

# WELLER



## STEERING IDENTIFICATION CATALOG

**WELLER**  
REMAN CENTER

100% Associate Owned

\$25.00

# WELLER

## TRUCK PARTS

1500 Gezon Parkway SW  
Grand Rapids, MI 49509  
P: 616.724.2000  
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[www.wellertruck.com](http://www.wellertruck.com)

Parts Manager

On behalf of Weller Reman, we would be honored to have the opportunity to work with you on your next obsolete, discontinued, or late model drivetrain situation. With our **Same Day Policy**, we can help when you face a stock out/obsolete problem, excessive lead times, or an unfamiliar drivetrain product.

We house an extensive inventory of gearing for both old and very current Fuller, Spicer, Mack, Rockwell, IHC, Allison Automatics, New Process, and other OEMs. Also, with over 17,000 rebuilt units and 900 employees specializing in just drivetrain, we are ready to work with you on eliminating your customer's downtime.

We look forward to hearing from you.

Thank You,

*Your Weller Team*

Your Weller Team



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# WELLER REMAN



## *The Nation's Complete Drivetrain Program!*

### **Manual Transmissions and Transfer Cases –**

Quality Remanufactured by WELLER  
Light to Heavy Duty

*Eaton/Fuller • Borg Warner • New Process • Clark • IHC  
• TTC Spicer • Isuzu • GMC*



### **Automated Manual Transmissions –**

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*ZF Astronic® • Meritor Freedomline®  
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*Allison Transmissions® • Clark • Dresser  
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### **Differentials –**

Quality Remanufactured by WELLER

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 by WELLER

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 by WELLER

All units are tested for performance and quality.

*Cummins • Eaton Fuller • ZF • Allison® • Meritor®  
• Volvo® • Mack®*



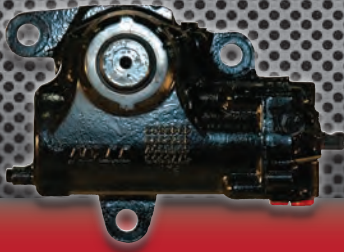
## **WELLER REMAN HAS THE ADVANTAGE!**

- ✓ All Makes Coverage – One Call
- ✓ Tech Support
- ✓ 17,000 Units Stock – It's Available Today!
- ✓ Same Day Service

- ✓ Specialists at Obsolete and Discontinued
- ✓ Aggressive Dealer Program
- ✓ Quality Units
- ✓ One Year Warranty

## **THE WELLER REMAN NETWORK**





# PROGRAM DESCRIPTION



Weller's Unit Exchange program eliminates down time by getting you the parts you need when you need them. With over 5,000 rebuilt steering gears and pumps ready to ship, we can help you eliminate downtime. Consider becoming a key partner in the industry's leading steering 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 Shipping
- Obsolete and Discontinued Specialists
- One-year warranty
- Excellent Core Policy (call for details)
- Technical Support
- Dyno Tested

**WELLER REMAN HAS THE ADVANTAGE!**

## **THE WELLER REMAN NETWORK**

# THE WELLER WAY



If your company focuses on quality repairs and parts, we would like to put our 950 people on your team! Together we can eliminate downtime with complete coverage of all your drivetrain needs. That's the Weller Way – to partner in select relationships that successfully provide the customer with the best product and service. No hype! Just a true competitive advantage!

With 400,000 square feet in Grand Rapids at our remanufacturing centers and extensive warehousing at our PDC locations dedicated to drivetrain, we are committed to the industry. Through our commitment to focus solely on drivetrain components, we have been able to partner with industry leaders. These partnerships put the best product available in the hands of the company that needs it most!

Interested in becoming a key partner in our Reman Program? Contact us today! With no commitments and no minimums, we are the Industry Partner for you!

## **THE WELLER REMAN NETWORK**





# DYNO TESTING



*All steering gears and pumps are tested for performance and leakage.*

**THE WELLER REMAN NETWORK**



# AVAILABILITY



- Same Day Shipping/Delivery • Weller Pays For The Core Return
- Next Day Air Shipping Available



- |                                                                                                                 |                                                                                                                       |                                                                                                                    |                                                                                                                                  |                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
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|                                                                                                                 |                                                                                                                       |                                                                                                                    |                                                                                                                                  | <b>31 Portland, OR</b><br>Coming Soon!                                                                    |

## THE WELLER REMAN NETWORK



# INSTALLATION INSTRUCTIONS

## STEERING GEAR AND PUMP INSTALLATION INSTRUCTIONS

To insure that your new/rebuilt steering gear/pump will operate properly, the following steps should be made to flush your entire steering systems completely.

1. Disconnect the return line from the gear at the point it is attached to the reservoir. Direct the return line into a minimum 2 gallon container. Temporarily plug reservoir return port tube or fitting. Fill reservoir with recommended fluid. Disconnect ignition system. Jack front wheels up from floor. Restrain vehicle with safety blocks. Engage starter motor and turn wheels simultaneously to full travel until oil is no longer pumped. Unplug reservoir return port tube or fitting. Reconnect return line to reservoir. Remove contaminated oil filter, if so equipped. Wipe reservoir clean with a clean shop towel. Replace oil filter. Fill reservoir to capacity. Reconnect ignition system. Start engine and run for 30 seconds. Shut engine off.
2. Fill (or refill) the pump reservoir to the cold fill mark or just enough to cover the internal filter with the manufacturer's recommended fluid.
3. Start the engine and let run at idle speed for a couple of minutes. Cycle the steering wheel a few times to eliminate entrapped air. For pumps having dipstick showing hot full only, all the truck to reach operating temperature before stopping the engine. For units with cold fill marks, the engine may be stopped after cycling. Fill to indicated levels on sight gauge or dipstick, (depending on the model).

### NOTES



# ADJUSTMENT PROCEDURES



## AUTOMATIC POPPET ADJUSTMENT PROCEDURE

For TRW (all TAS and THP models), ZF (all models), Sheppard (all HD, MD, SD, and XD models), and Sheppard M-SERIES models (M80, M90, M100, and M110) with a part number ending in 3 (examples: M100 PHE<sup>3</sup> and M110 PHC<sup>3</sup>).

**WARNING! DO NOT TURN OR ROTATE THE STEERING GEAR UNTIL STEPS 1 THROUGH 9 ARE COMPLETED TO ENSURE PROPER ADJUSTMENT!**

Adjusting the relief valve plungers is critical to the operation of your complete steering system. The relief plunger adjustment is provided to automatically reduce the steering pressure when the road wheels have reached their limits of turn. This keeps the supply pump from operating at maximum relief pressure when the road wheels are at their steering limits. System temperatures are therefore reduced, and high stress loads on the mechanical components of the steering systems are relieved.

1. Ensure that the steering gear is not rotated from the center position prior to installation.
2. Make sure that the axle stops are present and set for the proper turning radius as per manufacturer's specifications.
3. Install steering gear to frame.
4. Attach and torque input yoke. Connect hydraulic hoses.
5. Attach pitman arm and torque nut and bolt assembly.
6. Make sure that the timing mark on the sector shaft is:
  - A. 90 degrees from center line of worm shaft.
  - B. Properly aligned with the mark on the pitman arm.
7. Make sure the pitman arm positioning allows for the center point of the sector and the center point of the drag link to be plumb with each other.
8. With the wheels square to the frame, check the drag link for proper adjustment and install.
9. Once system is flushed (see p. 6) then fill reservoir, start engine, and allow to idle only. Do not allow the reservoir to run low on fluid.
10. With the front axle lifted off the ground and the engine at idle, turn the steering wheel all the way in one direction until "steering stops" bottom out. Repeat procedure in the opposite direction. Return wheels to straight ahead. Lower front axle back to the ground.
11. Poppets are now set and any remaining air should be bled.



# ADJUSTMENT PROCEDURES

## MANUAL POPPET ADJUSTMENT PROCEDURE

For TRW (all HF and HFB models), Sheppard (292, 392, 492, and 592 models) and M-SERIES models (M80, M90, M100, and M110) with a part number ending in a 1 (examples: M100 PCL**1** and M110 PHM**1**).

**WARNING! DO NOT TURN OR ROTATE THE STEERING GEAR UNTIL STEPS 1 THROUGH 9 ARE COMPLETED TO ENSURE PROPER ADJUSTMENT!**

Adjusting the relief valve plungers is critical to the operation of your complete steering system. The relief plunger adjustment is provided to automatically reduce the steering pressure when the road wheels have reached their limits of turn. This keeps the supply pump from operating at maximum relief pressure when the road wheels are at their steering limits. Systems temperatures are therefore reduced, and high stress loads on the mechanical components of the steering system are relieved.

Adjust the relief valve plunger as follows:

1. Ensure that the steering gear is not rotated from the center position prior to installation.
2. Make sure that the axle stops are present and set for the proper turning radius as per manufacturer's specifications.
3. Install steering gear to frame.
4. Attach and torque input yoke. Connect hydraulic hoses.
5. Attach pitman arm and torque nut and bolt assembly.
6. Make sure that the timing mark on the sector shaft is:
  - A. 90 degrees from center line of worm shaft.
  - B. Properly aligned with the mark on the pitman arm.
7. Make sure the pitman arm positioning allows for the center point of the sector and the center point of the drag link to be plumb with each other.
8. With the wheels square to the frame, check the drag link for proper adjustment and install.
9. Once system is flushed (see p. 6) then fill reservoir, start engine, and allow to idle only. Do not allow the reservoir to run low on fluid.



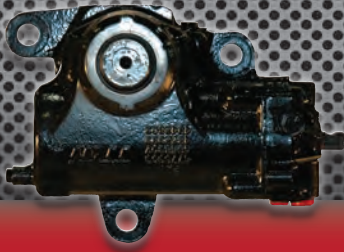
# ADJUSTMENT PROCEDURES



10. With full weight of the vehicle on all wheels, turn the steering wheel in one direction until a high pressure hiss is heard or the axle stops contact.
11. Turn the relief valve plunger located on both ends of gear in or out until the high-pressure hiss is heard when there is 1/8 to 3/16 inch clearance between the axle stops.
12. Repeat this procedure for the opposite direction of steer, and adjust the relief valve plunger on the opposite end of the steering gear.

Turning the plungers in too far will trip the relief before a full turn is realized. Turning the plungers out too far will not allow the systems to relieve, and will therefore cause damage. Do not turn the slotted plungers out beyond flush with the plunger boss or a leak will occur. Axle stops should only be adjusted in accordance with the vehicle manufacturer's specifications.

After the relief valve plunger adjustment, always check to ensure that the road wheels and tires have adequate clearance between suspension, brake and frame components.



# BLEEDING THE SYSTEM

Standard



Inverted



When you air bleed a steering system, you are simply allowing air trapped in the cavities of the steering gear to escape. As a general rule, if your steering gear is a “standard mount”, you should use the Automatic Bleed method. The Automatic Bleed Method consists of step 10 and 11 in the Automatic Adjustment Procedure. If your gear is an “inverted mount”, you will need to use the Manual Bleed method to purge the trapped air from the gear.

**Do not turn steering wheel with bleed screw loosened**

## CAUTION

- Make sure poppets are set correctly before beginning this procedure
  - Find and correct the source air entry into the system before attempting these procedures. (Air can naturally enter the system when components are being removed or installed.)
  - Do not allow the fluid level to drop significantly or run out of the reservoir during the entire procedure. This may introduce air into the system
1. Fill the reservoir nearly full. Do not steer. Start and run the engine for 10 seconds, then shut it off. Check and refill the reservoir. Repeat at least three times checking the oil every time.
  2. Start the engine and let it idle for 2 minutes. Do not steer. Shut the engine off and check the fluid level in the reservoir. Refill as required.

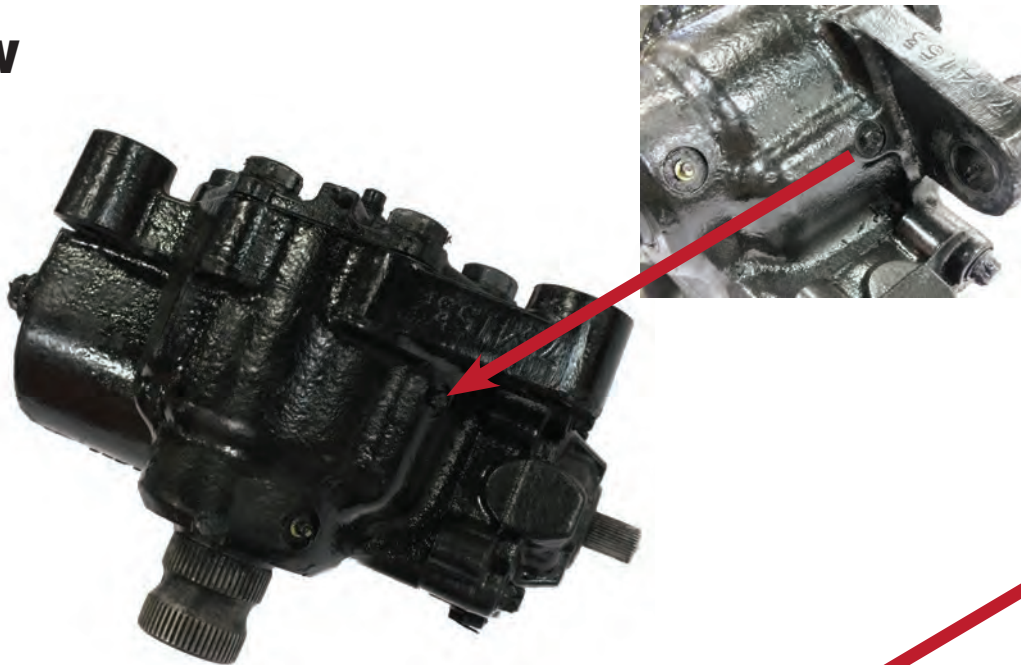


# BLEEDING THE SYSTEM

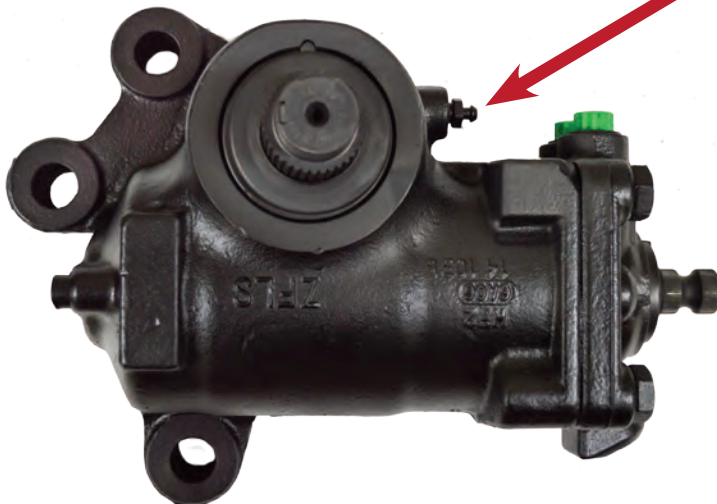


3. Start the engine again. Steer the vehicle from full left to full right several times. Add fluid as necessary, to the full line on the dip stick.
4. With engine idling, steer from full left turn to full right turn several times. Stop steering with the road wheels at straight ahead, and loosen the manual bleed screw 2-3 turns (in the main gear, or the rotary assist cylinder, or both if equipped). Allow air and aerated fluid to “bleed out” until only clear fluid is seen. Close the bleed screw, refill the reservoir if required.
5. Repeat step 4 three to four times until all the air is discharged.

## TRW



## ZF

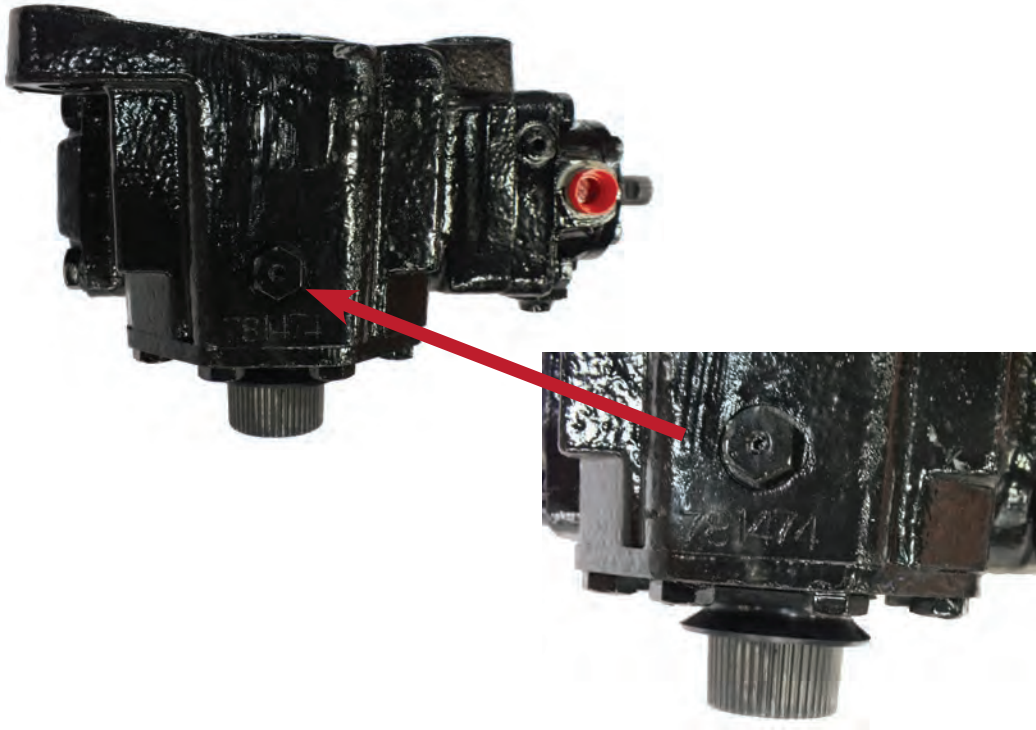


**THE WELLER REMAN NETWORK**



# BLEEDING THE SYSTEM

**Sheppard**



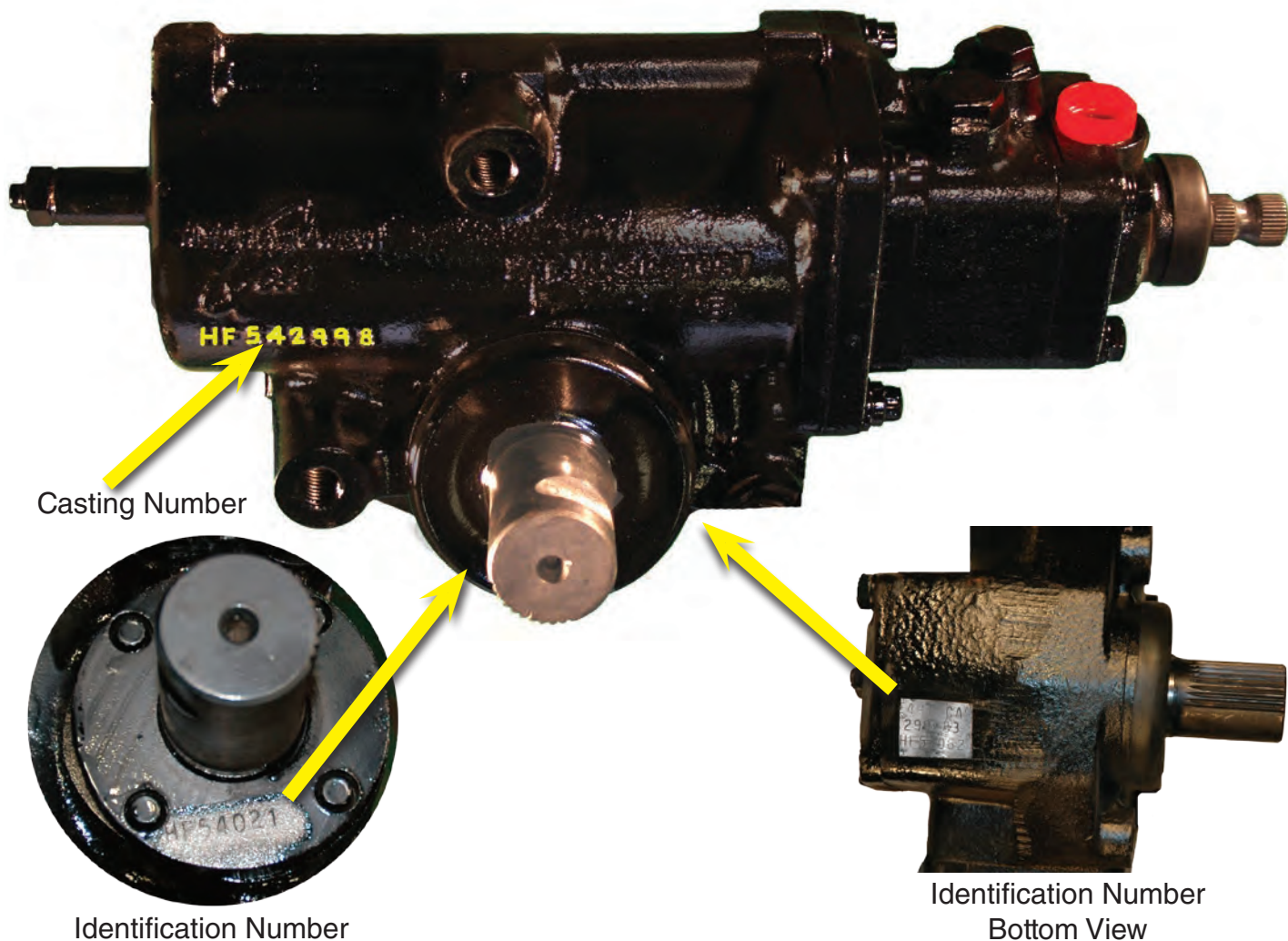
**Sheppard (Assist Gear Box)**



***THE WELLER REMAN NETWORK***

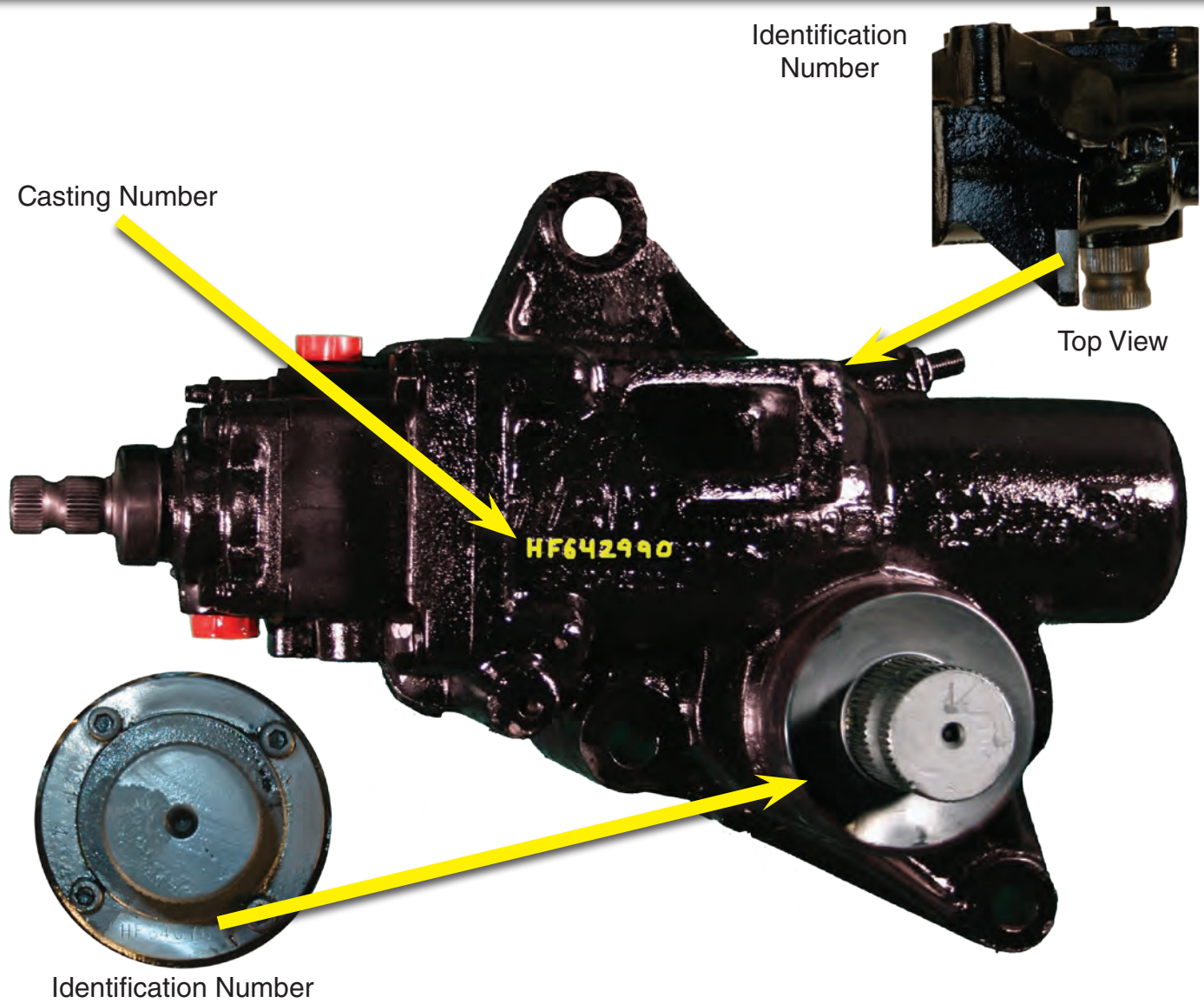


# TRW HF54



| MODEL | OEM | PART NUMBER | CASTING# | APPLICATION   |
|-------|-----|-------------|----------|---------------|
| HF54  | TRW | 001         | 2998     | FORD          |
| HF54  | TRW | 006         | 2999     | FORD          |
| HF54  | TRW | 012         | 2999     | CHRYSLER      |
| HF54  | TRW | 014         | 2989     |               |
| HF54  | TRW | 026         | 2999     | FORD          |
| HF54  | TRW | 034         | 2997     |               |
| HF54  | TRW | 038         | 2996     |               |
| HF54  | TRW | 048         | 2995     |               |
| HF54  | TRW | 053         | 2995     | INTERNATIONAL |
| HF54  | TRW | 056         | 2999     |               |
| HF54  | TRW | 063         | 2296     | FORD          |
| HF54  | TRW | 019/042/052 | 2998     | FORD          |
| HF54  | TRW | 020/043     | 2996/99  | FORD          |
| HF54  | TRW | 021/044     | 2998     | FORD          |
| HF54  | TRW | 024/039     | 2997     | IHC           |
| HF54  | TRW | 040/055     | 2997     | INTERNATIONAL |
| HF54  | TRW | 050/017     | 2996/99  | FORD          |
| HF54  | TRW | 059/061     | 2996/99  | FORD          |
| HF54  | TRW | 060/062/064 | 2996/99  | FORD          |

# TRW HF64



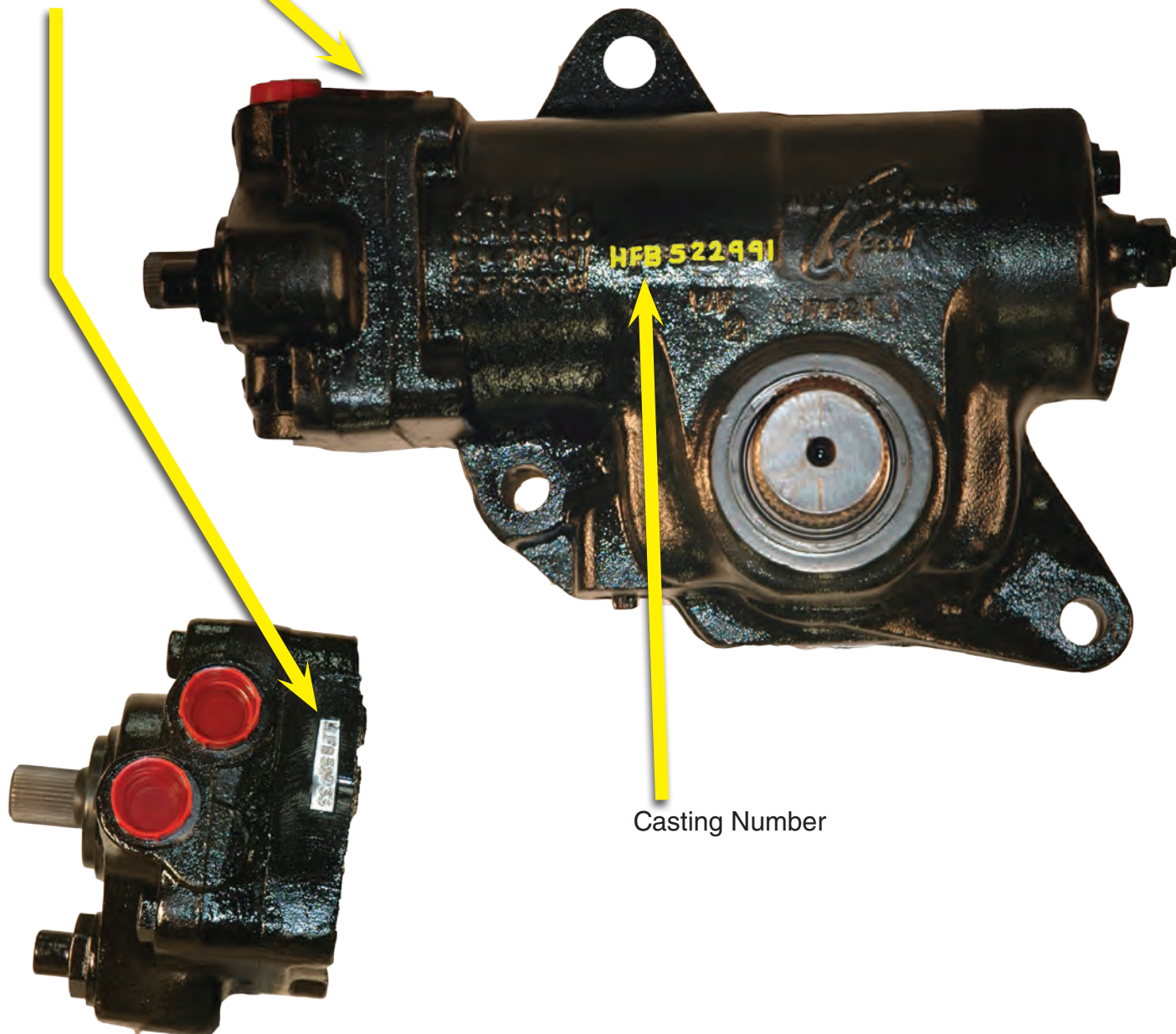
| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION     |
|-------|-----|-------------|-----------|--------|-----------------|
| HF64  | TRW | 019         | 2989      | 4LINE  | DIAMOND REO     |
| HF64  | TRW | 021         | 2995      | 2LINE  |                 |
| HF64  | TRW | 036         | 2990      | 2LINE  | FORD            |
| HF64  | TRW | 037         | 2990      | 4LINE  | FORD            |
| HF64  | TRW | 044         | 2989      | 4LINE  | AM GENERAL      |
| HF64  | TRW | 045         | 2988      | 2LINE  | INTERNATIONAL   |
| HF64  | TRW | 061         | 2984      | 2LINE  | MACK            |
| HF64  | TRW | 062         | 2984      | 4LINE  | MACK            |
| HF64  | TRW | 063         | 2989      | 2LINE  | WHITE/HENDRICKS |
| HF64  | TRW | 065         | 2981      | 2LINE  | CROWN           |
| HF64  | TRW | 066         | 2989      | 2LINE  | BLUEBIRD/OTTAWA |
| HF64  | TRW | 067         | 2987      |        | GILLIG          |
| HF64  | TRW | 071         | 2987      | 2LINE  |                 |
| HF64  | TRW | 076         | 2990      | 2LINE  | FORD            |
| HF64  | TRW | 077         | 2990      | 4LINE  | FORD            |
| HF64  | TRW | 079         | 2989      | 4LINE  | DODGE           |
| HF64  | TRW | 081         | 2989      | 4LINE  |                 |

