOs, and hydraulic pumps ready to ship, we can help you eliminate your or your customer's downtime. Consider becoming 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
- 20,000 Unit Stock - It's Available Today!
- Excellent Core Policy (call for details)
- Technical Support on Questions

**WELLER REMAN HAS
THE ADVANTAGE!**

WELLER 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 `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).



Scan me



DYNO TESTING



All transmissions are dyno tested with a load to simulate real truck conditions. Why is that important?

Every transmission is evaluated to ensure proper torque, no leakage, accurate shifting, oil flow and performance on our state-of-the-art dynamometers.

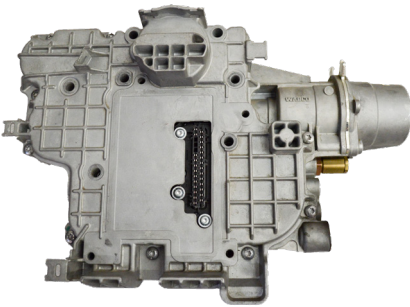
DT12 ELECTRONICS

As we move to the future, the landscape of our industry is changing. Electric trucks and components are becoming more of a reality every day. We root our business in service before and after the sale, providing you with the units you need when you need them. Due to the increasing demand for electronic products, we are growing to a dedicated Electronics building!

The new building boasts 10,000+ square feet of space, solely dedicated to the production of electronics and mechatronics. This is a vast expansion from our current production area and allows us to meet demand to the Weller standard for years to come.



Reman Clutch Actuator



Reman Automated Shift Assembly

***Quality
Parts Offered
Individually by
Weller***

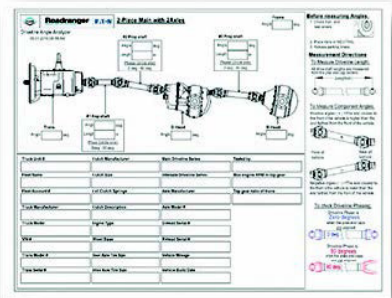
U-JOINT ANGLES

You will need:

- Inclinometer for measuring angles and phasing
- Tape measure to measure length of tube and ride height
- Flat surface to park the vehicle and wheel chocks for stabilization
- Driveline worksheet for recordings



Recommend using the Roadranger DAA software and inclinometer



Example Roadranger DAA Worksheet

Safety FIRST!

Review owner's manuals, service manuals, and other OE provided instructions. Confirm driveline series and length is correct for torque, RPM, and vehicle specifications. Wear appropriate PPE.

U-JOINT ANGLES

General U-Joint Angle Rules:

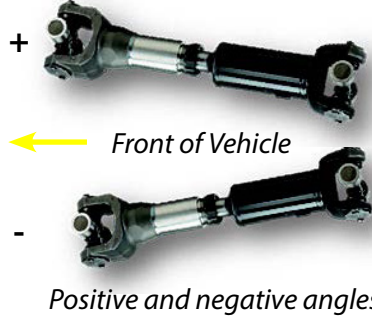
- i. Should have a minimum angle of 1°
- ii. Angles on each end of a shaft should ALWAYS be within 1° of each other
- iii. U-Joint angles should NOT be larger than 3°
- iv. Yoke phasing is driveline specific

Inspection:

1. Print corresponding worksheet.
2. Park the vehicle on a flat surface, chock the wheels, and release the parking brake.
3. Inspect driveline for u-joint endplay and worn components. Note: Spicer recommends U-Joint endplay should not exceed .006
4. Measure and record angles, shaft length, and u-joint phase.
Make corrections as needed



Measure shaft length from
u-joint cap centers



90° Out of Phase
Yoke caps NOT aligned



Yoke phased
Yoke caps ARE aligned

INSTALLATION GUIDE

1. This transmission contains NO LUBRICANTS. Use Mercedes approved transmission fluid (MB235.15 or MB235.11 Spec).
 - See Mercedes service manual section 2.1 for a complete list of approved products.*
 - Fill transmission with the correct volume of fluid (6.1)*
 - Follow the correct maintenance schedule (4.1)*

