Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Other Material

Specifications

Essential, Recommended, and Fabricated Tools

Remove Engine

Install Engine

Install Front Frame

Essential, Recommended and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

JT07336 Lift Sling

JDG820 Flywheel Rotation Tool

JDG861 Torque Wrench Adapter

JDG10041 Rear Lifting Bracket

JDG10042 Front Lifting Bracket

JDG11258 Rear Lifting Bracket

JDG11252 Front Lifting Bracket

Other Material

Number	Name	Use
• PM38657 (us) • TY9484 (canadian) • 17430 Loctite™ (us)	High Flex Form-In-Place Gasket	Used to seal surfaces.

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Group 05 - Connectors

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Use Electrical Insulating Compound

Using High-Pressure Washers

Repair AMP Connector

Repair AMPSEAL 16™ Connectors

CAN Controlled SCV Connectors

Remove Connector Body from Blade Terminals

CINCH™ Wedgebox Connectors

Exploded View—CINCH™ Flexbox Connectors

CINCH™ Flexbox Connectors

Repair CPC™ Blade Type Connectors

Repair CPC™, Large MATE-N-LOC™, and METRIMATE™ Pin Type Connectors

Repair DEUTSCH™ Connectors

Repair DEUTSCH™ Implement Connectors

Repair ITT Connector

Repair Small MATE-N-LOC™ Socket Connector

Repair Small MATE-N-LOC™ Pin Connector

Repair (Pull Type) METRI-PACK™ Connectors

Repair (Push Type) METRI-PACK™ Connectors

Repair Molex™ Control Unit Connectors

Repair Molex Connector

Repair SUMITOMO™ Connectors

Repair Tyco Fuel Injector Connector

Repair Weather Pack™ Connector

Repair YAZAKI™ Connectors

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Other Material

Specifications

Remove Transmission

Install Transmission

Remove Scavenge Pump

Install Scavenge Pump

Essential, Recommended, and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

D01044AA Bushing, Bearing and Seal Driver Set

DFRW231—Guide Pins

JDG768 Pilot Pins

JDG820 Flywheel Rotation Tool

JDG851 Seal Installer

JDG861 Torque Wrench Adapter

JDG1885 STC Tools

JDG1935 Auxiliary Drive Support

JDG2061 Front Adapter

JT07122 Splitting Stand

JT07122-7 Upright Supports

JT07201A Transmission Lifting Fixture

JT07321 Rear Support Wheels

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Other Material

Specifications

Remove Rear Axle Assembly

Install Rear Axle Assembly

Remove Final Drive Assembly

Install Final Drive Assembly

Essential, Recommended, and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

DFRW144—European Narrow Rear Axle Lift Tool

D01300AA Slide Hammer Puller

JDG768 Pilot Pins

JDG1119 Rear Axle Lift Tool

JDG1182 Puller Adapter

JDG10757 Rear Final Drive Bearing and Seal Installer

JDG10758 Rear Final Drive Lift Tool

JT07122-1 Splitting Stands

JT07211 Rear Differential Support Stands

JT07323 Rear Dolly Adapters

Other Material

Number	Name	Use
• PM38657 (us) • PM38628 (canadian) • 17430 LOCTITE ™ (loctite)	High Flex Form-In-Place Gasket	Used to seal transmission housings.

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Specifications

Remove and Install Steering Pump

Remove and Install Steering Motor (—907100)

Remove and Install Steering Motor (907101—)

Remove and Install Loop Override Valve (907101—)

Flush Steering System

Repair Steering Motor

Essential, Recommended, and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

DFRW2—Needle Valve Test Hose Assembly

DFRW123—Steering Motor Bypass Hose

DFRW136—STEERING PUMP REMOVAL TOOL

JDG1258 Torque Adapter

JT07056 Service Jack

JT07118 Two-Valve Manifold

Specifications

Item	Measurement	Specification
Steering Pump-to-Pump Housing Cap Screws	Torque	126 N·m (92 lb.-ft.)
Steering Motor Mounting Hardware	Torque	126 N·m (92 lb.-ft.)
Steering Motor Cap Screws	Torque	125 N·m (92 lb.-ft.)
Steering Hose Flange Clamp Cap Screws	Torque	128 N·m (94 lb.-ft.)
Loop Override Cap Screws	Torque	35 N·m (26 lb.-ft.)
Steering Motor Head Socket Head Cap Screws	Torque	40 N·m 30 (lb.-ft.)
Valve Block Socket Head Cap Screws	Torque	40 N·m

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended, and Fabricated Tools

Specifications

Remove and Install Integrated Hydraulic Pump

Remove and Install Transmission Pump

Remove and Install Hitch-SCV Valve Stack

Remove and Install Hitch Frame

Essential, Recommended, and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

JDG1574 Lifting Bracket

JDG19 Lifting Eyes

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Group 00 - Component Removal and Installation

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Other Material

Specifications

Remove Cab

Install Cab

Repair Cab

Remove Inner Roof

Install Inner Roof

Essential, Recommended and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

JDG19 Lifting Eyes

JT07336 Lift Sling

Other Material

Number	Name	Use
• PM37477 (us) • PM38621 (canadian) • 242 LOCTITE ™ (loctite)	Thread Lock and Sealer (Medium Strength)	Used to retain ring gear hub retainer lock screw.