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION     |
|-------|-----|-------------|-----------|--------|-----------------|
| HF64  | TRW | 087         | 2987      |        | FIRE TRUCK      |
| HF64  | TRW |             |           |        |                 |
| HF64  | TRW | 093         | 2989      | 4LINE  | KENWORTH        |
| HF64  | TRW | 102         | 2989      | 4LINE  | MILITARY        |
| HF64  | TRW | 107         | 2981      | 2LINE  | INTERNATIONAL   |
| HF64  | TRW | 113         | 2984      | 2LINE  | MACK            |
| HF64  | TRW | 114         | 2984      | 2LINE  | MACK            |
| HF64  | TRW | 119         | 2989      | 4LINE  | MACK            |
| HF64  | TRW | 122         | 2990      | 2LINE  | FORD            |
| HF64  | TRW | 123         | 2990      | 4LINE  | FORD            |
| HF64  | TRW | 128         | 2989      | 2LINE  | MACK            |
| HF64  | TRW | 129         | 2989      | 4LINE  | MACK            |
| HF64  | TRW | 069/111     | 2981      | 4LINE  | AUTOCAR/WHITE   |
| HF64  | TRW | 080/112     | 2989      | 4LINE  | WHITE/AUTO/DIAM |
| HF64  | TRW | 088/101     | 2984      | 2LINE  | MACK            |
| HF64  | TRW | 090/075     | 2989      | 2LINE  | MACK            |
| HF64  | TRW | 092/130     | 2987      | 2LINE  | MACK            |



# TRW HFB52

Identification Number

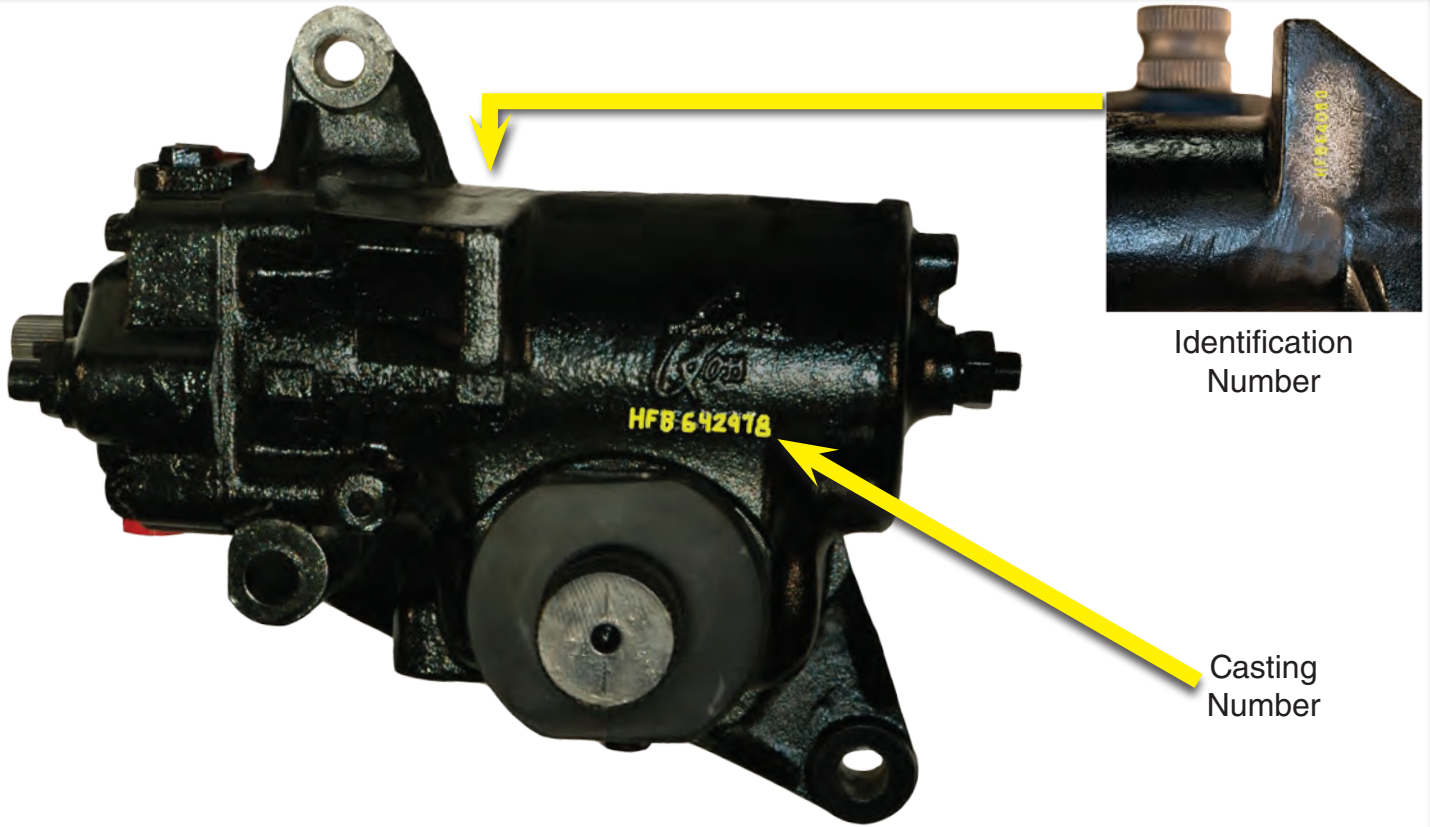


Casting Number

Top View

| MODEL | OEM | PART NUMBER | CASTING # | SERIES         | APPLICATION   |
|-------|-----|-------------|-----------|----------------|---------------|
| HFB52 | TRW | 012         | 2999      |                | FORD          |
| HFB52 | TRW | 015         | 2999      | STREET SWEEPER | ATHEY         |
| HFB52 | TRW | 017         | 2999      |                | FORD          |
| HFB52 | TRW | 028         | 2999      |                | FORD          |
| HFB52 | TRW | 001/011     | 2999      |                | FORD          |
| HFB52 | TRW | 013/033     | 2991      |                | INTERNATIONAL |
| HFB52 | TRW | 014/023     | 2987/2989 |                | FORD          |
| HFB52 | TRW | RCB52001    | 2990      | SLAVE          | INTERNATIONAL |
| HFB52 | TRW | RCB52002    | 2999      | SLAVE          | FORD          |
| HFB52 | TRW | RCB52003    | 2999      | SLAVE          | MACK          |

# TRW HFB64



| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION    |
|-------|-----|-------------|-----------|--------|----------------|
| HFB64 | TRW | 001         | 2998      |        | MACK           |
| HFB64 | TRW | 002         | 2997      |        | AM GENERAL/IHC |
| HFB64 | TRW | 003         | 2988      |        | INTERNATIONAL  |
| HFB64 | TRW | 005         | 2994      |        | FORD           |
| HFB64 | TRW | 006         | 2988      |        | INTERNATIONAL  |
| HFB64 | TRW | 010         | 2988      |        | INTERNATIONAL  |
| HFB64 | TRW | 013         | 2988      |        | INTERNATIONAL  |
| HFB64 | TRW | 016         | 2988      |        | INTERNATIONAL  |
| HFB64 | TRW | 018         | 2992      |        |                |
| HFB64 | TRW | 022         | 2988      |        | INTERNATIONAL  |
| HFB64 | TRW | 023         | 2992      |        | BLUEBIRD/MACK  |
| HFB64 | TRW | 026         | 2996      |        | FREIGHTLINER   |
| HFB64 | TRW | 029         | 2996      |        | KENWORTH/WHITE |
| HFB64 | TRW | 030         | 2996      |        | KENWORTH       |
| HFB64 | TRW | 031         | 2996      |        | PETERBILT      |
| HFB64 | TRW | 033         | 2996      |        | FREIGHTLINER   |
| HFB64 | TRW | 035         | 2997      |        | HME            |
| HFB64 | TRW | 036         | 2998      |        |                |
| HFB64 | TRW | 040         | 2992      |        | GILLIG         |
| HFB64 | TRW | 041         | 2992      |        | BLUEBIRD       |
| HFB64 | TRW | 042         | 2968      |        | FORD           |
| HFB64 | TRW | 043         | 2996      |        | KENWORTH       |
| HFB64 | TRW | 044         | 2994      |        | FORD           |
| HFB64 | TRW | 045         | 2989      |        | INTERNATIONAL  |
| HFB64 | TRW | 046         | 2983      |        | INTERNATIONAL  |

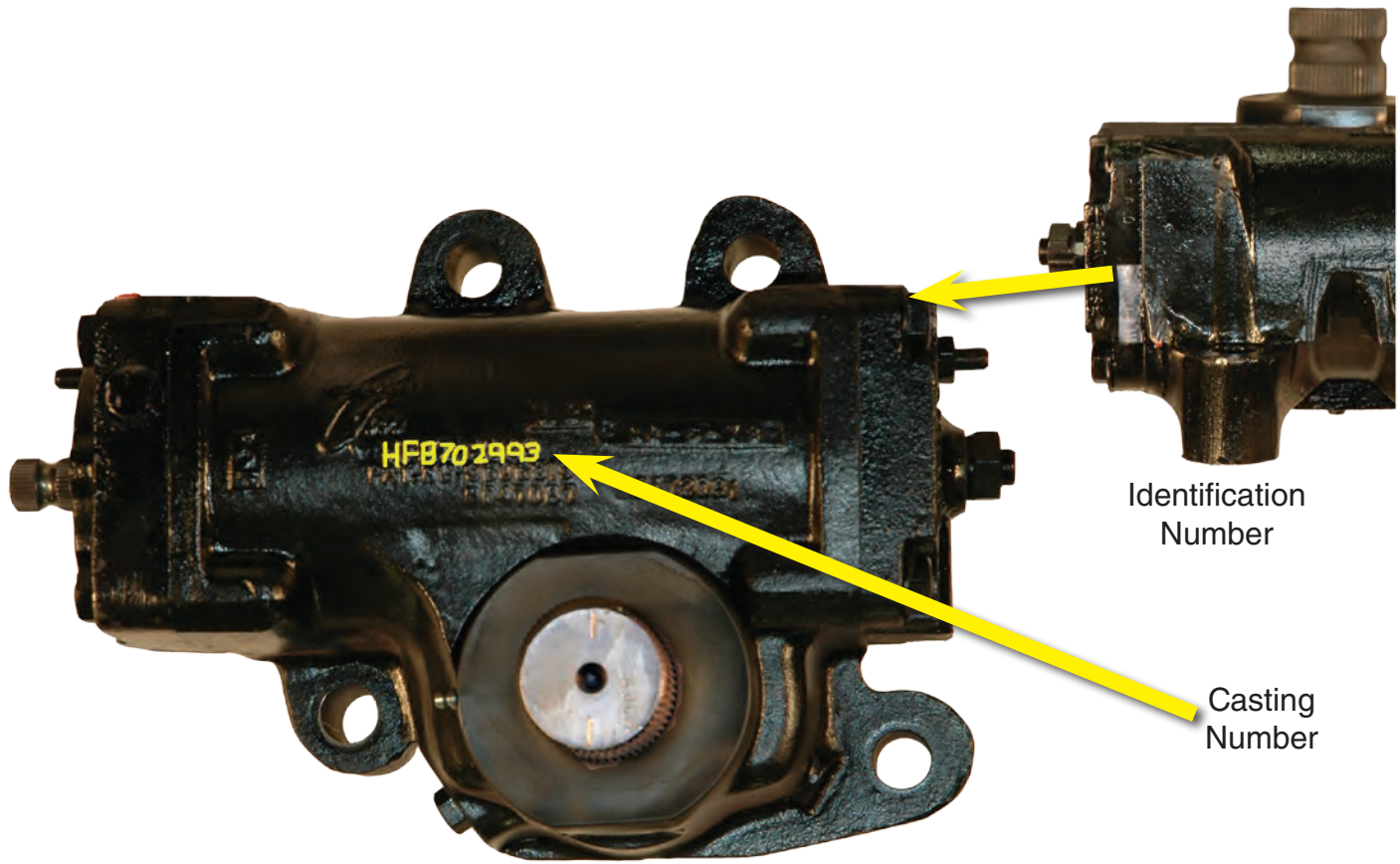
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# TRW HFB64

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION              |
|-------|-----|-------------|-----------|--------|--------------------------|
| HFB64 | TRW | 047         | 2987      |        | INTERNATIONAL            |
| HFB64 | TRW | 050         | 2996      |        | PETERBILT                |
| HFB64 | TRW | 051         | 2978      |        | FORD                     |
| HFB64 | TRW | 052         | 2978      |        |                          |
| HFB64 | TRW | 056         | 2975      |        | GMC                      |
| HFB64 | TRW | 057         | 2988      |        | INTERNATIONAL            |
| HFB64 | TRW | 062         | 2972      |        | MACK                     |
| HFB64 | TRW | 063         | 2972      |        | MACK                     |
| HFB64 | TRW | 066         | 2997      |        | AM GENERAL/INTERNATIONAL |
| HFB64 | TRW | 071         | 2998      |        | OTTAWA                   |
| HFB64 | TRW | 073         | 2997      |        | WHITE                    |
| HFB64 | TRW | 079         | 2978      |        | FORD                     |
| HFB64 | TRW | 080         | 2978      |        | FORD                     |
| HFB64 | TRW | 082         | 2963      |        | KENWORTH                 |
| HFB64 | TRW | 083         | 2963/53   |        | PETERBILT                |
| HFB64 | TRW | 085         | 2964      |        | KENWORTH                 |
| HFB64 | TRW | 086         | 2964      |        | PETERBILT                |
| HFB64 | TRW | 087         | 2964      |        | KENWORTH                 |
| HFB64 | TRW | 088         | 2964      |        | FREIGHTLINER             |
| HFB64 | TRW | 090         | 2962      |        | WHITE/GMC                |
| HFB64 | TRW | 095         | 2960      |        | B-BIRD/CAPACITY          |
| HFB64 | TRW | 097         | 2960      |        | MACK                     |
| HFB64 | TRW | 098         | 2960      |        | BLUEBIRD                 |
| HFB64 | TRW | 099         | 2960      |        | MACK                     |
| HFB64 | TRW | 100         | 2997      |        | OSTERLUND                |
| HFB64 | TRW | 103         | 2956      |        | FREIGHTLINER             |
| HFB64 | TRW | 104         | 2958      |        | FREIGHTLINER             |
| HFB64 | TRW | 105         | 2955      |        | INTERNATIONAL            |
| HFB64 | TRW | 106         | 2976      |        | MACK                     |
| HFB64 | TRW | 107         | 2958      |        | FREIGHTLINER             |
| HFB64 | TRW | 109         | 2997      |        | GRADEALL                 |
| HFB64 | TRW | 114         | 2997      |        | VOLVO/WHITE              |
| HFB64 | TRW | 122         | 2963      |        | MACK                     |
| HFB64 | TRW | 125         | 2951      |        | GMC                      |
| HFB64 | TRW | 126         | 2964      |        | PETERBILT                |
| HFB64 | TRW | 127         | 2964      |        | PETERBILT                |
| HFB64 | TRW | 128         | 2998      |        | OTTAWA                   |
| HFB64 | TRW | 138         | 2972      |        | MACK                     |
| HFB64 | TRW | 008/115     | 2988      |        | INTERNATIONAL            |
| HFB64 | TRW | 012/058     | 2988      |        | INTERNATIONAL            |
| HFB64 | TRW | 055/137/025 | 2976/2985 |        | MACK                     |
| HFB64 | TRW | RCB64001    | 2989      | SLAVE  | INTERNATIONAL            |
| HFB64 | TRW | RCB64002    | 2992      | SLAVE  | KENWORTH                 |
| HFB64 | TRW | RCB64003    | 2997      | SLAVE  | KENWORTH                 |
| HFB64 | TRW | RCB64004    | 2996      | SLAVE  | HME                      |
| HFB64 | TRW | RCB64005    | 2997      | SLAVE  | HME                      |
| HFB64 | TRW | RCB64006    |           | SLAVE  | GMC                      |
| HFB64 | TRW | RCB64007    | 2960      | SLAVE  |                          |
| HFB64 | TRW | RCB64008    | 2964      | SLAVE  | FREIGHTLINER             |
| HFB64 | TRW | RCB64010    | 2962      | SLAVE  | KENWORTH                 |
| HFB64 | TRW | RCB64016    | 2948      | SLAVE  |                          |
| HFB64 | TRW | RCB64017    | 2979      | SLAVE  | FORD                     |
| HFB64 | TRW | RCB64018    | 2979      | SLAVE  | FORD                     |
| HFB64 | TRW | RCB64019    | 2979      | SLAVE  | FORD                     |

# TRW HFB70



Identification  
Number

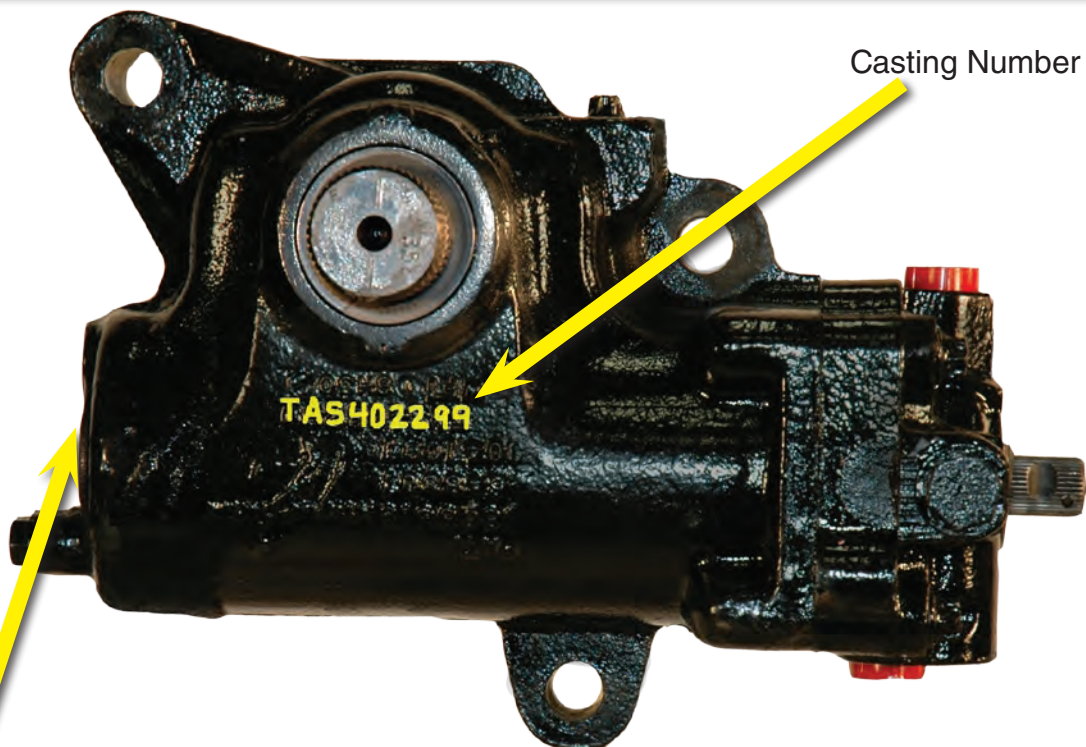
Casting  
Number

| MODEL | OEM | PART NUMBER | CASTING #     | SERIES | APPLICATION     |
|-------|-----|-------------|---------------|--------|-----------------|
| HFB70 | TRW | 014         | 2993          |        | WHITE/WESTERN   |
| HFB70 | TRW | 015         | 2997          |        | MACK            |
| HFB70 | TRW | 016         | 2999          |        | WHITE           |
| HFB70 | TRW | 019         | 2991          |        | WHITE/WESTERN   |
| HFB70 | TRW | 021         | 2998          |        | KENWORTH        |
| HFB70 | TRW | 022         | 2992          |        | PETERBILT       |
| HFB70 | TRW | 026         | 2997          |        |                 |
| HFB70 | TRW | 029         | 2988          |        | MACK            |
| HFB70 | TRW | 030         | 2988          |        | MACK            |
| HFB70 | TRW | 033         | 2993          |        | AM GENERAL      |
| HFB70 | TRW | 036         | 2997 (3 BOLT) |        | PETERBILT       |
| HFB70 | TRW | 037         | 2992          |        | KENWORTH/MACK   |
| HFB70 | TRW | 038         | 2992          |        | KENWORTH        |
| HFB70 | TRW | 042         | 2992          |        | FREIGHTLINER    |
| HFB70 | TRW | 044         | 2990          |        |                 |
| HFB70 | TRW | 045         | 2993          |        | WHITE/WESTERN   |
| HFB70 | TRW | 048         | 2991          |        | MACK            |
| HFB70 | TRW | 049         | 2991          |        | MACK            |
| HFB70 | TRW | 054         | 2989          |        | MCI             |
| HFB70 | TRW | 058         | 2993          |        | HENDRICKSON     |
| HFB70 | TRW | 063         | 2990          |        | BADGER          |
| HFB70 | TRW | 065         | 2992          |        | KENWORTH/MACK   |
| HFB70 | TRW | 066         | 2992          |        | WHITE/WESTERN S |
| HFB70 | TRW | 069         | 2989          |        | PREVOST         |
| HFB70 | TRW | 075         | 2989          |        | MACK/KENWORTH   |

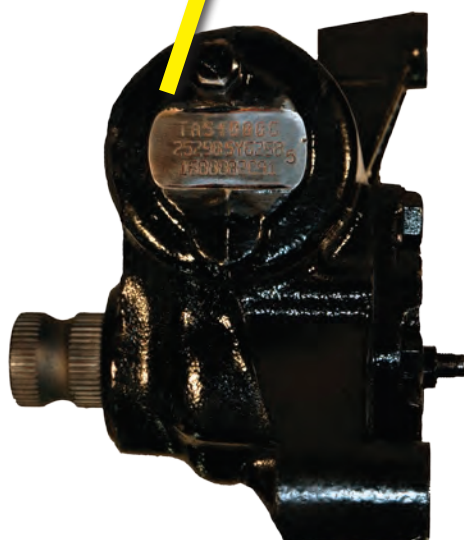
| MODEL | OEM | PART NUMBER | CASTING #     | SERIES | APPLICATION   |
|-------|-----|-------------|---------------|--------|---------------|
| HFB70 | TRW | 077         | 2988          |        | CRANE CARRIER |
| HFB70 | TRW | 081         | 2992          |        | FREIGHTLINER  |
| HFB70 | TRW | 083         | 2993          |        | INTERNATIONAL |
| HFB70 | TRW | 086         | 2992 (3 BOLT) |        | PETERBILT     |
| HFB70 | TRW | 088         | 2990          |        |               |
| HFB70 | TRW | 089         | 2988          |        | PIERCE        |
| HFB70 | TRW | 096         | 2992          |        | PETERBILT     |
| HFB70 | TRW | 097         | 2993          |        | FREIGHTLINER  |
| HFB70 | TRW | 099         | 2991          |        | MACK          |
| HFB70 | TRW | 100         | 2993          |        | WHITE         |
| HFB70 | TRW | 102         | 2991          |        |               |
| HFB70 | TRW | 105         | 2990          |        | SPARTAN       |
| HFB70 | TRW | 107         | 2993          |        | FREIGHTLINER  |
| HFB70 | TRW | 108         | 2989          |        | PREVOST       |
| HFB70 | TRW | 111         | 2988          | MIXER  | ADVANCE       |
| HFB70 | TRW | 113         | 2986          |        | PETERBILT     |
| HFB70 | TRW | 114         | 2986          |        | PETERBILT     |
| HFB70 | TRW | 117         | 2993 (3 BOLT) |        | WESTERN STAR  |
| HFB70 | TRW | 119         | 2988          |        |               |
| HFB70 | TRW | 122         | 2992          |        | WESTERN STAR  |
| HFB70 | TRW | 130         | 2988          |        |               |
| HFB70 | TRW | 131         | 2989          |        |               |
| HFB70 | TRW | RCB70003    | 2993          | SLAVE  | PETERBILT     |
| HFB70 | TRW | SPECIAL APP | 2991          |        | BOWMER POFF   |



# TRW TAS40



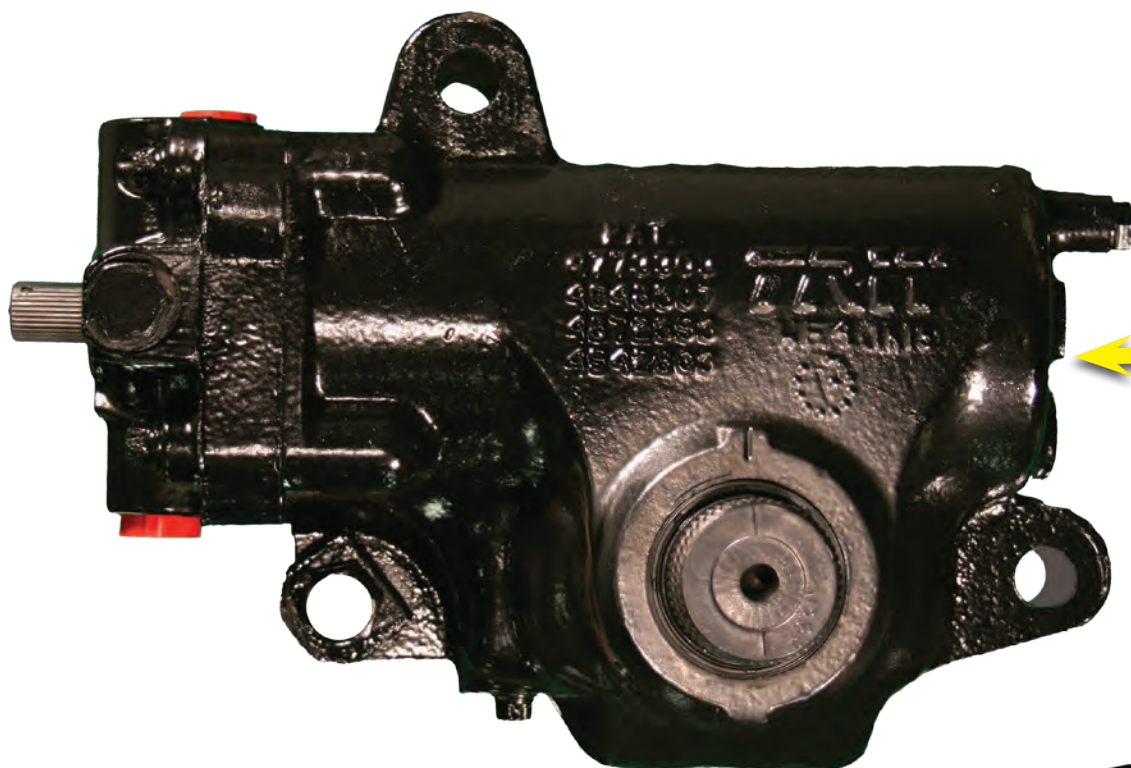
Casting Number



Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | SERIES         | APPLICATION                     |
|-------|-----|-------------|-----------|----------------|---------------------------------|
| TAS40 | TRW | 002         | 2299      |                | INTERNATIONAL                   |
| TAS40 | TRW | 003         | 2299      |                | GILLIG                          |
| TAS40 | TRW | 005/023     | 2297      |                | FREIGHTLINER/PETERBILT/KENWORTH |
| TAS40 | TRW | 006         | 2299      |                | INTERNATIONAL                   |
| TAS40 | TRW | 008         | 2299      |                | INTERNATIONAL                   |
| TAS40 | TRW | 009         | 2295      |                | DINA                            |
| TAS40 | TRW | 011         | 2296      |                | FORD                            |
| TAS40 | TRW | 013         | 2292      |                | FORD                            |
| TAS40 | TRW | 018         | 2295      | STREET SWEEPER | ATHEY                           |
| TAS40 | TRW | 021         | 2299      |                | INTERNATIONAL                   |
| TAS40 | TRW | 023         |           |                | PETERBILT                       |
| TAS40 | TRW | 029         | 2299      |                |                                 |
| TAS40 | TRW | 031         | 2297      |                |                                 |
| TAS40 | TRW | 033         | 2292      |                | FORD                            |
| TAS40 | TRW | 034         | 2291      |                | SPARTAN MOTORS                  |
| TAS40 | TRW | 037         | 2299      |                | INTERNATIONAL                   |
| TAS40 | TRW | 038         | 2297      |                |                                 |
| TAS40 | TRW | 044         | 2596/2284 |                | FORD                            |
| TAS40 | TRW | 045         | 2299      |                | HINO                            |
| TAS40 | TRW | 046         | 2285      |                | INTERNATIONAL                   |
| TAS40 | TRW | 047         | 2297      |                | KENWORTH                        |
| TAS40 | TRW | 048         | 2285      |                | INTERNATIONAL                   |
| TAS40 | TRW | 049         | 2596      |                | FORD                            |
| TAS40 | TRW | 001/007     | 2299      |                | INTERNATIONAL                   |
| TAS40 | TRW | 017/024     | 2292      |                | FORD                            |
| TAS40 | TRW | 040/042     | 2285      |                | INTERNATIONAL                   |
| TAS40 | TRW | RCS40002    | 2294      | SLAVE          | GMC                             |
| TAS40 | TRW | RCS40003    | 2294      | SLAVE          | KENWORTH                        |
| TAS40 | TRW | RCS40005    | 2297      | SLAVE          | KENWORTH                        |
| TAS40 | TRW | RCS40006    | 2295      | SLAVE          | MACK                            |
| TAS40 | TRW | RCS40007    | 2289      | SLAVE          | KENWORTH                        |
| TAS40 | TRW | RCS40010    |           | SLAVE          | VOLVO                           |
| TAS40 | TRW | RCS40011    | 2286      | SLAVE          | VOLVO                           |