2. Check clutch and related components. *If equipped, reclaim Clutch Actuator Spacer from core
 - Inspect clutch and related parts for wear (7.1.2; 9.2)*
 - Weller recommends flywheel resurface to OE specs
 - Weller recommends replacement of pilot bearing (16.1)*
 - Ensure no grease or oil is on friction surfaces

3. Check driveline for worn or failed components
 - U-Joints
 - Carrier Bearing
 - Yoke seal surface and splines
 - Ride height
 - Check driveline phasing
 - Driveline angles (See job aid on pgs 15-18)
 - Inspect suspension hardware & bushing for wear

4. PTO (If equipped)
 - See Mercedes installation bulletin DDC-ENG-MAN-0001

5. Transmission heat exchanger (if equipped)
 - Clean and flush cooler system
 - Weller recommends pressure testing the cooler for leaks

*Section contained within Mercedes service manual (reference number DDC-SVC-MAN-0140)

INSTALLATION GUIDE

6. Air system

- Check air dryer
- Check truck pressure and inspect for leaks
- Inspect the purge valve (fluid drain) on the bottom of the air tank for proper operation

7. Connect the TCM to the transmission

- Make sure harness connectors are clean and tight

8. After installation

- Perform clutch calibration and gear re-learn
- Perform tilt sensor re-learn procedure
- Update software on truck to the latest version

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.

WELLER WARRANTY

WARRANTY STATEMENT

- **Nationwide**
- **One Year Coverage**
- **Two Year Coverage on Eaton/Fuller Transmissions**
- **Unlimited Mileage**
- **Technical Assistance**
- **Return Authorization**

Call Us!

800-872-6697

-for-

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.

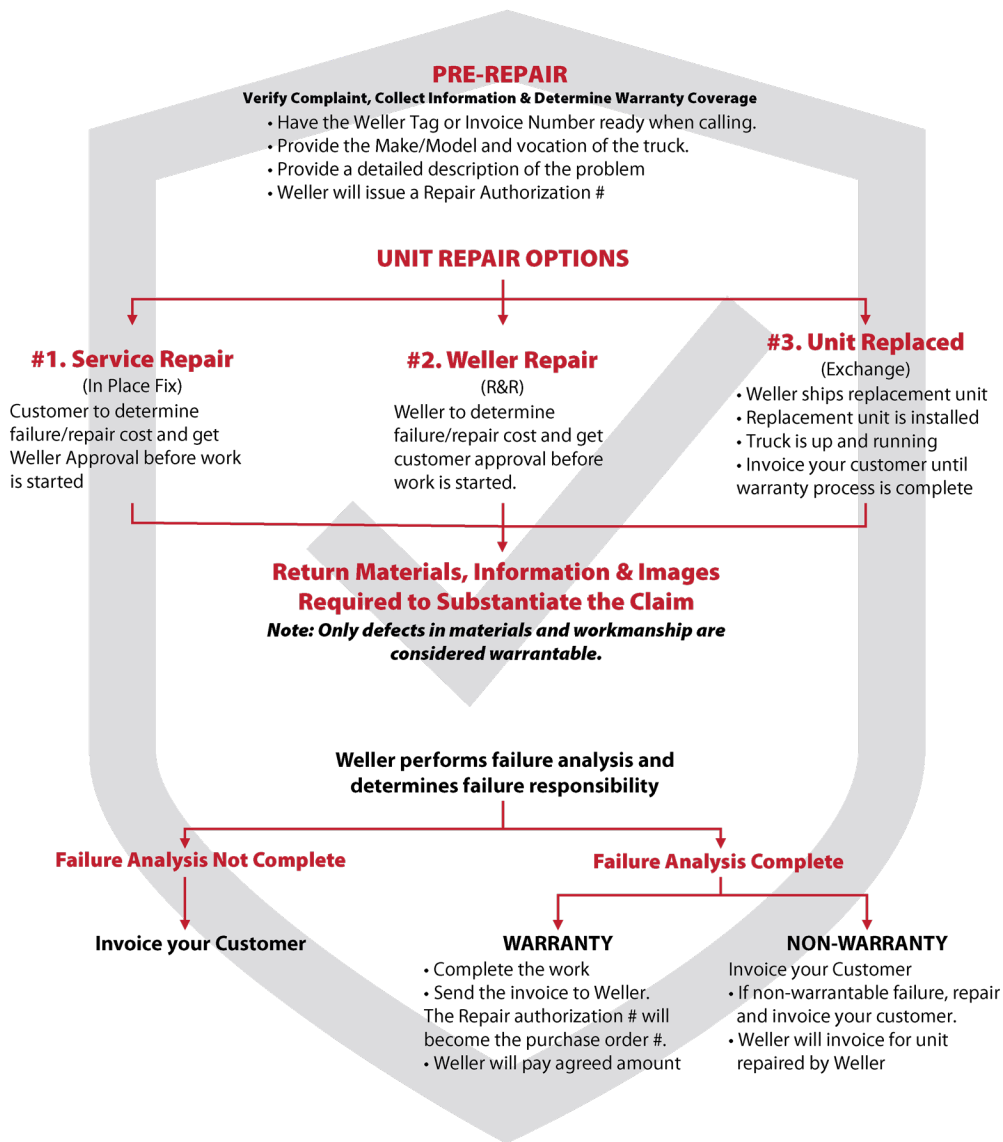
All warranty claims shall be made to Weller and shall be supported by satisfactory evidence in respect of the conditions stated herein. As a condition precedent to the allowance of such claims, the component or assembly involved shall, if requested by Weller, be returned prepaid to Weller for examination.