Specifications

Item	Measurement	Specification
Cab Mount Cap Screws [Zinc-Flake Coated]	Torque	300 N·m (221 lb.-ft.)
Inner Roof Retaining Nuts	Torque	40 N·m (30 lb.-ft.)
Ground Wire Cap Screw	Torque	70 N·m (51 lb.-ft.)

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Group 05 - Tracks

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Specifications

Install Support Stands

Track Tensioning and De-tensioning

Remove and Install Track

Check Track Alignment

Adjust Track Alignment

Drive Wheel And Walking Beam Settings

Adjust Track Tread Settings

Essential, Recommended, and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

DFRW233—Support Bar

JDG1076A Cone Stand and Adapter

JDG10929 Track Adjustment Tool

JT02043 Support Stands

JT02044 Support Stands

JT05706 Torque Multiplier Wrench

JT07211 Rear Differential Support Stands

RE164261 Track Charging Hose

Specifications

Item	Measurement	Specification
Idler Wheel Cap Screws	Torque	1050 N·m (775 lb-ft)
Special Cap Screws	Torque	300 N·m (221 lb-ft)
Lock Plate Cap Screws	Torque	130 N·m (95 lb-ft)
Drive Wheel Cap Screws	Initial Torque	330 N•m (245 lb-ft)

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Section 30 - FUEL AND COOLING SYSTEMS

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Group 20 - Coolers and Air Conditioning Condenser

List of References

Below is a list of all items within this group.

Essential, Recommended and Fabricated Tools

Specifications

Other Material

Remove Air Conditioning Condenser

Install Air Conditioning Condenser

Remove Fuel Cooler - Hydraulic Oil Cooler

Install Fuel Cooler - Hydraulic Oil Cooler

Leak Test Hydraulic Oil Cooler

Essential, Recommended and Fabricated Tools

→NOTE:

Order tools according to information given in the U.S. SERVICEGARD ™ Catalog or from the European Microfiche Tool Catalog (MTC).

Below are tools listed in this group.

JT05412 Universal Pressure Test Kit

Specifications

Item	Measurement	Specification
Upper Condenser Line	Torque	33 N·m (24 lb.-ft.)
Lower Condenser Line	Torque	33 N·m (24 lb.-ft.)
Oil Cooler	Air Pressure	700—1000 kPa (7—10 bar) (102—145 psi)

Other Material

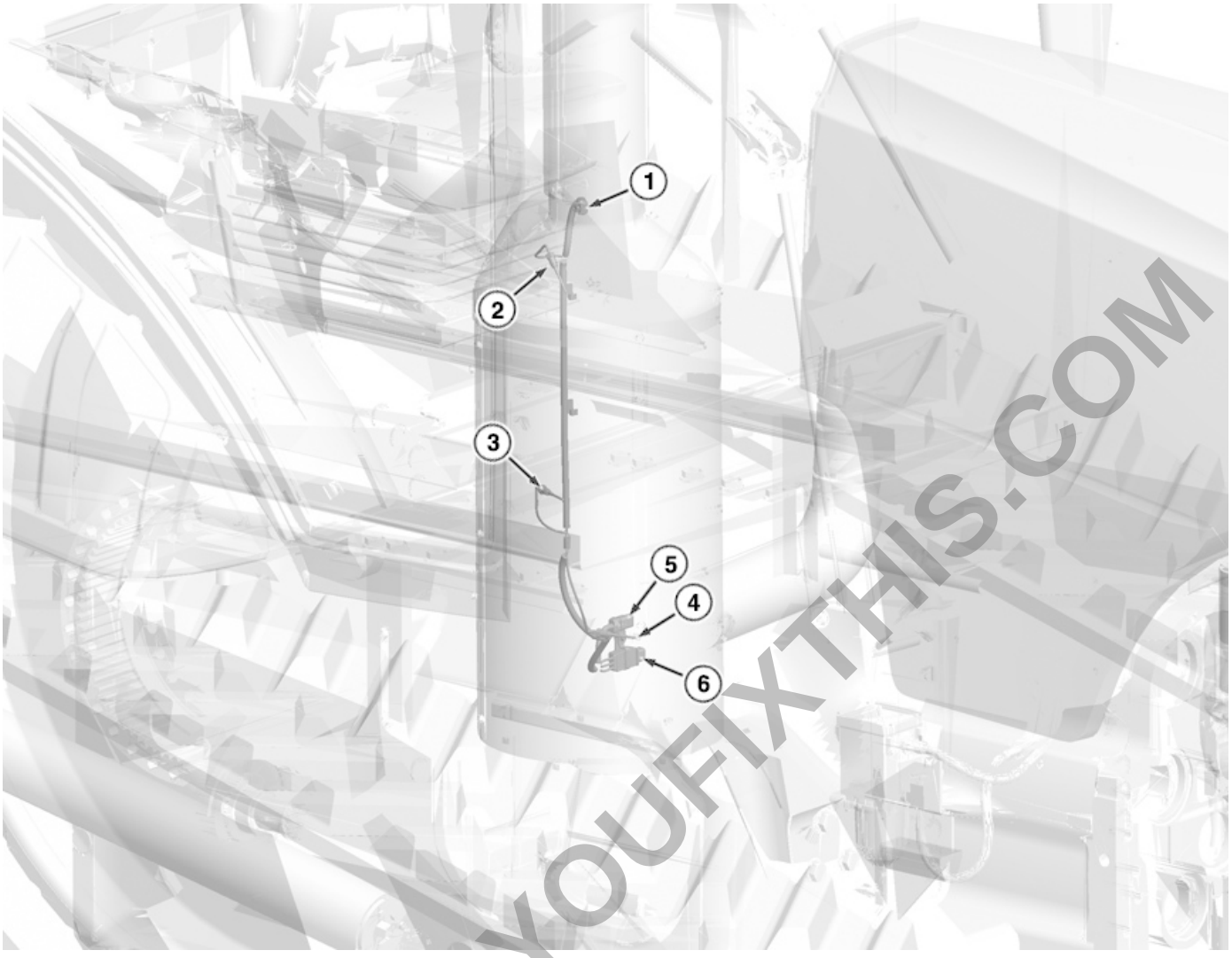
Number	Name	Use
• TY22025 (8.5 oz) (us)	Refrigerant Oil for R134a	Lubricate A/C system