# TRW TAS55

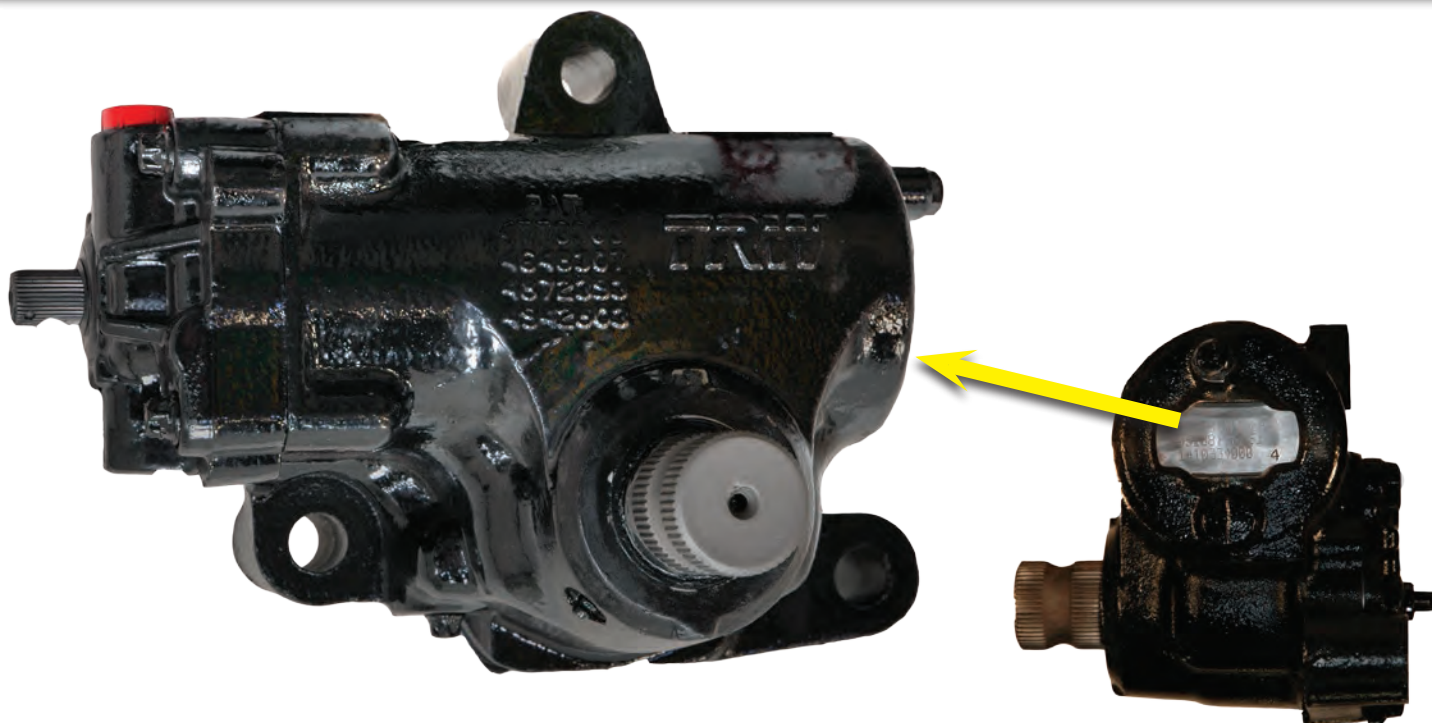


Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|-----|-------------|-----------|--------|---------------|
| TAS55 | TRW | 001         | 2299      |        | INTERNATIONAL |
| TAS55 | TRW | 003         | 2298      |        | FREIGHTLINER  |
| TAS55 | TRW | 004         | 2299      |        | FREIGHTLINER  |
| TAS55 | TRW | 005         | 2297      |        | FORD          |
| TAS55 | TRW | 006         | 2296      |        | FORD          |
| TAS55 | TRW | 008         | 2296      |        | FORD          |
| TAS55 | TRW | 010         | 2293      |        | FORD          |
| TAS55 | TRW | 012         | 2299      |        |               |
| TAS55 | TRW | 015         | 2299      |        |               |
|       | TRW | 016         | 2299      |        |               |
| TAS55 | TRW | 002/011     | 2298      |        | FREIGHTLINER  |
| TAS55 | TRW | RCS55001    | 2295      | SLAVE  | FORD/STERLING |



# TRW TAS65



Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | SERIES   | APPLICATION       |
|-------|-----|-------------|-----------|----------|-------------------|
| TAS65 | TRW | 001         | 2299      |          | INTERNATIONAL     |
| TAS65 | TRW | 004         | 2295      |          | FREIGHTLINER      |
| TAS65 | TRW | 005         | 2293      |          | FREIGHTLINER      |
| TAS65 | TRW | 006         | 2296      |          | WHITE, GMC, VOLVO |
| TAS65 | TRW | 008         | 2292      |          | KENWORTH          |
| TAS65 | TRW | 010         | 2291      |          | FORD              |
| TAS65 | TRW | 011         | 2291      |          | FORD              |
| TAS65 | TRW | 013         | 2296      |          | VOLVO/WHITE       |
| TAS65 | TRW | 015         | 2289      |          | BLUEBIRD          |
| TAS65 | TRW | 017         | 2287      |          | INTERNATIONAL     |
| TAS65 | TRW | 019         | 2298      |          |                   |
| TAS65 | TRW | 020         | 2286      |          | FREIGHTLINER      |
| TAS65 | TRW | 023         | 2284      | SWITCHER | OTTAWA/SISU       |
| TAS65 | TRW | 025         | 2286      |          | PETERBILT         |
| TAS65 | TRW | 026         | 2288      |          | GMC               |
| TAS65 | TRW | 029         | 2283      |          | INTERNATIONAL     |
| TAS65 | TRW | 031         | 2285      |          | SPARTAN           |
| TAS65 | TRW | 033         | 2294      |          | KENWORTH          |
| TAS65 | TRW | 035         | 2295      |          | PETERBILT         |
| TAS65 | TRW | 037         | 2297      |          | GRADEALL          |
| TAS65 | TRW | 041         | 2298      |          | MARMON            |
| TAS65 | TRW | 042         | 2282      |          | INTERNATIONAL     |
| TAS65 | TRW | 044         | 2296      |          |                   |
| TAS65 | TRW | 049         | 2298      |          | FORD              |
| TAS65 | TRW | 051         | 2280      |          | INTERNATIONAL     |
| TAS65 | TRW | 052         | 2286      |          | FREIGHTLINER      |
| TAS65 | TRW | 057         | 2289      | SWITCHER | CAPACITY          |
| TAS65 | TRW | 058         | 2299      |          | INTERNATIONAL     |
| TAS65 | TRW | 059         | 2299      |          | INTERNATIONAL     |

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# TRW TAS65

| MODEL | OEM | PART NUMBER | CASTING #     | SERIES | APPLICATION     |
|-------|-----|-------------|---------------|--------|-----------------|
| TAS65 | TRW | 060         | 2289          |        | VOLVO           |
| TAS65 | TRW | 063         | 2297          |        |                 |
| TAS65 | TRW | 064         | 2296          |        | KENWORTH        |
| TAS65 | TRW | 065         | 2279          |        | FORD            |
| TAS65 | TRW | 067         | 2289          |        |                 |
| TAS65 | TRW | 070         | 2291          |        | FORD            |
| TAS65 | TRW | 071         | 2291          |        | FORD            |
| TAS65 | TRW | 073         | 2288          |        | CHEVY/GMC       |
| TAS65 | TRW | 076         | 2284          |        |                 |
| TAS65 | TRW | 082         | 2276          |        | FORD            |
| TAS65 | TRW | 083         | 2277          |        | FORD FT900      |
| TAS65 | TRW | 084         | 2289          |        | BLUEBIRD        |
| TAS65 | TRW | 087         | 2286          |        | PETERBILT       |
| TAS65 | TRW | 088         | 2275          |        | MACK            |
| TAS65 | TRW | 091         | 2292          |        | PETERBILT       |
| TAS65 | TRW | 094         | 2272          |        | MACK            |
| TAS65 | TRW | 095         | 2271          |        | MACK            |
| TAS65 | TRW | 099         | 2273          |        | VOLVO           |
| TAS65 | TRW | 100         | 2270          |        | FORD            |
| TAS65 | TRW | 101         | 2278          |        | FORD            |
| TAS65 | TRW | 103         | 2269          |        | FORD/STERLING   |
| TAS65 | TRW | 104         | 2268          |        | FORD/STERLING   |
| TAS65 | TRW | 105         | 2267          |        | FORD/STERLING   |
| TAS65 | TRW | 107         | 2280          |        | DINA            |
| TAS65 | TRW | 109         | 2295          |        | HME             |
| TAS65 | TRW | 114         | 2289          |        | PETERBILT       |
| TAS65 | TRW | 115         | 2280          |        | BLUE BIRD       |
| TAS65 | TRW | 116         | 2273          |        | PETERBILT       |
| TAS65 | TRW | 117         | 2266          |        | FORD/AUSTRALIA  |
| TAS65 | TRW | 118         | 2279          |        | FORD            |
| TAS65 | TRW | 119/129     | 2262          |        | FREIGHTLINER    |
| TAS65 | TRW | 122         | 2269          |        | STERLING        |
| TAS65 | TRW | 125         | 2260          |        | FORD            |
| TAS65 | TRW | 126         | 2286          |        | SPARTAN MOTORS  |
| TAS65 | TRW | 127         | 2261          |        | KENWORTH        |
| TAS65 | TRW | 131         | 2271          |        | MACK            |
| TAS65 | TRW | 132         | 2296 (3 BOLT) |        | STERLING        |
| TAS65 | TRW | 137         | 2280          |        |                 |
| TAS65 | TRW | 140         | 2295          |        | FREIGHTLINER    |
| TAS65 | TRW | 156         | 2293          |        |                 |
| TAS65 | TRW | 159         | 2295          |        |                 |
| TAS65 | TRW | 160         | 2296          |        | SPARTAN CHASSIS |
| TAS65 | TRW | 164         | 2285          |        |                 |
| TAS65 | TRW | 179         | 2259          |        | VOLVO           |
| TAS65 | TRW | 180         | 2259          |        | VOLVO           |
| TAS65 | TRW | 183         | 2273          |        | FREIGHTLINER    |
| TAS65 | TRW | 186         | 2280          |        |                 |
| TAS65 | TRW | 189         | 2256          |        | MACK            |
| TAS65 | TRW | 191         | 2259          |        | VOLVO           |
| TAS65 | TRW | 194         | 2296          |        |                 |
| TAS65 | TRW | 196         | 2284          |        | FREIGHTLINER    |
| TAS65 | TRW | 197         |               |        | PETERBILT       |
| TAS65 | TRW | 198         | 2256          |        | MACK            |

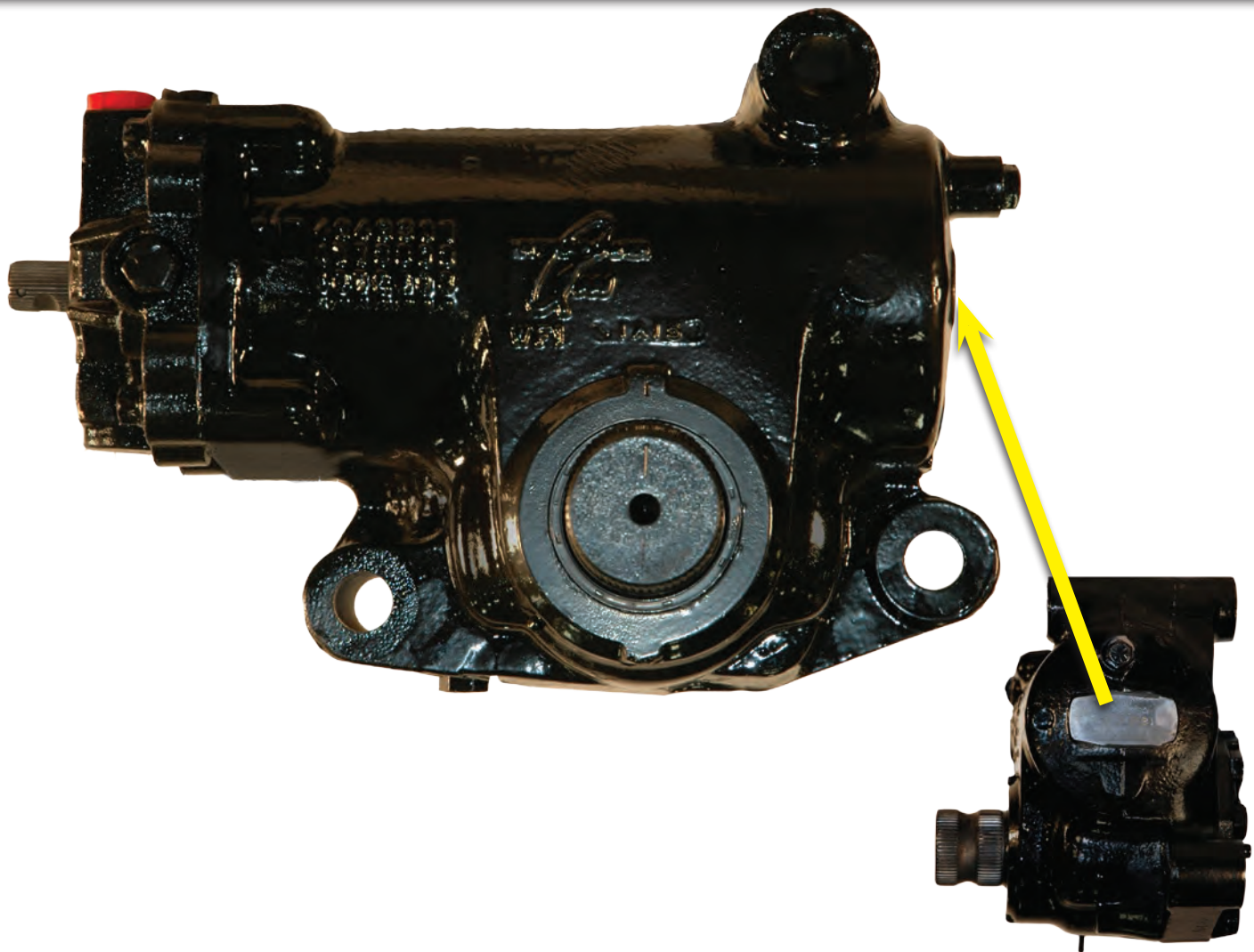
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# TRW TAS65

| MODEL | OEM | PART NUMBER | CASTING # | SERIES   | APPLICATION         |
|-------|-----|-------------|-----------|----------|---------------------|
| TAS65 | TRW | 199         | 2265      |          | VOLVO               |
| TAS65 | TRW | 202         | 2256      |          | MACK                |
| TAS65 | TRW | 203         | 2286      |          | SPARTAN             |
| TAS65 | TRW | 204         | 2254      |          | VOLVO               |
| TAS65 | TRW | 208         | 2286      |          | HINO                |
| TAS65 | TRW | 209         | 2286      |          |                     |
| TAS65 | TRW | 210         | 2254      |          |                     |
| TAS65 | TRW | 211         | 2254      |          |                     |
| TAS65 | TRW | 212         | 2252      |          |                     |
| TAS65 | TRW | 214         | 2274      |          | KENWORTH            |
| TAS65 | TRW | 216         | 2250      |          | MACK                |
| TAS65 | TRW | 217         | 2294      |          |                     |
| TAS65 | TRW | 218         | 2249      |          | KENWORTH            |
| TAS65 | TRW | 219         | 2249      |          | KENWORTH            |
| TAS65 | TRW | 222         | 2250      |          | MACK                |
| TAS65 | TRW | 224         | 2280      |          | AUTOCAR             |
| TAS65 | TRW | 230         | 2295      |          | WESTERN STAR        |
| TAS65 | TRW | 66001       | 2258      |          | INTERNATIONAL       |
| TAS65 | TRW | 66002/66004 | 2258      |          | INTERNATIONAL       |
| TAS65 | TRW | 66003       | 2282      |          | INTERNATIONAL       |
| TAS65 | TRW | 66005       | 2253      |          | INTERNATIONAL       |
| TAS65 | TRW | 66006       | 2250      |          | MACK                |
| TAS65 | TRW | 66007       | 2251      |          | MACK                |
| TAS65 | TRW | 66008       | 2250      |          | MACK                |
| TAS65 | TRW | 66015       | 2250      |          | MACK                |
| TAS65 | TRW | 66017       | 2253      |          | FORD                |
| TAS65 | TRW | 66019       | 2250      |          | MACK                |
| TAS65 | TRW | 66024       | 2250      |          |                     |
| TAS65 | TRW | 003/072     | 2297      |          | WHITE/VOLVO         |
| TAS65 | TRW | 007/090/086 | 2294/2274 |          | KENWORTH            |
| TAS65 | TRW | 009/024     | 2292      |          | PETERBILT           |
| TAS65 | TRW | 012/092/142 | 2290      |          | MACK                |
| TAS65 | TRW | 014/166     | 2295      |          | WSTRN STAR/PETE     |
| TAS65 | TRW | 028/085     | 2289      |          | GILLIG              |
| TAS65 | TRW | 038/170     | 2297      |          | OSTERLUND           |
| TAS65 | TRW | 047/130     | 2291      |          | FORD/STERLING       |
| TAS65 | TRW | 048/135     | 2291      |          | FORD                |
| TAS65 | TRW | 053/102     | 2295      | SWITCHER | FREIGHTLINER/OTTAWA |
| TAS65 | TRW | 074/111     | 2278      |          | FORD                |
| TAS65 | TRW | 079/133     | 2296      |          | KENWORTH            |
| TAS65 | TRW | 129/155/157 | 2262      |          | FREIGHTLINER        |
| TAS65 | TRW | 143/150     | 2265      |          | VOLVO               |
| TAS65 | TRW | RCS65001    | 2266      | SLAVE    | FORD/STERLING       |
| TAS65 | TRW | RCS65002    | 2266      | SLAVE    | FORD                |
| TAS65 | TRW | RCS65005    | 2292      | SLAVE    | FREIGHTLINER        |
| TAS65 | TRW | RCS65006    | 2270      | SLAVE    | FORD                |
| TAS65 | TRW | RCS65007    | 2292      | SLAVE    |                     |
| TAS65 | TRW | RCS65008    | 2295      | SLAVE    |                     |
| TAS65 | TRW | RCS65009    | 2289      | SLAVE    |                     |
| TAS65 | TRW | RCS65012    | 2296      | SLAVE    | KENWORTH            |
| TAS65 | TRW | RCS65017    | 2273      | SLAVE    | MCNEILUS/SPARTN     |
| TAS65 | TRW | RCS65018    | 2266      | SLAVE    | STERLING            |
| TAS65 | TRW | RCS65020    | 2285      | SLAVE    |                     |
| TAS65 | TRW | RCS65022    | 2289      | SLAVE    | FREIGHTLINER CONDOR |

# TRW TAS85



Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION  |
|-------|-----|-------------|-----------|--------|--------------|
| TAS85 | TRW | 001         | 2299      |        | VOLVO        |
| TAS85 | TRW | 002/128     | 2298      |        | WESTERN STAR |
| TAS85 | TRW | 003         | 2297      |        | FORD         |
| TAS85 | TRW | 005         | 2296      |        | PIERCE       |
| TAS85 | TRW | 006         | 2298      |        | WESTERN STAR |
| TAS85 | TRW | 008         | 2295      | MIXER  | ADVANCE      |
| TAS85 | TRW | 010         | 2298      |        | FREIGHTLINER |
| TAS85 | TRW | 011         | 2292      |        | CRANE        |
| TAS85 | TRW | 013         | 2294      |        | KENWORTH     |
| TAS85 | TRW | 014         | 2295      |        | CCC/SPARTAN  |
| TAS85 | TRW | 017         | 2288      |        | SIMON LADDER |
| TAS85 | TRW | 020         | 2290      |        | FREIGHTLINER |
| TAS85 | TRW | 021         |           |        | VOLVO        |
| TAS85 | TRW | 028         | 2287      |        |              |
| TAS85 | TRW | 029         | 2291      |        | MCI          |
| TAS85 | TRW | 030         | 2296      |        | FWD          |
| TAS85 | TRW | 033         | 2294      |        | PIERCE       |

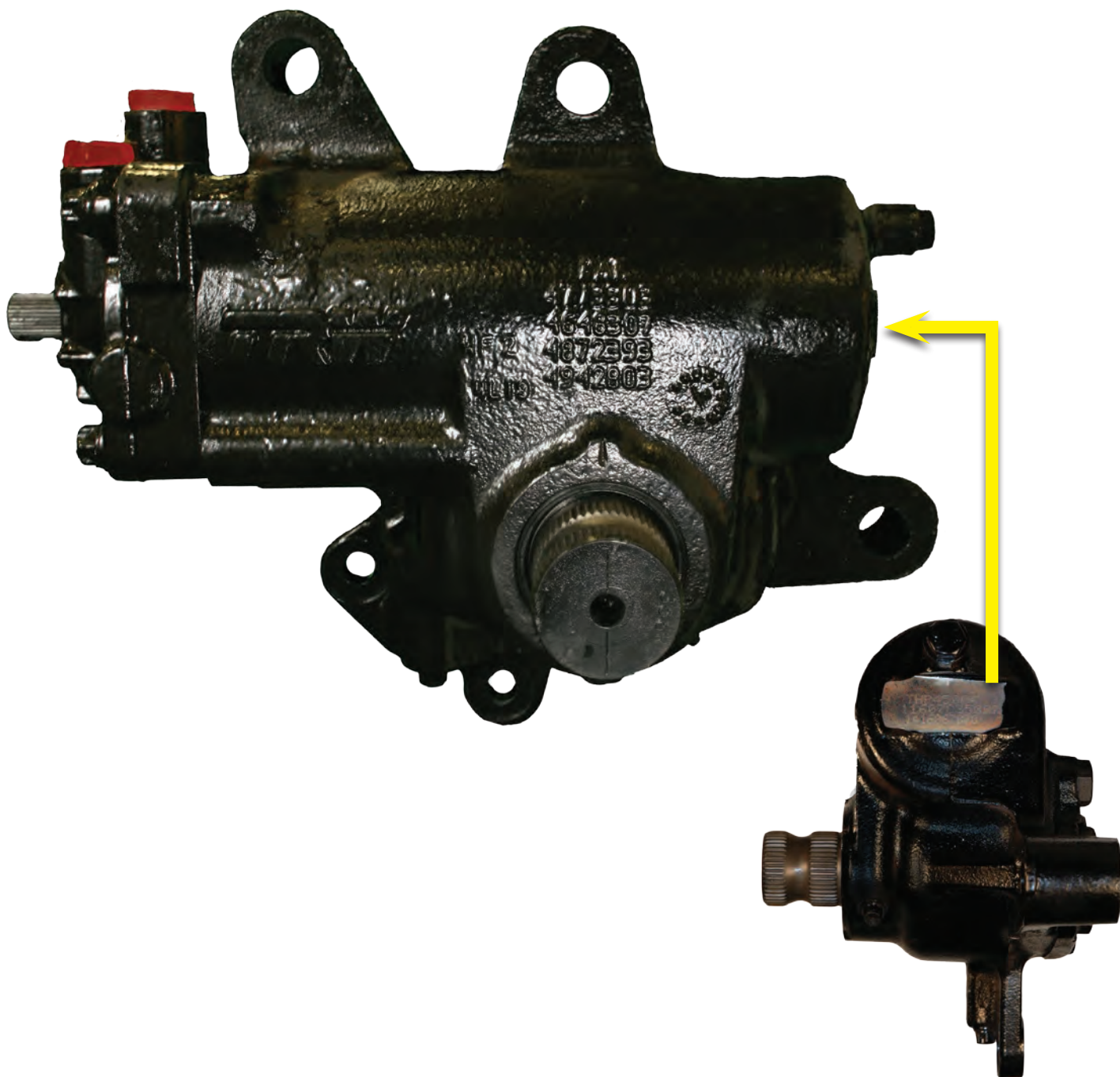
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# TRW TAS85

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|-----|-------------|-----------|--------|---------------|
| TAS85 | TRW | 036         | 2290      |        | PETERBILT     |
| TAS85 | TRW | 037         | 2287-2284 |        | SUTPHEN       |
| TAS85 | TRW | 040         | 2295      |        | MCI           |
| TAS85 | TRW | 048         | 2284      |        | KENWORTH      |
| TAS85 | TRW | 051         | 2282      |        | FORD/STERLING |
| TAS85 | TRW | 052         | 2292      |        | PETERBILT     |
| TAS85 | TRW | 053         | 2291      |        | PETERBILT     |
| TAS85 | TRW | 054         | 2295      |        | PETERBILT     |
| TAS85 | TRW | 055         | 2292      |        | PETERBILT     |
| TAS85 | TRW | 059         | 2297      |        | FORD          |
| TAS85 | TRW | 063         | 2299      |        | VOLVO         |
| TAS85 | TRW | 066         | 2293      |        |               |
| TAS85 | TRW | 067         | 2296      |        |               |
| TAS85 | TRW | 069         | 2287-2284 | MIXER  | PETERBILT     |
| TAS85 | TRW | 070         | 2298      |        | WESTERN STAR  |
| TAS85 | TRW | 074         | 2292      |        | PETERBILT     |
| TAS85 | TRW | 076         | 2281      |        | VOLVO         |
| TAS85 | TRW | 079         | 2293      |        |               |
| TAS85 | TRW | 081         | 2295      |        |               |
| TAS85 | TRW | 082         | 2290      |        |               |
| TAS85 | TRW | 088         | 2280      |        | KENWORTH      |
| TAS85 | TRW | 089         | 2287-2284 | MIXER  | SPARTAN       |
| TAS85 | TRW | 091         | 2294      |        | KENWORTH      |
| TAS85 | TRW | 098         | 2288      |        | SPARTAN       |
| TAS85 | TRW | 100         | 2288      |        | PIERCE        |
| TAS85 | TRW | 106         | 2293      |        |               |
| TAS85 | TRW | 109         | 2298      |        | FREIGHTLINER  |
| TAS85 | TRW | 111         | 2290      |        | PIERCE        |
| TAS85 | TRW | 118         | 2288      |        |               |
| TAS85 | TRW | 119         | 2282      |        | FREIGHTLINER  |
| TAS85 | TRW | 123         | 2299      |        |               |
| TAS85 | TRW | 126         | 2986      |        | BLUEBIRD      |
| TAS85 | TRW | 130         | 2286      |        | FREIGHTLINER  |
| TAS85 | TRW | 131         | 2277      |        |               |
| TAS85 | TRW | 133         | 2295      |        |               |
| TAS85 | TRW | 134         | 2276      |        | FREIGHTLINER  |
| TAS85 | TRW | 136         | 2295      |        | SPARTAN       |
| TAS85 | TRW | 142         | 2275      |        | FREIGHTLINER  |
| TAS85 | TRW | 145         | 2274      |        |               |
| TAS85 | TRW | 147         | 2273      |        | KENWORTH      |
| TAS85 | TRW | 148         | 2293      |        |               |
| TAS85 | TRW | 151         | 2296      |        |               |
| TAS85 | TRW | 166         | 2290      |        | SPARTAN       |
| TAS85 | TRW | 175         | 2267      |        |               |
| TAS85 | TRW | 182         | 2295      |        |               |
| TAS85 | TRW | 616         | 49001400  |        |               |
| TAS85 | TRW | 038/049/062 | 2294      |        | KENWORTH      |
| TAS85 | TRW | RCS85006    | 2294      | SLAVE  | PACCAR        |

# TRW THP45

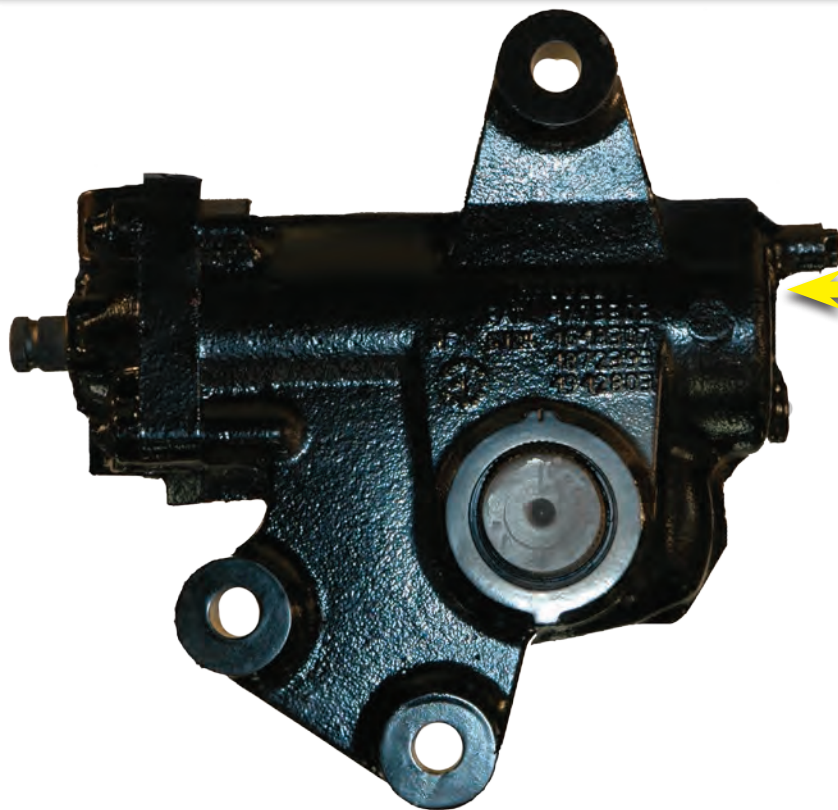


Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION  |
|-------|-----|-------------|-----------|--------|--------------|
| THP45 | TRW | 001         | 2299      |        | FREIGHTLINER |
| THP45 | TRW | 002         | 2299      |        | FREIGHTLINER |
| THP45 | TRW | 003         | 2296      |        |              |
| THP45 | TRW | 004         | 2296      |        | FREIGHTLINER |
| THP45 | TRW | 005         | 2291      |        |              |
| THP45 | TRW | RCH45001    | 2298      | SLAVE  | STERLING     |
| THP45 | TRW | RCH45003    | 2297      | SLAVE  | FREIGHTLINER |
| THP45 | TRW | RCH45004    | 2295      | SLAVE  | FREIGHTLINER |
| THP45 | TRW | RCH45005    | 2294      | SLAVE  | VOLVO        |



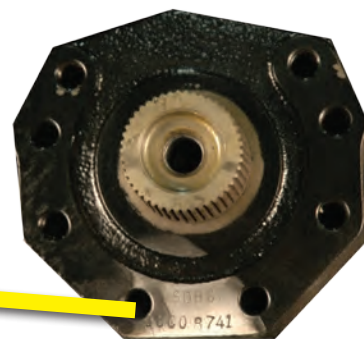
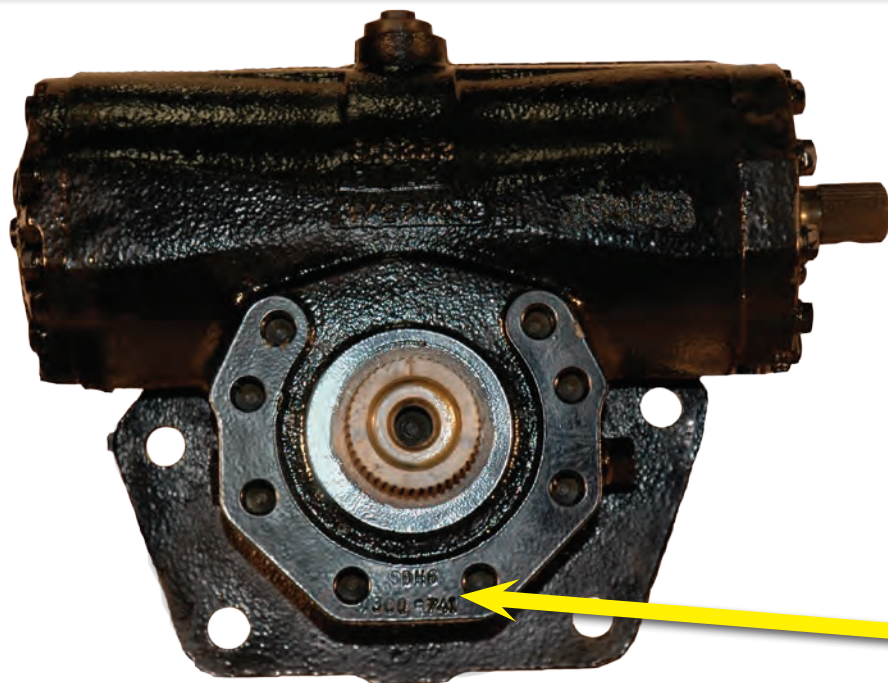
# TRW THP60