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.



CALL WELLER FIRST
800-872-6697

WELLER

100% Associate Owned

800.872.6697 • wellertruck.com



WARRANTY CLAIM FORM

1500 Gezon Parkway SW
Grand Rapids, MI 49509
616-724-2000
800-872-6697
Fax 616-365-5679

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 differential from the vehicle for warranty consideration.

Weller's technicians can assist with diagnosing the complaint to reduce downtime. If the differential failed, the unit will be filmed, documented, and warranty determined.

The following are the maximum flat rates for failures due to defective products or workmanship:

Manual Transmissions	Flat Rate Credit
Mid Range	\$500
Heavy Duty	\$700
Auxiliary/Transfer Case	\$600

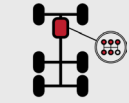
Authorized Weller Dealers call for warranty labor hours guidelines.

Call Weller First!
1-800-872-6697

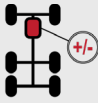
Max Uptime In Your Drivetrain When You Partner with Weller.

We are dedicated to providing best-in-class quality with unmatched value and rapid delivery. Our focus is to keep our customers and America moving.

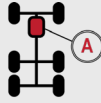
View Our Complete Drivetrain Offerings at wellertruck.com



TRANSMISSIONS AND TRANSFER CASES



AUTOMATED MANUAL TRANSMISSIONS



AUTOMATIC TRANSMISSIONS



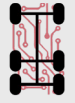
DIFFERENTIALS



DRIVESHAFTS & END YOKES



STEERING GEAR BOXES AND PUMPS



ELECTRONICS & MECHATRONICS



Experience
The Weller Way



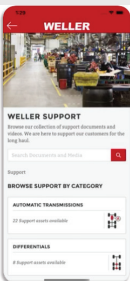
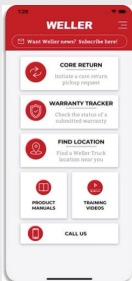
View the Weller
Distribution
Network



Search Our Vast
Inventory and
Order Online



Learn with our
Tech Support
and Videos



Download our
Mobile App



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You Partner with the Best!

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