Remove Air Conditioning Condenser

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Exhaust Filter Harness



Exhaust Filter Harness

LEGEND:

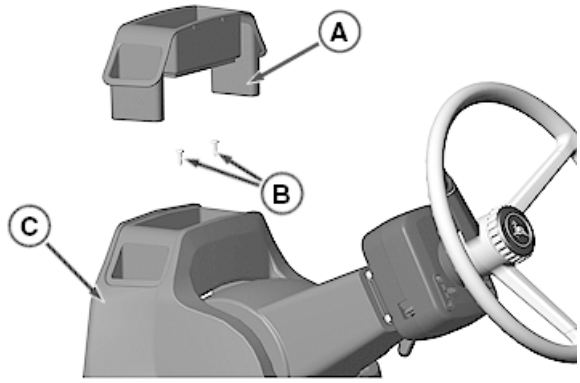
1 Diesel Particulate Filter (DPF) Differential Pressure Sensor (See relevant diesel engine CTM)
2 Exhaust Temperature Sensor 3 (See relevant diesel engine CTM)
3 Exhaust Temperature Sensor 2 (See relevant diesel engine CTM)
4 Exhaust Temperature Sensor 1 (See relevant diesel engine CTM)
5 Chassis-to-Exhaust Filter Harness Interconnect
6 Chassis-to-Exhaust Filter Harness Interconnect

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Replace Ignition Switch

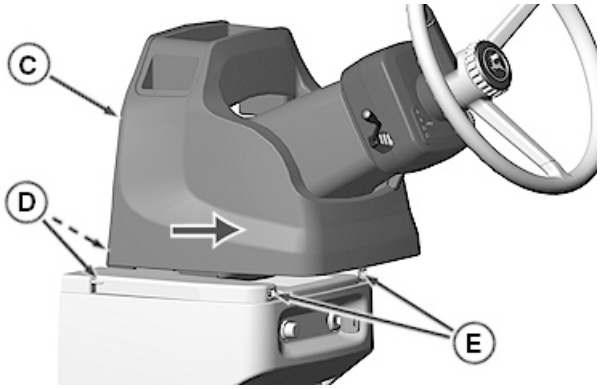
[1] -



LEGEND:

A	Tray
B	Screws (2 used)
C	Upper Cowl
D	Alignment Pins (2 used)
E	Clips (2 used)

Tray and Screws

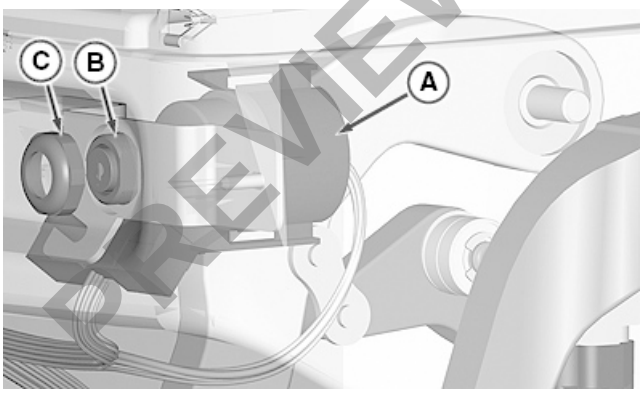


Remove Upper Cowl

Remove tray (A) and screws (B) from upper cowl (C).

[2] - Pull upper cowl (C) rearward off alignment pins (D) and clips (E).

[3] -



LEGEND:

A	Harness Connector
B	Ignition Switch
C	Jam Nut

Key Switch

Disconnect harness connector (A) from ignition switch (B).

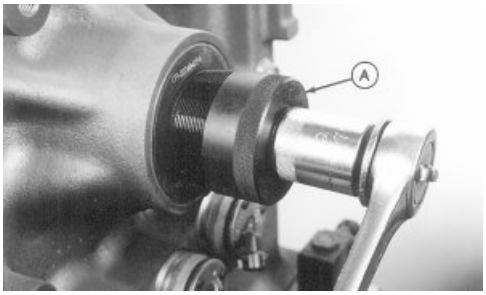
[4] - Remove jam nut (C).

[5] - Remove switch.