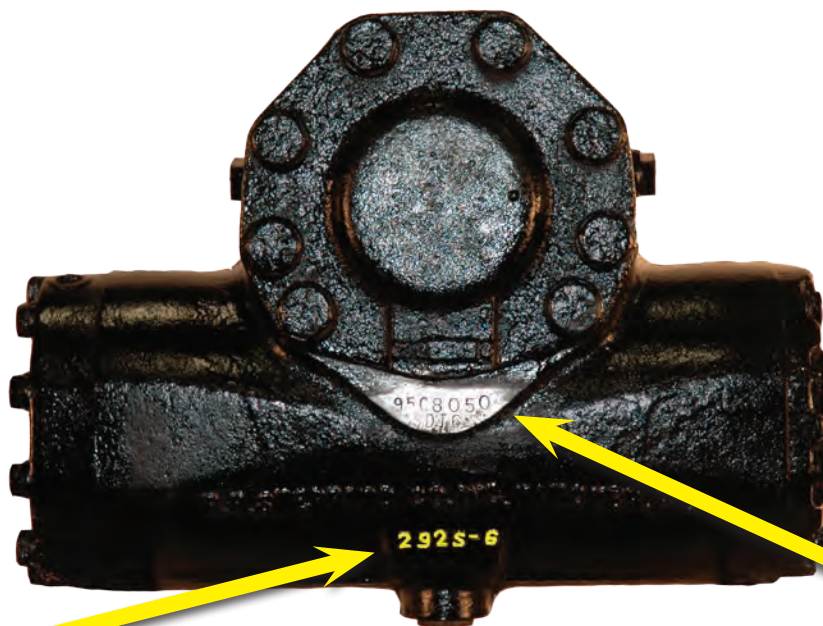
Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|-----|-------------|-----------|--------|---------------|
| THP60 | TRW | 001         | 2296      |        | FREIGHTLINER  |
| THP60 | TRW | 002         | 2297      |        |               |
| THP60 | TRW | 003         | 2298      |        |               |
| THP60 | TRW | 004         | 2296      |        | VOLVO         |
| THP60 | TRW | 006         | 2299      |        | FREIGHTLINER  |
| THP60 | TRW | 007         | 2295      |        | FREIGHTLINER  |
| THP60 | TRW | 008         | 2295      |        | FREIGHTLINER  |
| THP60 | TRW | 009         | 2296      |        | VOLVO         |
| THP60 | TRW | 010         | 2295      |        | FREIGHTLINER  |
| THP60 | TRW | 011         | 2295      |        | FREIGHTLINER  |
| THP60 | TRW | 017         | 2295      |        | FREIGHTLINER  |
| THP60 | TRW | 018         | 2296      |        |               |
| THP60 | TRW | 019         | 2288      |        | VOLVO         |
| THP60 | TRW | 021         | 2287      |        | FREIGHTLINER  |
| THP60 | TRW | 024         | 2283      |        | BLUEBIRD      |
| THP60 | TRW | 025         | 2286      |        | INTERNATIONAL |
| THP60 | TRW | 026         | 2282      |        |               |
| THP60 | TRW | 031         | 2279      |        |               |
| THP60 | TRW | 032         | 2299      |        |               |
| THP60 | TRW | PCF60001    | 2299      |        | FREIGHTLINER  |
| THP60 | TRW | PCF60003    | 2289      |        | INTERNATIONAL |
| THP60 | TRW | PCF60004    | 2285      |        | INTERNATIONAL |
| THP60 | TRW | PCF60006    | 2280      |        | INTERNATIONAL |
| THP60 | TRW | RCH60003    | 2293      | SLAVE  | KENWORTH      |
| THP60 | TRW | RCH60004    | 2291      | SLAVE  |               |
| THP60 | TRW | RCH60007    | 2281      | SLAVE  |               |

# SHEPPARD 292



Identification Number



Casting Number

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Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| 292   | SHEPPARD | AJL4        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | AR4         | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | BAR2        | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | BLL4        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | BYL4        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | CBL4        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | ER2         | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | K4          | 292       |        | INTERNATIONAL |

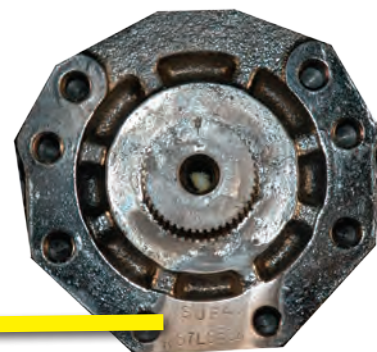
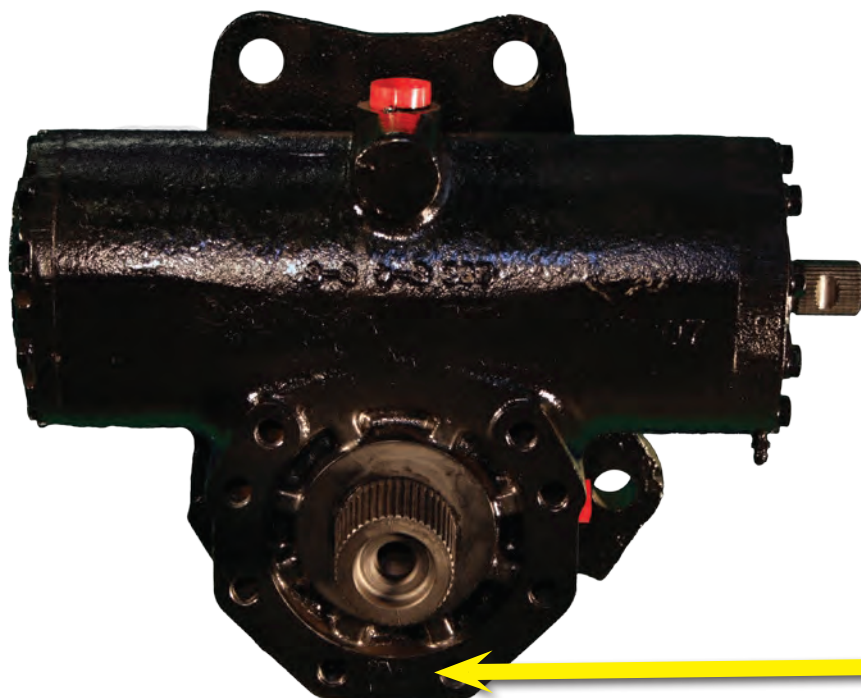
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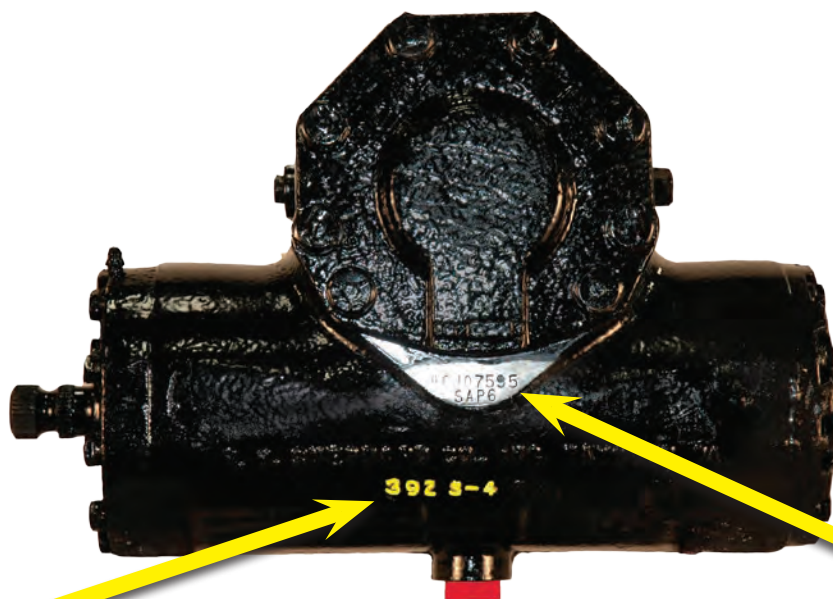
# SHEPPARD 292

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| 292   | SHEPPARD | LR2         | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | RL1         | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | RR2         | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SA1         | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SAD5        | 292       |        | GMC           |
| 292   | SHEPPARD | SAF6        | 292       |        |               |
| 292   | SHEPPARD | SAL5        | 292       |        | MACK          |
| 292   | SHEPPARD | SAL6        | 292       |        | MACK          |
| 292   | SHEPPARD | SAN6        | 292       |        |               |
| 292   | SHEPPARD | SB1         | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SBE5        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SBF6        | 292       |        | GMC/CHEV      |
| 292   | SHEPPARD | SBG5        | 292       | SLAVE  | GMC           |
| 292   | SHEPPARD | SBG6        | 292       | SLAVE  | GMC           |
| 292   | SHEPPARD | SBP5        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SBP6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SBQ6        | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SBX6        | 292       |        | GMC/CHEVY     |
| 292   | SHEPPARD | SBY6        | 292       | SLAVE  | GMC/CHEVY     |
| 292   | SHEPPARD | SCA5        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SCA6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SCB5        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SCB6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SCC6        | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SCD6        | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SC06        | 292       | SLAVE  |               |
| 292   | SHEPPARD | SCX6        | 292       |        | GMC           |
| 292   | SHEPPARD | SCY6        | 292       | SLAVE  | GMC/CHEVY     |
| 292   | SHEPPARD | SDH6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SDJ6        | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SDK6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SDL6        | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SD06        | 292       |        | MACK          |
| 292   | SHEPPARD | SDP6        | 292       |        | MACK/RENAULT  |
| 292   | SHEPPARD | SDT6        | 292       | SLAVE  | MACK          |
| 292   | SHEPPARD | SDV6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SDW6        | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SEP6        | 292       | SLAVE  | KENWORTH/MACK |
| 292   | SHEPPARD | SEQ6        | 292       | SLAVE  |               |
| 292   | SHEPPARD | SET6        | 292       |        | MACK          |
| 292   | SHEPPARD | SEX6        | 292       | SLAVE  | KENWORTH      |
| 292   | SHEPPARD | SEZ6        | 292       | SLAVE  | SPARTAN       |
| 292   | SHEPPARD | SL4         | 292       |        | INTERNATIONAL |
| 292   | SHEPPARD | SP6         | 292       | SLAVE  | MACK          |
| 292   | SHEPPARD | SR1         | 292       | SLAVE  | INTERNATIONAL |
| 292   | SHEPPARD | SWZ5        | 292       |        | MACK          |
| 292   | SHEPPARD | SY4         | 292       |        | MACK          |

# SHEPPARD 392



Identification Number



Casting Number

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Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| 392   | SHEPPARD | AR2         | 392       |        | KENWORTH      |
| 392   | SHEPPARD | AHL         | 392       |        |               |
| 392   | SHEPPARD | BD5         | 392       |        | INTERNATIONAL |
| 392   | SHEPPARD | BEL2        | 392       |        | INTERNATIONAL |
| 392   | SHEPPARD | BER3        | 392       | SLAVE  | INTERNATIONAL |
| 392   | SHEPPARD | BR5         | 392       |        | INTERNATIONAL |
| 392   | SHEPPARD | BSL5        | 392       |        | INTERNATIONAL |
| 392   | SHEPPARD | BXL5        | 392       |        | INTERNATIONAL |

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| 392   | SHEPPARD | BXR3        | 392       | SLAVE  | INTERNATIONAL |
| 392   | SHEPPARD | CG4         | 392       |        | KENWORTH      |
| 392   | SHEPPARD | CVL5        | 392       |        | INTERNATIONAL |
| 392   | SHEPPARD | CXL5        | 392       |        | AUTOCAR       |
| 392   | SHEPPARD | EJR3        | 392       | SLAVE  | MARMON        |
| 392   | SHEPPARD | ENR3        | 392       | SLAVE  |               |
| 392   | SHEPPARD | EWL5        | 392       |        | INTERNATIONAL |
| 392   | SHEPPARD | F1          | 392       |        | INTERNATIONAL |

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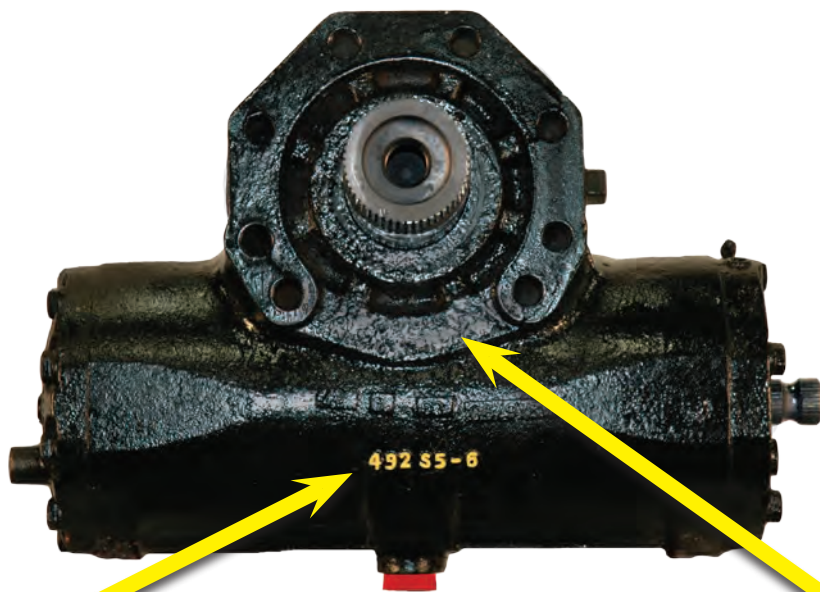
# SHEPPARD 392

| MODEL | OEM      | PART NUMBER    | CASTING # | SERIES | APPLICATION     |
|-------|----------|----------------|-----------|--------|-----------------|
| 392   | SHEPPARD | SAL4           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SA03           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SAP6           | 392       |        | MACK            |
| 392   | SHEPPARD | SAR3           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SAS3           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SAV4           | 392       |        |                 |
| 392   | SHEPPARD | SBG3           | 392       |        | MARMON          |
| 392   | SHEPPARD | SBN3           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SB04           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SBV4           | 392       |        | MACK            |
| 392   | SHEPPARD | SBV6           | 392       |        | MACK            |
| 392   | SHEPPARD | SBX6           | 392       |        | MACK            |
| 392   | SHEPPARD | SCB4           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SCH4           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SCS3           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SCT3           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SCU4           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SDX5           | 392       |        | PETERBILT       |
| 392   | SHEPPARD | SDY4           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SEC4           | 392       |        | MACK            |
| 392   | SHEPPARD | SEK5           | 392       |        | KENWORTH        |
| 392   | SHEPPARD | SEL5           | 392       |        | KENWORTH        |
| 392   | SHEPPARD | SER5           | 392       |        | KENWORTH        |
| 392   | SHEPPARD | SER6           | 392       |        | KENWORTH        |
| 392   | SHEPPARD | SEU6/SHY6      | 392       |        | VOLVO/WHITE/GMC |
| 392   | SHEPPARD | SFQ5           | 392       |        | GMC/CHEVROLET   |
| 392   | SHEPPARD | SFR5           | 392       |        | GMC             |
| 392   | SHEPPARD | SFS6           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SFU4/SGS4      | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SFV4           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SFV6           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SFY6           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SFZ6           | 392       |        | GMC             |
| 392   | SHEPPARD | SGA6           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SGF6           | 392       |        | PETERBILT       |
| 392   | SHEPPARD | SGL6           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SGM6           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SGO6           | 392       |        | PETERBILT       |
| 392   | SHEPPARD | SGW6           | 392       |        | MACK            |
| 392   | SHEPPARD | SGX6           | 392       |        | FREIGHTLINER    |
| 392   | SHEPPARD | SHA4/SGK4/SFP4 | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SHD4           | 392       | MITER  | CRANE CARRIER   |
| 392   | SHEPPARD | SHE4           | 392       |        |                 |
| 392   | SHEPPARD | SHM6           | 392       |        | MACK            |
| 392   | SHEPPARD | SHQ4           | 392       |        | PETERBILT       |
| 392   | SHEPPARD | SHU4           | 392       |        | MACK            |
| 392   | SHEPPARD | SHW6           | 392       |        | MACK            |
| 392   | SHEPPARD | SJB6           | 392       | MITER  | MACK            |
| 392   | SHEPPARD | SJD6           | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SJF4           | 392       |        | INTERNATIONAL   |

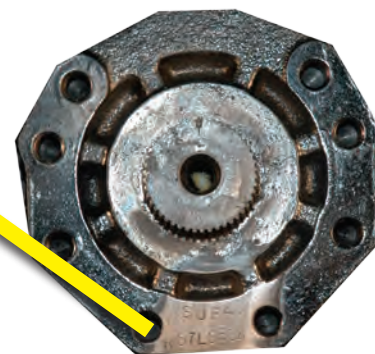
| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION     |
|-------|----------|-------------|-----------|--------|-----------------|
| 392   | SHEPPARD | SJK6        | 392       |        |                 |
| 392   | SHEPPARD | SJM6        | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SJN6        | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SJP6        | 392       | SLAVE  | KENWORTH        |
| 392   | SHEPPARD | SJT6        | 392       |        | KENWORTH        |
| 392   | SHEPPARD | SJV6        | 392       |        | VOLVO/GM/WESTER |
| 392   | SHEPPARD | SKL6        | 392       | SLAVE  | HME             |
| 392   | SHEPPARD | SKT6        | 392       |        | MACK            |
| 392   | SHEPPARD | SU4         | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SV4         | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | SX3         | 392       |        | MACK            |
| 392   | SHEPPARD | T2          | 392       |        | INTERNATIONAL   |
| 392   | SHEPPARD | V1          | 392       |        | MACK            |
| 392   | SHEPPARD | Z1          | 392       | MITER  | MACK            |

## NOTES

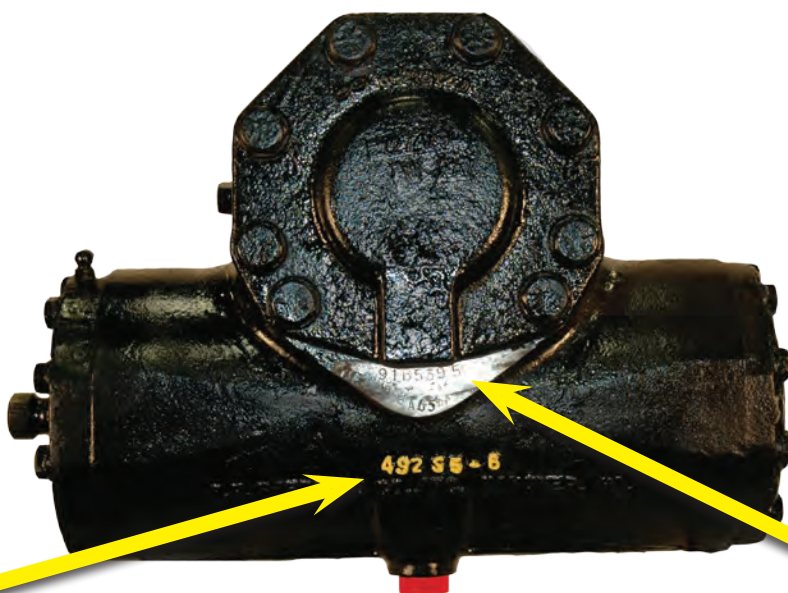
# SHEPPARD 492



Casting Number



Identification Number



Casting Number

Back View

Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION |
|-------|----------|-------------|-----------|--------|-------------|
| 492   | SHEPPARD | 9R113       | 492       |        |             |
| 492   | SHEPPARD | A04         | 492       |        | PIRSCH      |
| 492   | SHEPPARD | AP4         | 492       |        | GMC/MCI     |
| 492   | SHEPPARD | AR          | 492       |        | MACK        |
| 492   | SHEPPARD | AY3         | 492       |        | BROCKWAY    |
| 492   | SHEPPARD | BH1         | 492       |        | MACK        |
| 492   | SHEPPARD | BH3         | 492       |        | MACK        |

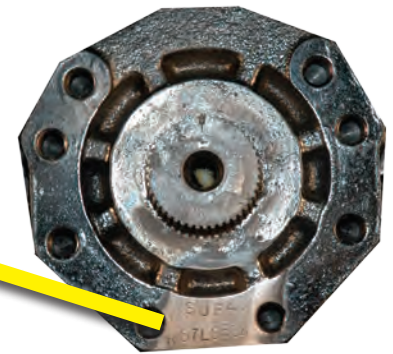
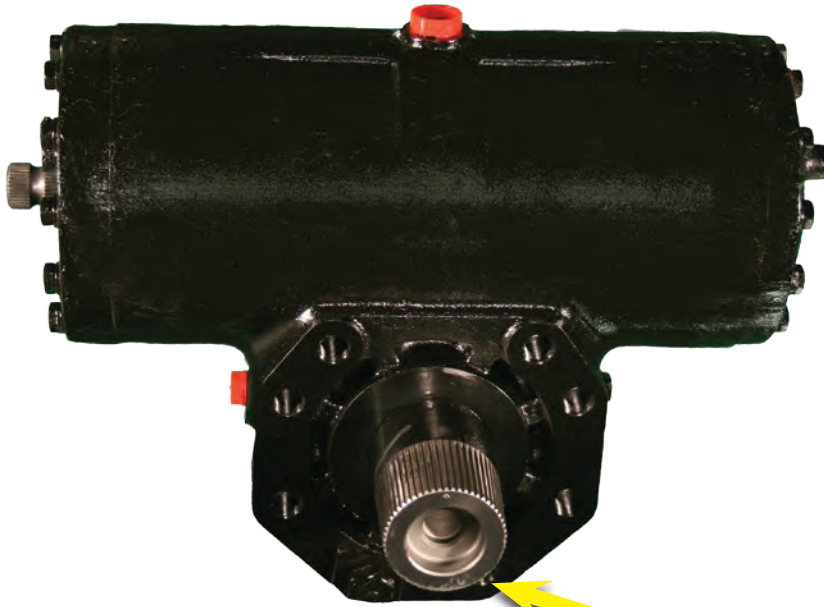
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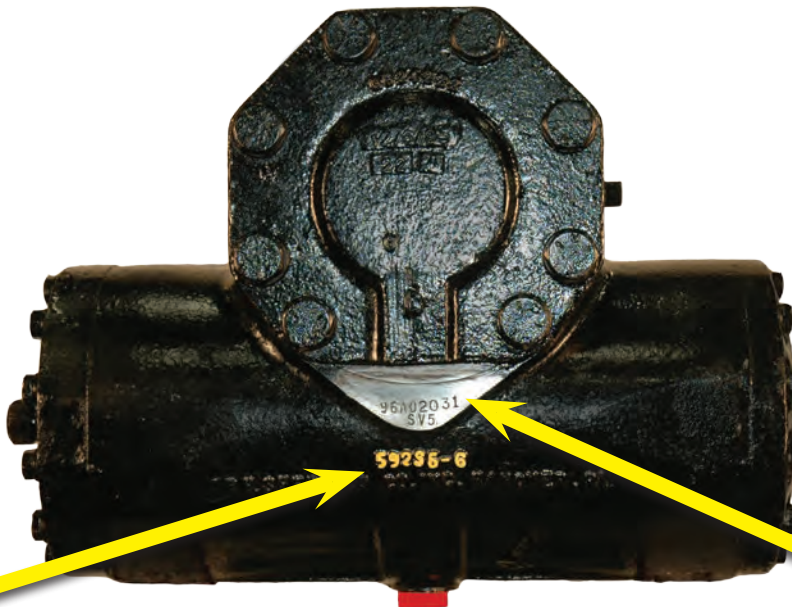
# SHEPPARD 492

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| 492   | SHEPPARD | BLZ4        | 492       |        |               |
| 492   | SHEPPARD | BO3         | 492       | MITER  | MACK          |
| 492   | SHEPPARD | BQ4         | 492       |        | VOLVO/GM      |
| 492   | SHEPPARD | CD4         | 492       |        | GMC           |
| 492   | SHEPPARD | CDA         | 492       |        |               |
| 492   | SHEPPARD | CFR2        | 492       | SLAVE  |               |
| 492   | SHEPPARD | CX4         | 492       |        | MILITARY      |
| 492   | SHEPPARD | DER4        | 492       | SLAVE  |               |
| 492   | SHEPPARD | SAF5        | 492       |        | MACK          |
| 492   | SHEPPARD | SAG5        | 492       |        | MACK          |
| 492   | SHEPPARD | SAQ4        | 492       |        | MACK          |
| 492   | SHEPPARD | SAT3        | 492       |        |               |
| 492   | SHEPPARD | SAW3        | 492       |        | GROVE         |
| 492   | SHEPPARD | SAX4        | 492       |        | FLEXIBLE      |
| 492   | SHEPPARD | SBE4        | 492       |        |               |
| 492   | SHEPPARD | SBG4        | 492       |        | SIMON DUPLEX  |
| 492   | SHEPPARD | SBR4        | 492       |        | MILITARY      |
| 492   | SHEPPARD | SBX4        | 492       | MITER  | PIERCE        |
| 492   | SHEPPARD | SCA4        | 492       |        |               |
| 492   | SHEPPARD | SCB3        | 492       | SLAVE  |               |
| 492   | SHEPPARD | SCW4        | 492       |        |               |
| 492   | SHEPPARD | SDB4        | 492       |        | INTERNATIONAL |
| 492   | SHEPPARD | SDE4        | 492       |        | ORION         |
| 492   | SHEPPARD | SDOZ5       | 492       |        | GMC           |
| 492   | SHEPPARD | SDR4        | 492       |        |               |
| 492   | SHEPPARD | SDW5        | 492       |        |               |
| 492   | SHEPPARD | SEE5        | 492       |        | AM GENERAL    |
| 492   | SHEPPARD | SET4        | 492       |        |               |
| 492   | SHEPPARD | SFH5        | 492       |        | MACK          |
| 492   | SHEPPARD | SFM5        | 492       |        | MACK          |
| 492   | SHEPPARD | SFW3        | 492       | SLAVE  | MILITARY      |
| 492   | SHEPPARD | SFZ5        | 492       | MITER  | NEW FLYER     |
| 492   | SHEPPARD | SG3         | 492       |        | MACK          |
| 492   | SHEPPARD | SGF5        | 492       |        |               |
| 492   | SHEPPARD | SGP5        | 492       |        |               |
| 492   | SHEPPARD | SGV5        | 492       |        | MACK          |
| 492   | SHEPPARD | SGW5        | 492       |        | MACK          |
| 492   | SHEPPARD | SHM5        | 492       |        | MACK          |
| 492   | SHEPPARD | SHN5        | 492       |        | MACK          |
| 492   | SHEPPARD | SHV5        | 492       |        | MACK          |
| 492   | SHEPPARD | SJ3         | 492       |        |               |
| 492   | SHEPPARD | SJD5        | 492       | MITER  |               |
| 492   | SHEPPARD | SK3         | 492       |        | MACK          |
| 492   | SHEPPARD | SS3         | 492       |        |               |
| 492   | SHEPPARD | SXZ3        | 492       |        | FWD           |
| 492   | SHEPPARD | SZ3         | 492       |        |               |
| 492   | SHEPPARD | SZ4         | 492       |        |               |
| 492   | SHEPPARD | Z           | 492       | MITER  | MACK          |

# SHEPPARD 592



Identification Number



Casting Number

Back View

Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION |
|-------|----------|-------------|-----------|--------|-------------|
| 592   | SHEPPARD | AH4         | 592       |        | BROCKWAY    |
| 592   | SHEPPARD | AR1         | 592       |        | MACK        |
| 592   | SHEPPARD | ARZ4        | 592       |        | MACK        |
| 592   | SHEPPARD | AZ4         | 592       |        | KENWORTH    |
| 592   | SHEPPARD | BDL4        | 592       |        |             |
| 592   | SHEPPARD | BH5         | 592       |        | MACK        |

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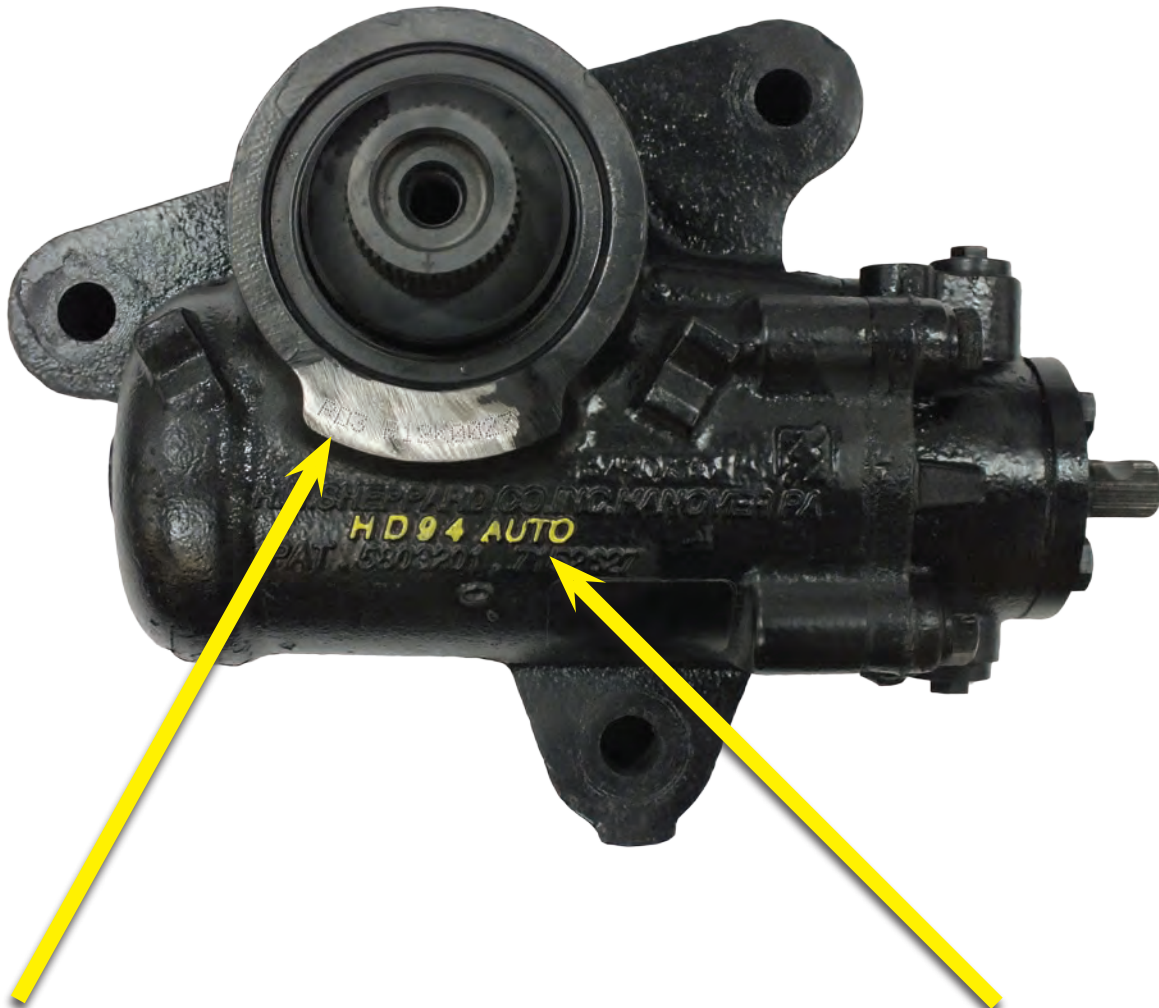


