WHY CHOOSE LiveDrive 4x4 PLUS?
LiveDrive 4x4 PLUS solves the space constraints experienced with left hand PTO on 4x4 FORD trucks. By modifying the Transfer Case and extending the PTO shaft to the rear of the transfer case, larger hydraulic pumps, generators, air compressors, vacuum pumps, blowers, etc. can be installed without interference.

WHAT OPTIONS ARE AVAILABLE?
DirectDrive offers two types of outputs for the LiveDrive PLUS PTO system...
- 1¼" Round shaft with a ⅜ key (Opposite Engine Rotation)
- SAE B flange (Opposite Engine Rotation)

Muncie and Chelsea PTOs are Available
- Muncie with 130% of engine speed
- Chelsea with 144% of engine Speed

THE KIT INCLUDES?
- Modified Transfer Case
- Shafts, Flanges and Fasteners
- Installation Manual
- Re-usable Crate/Packaging for Core Return
- KIT DOES NOT INCLUDE PTO
Specifications

FORD PTO PREP OPTION: 62R

ROTATION: Opposite Engine (Clockwise)

SHAFT: 1.250" Diameter with .312" Key

PTO: MUNCIE - F20-F13 12 XX 5 1X XX
CHELSEA - 210 F M MF P-X 2 SD

APPLICATION: '20+ Ford Super Duty 4x4 with PTO Prep Option 62R

KIT PART #: LDP-20 _____ - B

T - CASE
A - Electric / Yoke
C - Electric / Slip
S.A.E. Pump Flange

Specifications

FORD PTO PREP OPTION: 62R

ROTATION: Opposite Engine (Clockwise)

SHAFT: 7/8" 13T Spline

FLANGE: SAE B, Indexable 30°

PTO: MUNCIE - F20-F13 12 XX 5 1X XX
     CHELSEA - 210 F M MF P-X 2 SD

APPLICATION: ’20+ Ford Super Duty 4x4 with PTO Prep Option 62R

KIT PART #: LDP-20 _____ - _____

T - CASE
A–Electric / Yoke
C–Electric / Slip

Output Type
MK–SAE “B” 2 or 4 Bolt 7/8 13T Spline
FORD SHIP-THRU PROGRAM

DirectDrive products for Ford chassis cabs can be installed by Manning Equipment. Manning is an up-fitter located next to the Louisville, KY manufacturing plant.

Benefits
• Chassis arrives at dealer / body builder with PTO system installed.
• No core charge.
• No freight charges for PTO kit or core return.

Procedure
1. The Ford dealer enters Ship-Thru divert code 31MD9E on the chassis order.
2. Dealer (or upfitter) sends P.O. to Manning for PTO system.
3. Chassis is diverted to Manning to have the PTO system installed.
4. Manning bills dealer (or upfitter) for kit and installation.
5. Manning returns chassis to the Ford plant and is shipped to the destination through regular channels.

MANNING EQUIPMENT
12000 Westport Road
Louisville, KY 40223
(800) 876-8768
Herb Garner (502)-523-1825
garner@truckequip.com
Why Choose RamDrive?
Beginning in 2017, RAM offered a left-hand PTO port on the 4x4 chassis cab trucks. The left-hand port is easier to access and opposite the exhaust system. The RamDrive PTO system with the shaft extended through the modified transfer case allows for easy installation of equipment.

WHAT OPTIONS ARE AVAILABLE?
DIRECTDRIVE offers three types of outputs for the RAMDRIVE PTO system:
- 1¼” Round shaft with a 5/16” key (Engine Rotation)
- SAE A or B flange (Engine Rotation)
- Geared output (Opposite Engine Rotation) in three ratios with either 1¼” round shaft or a SAE A or B flange

PTO CAPABILITIES?
- 50+ HP Continuous
- 126% of Engine
- Engine Rotation
- 1 Year Replacement Warranty

THE KIT INCLUDES?
- Modified Transfer Case
- Heavy Duty PTO
- Plug and Play Wire Harness
- Shafts, Flanges and Fasteners
- Installation Manual
- Re-usable Crate/Packaging for Core Return

5YR. / 100,000 Mile Warranty On Transfer Case
Specifications

RAM LH PTO PREP OPTION: LBV
ROTATION: Engine (Counter Clockwise)
SHAFT: 1.250" Diameter with .312" Key
PTO: RD200-2
- 50+ HP Continuous
- 126% of Engine

APPLICATION: '17+ RAM 3500 - 5500 Aisin AS69RC Transmission 4x4

KIT PART #: RD4 - _____ - _____ - _____ - B

MODEL
19–Standard
19T–Max Tow Package

SHIFT TYPE
E–Electric
M–Manual

REAR DRIVESHAFT
F–Flange
S–Slip

Call the factory to determine the transfer case model.
Specifications

RAM LH PTO PREP OPTION: LBV
ROTATION: Engine (Counter Clockwise)
SHAFT: 7/8" 13T Spline
FLANGE: SAE B Indexable 30°
PTO: RD200-2
  • 50+ HP Continuous
  • 126% of Engine

APPLICATION: '17+ RAM 3500 - 5500 Aisin-AS69RC Transmission 4x4

KIT PART #: RD4 - ____ - ____ - ____ - MK

MODEL
19–Standard
19T–Max Tow Package

SHIFT TYPE
E–Electric
M–Manual

REAR DRIVESHAFT
F–Flange
S–Slip
RAM SHIP-THRU PROGRAM

DirectDrive products for RAM chassis cabs can be installed by Utilimaster. Utilimaster is an up-fitter located near the RAM manufacturing plant in Saltillo MX.