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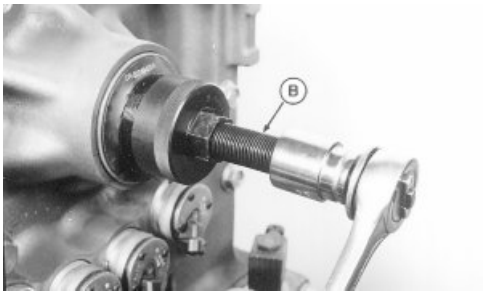
Replace Transmission Input Shaft Rear Seal—PST



LEGEND:

A	Seal Remover Tool
B	Seal Remover Tool Forcing Screw

Transmission Input Shaft Rear Seal



Transmission Input Shaft Rear Seal

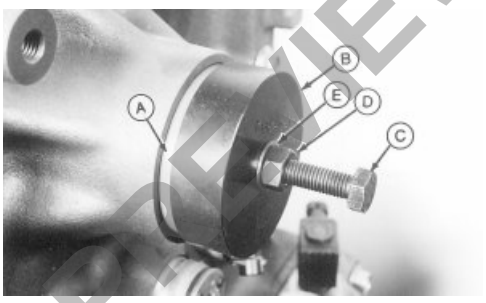
[1] - Remove Seal:

- Remove auxiliary drive pulley. (See Replace Auxiliary Drive Pulley—PST in this group.)
- Use JDG929 Seal Remover and Installer .
- Position remover tool (A) at end of shaft.

→NOTE: Turn tool into seal far enough to solidly contact ID of metal face.

- Turn tool into seal.
- Install forcing screw (B) into remover tool.
- Turn forcing screw in against shaft, pulling seal from transmission seal bore.

[2] -



LEGEND:

A	Oil Seal
B	JDG929 Installer Tool
C	Forcing Screw
D	Nut
E	Washer

Transmission Input Shaft Rear Seal

Install Seal:

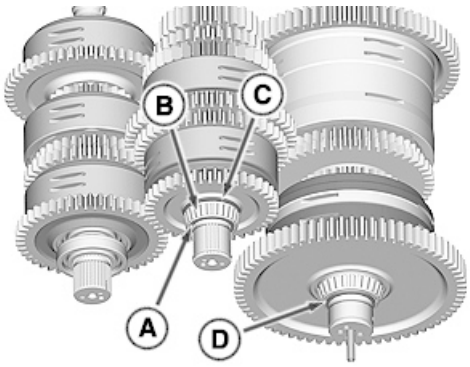
- Apply PM38654 Thread Lock and Sealer to OD of seal.

Number	Name	Use
◦ PM38654 (us) ◦ PM38624 (canadian) ◦ 271 Loctite™ (loctite)	Thread Lock and Sealer (High Strength)	Used to retain cap screws and seal surfaces.

- Coat seal lips with oil.
- Position seal (A) on shaft.
- Position installer tool (B) at end of shaft and install forcing screw (C) with nut (D) and washer (E) through tool and into

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LEGEND:

A	O-ring
B	Bearing
C	Countershaft Thrust Washer
D	Output Shaft Bearing Snap Ring

Gear Shafts and Bearings

Install output shaft thrust washer and bearing.

[6] - Install output shaft bearing snap ring (D).

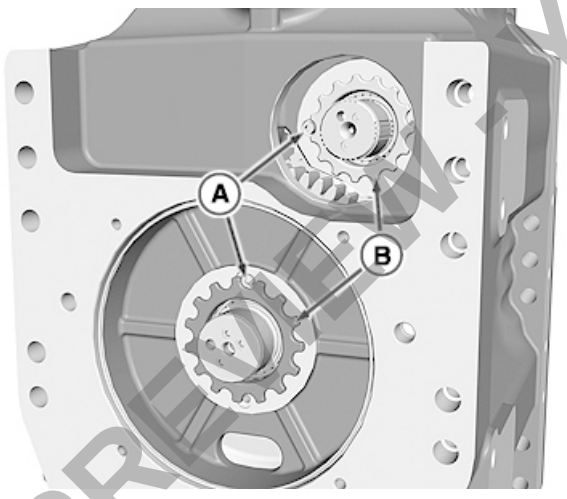
[7] - Install countershaft thrust washer (C).

[8] - Install bearing (B) and O-ring (A).

[9] -

→NOTE:

Refer to Transmission Assembly—Cross-Sectional View during transmission assembly.



LEGEND:

A	Locking Screws (2 used)
B	Adjusting Nuts (2 used)

MFWD without Independent Link Suspension

Remove locking screws (A).

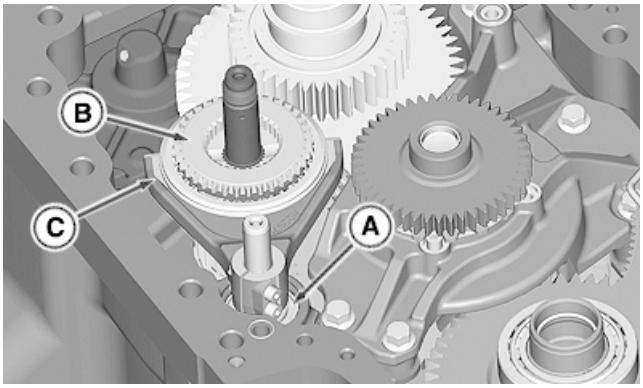
[10] - Adjust countershaft and output shaft adjusting nuts (B), to ensure shaft end play.