# SHEPPARD 592

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION |
|-------|----------|-------------|-----------|--------|-------------|
| 592   | SHEPPARD | CHL4        | 592       |        | GROVE       |
| 592   | SHEPPARD | CL4         | 592       |        | MACK        |
| 592   | SHEPPARD | CV4         | 592       |        | MACK        |
| 592   | SHEPPARD | D4          | 592       |        | VOLVO WHITE |
| 592   | SHEPPARD | DAL4        | 592       |        | PETERBILT   |
| 592   | SHEPPARD | DHL4        | 592       |        | KENWORTH    |
| 592   | SHEPPARD | EB4         | 592       | MITER  | C.C.C.      |
| 592   | SHEPPARD | SA5         | 592       |        | MACK        |
| 592   | SHEPPARD | SAJ5        | 592       | SLAVE  |             |
| 592   | SHEPPARD | SAK5        | 592       |        | OSHKOSH     |
| 592   | SHEPPARD | SAM5        | 592       | MITER  | OSHKOSH     |
| 592   | SHEPPARD | SAT5        | 592       | MITER  | C.C.C.      |
| 592   | SHEPPARD | SAX5        | 592       |        |             |
| 592   | SHEPPARD | SBP5        | 592       | SLAVE  |             |
| 592   | SHEPPARD | SBS5        | 592       | MITER  |             |
| 592   | SHEPPARD | SBU5        | 592       | MITER  | MACK        |
| 592   | SHEPPARD | SBY5        | 592       | MITER  | MACK        |
| 592   | SHEPPARD | SCA5        | 592       | MITER  |             |
| 592   | SHEPPARD | SCE5        | 592       |        | BROCKWAY    |
| 592   | SHEPPARD | SCM5        | 592       |        | MACK        |
| 592   | SHEPPARD | SCR5        | 592       |        |             |
| 592   | SHEPPARD | SD5         | 592       |        | MACK        |
| 592   | SHEPPARD | SDE5        | 592       |        | OSH KOSH    |
| 592   | SHEPPARD | SDG5        | 592       |        |             |
| 592   | SHEPPARD | SDV5        | 592       | MITER  | CCC         |
| 592   | SHEPPARD | SDW5        | 592       |        |             |
| 592   | SHEPPARD | SDZ5        | 592       | MITER  |             |
| 592   | SHEPPARD | ST5         | 592       |        | MACK        |
| 592   | SHEPPARD | SU5         | 592       |        | MACK        |
| 592   | SHEPPARD | SV5/SDJ5    | 592       |        | MACK        |
| 592   | SHEPPARD | U3          | 592       | MITER  | MACK        |
| 592   | SHEPPARD | Z4          | 592       |        | MACK        |

## NOTES

# SHEPPARD HD94



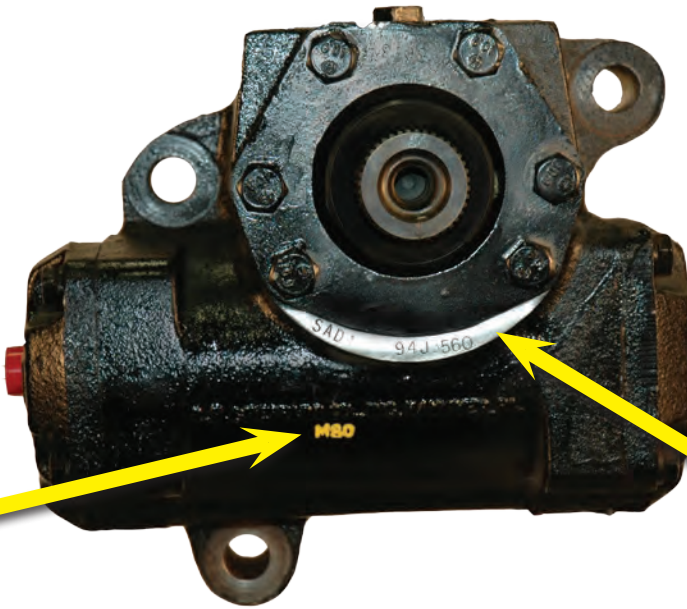
Identification Number

Casting Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION        |
|-------|----------|-------------|-----------|--------|--------------------|
| HD94  | SHEPPARD | PAB3        | HD94      |        |                    |
| HD94  | SHEPPARD | PAF3        | HD94      |        |                    |
| HD94  | SHEPPARD | PAH3        | HD94      |        |                    |
| HD94  | SHEPPARD | PB3/PAR3    | HD94      |        |                    |
| HD94  | SHEPPARD | PD3         | HD94      |        | INTERNATIONAL      |
| HD94  | SHEPPARD | PG3         | HD94      |        | INTERNATIONAL      |
| HD94  | SHEPPARD | PH3         | HD94      |        | MACK               |
| HD94  | SHEPPARD | PJ3         | HD94      |        |                    |
| HD94  | SHEPPARD | PK3         | HD94      |        | INTERNATIONAL      |
| HD94  | SHEPPARD | PN3         | HD94      |        |                    |
| HD94  | SHEPPARD | PQ3         | HD94      |        |                    |
| HD94  | SHEPPARD | PX3         | HD94      |        |                    |
| HD94  | SHEPPARD | PZ3         | HD94      |        |                    |
| HD94  | SHEPPARD | SA1/SC1     | HD94      | SLAVE  | KENWORTH/PETERBILT |
| HD94  | SHEPPARD | SD1         | HD94      | SLAVE  |                    |
| HD94  | SHEPPARD | SM1         | HD94      | SLAVE  | INTERNATIONAL      |



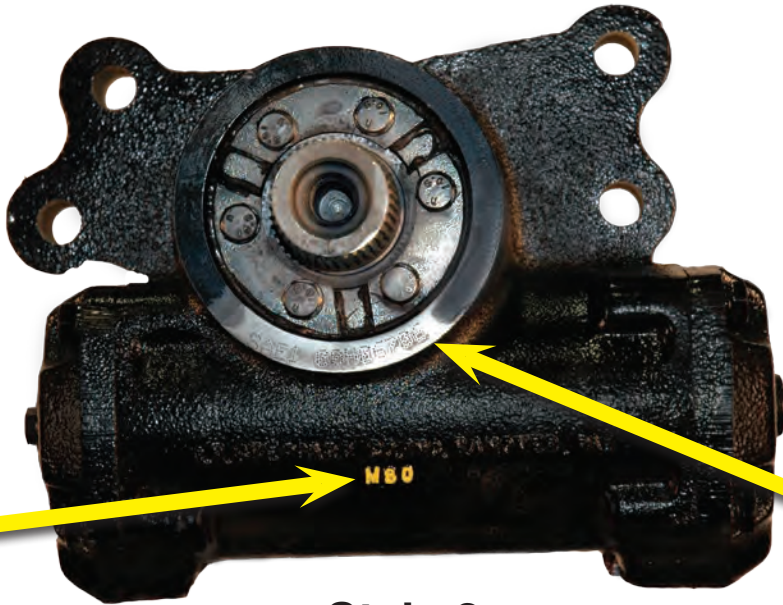
# SHEPPARD M80



Casting Number

Identification Number

**Style 1**



Casting Number

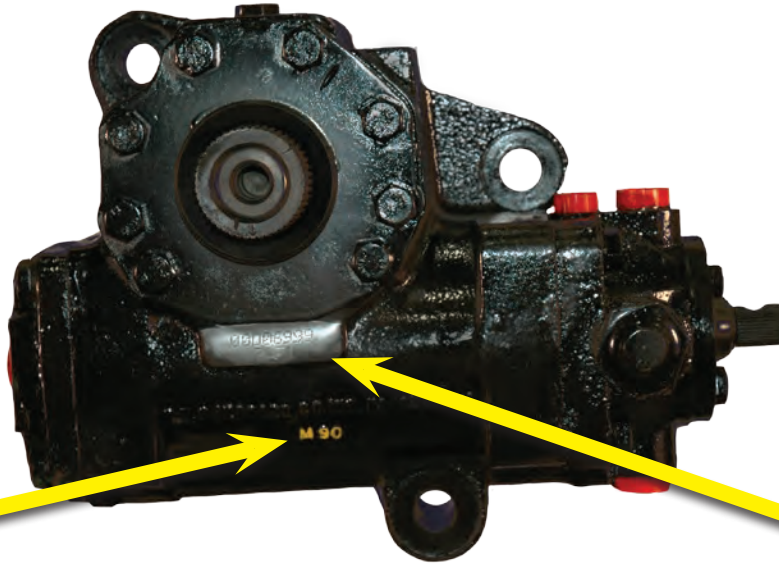
Identification Number

**Style 2**

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION |
|-------|-----|-------------|-----------|--------|-------------|
| M80   | SHP | PAK1        | M80       |        | MACK        |
| M80   | SHP | PAT1/PBF1   | M80       |        | MACK        |
| M80   | SHP | PAY1        | M80       |        |             |
| M80   | SHP | PBA1        | M80       |        |             |
| M80   | SHP | PBG1        | M80       |        |             |
| M80   | SHP | PBL1        | M80       |        | TRANSIT BUS |
| M80   | SHP | PBM1/PAW1   | M80       |        | ELDORADO    |
| M80   | SHP | PBN1        | M80       |        |             |

| MODEL | OEM | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|-----|-------------|-----------|--------|---------------|
| M80   | SHP | PBQ1        | M80       |        |               |
| M80   | SHP | PBV1        | M80       |        |               |
| M80   | SHP | SAA1        | M80       | SLAVE  | INTERNATIONAL |
| M80   | SHP | SAD1        | M80       | SLAVE  | INTERNATIONAL |
| M80   | SHP | SAE1        | M80       | SLAVE  | INTERNATIONAL |
| M80   | SHP | SAM1        | M80       | SLAVE  | INTERNATIONAL |
| M80   | SHP | SAT1/SAW1   | M80       | SLAVE  | INTERNATIONAL |
| M80   | SHP | SAU1        | M80       | SLAVE  | FREIGHTLINER  |

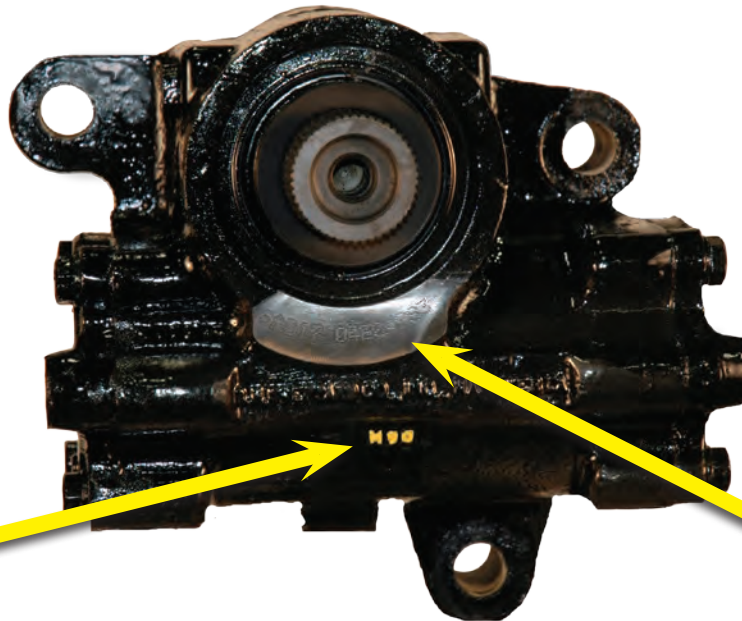
# SHEPPARD M90



Casting Number

**Style 1**

Identification Number



Casting Number

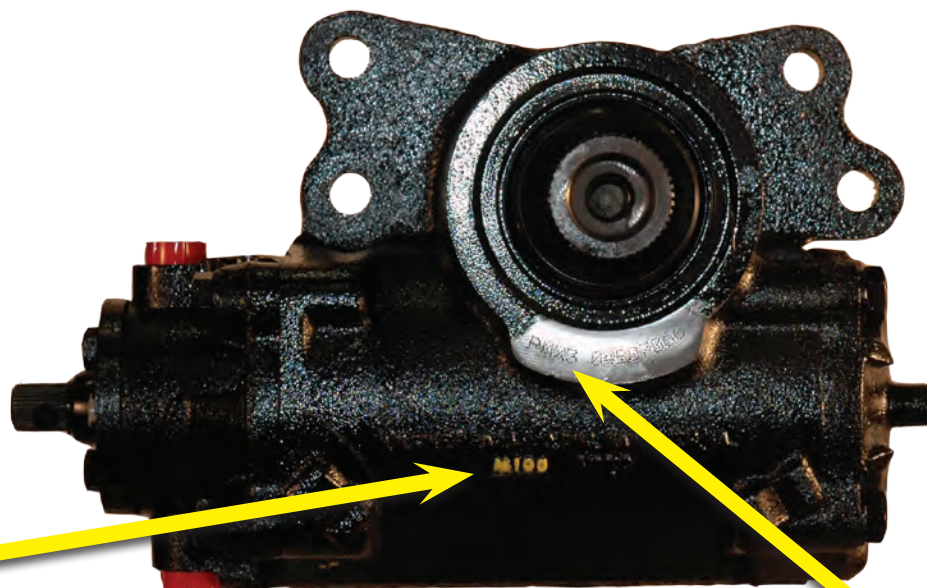
**Style 2**

Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| M90   | SHEPPARD | PAD1        | M90       |        | INTERNATIONAL |
| M90   | SHEPPARD | PAE1        | M90       |        | INTERNATIONAL |
| M90   | SHEPPARD | PAG1        | M90       |        | INTERNATIONAL |
| M90   | SHEPPARD | PAS1        | M90       |        | MACK          |
| M90   | SHEPPARD | PBD3        | M90       |        | MACK          |
| M90   | SHEPPARD | SAD1        | M90       | SLAVE  | PETERBILT     |
| M90   | SHEPPARD | SAK1        | M90       | SLAVE  |               |
| M90   | SHEPPARD | SAM1        | M90       | SLAVE  |               |
| M90   | SHEPPARD | SAR1        | M90       | SLAVE  |               |
| M90   | SHEPPARD | SAS1        | M90       | SLAVE  | MACK          |
| M90   | SHEPPARD | SAT1        | M90       | SLAVE  |               |
| M90   | SHEPPARD | SAY1        | M90       | SLAVE  |               |



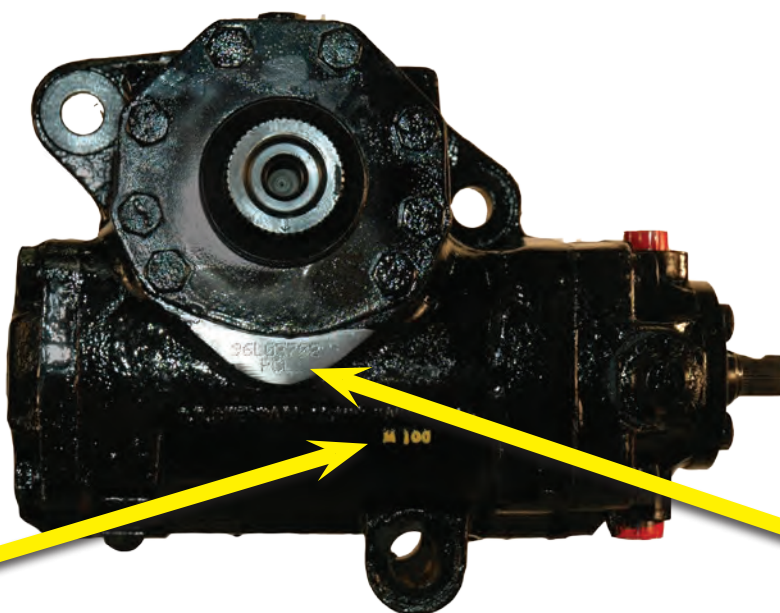
# SHEPPARD M100



Casting Number

**Style 1**

Identification Number



Casting Number

**Style 2**

Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION     |
|-------|----------|-------------|-----------|--------|-----------------|
| M100  | SHEPPARD | PAB1        | M100      |        |                 |
| M100  | SHEPPARD | PAE1        | M100      |        | PETERBILT       |
| M100  | SHEPPARD | PAG1        | M100      |        | INTERNATIONAL   |
| M100  | SHEPPARD | PAH1        | M100      |        | INTERNATIONAL   |
| M100  | SHEPPARD | PAL1        | M100      |        | GMC/VOLVO/WHITE |
| M100  | SHEPPARD | PAM1/PCN1   | M100      |        | INTERNATIONAL   |
| M100  | SHEPPARD | PAN1        | M100      |        | GMC             |
| M100  | SHEPPARD | PBH         | M100      |        | MACK            |

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| M100  | SHEPPARD | PBM1        | M100      |        | MACK          |
| M100  | SHEPPARD | PBN1        | M100      |        | MILITARY      |
| M100  | SHEPPARD | PBW1        | M100      |        | FREIGHTLINER  |
| M100  | SHEPPARD | PBY1/PBZ1   | M100      |        | FREIGHTLINER  |
| M100  | SHEPPARD | PCA1        | M100      |        | FREIGHTLINER  |
| M100  | SHEPPARD | PCD1        | M100      |        |               |
| M100  | SHEPPARD | PCL1        | M100      |        | INTERNATIONAL |
| M100  | SHEPPARD | PCL3        | M100      |        | INTERNATIONAL |

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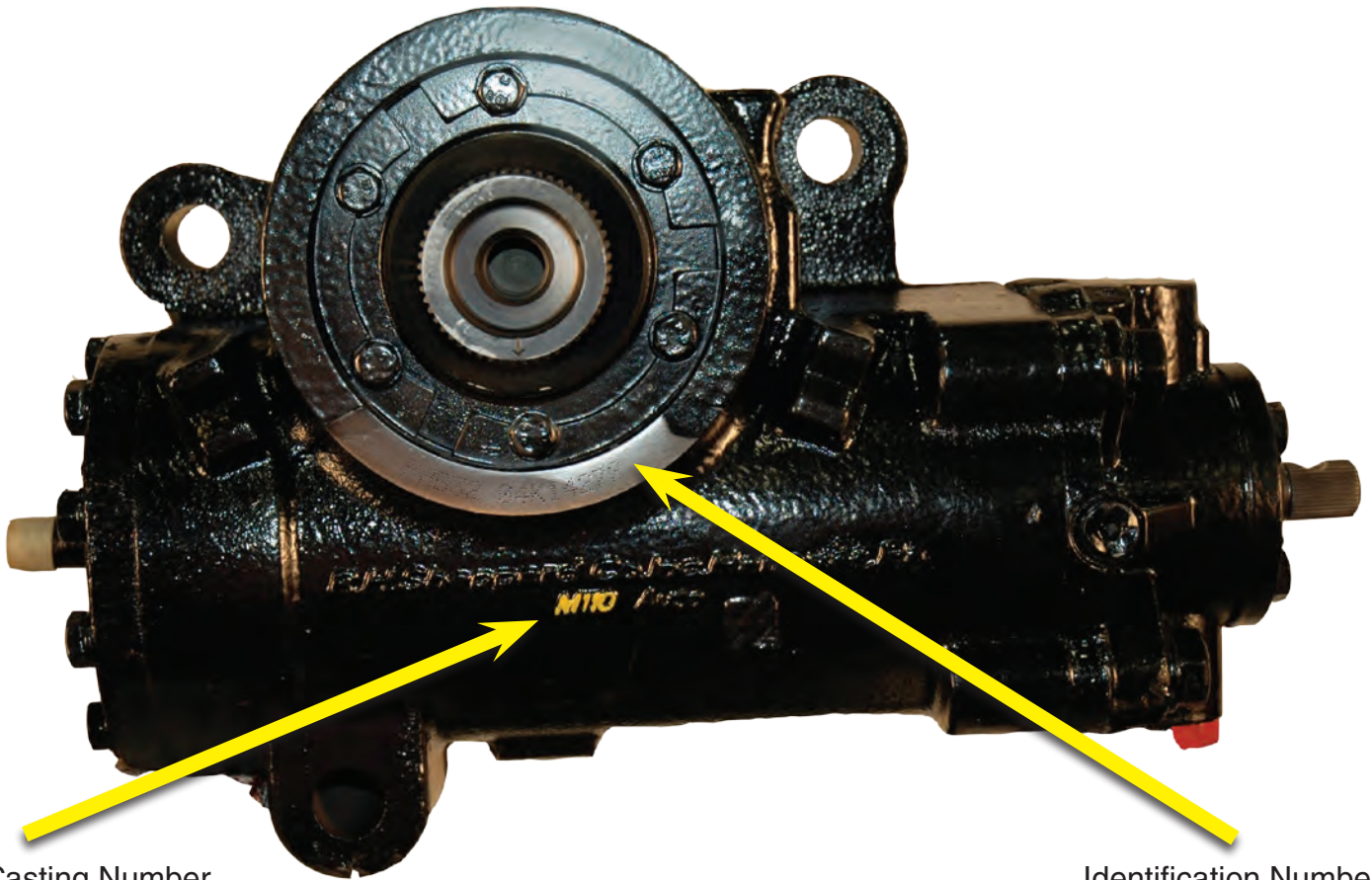
# SHEPPARD M100

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES   | APPLICATION   |
|-------|----------|-------------|-----------|----------|---------------|
| M100  | SHEPPARD | PCP1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PCR1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PCT1        | M100      |          | FREIGHTLINER  |
| M100  | SHEPPARD | PCX1        | M100      |          | CARPENTER     |
| M100  | SHEPPARD | PDA1        | M100      |          | MARMON        |
| M100  | SHEPPARD | PDJ1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PDK1        | M100      |          | MACK          |
| M100  | SHEPPARD | PDL1        | M100      |          | MACK          |
| M100  | SHEPPARD | PDP1        | M100      |          | FOUR TRAVEL   |
| M100  | SHEPPARD | PDQ1        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PDU1/PEZ1   | M100      |          | VOLVO/WHITE   |
| M100  | SHEPPARD | PEG1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PEN1/PLE1   | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PET1/PLJ1   | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PEW1        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PFA1        | M100      |          | THOMAS        |
| M100  | SHEPPARD | PFB1/PHB1   | M100      |          | MACK          |
| M100  | SHEPPARD | PFF1/PJB1   | M100      |          | VOLVO         |
| M100  | SHEPPARD | PFS1        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PFY1        | M100      |          |               |
| M100  | SHEPPARD | PGB1        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PGD3        | M100      |          |               |
| M100  | SHEPPARD | PGE1        | M100      |          | FREIGHTLINER  |
| M100  | SHEPPARD | PGE3        | M100      |          | FREIGHTLINER  |
| M100  | SHEPPARD | PGG1        | M100      |          | MACK          |
| M100  | SHEPPARD | PGH1        | M100      |          | MACK          |
| M100  | SHEPPARD | PGM3        | M100      |          |               |
| M100  | SHEPPARD | PGW1        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PHD1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PHD3/PMW3   | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PHE1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PHE3/PMX3   | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PHF1        | M100      |          | FREIGHTLINER  |
| M100  | SHEPPARD | PHU1        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PJB1        | M100      |          | VOLVO         |
| M100  | SHEPPARD | PJC1        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PJD3        | M100      |          | FREIGHTLINER  |
| M100  | SHEPPARD | PJH1        | M100      |          | MACK          |
| M100  | SHEPPARD | PJJ1        | M100      |          | MACK          |
| M100  | SHEPPARD | PJM3        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PKH3        | M100      |          |               |
| M100  | SHEPPARD | PKC3        | M100      |          | FREIGHTLINER  |
| M100  | SHEPPARD | PKE3        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PKM1        | M100      |          |               |
| M100  | SHEPPARD | PLG3        | M100      |          | MONACO        |
| M100  | SHEPPARD | PLT3        | M100      |          | HME           |
| M100  | SHEPPARD | PLX3/PQS3   | M100      | SWITCHER | OTTAWA        |
| M100  | SHEPPARD | PMH3        | M100      |          | KENWORTH      |

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES   | APPLICATION   |
|-------|----------|-------------|-----------|----------|---------------|
| M100  | SHEPPARD | PMK3        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PML3        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PMN3        | M100      |          | IHC/MONACO    |
| M100  | SHEPPARD | PMP3        | M100      |          |               |
| M100  | SHEPPARD | PMR3        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PMT3        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PNB1        | M100      |          |               |
| M100  | SHEPPARD | PND3        | M100      |          |               |
| M100  | SHEPPARD | PNE3        | M100      |          | MACK          |
| M100  | SHEPPARD | PNJ3        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PNQ3        | M100      |          | MACK          |
| M100  | SHEPPARD | PPA3        | M100      |          | MONACO        |
| M100  | SHEPPARD | PPC3        | M100      |          |               |
| M100  | SHEPPARD | PPF3        | M100      |          | CAPACITY      |
| M100  | SHEPPARD | PPF3        | M100      | SWITCHER | CAPACITY      |
| M100  | SHEPPARD | PPG3        | M100      |          | VOLVO         |
| M100  | SHEPPARD | PPG3/PQW3   | M100      |          | VOLVO         |
| M100  | SHEPPARD | PPJ3        | M100      |          | MACK          |
| M100  | SHEPPARD | PPL3        | M100      |          | MACK          |
| M100  | SHEPPARD | PPN3        | M100      |          |               |
| M100  | SHEPPARD | PPS3        | M100      |          | MACK          |
| M100  | SHEPPARD | PQE3        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PQF3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PQG3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PQH3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PQM3        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PQQ3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PQR3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PQT3        | M100      |          |               |
| M100  | SHEPPARD | PQV3        | M100      |          | MACK          |
| M100  | SHEPPARD | PQX3        | M100      |          | MACK          |
| M100  | SHEPPARD | PQY3        | M100      |          |               |
| M100  | SHEPPARD | PRC3        | M100      |          |               |
| M100  | SHEPPARD | PRD3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PRE3        | M100      |          |               |
| M100  | SHEPPARD | PRH3        | M100      |          |               |
| M100  | SHEPPARD | PRJ3        | M100      |          |               |
| M100  | SHEPPARD | PRZ3        | M100      |          | KENWORTH      |
| M100  | SHEPPARD | PSA3        | M100      |          | PETERBILT     |
| M100  | SHEPPARD | PSL3        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PTG3        | M100      |          | INTERNATIONAL |
| M100  | SHEPPARD | PTP3        | M100      |          |               |
| M100  | SHEPPARD | PUC3        | M100      |          |               |
| M100  | SHEPPARD | SAC1        | M100      | SLAVE    | MACK          |
| M100  | SHEPPARD | SAL1        | M100      | SLAVE    | INTERNATIONAL |
| M100  | SHEPPARD | SAM1        | M100      | SLAVE    | INTERNATIONAL |



# SHEPPARD M110



Casting Number

Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION   |
|-------|----------|-------------|-----------|--------|---------------|
| M110  | SHEPPARD | PAJ22       | M110      |        | KENWORTH      |
| M110  | SHEPPARD | PBQ1        | M110      |        | KENWORTH      |
| M110  | SHEPPARD | PBQ3        | M110      |        | KENWORTH      |
| M110  | SHEPPARD | PBT1        | M110      |        |               |
| M110  | SHEPPARD | PBV1        | M110      |        |               |
| M110  | SHEPPARD | PCL1        | M110      |        |               |
| M110  | SHEPPARD | PCR1        | M110      |        | SPARTAN       |
| M110  | SHEPPARD | PCR3        | M110      |        | SPARTAN       |
| M110  | SHEPPARD | PCS1        | M110      |        |               |
| M110  | SHEPPARD | PCS3        | M110      |        |               |
| M110  | SHEPPARD | PDD1        | M110      |        |               |
| M110  | SHEPPARD | PDD3        | M110      |        |               |
| M110  | SHEPPARD | PDF1        | M110      |        | INTERNATIONAL |
| M110  | SHEPPARD | PDF3        | M110      |        | INTERNATIONAL |
| M110  | SHEPPARD | PDK1        | M110      |        | SPARTAN       |
| M110  | SHEPPARD | PDY1        | M110      |        |               |
| M110  | SHEPPARD | PEG1        | M110      |        |               |
| M110  | SHEPPARD | PEQ1        | M110      |        |               |
| M110  | SHEPPARD | PEU1        | M110      |        |               |
| M110  | SHEPPARD | PFA1        | M110      |        | KENWORTH      |
| M110  | SHEPPARD | PFF3        | M110      |        |               |

(Continued on next page)