Benefits
- Chassis arrives at dealer / body builder with PTO system installed.
- No core charge.
- No freight charges for PTO kit or core return.
- Cost of the PTO system can be rolled into the vehicle financing.

Procedure
1. The RAM dealer enters Ship-Thru divert code 99807A in the special equipment field of the chassis order.
2. Dealer (or upfitter) sends P.O. to DirectDrive Plus at Info@DirectDrivePlus.com, P.O. must include VON and VIN number of the chassis.
3. Chassis is diverted to Utilimaster to have the PTO system installed.
4. DirectDrive bills dealer (or upfitter) for kit and installation.
5. Utilimaster returns chassis to the RAM plant and the chassis ships to the destination through regular channels.
Specifications

RAM LH PTO PREP OPTION: LBV

ROTATION: Engine (counter-clockwise)

SHAFT: 1.250" Diameter with .312" key

MAXIMUM HP: 50+ Continuous

OUTPUT SPEED: 126% of engine RPM

Plug and Play Wire Harness

1YR. Replacement Warranty
**ACCESSORIES**

**Throttle Controls**

DIRECTDRIVE PLUS can supply a remote throttle control for RAM or Ford trucks.

- **MAR-9001** FORD Multi-Turn Electronic Hand Throttle Control – Clockwise
- **MAR-9002** FORD Multi-Turn Electronic Hand Throttle Control – Counter-Clockwise
- **MAR-9004** RAM Multi-Turn Electronic Hand Throttle Control – Counter-Clockwise

**Ford Super Duty DEF Relocate Kit**

DIRECTDRIVE can supply a kit to move the DEF tank from the left inside frame rail, to the outside of the right frame rail, giving you more room for your PTO equipment.

- **DDP-5002** 2017+ Ford Super Duty Cab and Chassis
**QUESTION and ANSWER**

**How does the DirectDrive PLUS system work?**
The four wheel drive transfer case included in the DirectDrive PLUS kit has a fixed tube installed through a void space in the transfer case. The PTO drive-line shaft is attached to the transmission-mounted PTO and extended through the modified transfer case. The shaft is supported at the rear of the transfer case with an external flange bearing.

**How is a “live” PTO different from other PTOs?**
The Ford LIVE PTO is driven by the engine and is unaffected by transmission gear selection. PTO operation is available whenever the engine is running. Non-live PTOs on automatic transmissions are driven by the transmission torque converter turbine. When the truck is placed into gear, the turbine stops turning resulting in a loss of PTO function.

**Is the RAM PTO live?**
The RAM PTO is not live. The RAM PTO is turbine driven. (See above question.) In some applications, a turbine-driven PTO is preferred.

**How or where do I purchase a DirectDrive Plus kit?**
Contact the DirectDrive PLUS factory at (610)-273-2071 for pricing and to arrange shipping.

**What is Ship-Thru?**
DirectDrive PLUS has agreements with Ram and Ford factory-approved equipment installers near the chassis manufacturing plants. When the truck is ordered, a divert code is entered with the order. The chassis is diverted to the equipment installer who installs the DirectDrive PLUS PTO kit and returns it to the factory. The factory then ships the chassis to the selling dealer. The chassis arrives at the dealer with the DirectDrive PLUS system installed. Contact DirectDrive PLUS for divert codes.

**Can I install the DirectDrive kit?**
Absolutely. Installing the kit requires basic tools and mechanical skills. Most truck body builders or Ford/Ram truck dealers will be comfortable installing the kit themselves. We recommend allowing four hours for the first installation. Shops familiar with these types of installations will be able to install the kit in less than three hours.

**What happens to the take-out transfer case?**
The take-out transfer case is returned to DirectDrive PLUS in the shipping container your kit arrives in. The core charge will be refunded when the take-out transfer case is received at the DirectDrive PLUS factory.

**What if my truck has some mileage on it already?**
If your truck has more than 1000 miles on it, contact DirectDrive PLUS at (610)-273-9937 and we will help you find the correct option for your truck.

**What happens to the OEM warranty?**
We will replace the OEM warranty with our OEM-equivalent warranty. (5 yr./100,000 for Ram, 5 yr./60,000 for Ford) The transmission, drive shafts, etc. will continue to be covered under the OEM warranty policy. As with many OEM warranties, coverage is subject to individual dealer interpretation.

**Questions?**
We are just a phone call or email away.