[11] -

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[45] -



LEGEND:

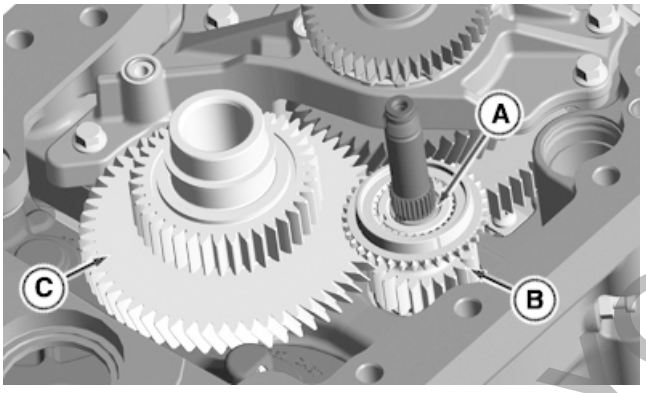
A	Retaining Ring
B	Synchronizer
C	Shift Fork

Synchronizer

Remove retaining ring (A).

[46] - Remove shift assembly with fork (C) and synchronizer (B).

[47] -



LEGEND:

A	Retaining Ring
B	Gear
C	Gear Assembly

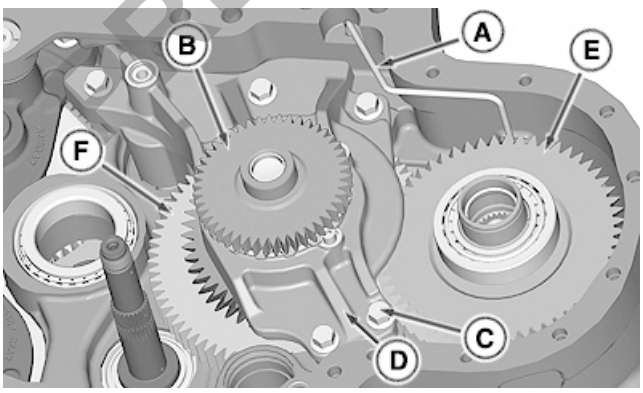
Gears

Remove retaining ring (A).

[48] - Remove gear with synchronizer cone (B) and gear assembly (C).

[49] - CU idler gear will be removed from other side of housing.

[50] -



LEGEND:

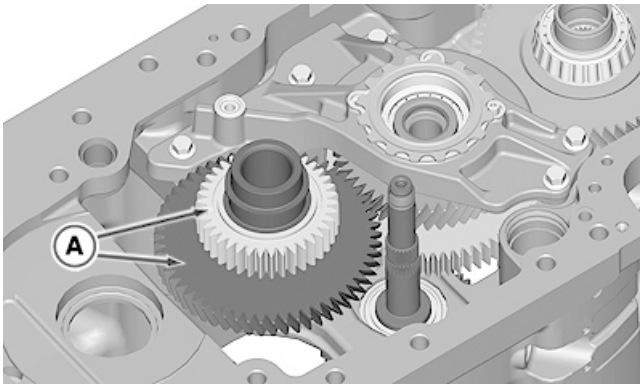
A	Oil Tube
B	2nd Sun Drive Gear
C	Cap Screws (5 used)
D	Bearing Frame
E	Gear
F	Gear Assembly

Gear Train

Remove:

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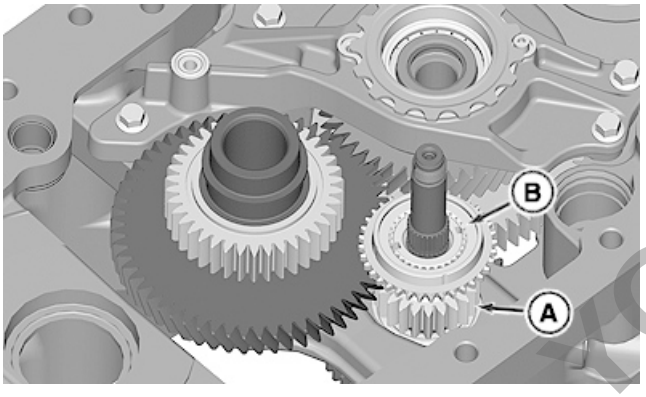
Gear Assembly

Install gear assembly (A).

[14] - Proceed to Install Synchronizer in this group.

Install Synchronizer

[1] -

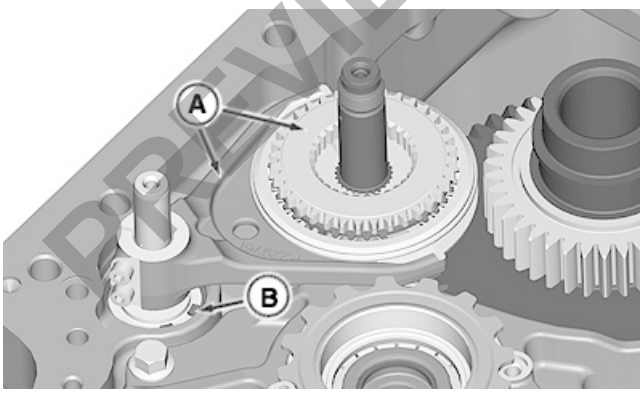


LEGEND:
A CU Idler Gear
B Retaining Ring

Installing Gear Assemblies

Install CU gear assembly (A) and retaining ring (B).