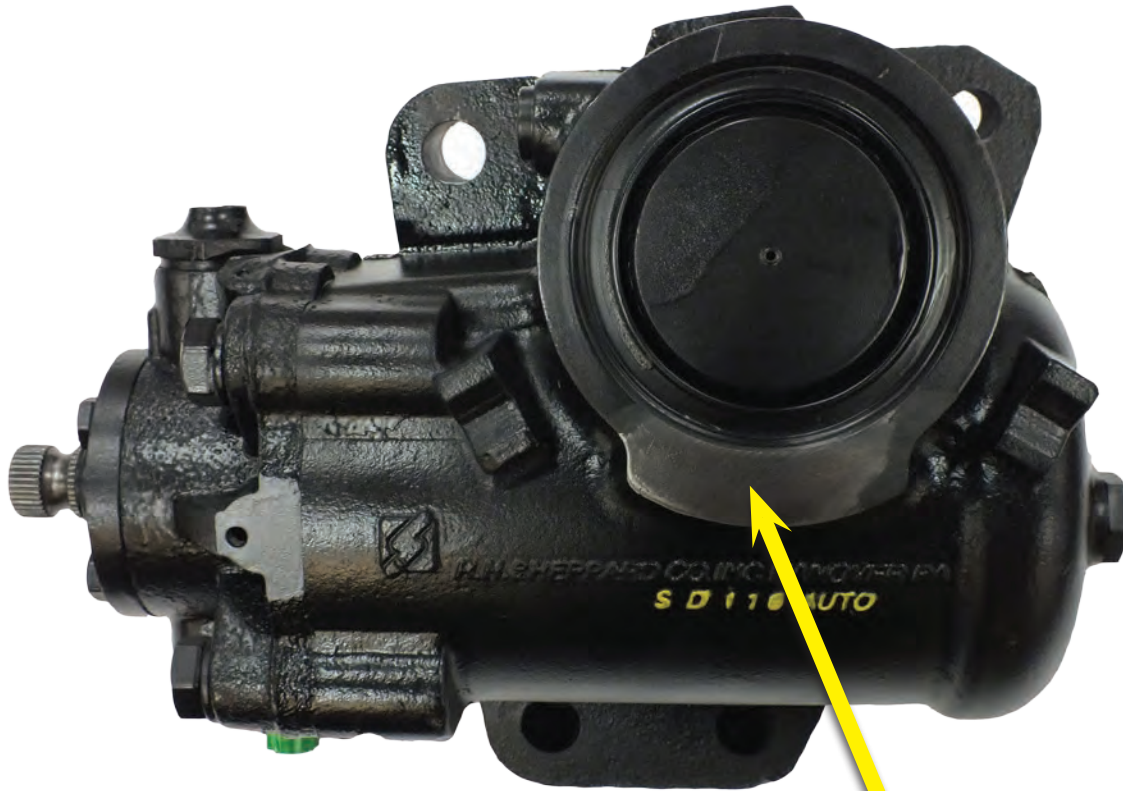
# SHEPPARD M110

| MODEL | OEM      | PART NUMBER    | CASTING # | SERIES | APPLICATION    |
|-------|----------|----------------|-----------|--------|----------------|
| M110  | SHEPPARD | PFW1           | M110      |        |                |
| M110  | SHEPPARD | PFY1           | M110      |        | HME            |
| M110  | SHEPPARD | PGM3/PJE3      | M110      |        | INTERNATIONAL  |
| M110  | SHEPPARD | PGX1/PKG1/PPS1 | M110      |        | PIERCE/OSHKOSH |
| M110  | SHEPPARD | PHB3           | M110      |        | PETERBILT      |
| M110  | SHEPPARD | PHC3           | M110      |        | MACK           |
| M110  | SHEPPARD | PHE1           | M110      |        | KENWORTH       |
| M110  | SHEPPARD | PHE3           | M110      |        | KENWORTH       |
| M110  | SHEPPARD | PHM1/PHN1      | M110      |        | PETERBILT      |
| M110  | SHEPPARD | PJD1           | M110      |        | PETERBILT      |
| M110  | SHEPPARD | PJT3           | M110      |        | MACK           |
| M110  | SHEPPARD | PJW3           | M110      |        | COUNTRY COACH  |
| M110  | SHEPPARD | PJZ3           | M110      |        | PETERBILT      |
| M110  | SHEPPARD | PKD3           | M110      |        |                |
| M110  | SHEPPARD | PKG1           | M110      |        | PIERCE         |
| M110  | SHEPPARD | PKP1           | M110      |        | KENWORTH       |
| M110  | SHEPPARD | PKY1           | M110      |        |                |
| M110  | SHEPPARD | PLL3           | M110      |        | OTTAWA         |
| M110  | SHEPPARD | PLX3           | M110      |        | F.C.C.         |
| M110  | SHEPPARD | PMV3           | M110      |        |                |
| M110  | SHEPPARD | PPL3           | M110      |        |                |
| M110  | SHEPPARD | PLW3           | M110      |        | INTERNATIONAL  |
| M110  | SHEPPARD | PPT3           | M110      |        |                |
| M110  | SHEPPARD | PPX1           | M110      |        |                |
| M110  | SHEPPARD | PQD3           | M110      |        |                |
| M110  | SHEPPARD | PQG3           | M110      |        |                |
| M110  | SHEPPARD | PSA1           | M110      |        |                |
| M110  | SHEPPARD | SAB2           | M110      |        | MILITARY       |
| M110  | SHEPPARD | SAP1/SAU1/SBQ1 | M110      | SLAVE  | PIERCE         |

## NOTES



# SHEPPARD SD110



Front View



Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES | APPLICATION |
|-------|----------|-------------|-----------|--------|-------------|
| SD110 | SHEPPARD | PA3/PC3/PG3 | SD110     |        | MACK        |
| SD110 | SHEPPARD | PB3         | SD110     |        |             |
| SD110 | SHEPPARD | PD3         | SD110     |        | PETERBILT   |
| SD110 | SHEPPARD | PK3/PL3     | SD110     |        | MACK        |
| SD110 | SHEPPARD | PN3         | SD110     |        | MACK        |

# SHEPPARD XD120



Front View

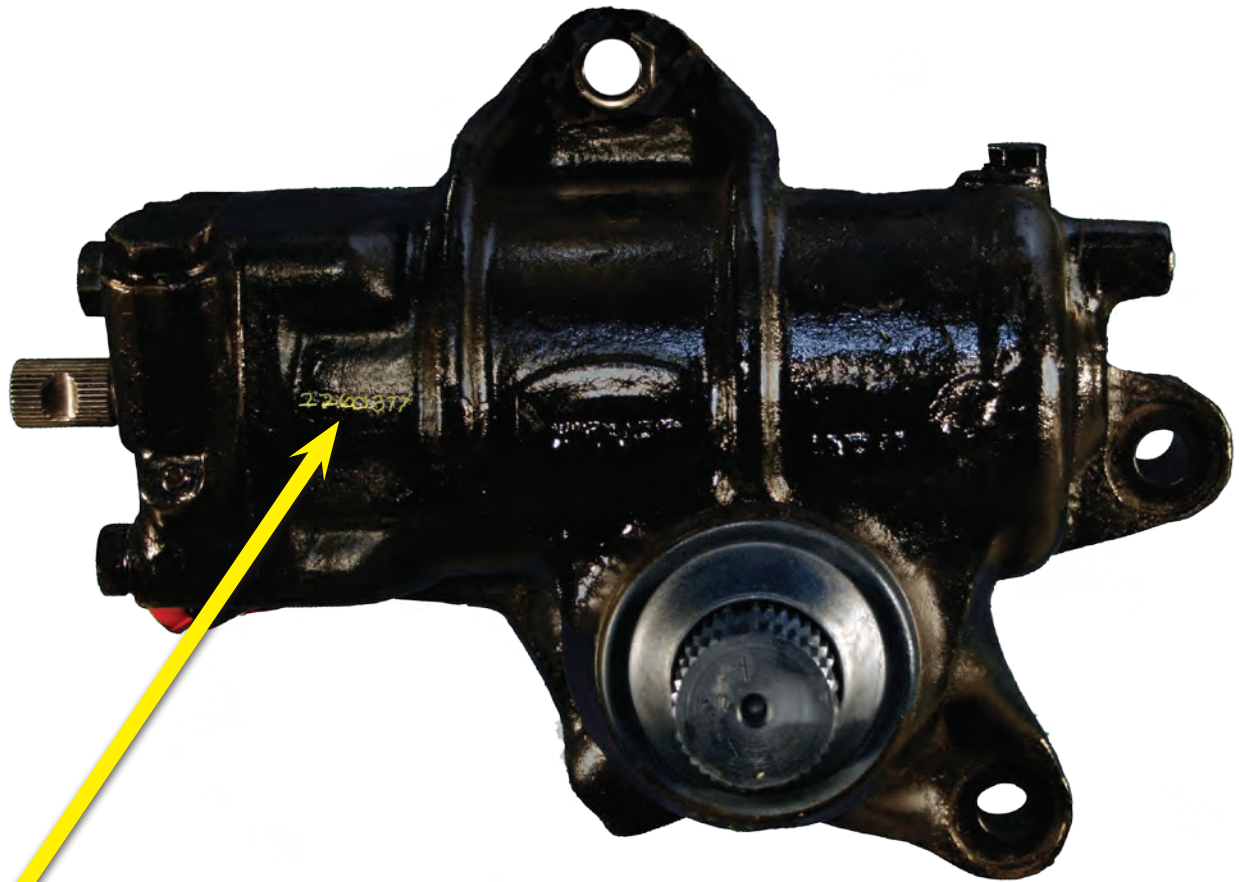


Identification Number

| MODEL | OEM      | PART NUMBER | CASTING # | SERIES  | APPLICATION   |
|-------|----------|-------------|-----------|---------|---------------|
| XD120 | SHEPPARD | PAJ1        | XD120     |         |               |
| XD120 | SHEPPARD | PD1         | XD120     | T MITER | CRANE CARRIER |
| XD120 | SHEPPARD | PE1         | XD120     |         |               |
| XD120 | SHEPPARD | PK1         | XD120     |         |               |
| XD120 | SHEPPARD | PV1         | XD120     | T MITER | CRANE CARRIER |



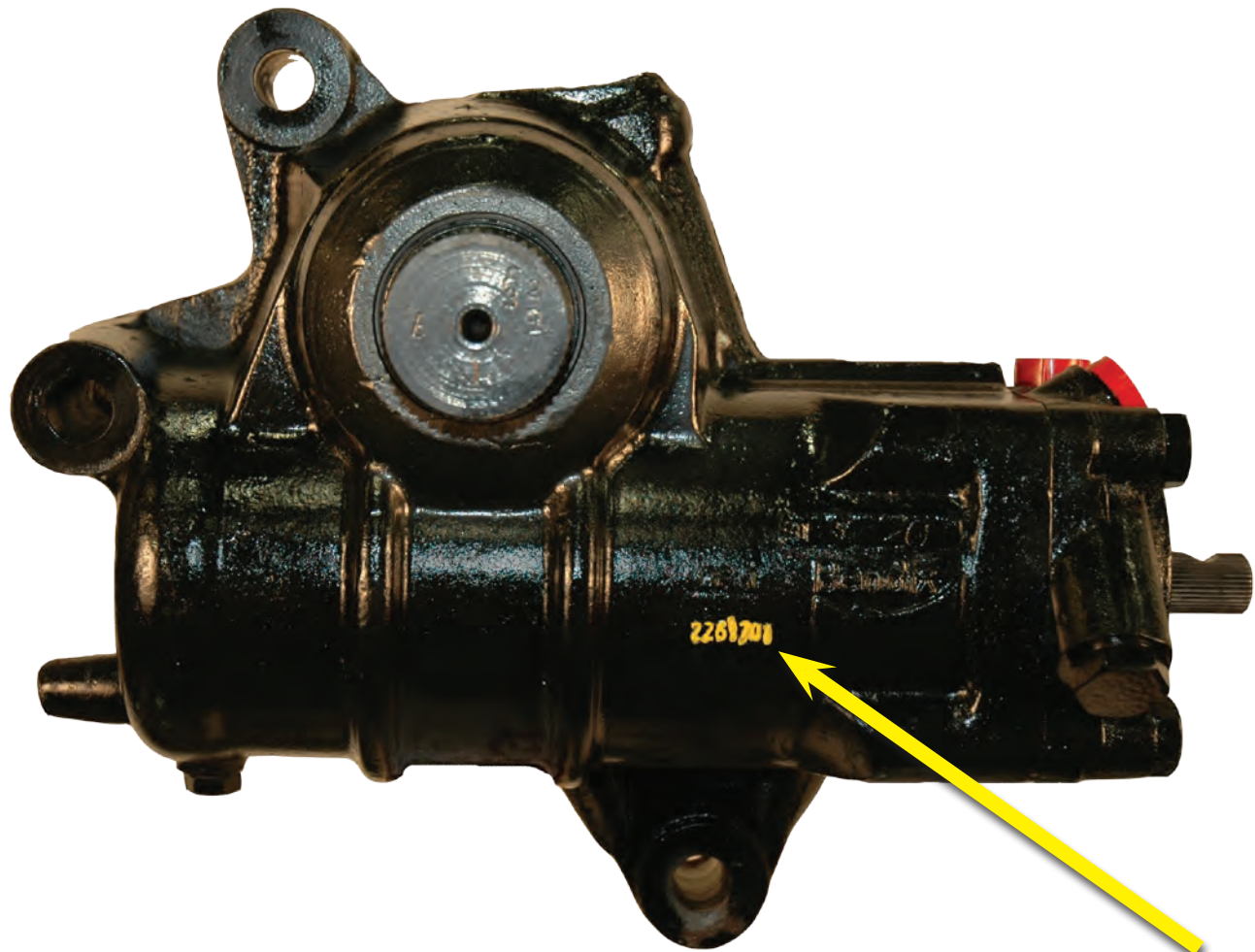
# BENDIX C300



Casting Number

| MODEL | OEM | CASTING NUMBER | APPLICATION    |
|-------|-----|----------------|----------------|
| C300  | BDX | 2260377        | FORD F500/F700 |
| C300  | BDX | 2261699        | FORD F500/F700 |

# BENDIX C500

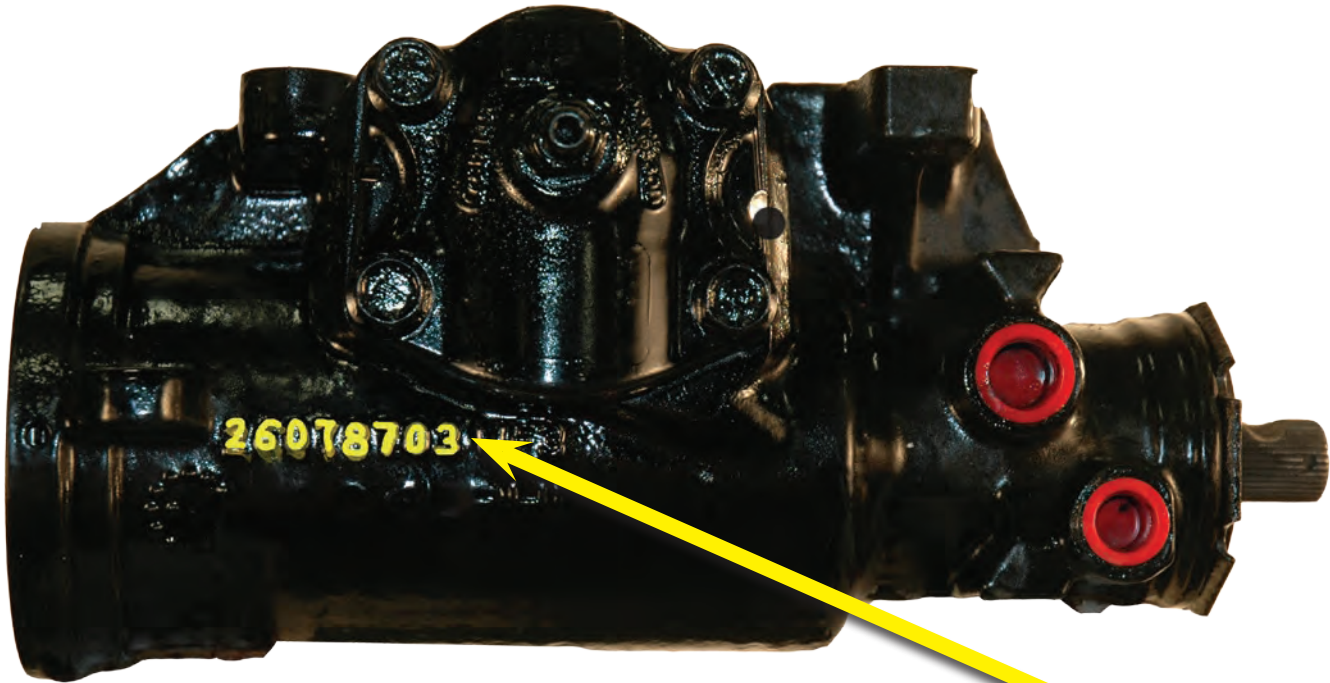


Casting Number

| MODEL | OEM    | CASTING # | SERIES | APPLICATION |
|-------|--------|-----------|--------|-------------|
| C500  | BENDIX | 2260351   |        | FORD        |
| C500  | BENDIX | 2261701   |        | FORD        |
| C500  | BENDIX | 2268006   |        | FORD        |
| C500  | BENDIX | 281149    |        | NABI        |



# SAGINAW 2609



View 1

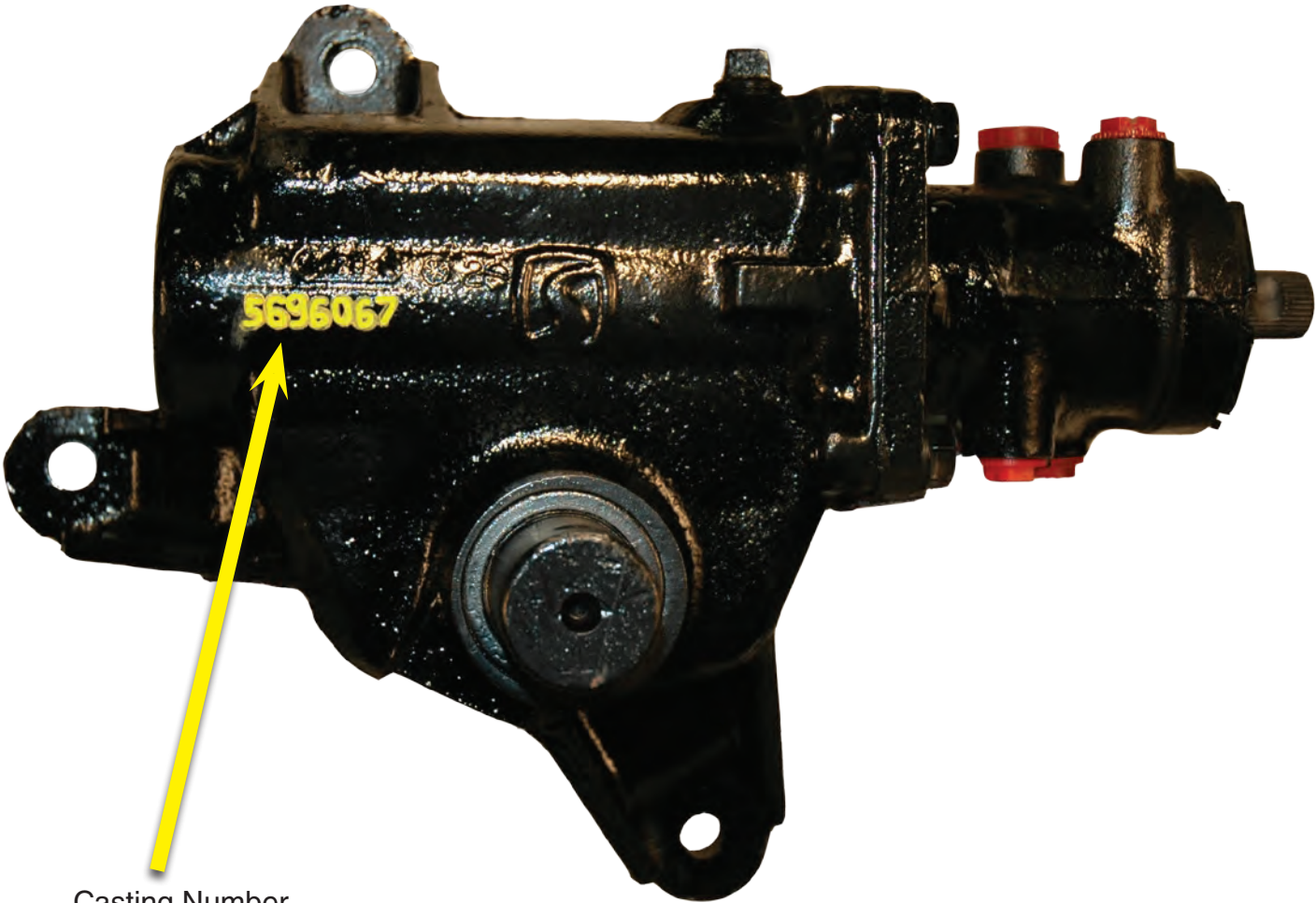
Casting Number



View 2

| MODEL | OEM     | PART NUMBER | CASTING # | APPLICATION  |
|-------|---------|-------------|-----------|--------------|
| 2609  | SAGINAW | 26096530    | 26078703  | FREIGHTLINER |
| 2609  | SAGINAW | 26096521    | 26078703  | FREIGHTLINER |

# SAGINAW 5696067

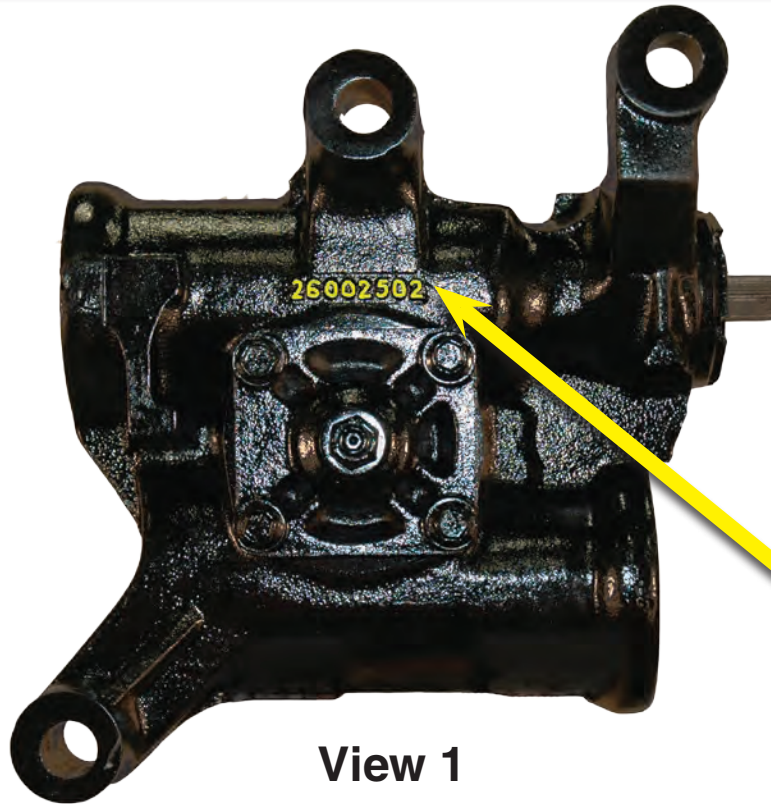


Casting Number

| MODEL   | OEM     | CASTING NUMBER | AXLE RATING | APPLICATION   |
|---------|---------|----------------|-------------|---------------|
| 5696067 | SAGINAW | 5696067        | 12K         | CHEVROLET/GMC |
| 5696067 | SAGINAW | 5696067        | 18K         | CHEVROLET/GMC |



# SAGINAW 26002502



**View 1**

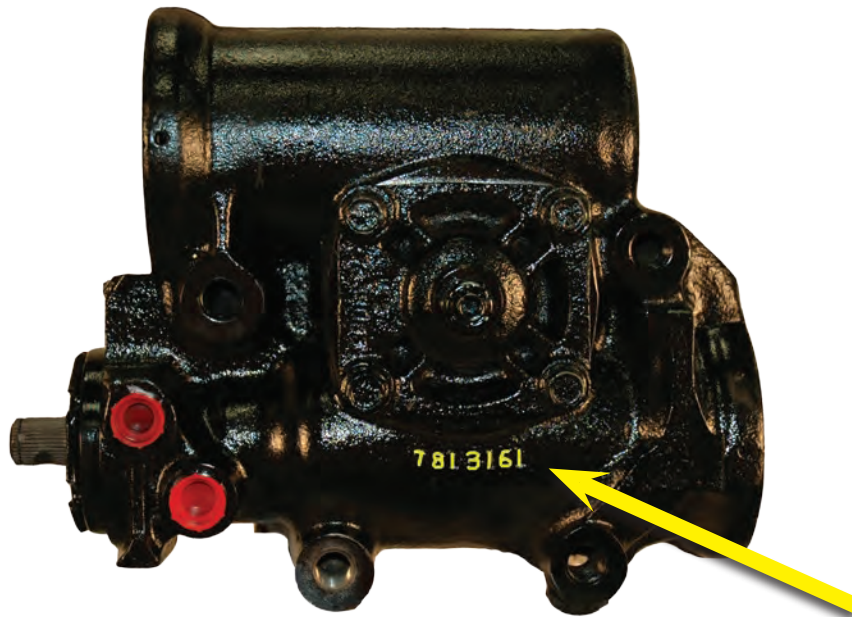
Casting Number



**View 2**

| MODEL | OEM | PART NUMBER | CASTING # | SERIES   | APPLICATION |
|-------|-----|-------------|-----------|----------|-------------|
| DUAL  | SAG | 15748668    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 15748686    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 15781042    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 26002502    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 26041145    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 26054329    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 26079354    | 26002502  | TOP KICK | CHEVY/GMC   |
| DUAL  | SAG | 26124200    | 26002502  | TOP KICK | CHEVY/GMC   |

# SAGINAW 7813161



**View 1**

Casting Number

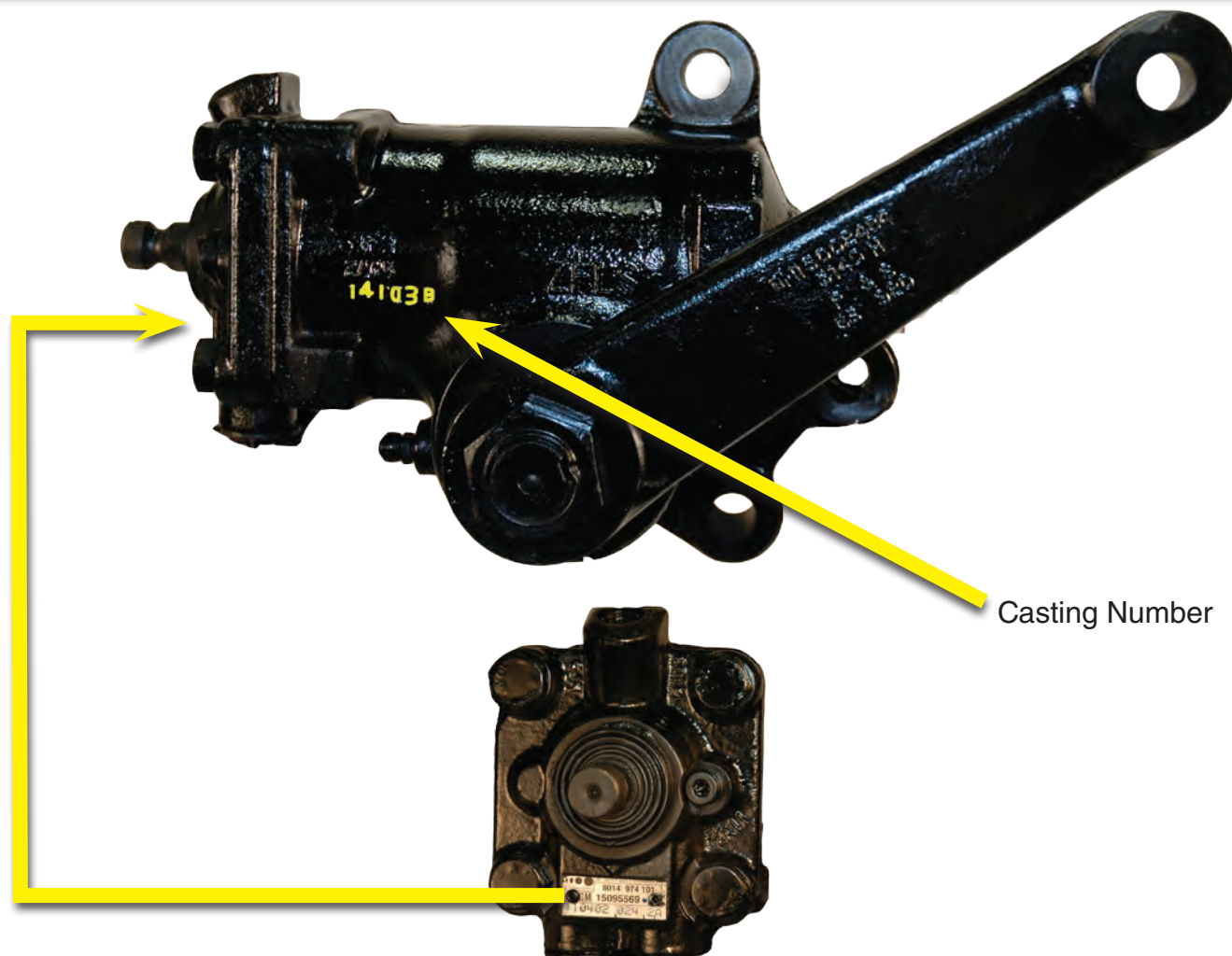


**View 2**

| MODEL | OEM     | PART NUMBER | CASTING #        | SERIES            | APPLICATION     |
|-------|---------|-------------|------------------|-------------------|-----------------|
| DUAL  | SAGINAW | 26016020    | 7813161          | METRIC            | CHEVY/GMC       |
| DUAL  | SAGINAW | 26016021    | 7813161          | SPECIAL METRIC D9 | CHEVY/GMC       |
| DUAL  | SAGINAW | 7813161     | 7813161          | STANDARD          | CHEVY/GMC/DODGE |
| DUAL  | SAGINAW | 26064832    | 7813161          | SPECIAL METRIC    | FREIGHTLINER    |
| DUAL  | SAGINAW | 26054311    | 7813161          | SPECIAL METRIC    | FREIGHTLINER    |
| DUAL  | SAGINAW | 26079337    | 7813161          | METRIC            | CHEVY/GMC       |
| DUAL  | SAGINAW | 26079354    | 7813161          | SPECIAL METRIC    | CHEVY/GMC       |
| DUAL  | SAGINAW |             | 7813161          | SPECIAL METRIC    | CHEVY/GMC       |
| DUAL  | SAGINAW | 7931985     | 7831985          | STANDARD          | CHEVY/GMC/DODGE |
| DUAL  | SAGINAW |             | 7813161 LH/3.5T  | SPECIAL METRIC    | CHEVY/GMC       |
| DUAL  | SAGINAW | 26079333    | 7813161 RH/3 1/3 | SPECIAL METRIC    |                 |
| DUAL  | SAGINAW | 26079341    | 7813161 RH/4T    | SPECIAL METRIC    | FREIGHTLINER    |
| DUAL  | SAGINAW | 1681130C91  | 7930389          | IHC               | INTERNATIONAL   |



# ZF 8014

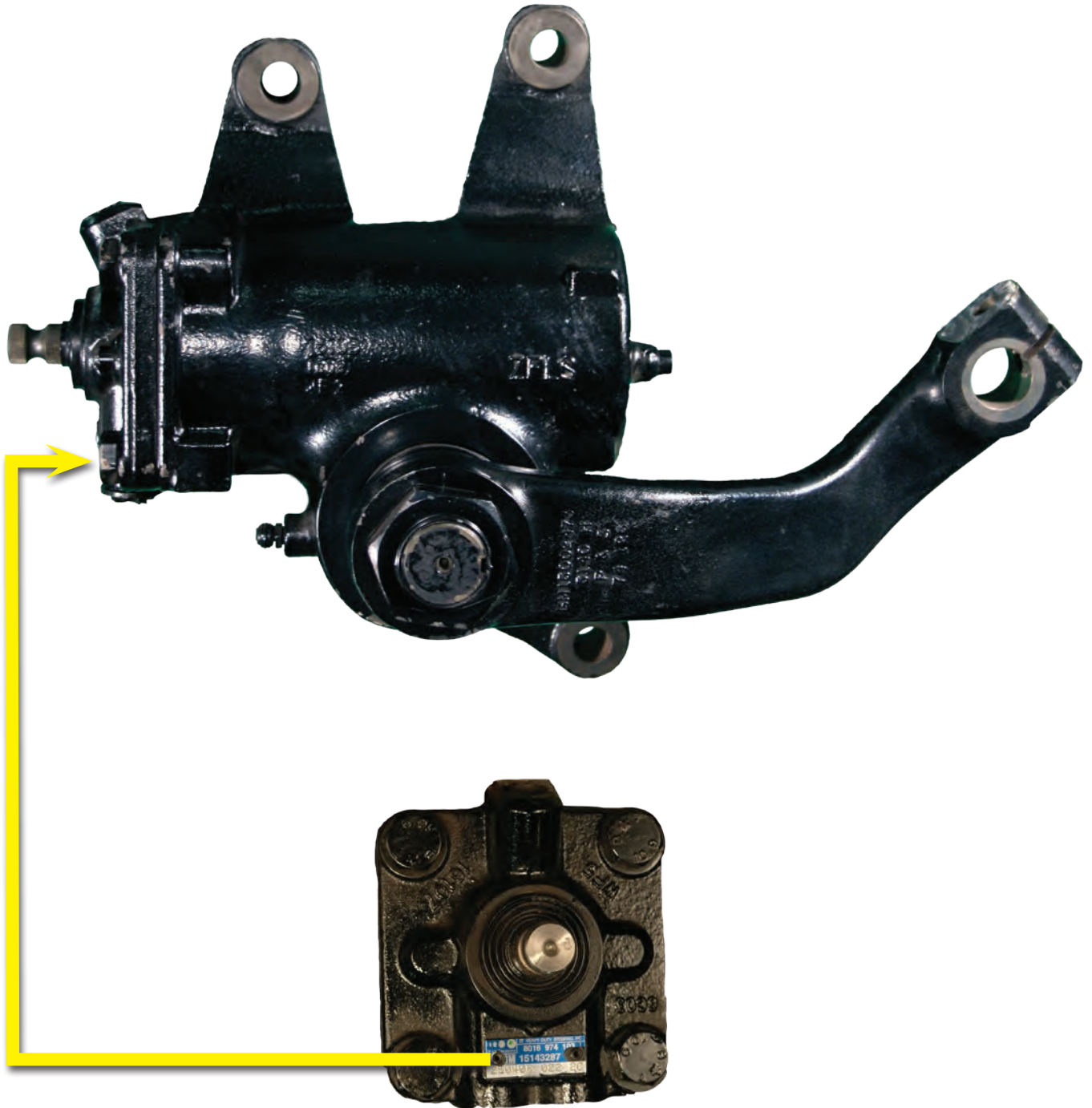


Casting Number

Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | APPLICATION |
|-------|-----|-------------|-----------|-------------|
| 8014  | ZF  | 8014954121  | 14111B    | FORD        |
| 8014  | ZF  | 8014954122  | 14111B    | FORD        |
| 8014  | ZF  | 8014955101  | 14103B    | GMC         |
| 8014  | ZF  | 8014955103  | 14107     |             |
| 8014  | ZF  | 8014955104  | 14111B    | FORD        |
| 8014  | ZF  | 8014955105  |           | FORD        |
| 8014  | ZF  | 8014955106  | 14103B    | GMC         |
| 8014  | ZF  | 8014955108  | 14103B    | GMC         |
| 8014  | ZF  | 8014955111  | 14111B    | FORD        |
| 8014  | ZF  | 8014955112  | 14103B    | GMC         |
| 8014  | ZF  | 8014955113  | 14105B    | GMC         |
| 8014  | ZF  | 8014955117  |           | WORKHORSE   |
| 8014  | ZF  | 8014974101  | 14103B    | GMC         |
| 8014  | ZF  | 8014974102  | 14105B    | GMC         |
| 8014  | ZF  | 8014974104  | 14103B    | GMC         |
| 8014  | ZF  | 8014974105  | 14105B    | GMC         |
| 8014  | ZF  | 8014974107  | 14103B    | GMC         |
| 8014  | ZF  | 8014974108  | 14105B    | GMC         |
| 8014  | ZF  | 8017955107  |           | GMC         |

# ZF 8016

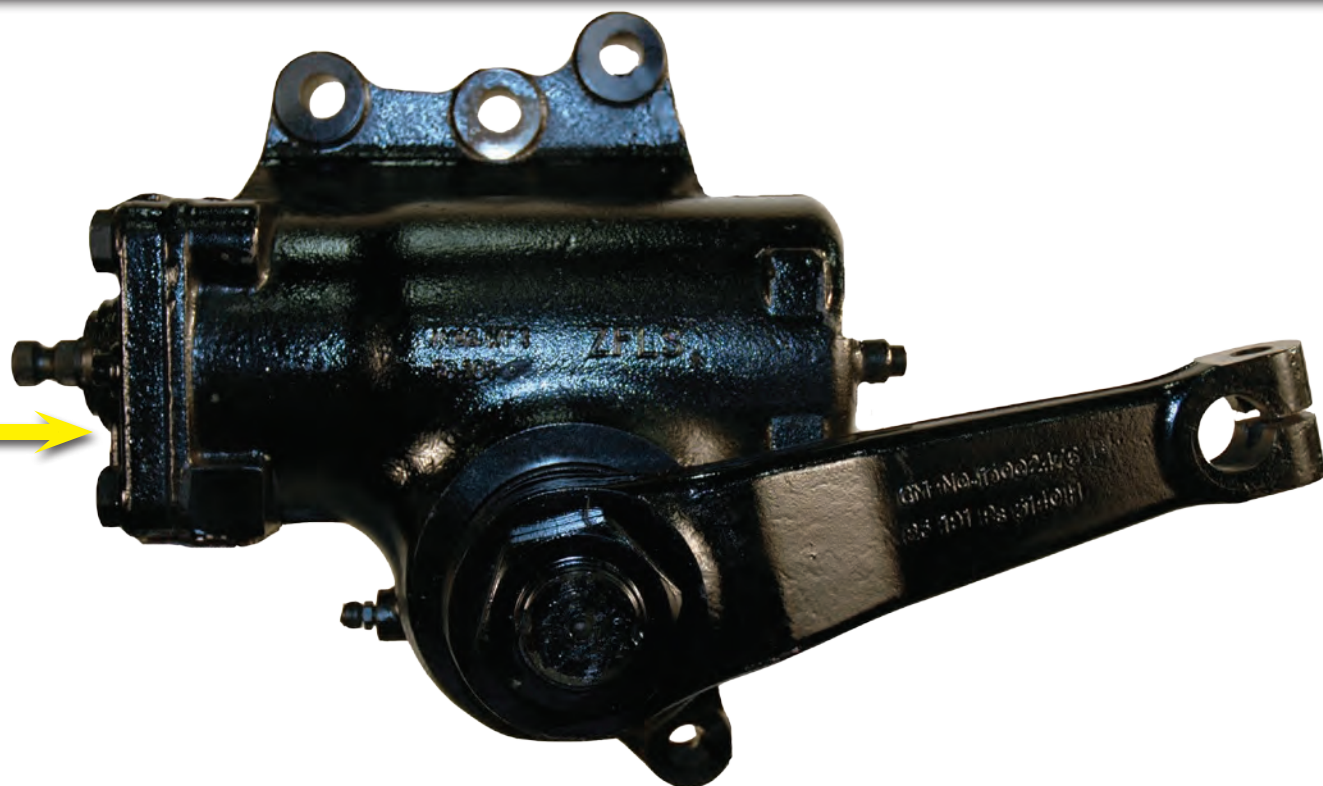


Identification Number

| MODEL | OEM | PART NUMBER | CASTING #   | APPLICATION |
|-------|-----|-------------|-------------|-------------|
| 8016  | ZF  | 8016955105  | 16124/16126 | VOLVO       |
| 8016  | ZF  | 8016955109  | 16111       | SPARTAN     |
| 8016  | ZF  | 8016955110  | 16103       |             |
| 8016  | ZF  | 8016955111  |             |             |
| 8016  | ZF  | 8016955112  | 16124/16126 | VOLVO       |
| 8016  | ZF  | 8016974101  | 16103       | GMC         |
| 8016  | ZF  | 8016974103  | 16103       | GMC         |



# ZF 8018



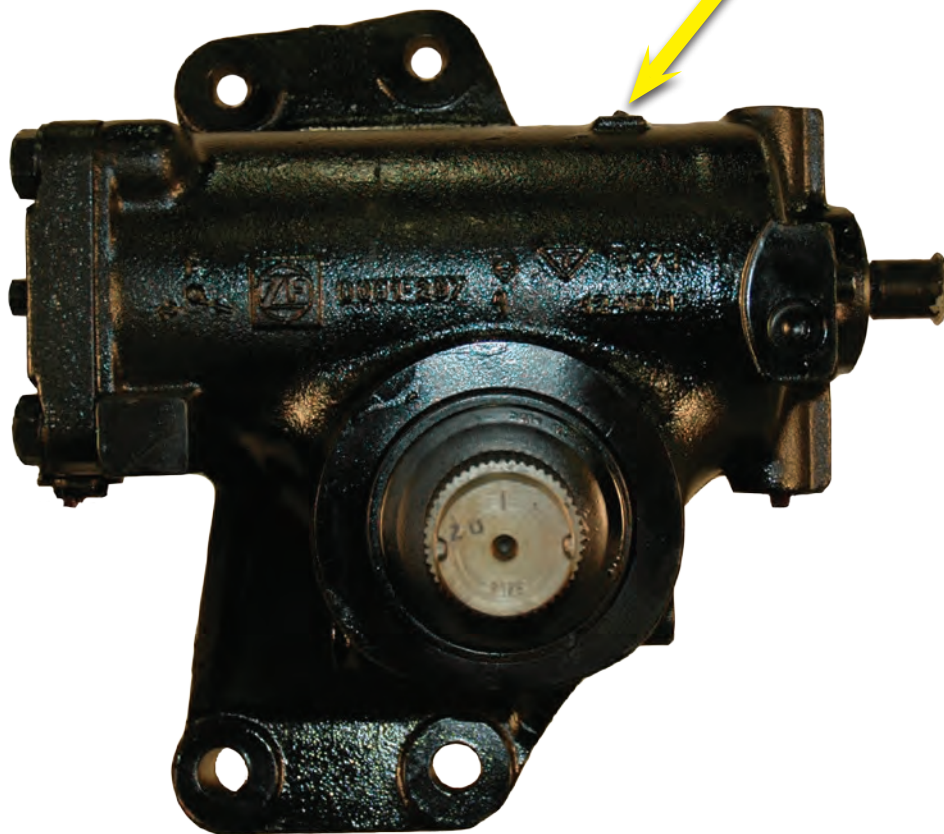
Identification Number

| MODEL | OEM | PART NUMBER | CASTING # | APPLICATION |
|-------|-----|-------------|-----------|-------------|
| 8018  | ZF  | 8018974101  | 18101     | GMC         |
| 8018  | ZF  | 8018974102  | 18101     | GMC         |
| 8018  | ZF  | 8018955103  |           |             |
| 8018  | ZF  | 8018955104  | 18101     | SPARTAN     |
| 8018  | ZF  | 8018955108  | 18101     |             |

# ZF 8097



Identification Number



| MODEL | OEM | PART NUMBER    | APPLICATION     |
|-------|-----|----------------|-----------------|
| 8097  | ZF  | 8097955960/826 | GMC/ISUZU/VOLVO |
| 8097  | ZF  | 8097955994     | GMC/ISUZU/VOLVO |
| 8097  | ZF  | 8097955962/827 | GMC/ISUZU/VOLVO |
| 8097  | ZF  | 8097955959     | GMC/ISUZU/VOLVO |



# ZF 8098



Identification Number

| MODEL | OEM | PART NUMBER | APPLICATION     |
|-------|-----|-------------|-----------------|
| 8098  | ZF  | 8098955114  | NEOPLAN         |
| 8098  | ZF  | 8098955146  | STEWART/STEVENS |
| 8098  | ZF  | 8098955260  |                 |
| 8098  | ZF  | 8098955362  | NABI            |
| 8098  | ZF  | 8098955389  |                 |
| 8098  | ZF  | 8098955415  | VANHOOL         |
| 8098  | ZF  | 8098955435  | VAN HOOL        |
| 8098  | ZF  | 8098955446  | NEOPLAN         |
| 8098  | ZF  | 8098955508  |                 |
| 8098  | ZF  | 8098955520  |                 |
| 8098  | ZF  | 8098955567  |                 |
| 8098  | ZF  | 8098955576  |                 |
| 8098  | ZF  | 8098955641  | CIVIS           |
| 8098  | ZF  | 8098955668  | SPARTAN         |
| 8098  | ZF  | 8098955775  |                 |
| 8098  | ZF  | 8098955791  |                 |
| 8098  | ZF  | 8098965176  |                 |
| 8098  | ZF  | 8098974165  |                 |

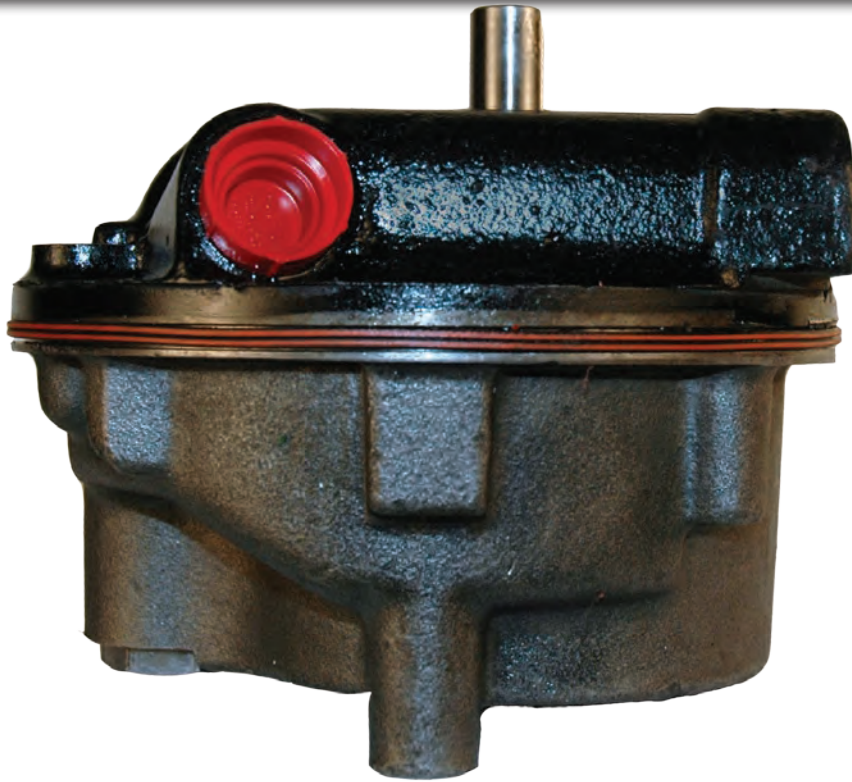


# STEERING PUMPS

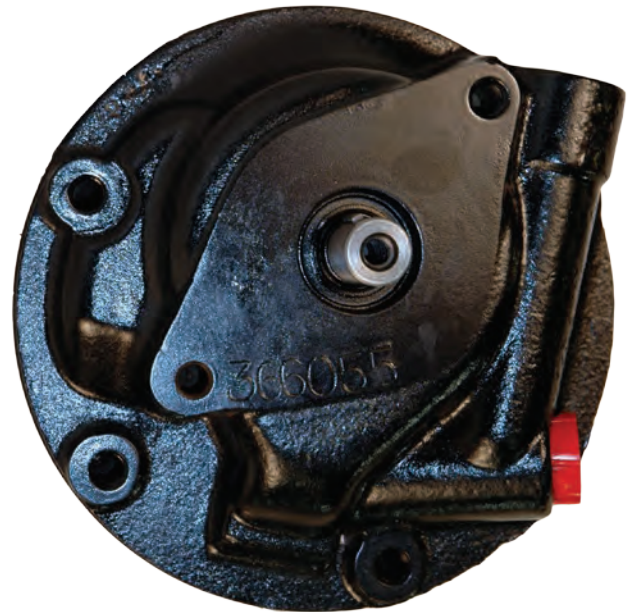




# HOBOURN/EATON B



**View 1**



**View 2**

| MODEL | OEM   | SERIES | SHAFT LENGTH | SHAFT TYPE     | APPLICATION        |
|-------|-------|--------|--------------|----------------|--------------------|
| B     | EATON | 400    | 1"           | KEYED          | FORD/INTERNATIONAL |
| B     | EATON | 400LV  | 1"           | KEYED          | FORD/INTERNATIONAL |
| B     | EATON | 500    | 1.62"        | SPLINED        | FORD/MACK          |
| B     | EATON | 600    | 2.5"         | SPLINED        | 3406 B             |
| B     | EATON | 600    | 2.5"         | SPLINED        | 3406 A             |
| B     | EATON | 700    | 3.25"        | SPLINED        | CUMMINS            |
| B     | EATON | 800    | 3.5"         | KEYED/THREADED | DETROIT            |
| B     | EATON | 800R   | 3.5"         | KEYED/THREADED | DETROIT            |
| B     | EATON | 800RX  | 4.375"       | KEYED/THREADED | DETROIT            |
| B     | EATON | 800X   | 4.375"       | KEYED/THREADED | DETROIT            |

## Detroit Style

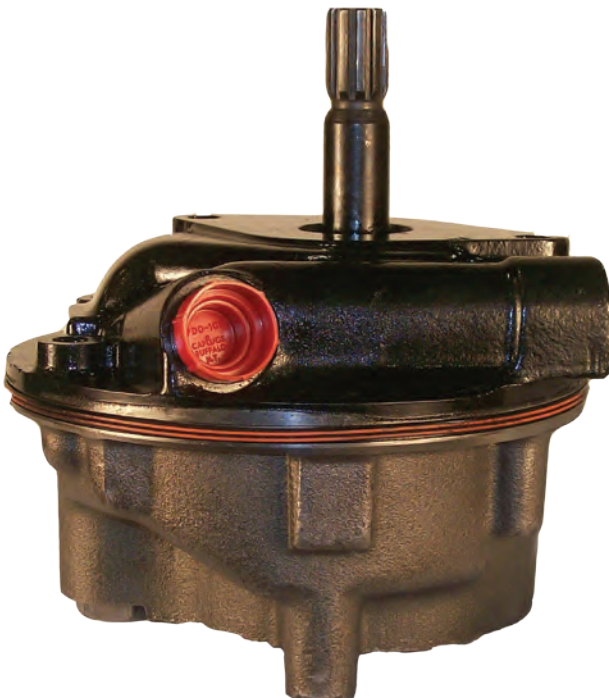


View 1

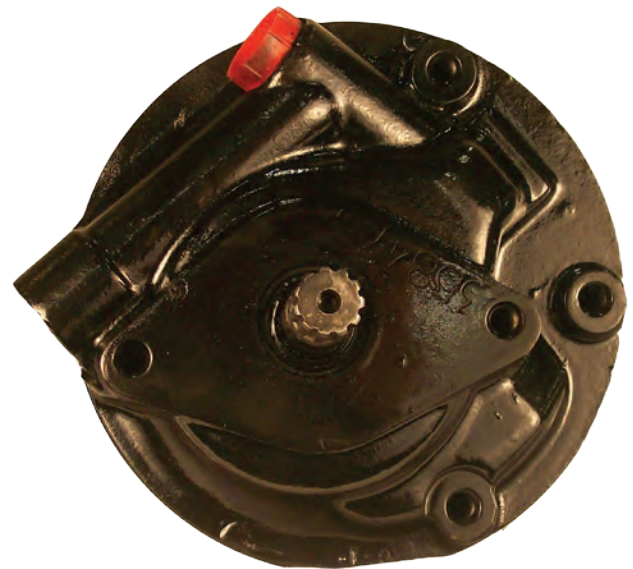


View 2

## Spline Style



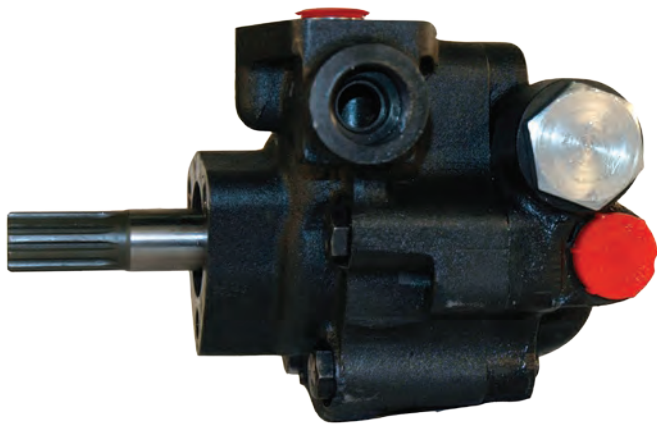
View 1



View 2



# HOBOURN/EATON BB



View 1



View 2

## HOBOURN/EATON BB R A 2 X \* \*

### Rear Housing Cover

- R CW Casted on Back Housing
- L CCW Casted on Back Housing
- G Special GM Body CW
- F Special Ford Body CW

### Shaft Type & Rotor Width

- A Bolt & Key, Pulley Driven, Small Rotor
- B Bolt & Key, Pulley Driven, Large Rotor
- H Nut & Key, Detroit Diesel, Small Rotor
- D Nut & Key, Detroit Diesel, Large Rotor
- E 11 Tooth Spline, Cummins, Cat, Large Rotor
- F 11 Tooth Spline, Cummins, Cat, Small Rotor
- G Bolt & Key, Detroit Diesel, Small Rotor
- L Bolt & Key, Detroit Diesel, Large Rotor
- J Bolt & Key, Ford Diesel, DT466, Small Rotor
- K Bolt & Key, Ford Diesel, DT466, Large Rotor

### Orifice Size

- |         |          |
|---------|----------|
| 1 9/64" | 4 13/64" |
| 2 5/32" | 5 7/32"  |
| 3 3/16" |          |

### Pressure Setting

- |                   |                   |
|-------------------|-------------------|
| A 650 – 850 psi   | N 1700 – 1900 psi |
| B 800 – 1000 psi  | P 1750 – 1950 psi |
| C 1000 – 1200 psi | Q 1800 – 2000 psi |
| D 1100 – 1300 psi | R 1850 – 2050 psi |
| E 1200 – 1400 psi | S 1900 – 2100 psi |
| F 1250 – 1350 psi | T 1950 – 2150 psi |
| G 1350 – 1550 psi | U 2000 – 2200 psi |
| H 1400 – 1600 psi | V 2050 – 2250 psi |
| J 1500 – 1700 psi | W 2100 – 2300 psi |
| K 1550 – 1750 psi | X 2200 – 2400 psi |
| L 1600 – 1800 psi | Y 2250 – 2450 psi |
| M 1650 – 1850 psi | Z 2300 – 2500 psi |

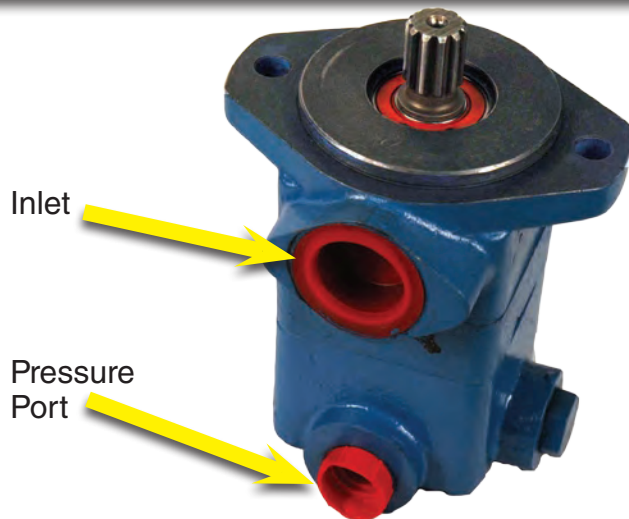


A Pressure Port



B Return Port

# VICKERS V10



Bottom View  
Identification Number

## VICKERS V10 F 1 P 7 P 38 C 6 G 20 \*

### Vane Pump Series 10

#### Cover

F Flow Control & Relief P Priority Valve & Relief  
NF Flow Control Cover Omitted Standard Cover

#### Mounting

1 2 Bolt Flange (SAE "A" Size)  
2 Foot Bracket at 12:00 (viewed from shaft end)  
23 Foot Bracket at 3:00  
26 Foot Bracket at 6:00  
29 Foot Bracket at 9:00

#### Inlet Port Connections

F 1.156 Dis. Port P 1" NPT thd  
H 1 in. O.D. Tube Connection S 1.3123" - 12 Straight thd  
K 1.3125" - 12 UN 2B thd. T 1.1875" 12 Straight thd

#### SAE Rated Capacity (1200 RPM - 100 PSI)

1 1 USGPM 3 3 USGPM 5 5 USGPM 7 7 USGPM  
2 2 USGPM 4 4 USGPM 6 6 USGPM

|   | Standard Cover      | Flow Control Cover (F) |                 | Outlet Port Connections             |
|---|---------------------|------------------------|-----------------|-------------------------------------|
|   |                     | Pressure               | Tank            | Flow Control Cover (NF)<br>Pressure |
| K |                     |                        |                 |                                     |
| P | 1/2" NPT Thd.       | 3/4"-16 St. Thd.       | 1/2" NPT Thd.   | 3/4"-16 St. Thd.                    |
| R | 1 1/16"-12 St. Thd. |                        |                 |                                     |
| S | 3/4"-16 St. Thd.    |                        |                 |                                     |
| T |                     | 3/4-16 St. Thd.        | 3/4-16 St. Thd. | 3/4"-16 St. Thd.                    |
| Y | 7/8"-14 St. Thd.    |                        |                 |                                     |

#### Shafts

1 Straight Keyed 6 Str. Stub-keyed 27 Tang  
3 Threaded with woodruff key 11 Splined 9 teeth 34 Threaded  
4 Threaded 12 Splined 13 teeth 38 Splined 11 Teeth

#### Pressure Port Positions (Viewed from cover end of pump)

A Opposite Inlet Port C In line with inlet  
B 90° Counterclockwise from inlet D 90° Clockwise from inlet

#### Flow Rate thru Orifice in Cover

1 1 USgpm (V10P) 3 3 USgpm (V10F Only) 5 (V10F Only) 7 7 (V10F Only)  
2 2 USgpm (V10F) 4 4 USgpm 6 6 USgpm 8 8 (V10F Only)

#### Pressure Setting

A 250 PSI C 750 PSI E 1250 PSI G 1750 PSI J 2250 PSI  
B 500 PSI D 1000 PSI F 1500 PSI H 2000 PSI K 2500 PSI

#### Design & Modification

L Left Hand Rotation when viewed from the shaft end



# VICKERS V20

Pressure  
Port

Inlet

Return

Pressure  
Port

Bottom View  
Stamped Identification Number

Bottom View  
Tag Identification Number

**VICKERS V20 F 1 P 7 P 38 C 6 G 20 \***

## Vane Pump Series 20

### Cover

**F** Flow Control **NF** Flow Control Cover  
**Omitted** Standard Cover **P** Priority Valve Cover

### Mounting

**1** 2 Bolt Flange, SAE A  
**2** Foot Bracket at 12:00 (viewed from shaft end)  
**3** PTO **23** Foot Bracket at 3:00  
**4** Face Type **26** Foot Bracket at 6:00  
**6** 2 Bolt Flange, SAE B **29** Foot Bracket at 9:00

### Inlet Port Connections

**D** 1.312-12 UN-2B Thread **P** 1 1/4" NPTF  
**E** 1.5" Dia. 2 Bolt Flange **R** 1" NPTF  
**F** 1.156" Dia. 2 Bolt Flange **S** 1.625-12 UN-2B Thread

### Ring Capacity (1200 RPM, 100 PSI)

**5** 5 USGPM **7** 7 USGPM **11** 11 USGPM **13** 13 USGPM  
**6** 6 USGPM **8** 8 USGPM **10** 10 USGPM **12** 12 USGPM

|          | Flow Control Cover (F) |                  | Outlet Port Connections |                                     |
|----------|------------------------|------------------|-------------------------|-------------------------------------|
|          | Standard Cover         | Pressure         | Tank                    | Flow Control Cover (NF)<br>Pressure |
| <b>K</b> |                        |                  |                         |                                     |
| <b>P</b> | 1/2" NPT Thd.          | 3/4"-16 St. Thd. | 1/2" NPT Thd.           | 3/4"-16 St. Thd.                    |
| <b>R</b> | 1 1/16"-12 St. Thd.    |                  |                         |                                     |
| <b>S</b> | 3/4"-16 St. Thd.       |                  |                         |                                     |
| <b>T</b> |                        | 3/4"-16 St. Thd. | 3/4"-16 St. Thd.        | 3/4"-16 St. Thd.                    |
| <b>Y</b> | 7/8"-14 St. Thd.       |                  |                         |                                     |

### Shafts

**0** Keyed/Threaded **6** Straight Stub, Keyed **27** Tang **62** Splined  
**1** Straight Keyed **11** Splined **38** Splined 11 Teeth  
**3** Threaded **15** Splined **54** Splined 20 Teeth

### Pressure Port Positions (Viewed from cover end of pump)

**A** Opposite Inlet Port **C** In line with inlet  
**B** 90° Counterclockwise from inlet **D** 90° Clockwise from inlet

### Flow Rate thru Orifice in Cover

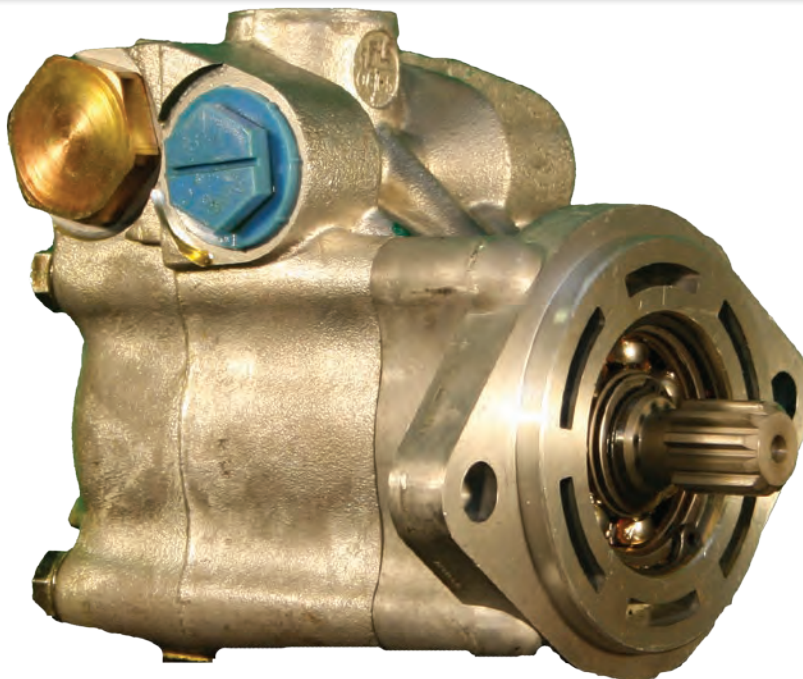
**2** 2 USgpm **3** 3 USgpm **5** 5 USgpm **7** 7 USgpm **9** 9 USgpm **11** 11 USgpm  
**2.5** 2.5 USgpm **4** 4 USgpm **6** 6 USgpm **8** 8 USgpm **10** 10 USgpm **12** 12 USgpm