[2] -



LEGEND:
A Synchronizer Assembly and Shift Assembly
B Retaining Ring

Synchronizer and Fork

Install synchronizer with and shift assemblies (A).

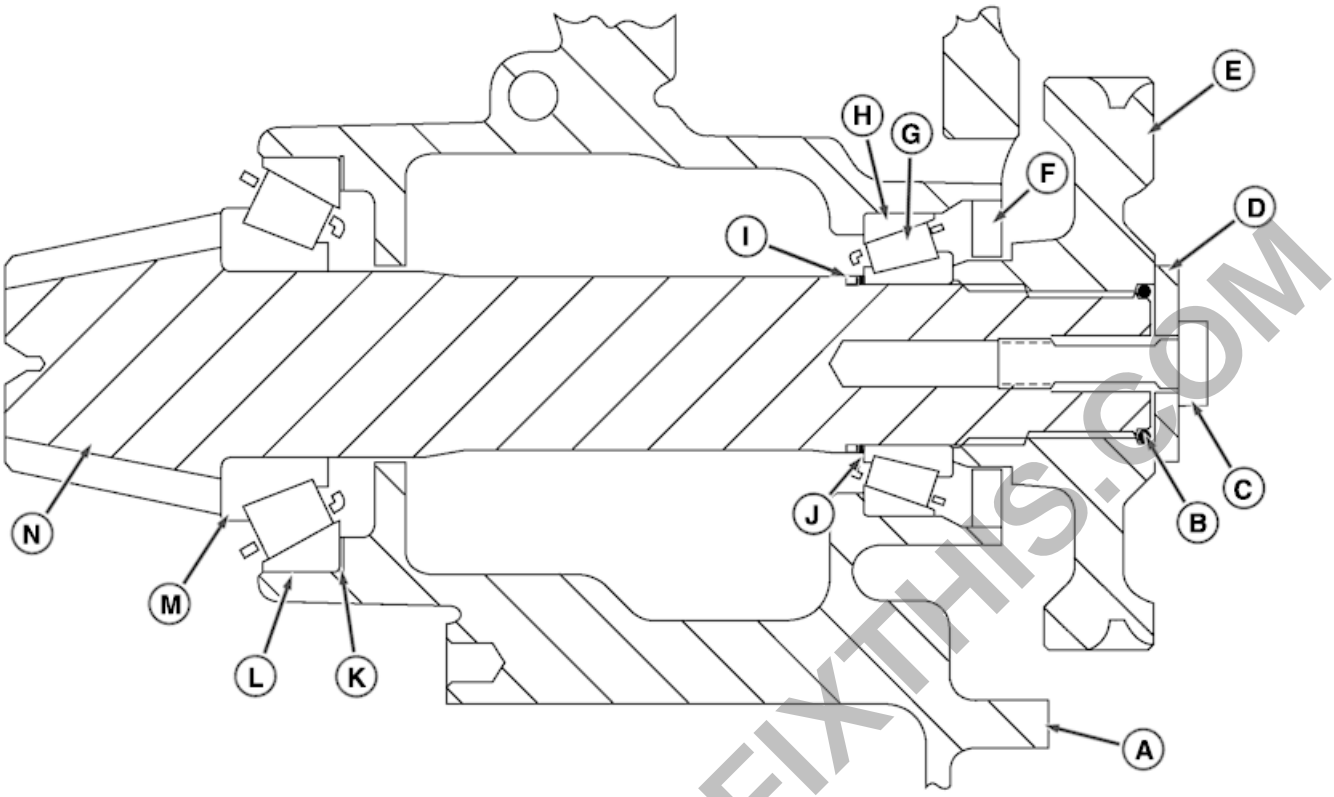
[3] - Install retaining ring (B).

[4] - Proceed to Install Front Cover in this group.

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Cross-Sectional View—Spiral Bevel Pinion Shaft



Spiral Bevel Pinion Cross Section

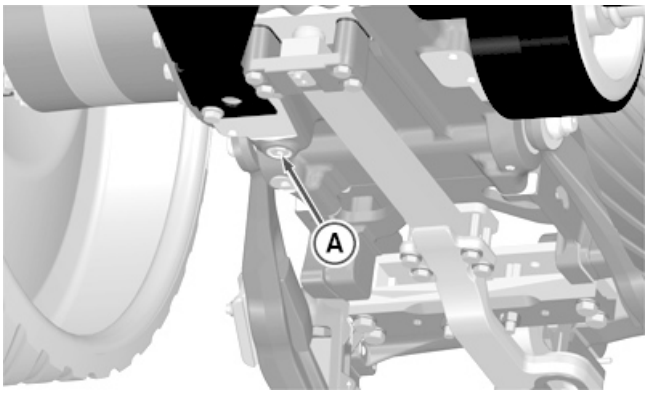
LEGEND:

A	Pump Drive Housing
B	O-Ring
C	Cap Screw
D	Washer
E	Drive Gear
F	Oil Seal
G	Front Bearing Cone
H	Front Bearing Cup
I	Spacer
J	Shim Pack
K	Cone Point Shim Pack
L	Rear Bearing Cup
M	Rear Bearing Cone
N	Spiral Bevel Pinion Shaft

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Remove and Install PTO Output Housing Assembly