### Pressure Setting

**A** 250 PSI **C** 750 PSI **E** 1250 PSI **G** 1750 PSI **J** 2250 PSI  
**B** 500 PSI **D** 1000 PSI **F** 1500 PSI **H** 2000 PSI **K** 2500 PSI

**Design** **11** V20, V20F, & V20P **12** V20P **22** V20F

**L** Left Hand Rotation when viewed from the shaft end



## TRW PART NUMBER PS 18 12 10 L 1 01 00

### Family Designation

### Displacement per Revolution (cc)

|    |    |
|----|----|
| 18 | 28 |
| 22 | 32 |
| 25 | 36 |

### Flow Control

|    |          |    |          |
|----|----------|----|----------|
| 12 | 3.17 GPM | 20 | 5.28 GPM |
| 14 | 3.70 GPM | 24 | 6.34 GPM |
| 16 | 4.23 GPM | 28 | 7.40 GPM |

### Relief Setting

|    |          |    |          |
|----|----------|----|----------|
| 10 | 1450 PSI | 15 | 2175 PSI |
| 12 | 1740 PSI | 16 | 2320 PSI |
| 14 | 2030 PSI | 17 | 2465 PSI |

### Direction of Rotation

|   |                    |   |                           |
|---|--------------------|---|---------------------------|
| R | Clockwise Rotation | L | Counterclockwise Rotation |
|---|--------------------|---|---------------------------|

### Shaft Type

|   |                             |
|---|-----------------------------|
| 1 | 11 tooth 16/32 spline       |
| 2 | .625 diameter woodruff key  |
| 3 | 7/8" B-Flange Tapered Shaft |

### Housing & Cover

#### Standard Cover

|    | Outlet | Inlet | Housing Orientation |
|----|--------|-------|---------------------|
| 01 | Right  | Right | 0°                  |
| 02 | Right  | Top   | 0°                  |
| 03 | Right  | Left  | 0°                  |
| 04 | Left   | Right | 0°                  |
| 05 | Left   | Top   | 0°                  |
| 06 | Left   | Left  | 0°                  |
| 07 | Right  | Right | 90°                 |
| 08 | Right  | Top   | 90°                 |
| 09 | Right  | Left  | 90°                 |
| 10 | Left   | Right | 90°                 |
| 11 | Left   | Top   | 90°                 |
| 12 | Left   | Left  | 90°                 |

#### 18" Offset Cover

|    | Outlet | Inlet | Housing Orientation |
|----|--------|-------|---------------------|
| 13 | Right  | Left  | 0°                  |
| 14 | Left   | Right | 0°                  |
| 15 | Left   | Top   | 0°                  |
| 16 | Right  | Top   | 0°                  |

#### B-Flange Cover

|    | Outlet | Inlet | Housing Orientation |
|----|--------|-------|---------------------|
| 26 | Left   | Left  | 0°                  |

Customer Version 00 Standard





## TRW PART NUMBER EV 18 12 15 R 1 01 00

### Family Designation

### Displacement per Revolution (cc)

18  
22  
25  
28

### Flow Control

12 3.17 GPM  
14 3.70 GPM  
16 4.23 GPM

### Relief Setting

09 1305 PSI      17 2465 PSI  
15 2175 PSI      18 2683 PSI  
16 2320 PSI

### Direction of Rotation

R Clockwise Rotation      L Counterclockwise Rotation

### Shaft Type

1 11 tooth 16/32 spline

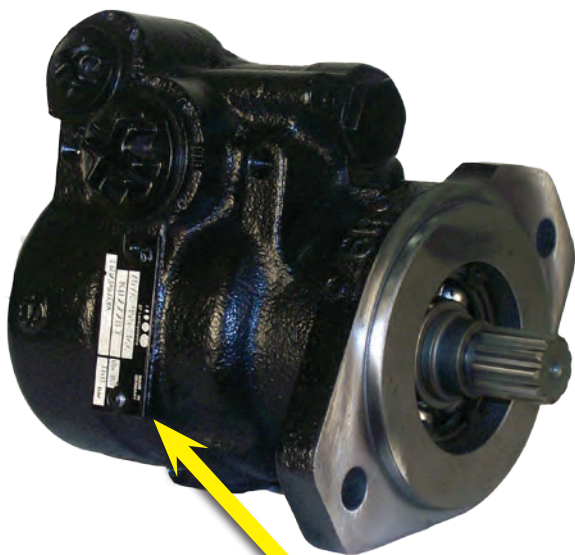
### Housing

01 SAE A Flange – JIC ports  
02 SAE A Flange – Metric Ports

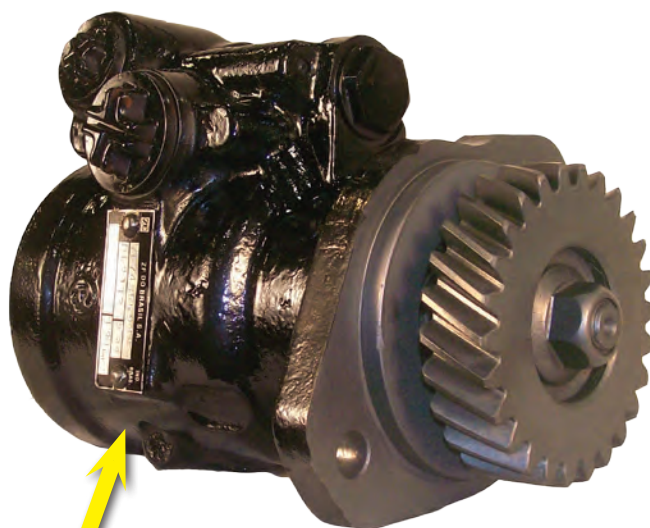
### Customer Version

00 Standard

# ZF 767



Spline Style



Gear Style



Identification Number

| MODEL | OEM | PART NUMBER | APPLICATION | OE PART NUMBER  | OE SERVICE NUMBER |
|-------|-----|-------------|-------------|-----------------|-------------------|
| 767   | ZF  | 7672955278  | DAIMLER     | MBT A0014661101 |                   |
| 767   | ZF  | 7673671124  | FORD        |                 | F4HZ-3A674-B      |
| 767   | ZF  | 7673900103  | FORD        | E8HT-3K514-AA   | E8HZ-3A674-E      |
| 767   | ZF  | 7673900113  | FORD        |                 |                   |
| 767   | ZF  | 7673900114  | FORD        | F4HT-3K514-EA   | E8HZ-3A674-P      |
| 767   | ZF  | 7673955141  |             |                 |                   |
| 767   | ZF  | 7673955176  | MACK        |                 |                   |
| 767   | ZF  | 7673955221  |             |                 |                   |
| 767   | ZF  | 7673955253  |             |                 |                   |
| 767   | ZF  | 7673955271  | VOLVO/WHITE |                 |                   |
| 767   | ZF  | 7673955272  | VOLVO/WHITE |                 |                   |
| 767   | ZF  | 7673955273  | VOLVO/WHITE |                 |                   |
| 767   | ZF  | 7673955320  | PETERBILT   |                 |                   |
| 767   | ZF  | 7673955321  | PACCAR      |                 |                   |
| 767   | ZF  | 7673955330  | FORD        | E9TD-3A674-BB   | E9TZ-3A674-B      |
| 767   | ZF  | 7673955386  |             |                 |                   |
| 767   | ZF  | 7673955958  | PETERBILT   |                 |                   |
| 767   | ZF  | 7673955959  | PACCAR      |                 |                   |

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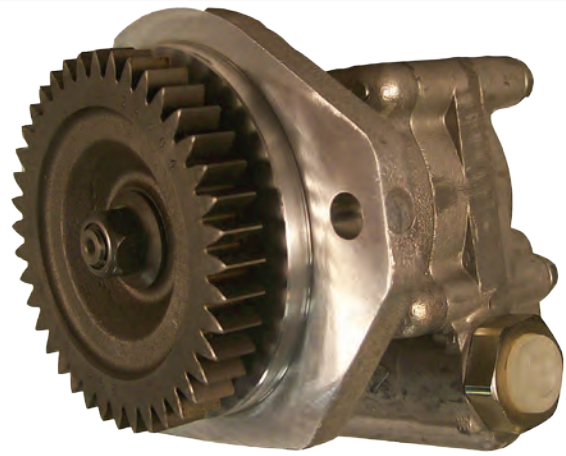
# ZF 767

| MODEL   | OEM | PART NUMBER    | APPLICATION  | OE PART NUMBER  | OE SERVICE NUMBER                              |
|---------|-----|----------------|--------------|-----------------|------------------------------------------------|
| 767     | ZF  | 7673955979     |              |                 |                                                |
| 767     | ZF  | 7674671143     | GAS ENG.     | E8HZ-3A674-S    | E8HZ-3A674-S                                   |
| 767     | ZF  | 7674900101     | FORD         | E8HT-3A674-BA   | F6HZ-3A711-VA                                  |
| 767     | ZF  | 7674900111     | FORD         | F4HT-3K514-BA   |                                                |
| 767     | ZF  | 7674900112     | FORD         | F4HT-3K514-FA   | E8HZ-3A674-R                                   |
| 767     | ZF  | 7674955164     | MACK         |                 |                                                |
| 767     | ZF  | 7674955250     |              |                 |                                                |
| 767     | ZF  | 7674955275     | PETERBILT    |                 |                                                |
| 767     | ZF  | 7674955290     | FORD         | E9HT-3A674-CA   | F0HZ-3A674-A<br>F0HZ-3A674-D                   |
| 767     | ZF  | 7674955328     | FORD         | F3HT-3A674-EA   |                                                |
| 767     | ZF  | 7674955342     | FORD         | F4HT-3A674-CA   | F4HZ-3A674-D                                   |
| 767     | ZF  | 7674955343     | FORD         | F6HT-3A674-ZA   | F4HZ-3A674-D<br>F4HT-3A674-GA                  |
| 767     | ZF  | 7674955913     | PETERBILT    | TE 31451598     |                                                |
| 767     | ZF  | 7674955920     | PETERBILT    |                 |                                                |
| 767     | ZF  | 7674955928     |              | MBT A6804660601 |                                                |
| 767     | ZF  | 7674955929     |              |                 |                                                |
| 767     | ZF  | 7674955939     | MCI          |                 |                                                |
| 767     | ZF  | 7674974105     | FORD         | F3HT-3A674-AB   | F3HZ-3A674-A<br>F1HZ-3A674-J                   |
| 767     | ZF  | 7674974106     | FORD         | F4HT-3A674-AA   | F2HZ-3A674-B                                   |
| 767     | ZF  | 7674974107     | FORD         | F3HT-3A674-FA   |                                                |
| 767     | ZF  | 7674974109     | FORD         | F4HT-3A674-LA   | F4HZ-3A674-F                                   |
| 767     | ZF  | 7674974110     | FORD         | F4HT-3A674-KA   | F4HZ-3A674-F                                   |
| 767     | ZF  | 7674974909     | FORD         | E8HT-3A674-AA   | E8HZ-3A674-M                                   |
| 767     | ZF  | 7674974910     | FORD         | F1HT-3A674-FA   | F3HZ-3A674-M<br>E8HZ-3A674-A<br>F1HT-3A674-FA1 |
| 767     | ZF  | 7674974922     | FORD         | F1HT-3A674-FA   | F3HZ-3A674-B                                   |
| 767     | ZF  | 7674974923     | FORD         | F3HZ-3A674-F    | F3HT-3A674-DA<br>F1HZ-3A674-M                  |
| 767     | ZF  | 7674974924     | FORD         | E8HZ-3A674-M    | E8HZ-3A674-M<br>F4HZ-3A674-F                   |
| 767     | ZF  | 7674975920     | PETERBILT    |                 |                                                |
| 767     | ZF  | 7677955179     | STERLING     | F1HT-3A674-CA   | F1HZ-3A674-F                                   |
| 767     | ZF  | 7677955180     | STERLING     | F1HT-3A674-AA   | F1HZ-3A674-D                                   |
| 767     | ZF  | 7677955181     | STERLING     | F1HT-3A674-EA   | F1HZ-3A674-H                                   |
| 767     | ZF  | 7677955187     | STERLING     | F1HT-3A674-JA   | F1HZ-3A674-L                                   |
| 767     | ZF  | 7677974103     | FORD         | F1HT-3A674-BA   | F1HT-3A674-BA                                  |
| 767     | ZF  | 7677974104     | FORD         | F1HT-3A674-GA   | F1HZ-3A674-K                                   |
| 767     | ZF  | 7677974105     | FORD         | F1HT-3A674-DA   | F1HT-3A674-DA                                  |
| 767     | ZF  | 7677974106     | FORD         | F3HT-3A674-GA   | F2HZ-3A674-B                                   |
| 767     | ZF  | 7677974107     | FORD         | F6HT-3A674-TA   | F6HZ-3A674-TA                                  |
| 767     | ZF  | 7673955305/383 | FORD         |                 |                                                |
| 767     | ZF  | 7674955272/344 | FORD         |                 |                                                |
| 767     | ZF  | 7674955273/345 | FORD         |                 |                                                |
| 767     | ZF  | 7673955202     | VOLVO        |                 |                                                |
| 767     | ZF  | 7673955940     |              |                 |                                                |
| 767     | ZF  | 7674955154     |              |                 |                                                |
| 767     | ZF  | 7674955325     | VAN HOOL BUS |                 |                                                |
| 7674974 | ZF  | 7674974113     |              |                 |                                                |

# ZF 768



Spline Style



Gear Style



Pulley Style



Tang Style



Identification Tag  
Bottom View

| OEM | MODEL   | PART NUMBER | RELIEF PRESSURE | APPLICATION     | OE PART NUMBER | OE SERVICE NUMBER |
|-----|---------|-------------|-----------------|-----------------|----------------|-------------------|
| ZF  | 7683955 | 7683955710  | 1800            | WORK HORSE      | W0007632       |                   |
| ZF  | 7684955 | 7684955174  |                 |                 | 14-14418-000   |                   |
| ZF  | 7684955 | 7684955181  | 2700            | FREIGHTLINER    | 14-14599-000   |                   |
| ZF  | 7684955 | 7684955708  | 2600            | FORD RV (6.8L)  | 2C34-3A674-BA  | 2C3Z-3A674-BA     |
| ZF  | 7684955 | 7684955709  | 1800            | FORD RV (6.8L)  | 2C34-3A674-AA  | 2C3Z-3A674-AA     |
| ZF  | 7684955 | 7684955728  | 2300            | FORD            |                |                   |
| ZF  | 7684955 | 7684955739  | 2800            | GMC             |                | 15002492          |
| ZF  | 7684955 | 7684955741  | 1900            | GMC             |                | 15002493          |
| ZF  | 7684955 | 7684955742  | 1800            | FORD VAN (6.8L) |                |                   |

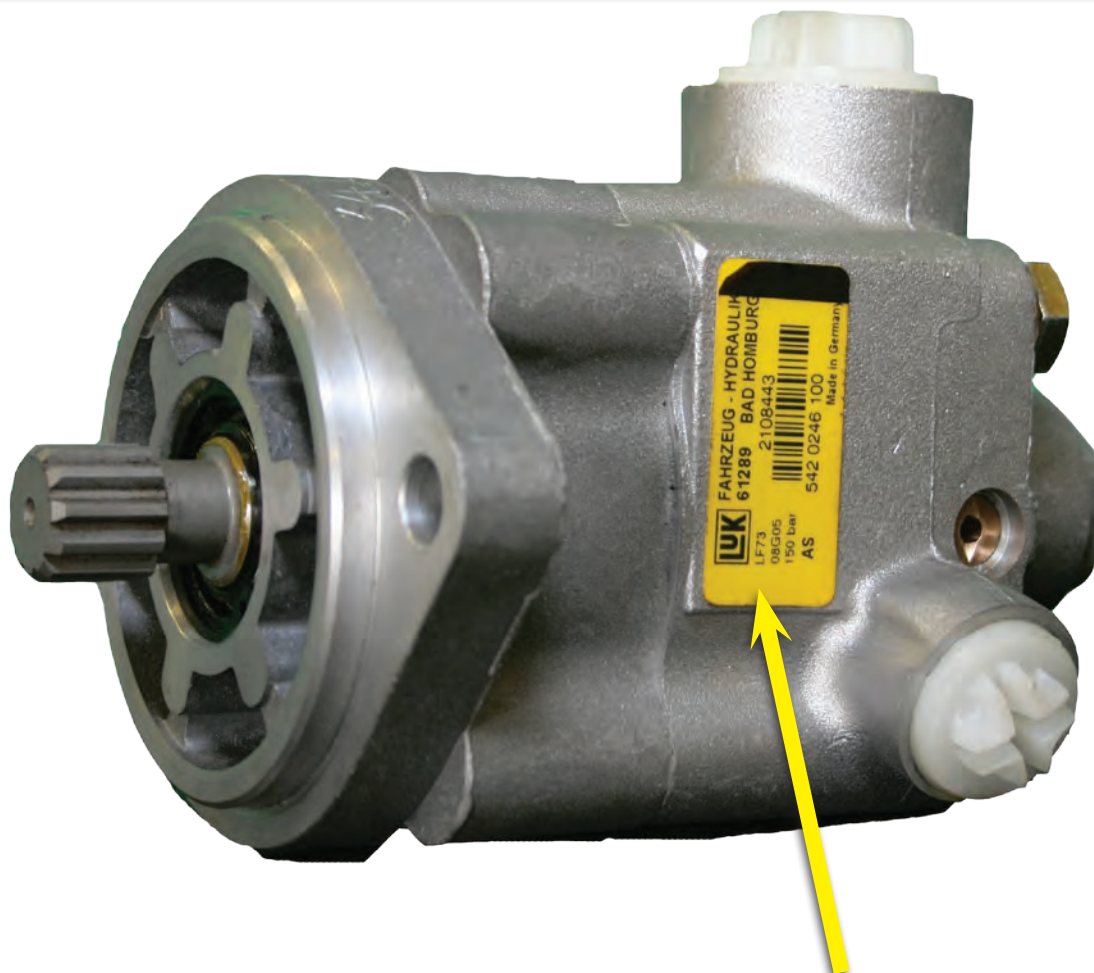
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# ZF 768

| OEM | MODEL   | PART NUMBER    | RELIEF PRESSURE | APPLICATION        | OE PART NUMBER         | OE SERVICE NUMBER |
|-----|---------|----------------|-----------------|--------------------|------------------------|-------------------|
| ZF  | 768     | 7684988120     | 2400            |                    |                        |                   |
| ZF  | 7685955 | 7685955181     |                 |                    |                        |                   |
| ZF  | 7685955 | 7685955223     | 2200            | FREIGHTLINER       | 14-14407-000           |                   |
| ZF  | 7685955 | 7685955225     | 2200            | FREIGHTLINER       | 14-14407-002           |                   |
| ZF  | 7685955 | 7685955226     | 2300            | FREIGHTLINER       | 14-14407-003           |                   |
| ZF  | 7685955 | 7685955236     | 2700            | FREIGHTLINER       | 14-14599-001           |                   |
| ZF  | 7685955 | 7685955268     | 2800            | FREIGHTLINER       |                        |                   |
| ZF  | 7685955 | 7685955269     |                 | FREIGHTLINER       | 14-14599-003           |                   |
| ZF  | 7685955 | 7685955285     |                 | NOVA BUS           |                        |                   |
| ZF  | 7685955 | 7685955509     |                 |                    |                        |                   |
| ZF  | 7685955 | 7685955603     | 2800            | FREIGHTLINER       | 14-14777-000           |                   |
| ZF  | 7685955 | 7685955607     | 2800            | FREIGHTLINER       | 14-15084-000           |                   |
| ZF  | 7683955 | 7685955623     | 1800            | WORK HORSE         | W0010888               |                   |
| ZF  | 7685955 | 7685955702     | 2400            |                    |                        |                   |
| ZF  | 7685955 | 7685955703     | 2400            |                    |                        |                   |
| ZF  | 7685955 | 7685955704     | 2300            | FDC1460            | F7HT-3A674-FA          | F7HZ 3A674 FA     |
| ZF  | 7685955 | 7685955708     | 2300            |                    | XC45-3A674-AA          | F8HZ-3A674-AA     |
| ZF  | 7685955 | 7685955710     | 2300            | FORD/STERLING      | F8HT-3A674-BA          | F8HZ-3A674-BA     |
| ZF  | 7685955 | 7685955714     | 2300            | FORD/STERLING      | XC45-3A674-CA          | XC4Z 3A674 CA     |
| ZF  | 7685955 | 7685955715     | 2300            | FORD/STERLING      | F81A-3A674-AA          | F81Z-3A674-AB     |
| ZF  | 7685955 | 7685955744     | 2300            | FORD/STERLING      | YC3Z-3A674-CA          |                   |
| ZF  | 7685955 | 7685955747     | 2400            | FORD/STERLING      | YC35-3A674-AA          |                   |
| ZF  | 7685955 | 7685955763     | 2300            |                    |                        |                   |
| ZF  | 7685955 | 7685955783     | 2900            | FORD/INTERNATIONAL | 3574128C91/4C4Z3A674AA |                   |
| ZF  | 7685955 | 7685955768/806 | 2700            | GMC                | 15286010               | 15002494          |
| ZF  | 7685955 | 7685955817     | 2500            | INTERNATIONAL      | 3808589C91             |                   |
| ZF  | 768     | 7685988502     | 2400            |                    |                        |                   |
| ZF  | 7686955 | 7686955163     | 2200            | FREIGHTLINER       |                        | 14-14407-004      |
| ZF  | 7686955 | 7686955173     | 2700            | FREIGHTLINER       |                        | 14-14599-004      |
| ZF  | 768     | 7686974702     | 2750            | GMC                |                        | 15002478          |
| ZF  | 7686955 | 7686974702     | 2750            |                    |                        |                   |
| ZF  | 7687955 | 7687955701     | 2200            | FORD/STERLING      | F7HS-3A674-CA          | F7HS 3A674 CA     |
| ZF  | 7687955 | 7687955702     | 1900            | FORD/STERLING      |                        | F8HZ-3A674-AB     |
| ZF  | 7687955 | 7687955707     | 2300            | FORD/STERLING      |                        | XC45-3A674-NA     |
| ZF  | 7687955 | 7687955708     | 2300            | FORD/STERLING      |                        | XC45-3A674-LA     |
| ZF  | 7687955 | 7687955709     | 2300            | FORD/STERLING      |                        | XC45-3A674-MA     |
| ZF  | 7687955 | 7687955710     | 2300            | FORD/STERLING      |                        | XC45-3A674-RA     |
| ZF  | 7688955 | 7688955501     | 2350            | FREIGHTLINER       |                        | 14-14220-000      |
| ZF  | 7688955 | 7688955506     | 2175            | STERLING           |                        | 14-14705-000      |
| ZF  | 7688955 | 7688955509     | 2350            | FREIGHTLINER       |                        | 14-14791-000      |
| ZF  | 7688955 | 7688955510     | 2175            | FREIGHTLINER       |                        | 14-14705-001      |
| ZF  | 7688955 | 7688955512     |                 | FREIGHTLINER       |                        | 14-15466-000      |
| ZF  | 7685955 | 7685955288/301 | 2300            | GMC                |                        | 93803969          |
| ZF  | 7685955 | 7685955759/808 | 2175            | GMC                |                        | 15153616          |
| ZF  | 7685955 | 7685955794/807 | 2175            | GMC                |                        | 93803970          |

# LUK LF73



Identification Number



Identification Tag

| MODEL | OEM | PART NUMBER | APPLICATION   |
|-------|-----|-------------|---------------|
| LF73  | LUK | 515790      | VOLVO         |
| LF73  | LUK | 2105341     | INTERNATIONAL |
| LF73  | LUK | 2106260     | KENWORTH      |
| LF73  | LUK | 2106400     | VOLVO         |
| LF73  | LUK | 2106552     | PETERBILT     |
| LF73  | LUK | 2106751     | VOLVO         |
| LF73  | LUK | 2106754     | VOLVO         |
| LF73  | LUK | 2106961     | PETERBILT     |
| LF73  | LUK | 2107545     | INTERNATIONAL |
| LF73  | LUK | 2107547     | INTERNATIONAL |
| LF73  | LUK | 2107554     | INTERNATIONAL |
| LF73  | LUK | 2107558     | INTERNATIONAL |
| LF73  | LUK | 2107670     | WESTERN STAR  |

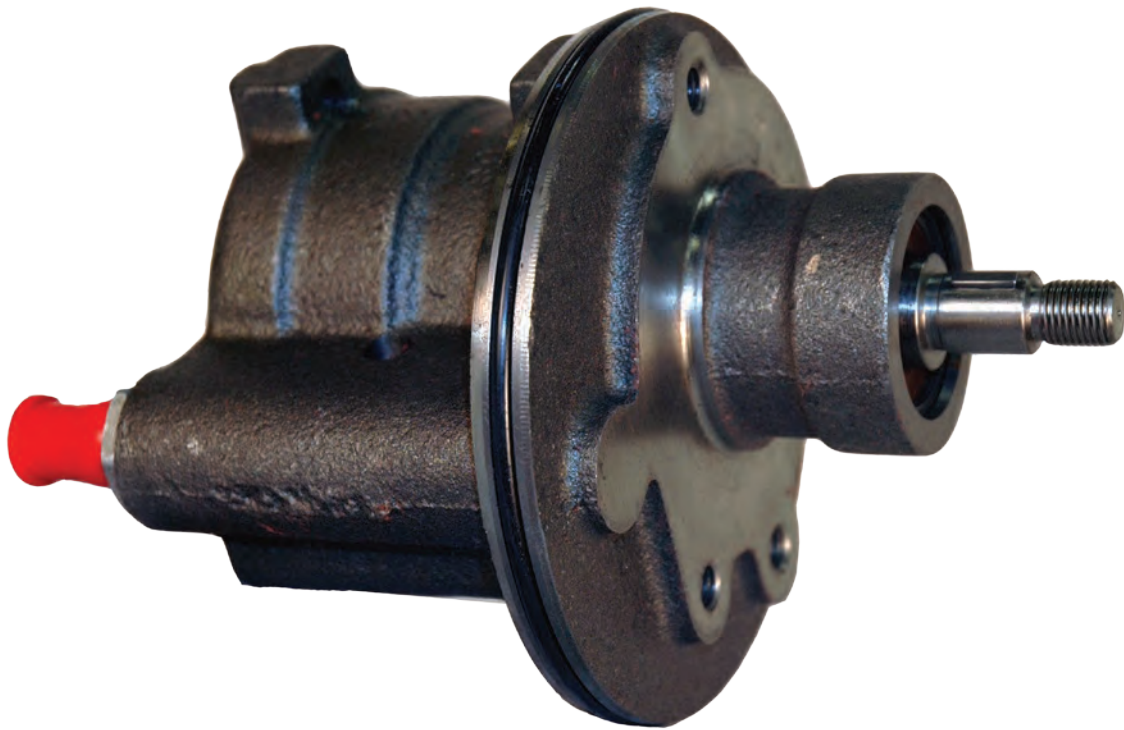
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# LUK LF73

| MODEL | OEM | PART NUMBER     | APPLICATION                  |
|-------|-----|-----------------|------------------------------|
| LF73  | LUK | 2107671         | WESTERN STAR                 |
| LF73  | LUK | 2108215         |                              |
| LF73  | LUK | 2108321         | VOLVO                        |
| LF73  | LUK | 2108443         | FREIGHTLINER                 |
| LF73  | LUK | 2108653         | INTERNATIONAL                |
| LF73  | LUK | 2108655         | INTERNATIONAL                |
| LF73  | LUK | 2112224         | FORD/INTERNATIONAL           |
| LF73  | LUK | 2105424/2106724 | FREIGHTLINER/DINA            |
| LF73  | LUK | 2106722/2106750 | FREIGHTLINER/VOLVO           |
| LF73  | LUK | 2106727/2106191 | FREIGHTLINER                 |
| LF73  | LUK | 2106752/2108763 | FREIGHTLINER                 |
| LF73  | LUK | 2106835/2108762 | FREIGHTLINER                 |
| LF73  | LUK | 2107323/2107560 | INTERNATIONAL                |
| LF73  | LUK | 2107546/2107666 | INTERNATIONAL/WESTERN STAR   |
| LF73  | LUK | 2107550/515892  | KENWORTH/WESTERN STAR        |
| LF73  | LUK | 2107669/2105508 | INTERNATIONAL/WESTERN STAR   |
| LF73  | LUK | 2108322/2107467 | VOLVO                        |
| LF73  | LUK | 515893/2107552  | INTERNATIONAL/WESTERN STAR   |
| LF73  | LUK | LH2110493       | INTERNATIONAL                |
| LF73  | LUK | LH8118130       |                              |
| LF73C | LUK | 2106771         | FREIGHTLINER/BLUE BIRD       |
| LF73C | LUK | 2106818         | THOMAS BUS                   |
| LF73C | LUK | 2106820         | THOMAS BUS                   |
| LF73C | LUK | 2107262         | INTERNATIONAL                |
| LF73C | LUK | 2107361         | MACK                         |
| LF73C | LUK | 2107507         | MACK                         |
| LF73C | LUK | 2107561         | INTERNATIONAL                |
| LF73C | LUK | 2107611         | INTERNATIONAL                |
| LF73C | LUK | 2108206         | FREIGHTLINER/MCI             |
| LF73C | LUK | 2108657         |                              |
| LF73C | LUK | 2108759         | FRTLNR 3126 CAT              |
| LF73C | LUK | 2110561         | FREIGHTLINER/MCI             |
| LF73C | LUK | 2110668         | INTERNATIONAL                |
| LF73C | LUK | 2106811/2106771 | VOLVO/FREIGHTLINER/BLUE BIRD |
| LF73C | LUK | 2107204/2107563 | INTERNATIONAL                |
| LF73C | LUK | 2107878/2107927 | MACK/SPARTAN                 |
| LF73W | LUK | 2112515         | INTERNATIONAL                |

# SAGINAW 143



**143**



3/4" Standard Mount

**143A**



1" Offset Mount

| MODEL | OEM     | CASTING NUMBER | APPLICATION             |
|-------|---------|----------------|-------------------------|
| 143   | SAGINAW | 7812808        | CHEVY/GMC/INTERNATIONAL |
| 143A  | SAGINAW | 7812808        | CHEVY/GMC               |



# CORE RETURN



## 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 insure 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](mailto:warranty@wellertruck.com).

### **2. Prepare the unit for shipping.**

- Drain oil from unit.
- Band, wrap, or strap unit(s) to a pallet.
- 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.**

- Email [corereturn@wellertruck.com](mailto:corereturn@wellertruck.com) or call 1-800-872-6697 Ext. 3794 or 3759
- Provide the following:
  - ◆ Core return tag # or 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.*

**[www.wellertruck.com](http://www.wellertruck.com)**



**THE WELLER REMAN NETWORK**



# WELLER WARRANTY

## WARRANTY STATEMENT

- **Nationwide**

- **One Year Coverage**

- **Unlimited Mileage**

*Call Us!*

**800-872-6697**  
-for-

- **Technical Assistance**

- **Return Authorization**

### Warranty Coverage

#### *Standard Warranty Coverage*

Weller Reman Steering Gears – 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.

## THE WELLER REMAN NETWORK



# THE WELLER REMAN NETWORK



**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**  
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Lockport, IL 60491  
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**877-992-2227**

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Kent, WA 98032  
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**877-572-0321**

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