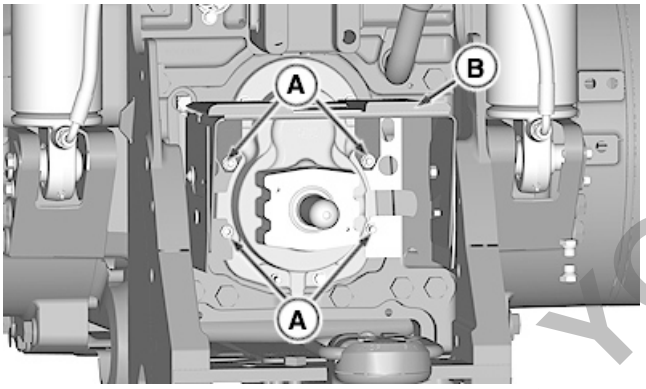
LEGEND:
A Differential Case Drain Plug

Differential Case Drain Plug

[1] - Disconnect battery ground cable.

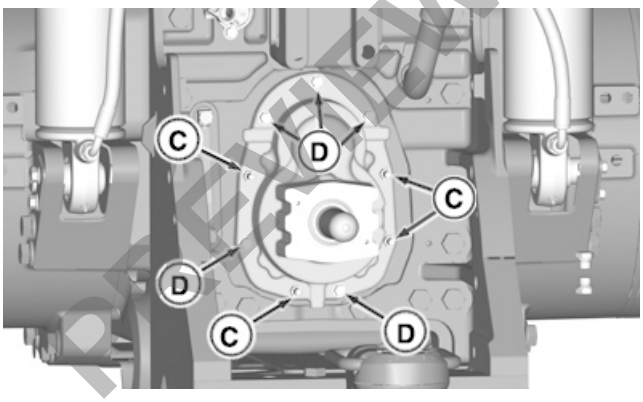
[2] - Remove differential case drain plug (A).

[3] -



LEGEND:
A Nuts (4 used)
B PTO Shield
C Studded Cap Screws (4 used)
D Cap Screws (5 used)

PTO Shield



PTO Output Housing

Remove nuts (A) and PTO shield (B).

[4] - Remove studded cap screws (C) and cap screws (D).

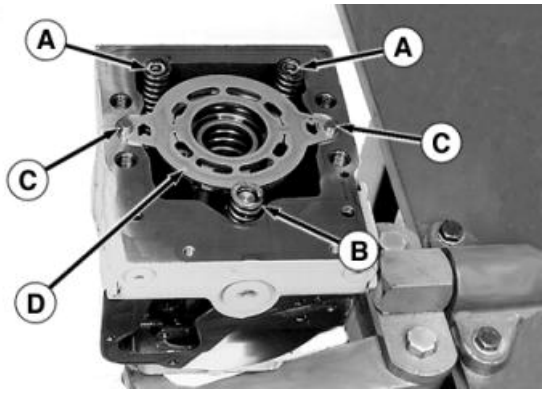
[5] - Remove output housing assembly.

[6] - Clean housing flange and adjoining surface and apply PM38657 High Flex Form-In-Place Gasket to ONE surface only.

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[32] -



LEGEND:

A	Leveler Springs
B	Yoke Hold-Down Spring
C	Alignment Pins
D	Valve Plate

Springs, Valve Plate, and Alignment Pins

Remove and inspect springs (A) and (B) and shims.

Item	Measurement	Specification
Yoke Leveling Outer Springs	Free Length	88 mm (3.5 in.)
	Test Length	83.3 mm at 160 N (3.30 in. at 36 lb.-force)
Yoke Leveling Inner Springs	Free Length	81 mm (3.2 in.)
	Test Length	76.2 mm at 78 N (3.00 in. at 17.5 lb.-force)
Yoke Hold-Down Spring	Free Length	22 mm (0.85 in.)
	Test Length	19.8 mm at 613 N (0.78 in. at 138 lb.-force)

[33] -

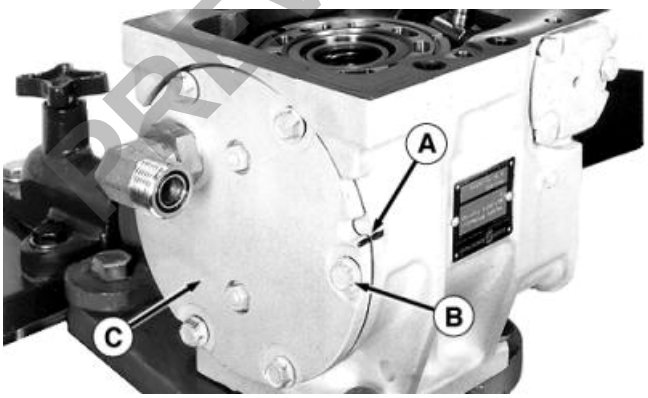
IMPORTANT:

Note direction of arrows stamped on valve plate.

Remove valve plate (D).

[34] - Remove alignment pins (C).

[35] -



LEGEND:

A	Identification MARKS
B	Special Screws (6 used)
C	Side Cover

Identification MARKS and Special Screws

Put identification marks (A) on side cover and pump housing.

[36] - Remove and discard special screws (B) and remove side cover (C).

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Pump Off Port

Using JDG1666-3 power lead from JDG1666 Park Brake Release Hand Pump Kit , locate and energize both park brake and park sump solenoids (A) at rear of transmission.

[4] - Remove plug from pump off port (B) and install a diagnostic receptacle.

[5] - Connect hand pump hose to diagnostic receptacle and connect other end of hose with gauge to hand pump

[6] -

IMPORTANT:

Avoid debris that can cause valve leakage and unexpected park brake engagement. Use filters included in kit when adding oil to pump.

Check hand pump reservoir oil level and add oil if necessary, using a squirt type oil can.

[7] - Close hand pump shutoff valve and open the reservoir bleed screw 1/4 turn from point of O-ring contact.

[8] - Operate hand pump handle and observe pressure gauge:

[9] -

IMPORTANT:

Avoid possible damage to transmission. Do Not exceed 1725 kPa (17.25 bar) (250 psi) to release park brake.

Operate hand pump to get 1170 kPa (11.7 bar) (170 psi). Maintain this pressure to prevent park brake from dragging.

[10] -

→NOTE:

When towing tractor, locate hand pump on floor in front of operator′s seat. Secure hose and power lead to prevent contact with rotating tracks.

Slowly pull tractor approximately 7 m (21 ft.) and stop tow vehicle.

[11] -

IMPORTANT:

If tractor movement must be stopped immediately, open hand pump shutoff valve.

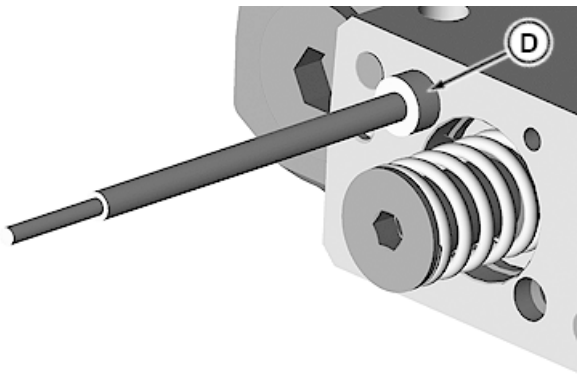
→NOTE:

Tractor in tow should roll freely to a stop. If tractor stops quickly, park brake may be dragging. If park brake is dragging, check release procedure and brake port to ensure that hand pump pressure is greater than 1240 kPa (12.4 bar) (179 psi).

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Shuttle Valve



JDG10667

Clean and lubricate shuttle valve short land (A).

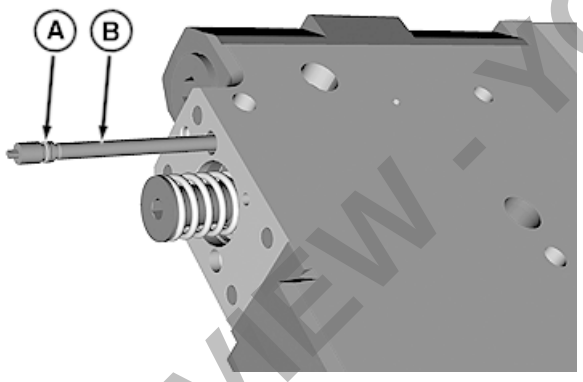
[6] -

→NOTE:

JDG10667 Shuttle Valve Removal Tool (C) will need to reach completely to stop (D) to install shuttle valve. Replace valve section if valve tool does not reach stop.

Use opposite end of JDG10667 Shuttle Valve Removal Tool (C) to install shuttle valve.

[7] -



LEGEND:

A	Plug
B	Seal

Plug and O-ring

Install new seal (B) on plug (A).

[8] - Install plug (A).

[9] -

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Determine Correct Refrigerant Oil Charge

→NOTE:

Determine amount of system oil charge prior to installation of compressor.

Compressors are divided into three categories when determining correct oil charge.

- New compressor
- Used compressor, not flushed
- Used compressor, flushed

[1] -

CAUTION:

Use extreme caution when handling refrigerant oil. Wear protective gloves and goggles at all times. Wash immediately with soap and water if oil comes in contact with skin.

DO NOT spill R134a compressor oil on acrylic or ABS plastic. Oil will deteriorate these materials rapidly.

Add correct amount of oil if **complete system was flushed** :

- New Compressor—contains correct amount of new oil, 245 mL (8.3 fl oz)
- Used Compressor—Drained, NOT Flushed—Add 230 mL (7.7 fl oz) of new oilDrained, Flushed—Add 245 mL (8.3 fl oz) of new oil

Item	Measurement	Specification
System	Oil Charge	245 mL (8.3 fl oz)

[2] - Add correct amount of oil for the compressor **and** each component if complete system was NOT flushed:

- New compressor contains 245 mL (8.3 fl oz) of new oil. Connect battery to clutch coil and rotate drive shaft to remove all oil. Return 45 mL (1.5 fl oz) of oil to compressor.
- Used Compressor
  - Drained, NOT Flushed—Add 45 mL (1.5 fl oz) of new oil
  - Drained, Flushed—Add 60 mL (2 fl oz) of new oil

Remove compressor to determine correct oil charge if any components listed below have been removed, drained, and flushed.

IMPORTANT:

Use care adding oil. Too much oil in the system will reduce maximum cooling capacity. Too little oil will result in poor lubrication of the compressor, leading to early compressor failure.

→NOTE:

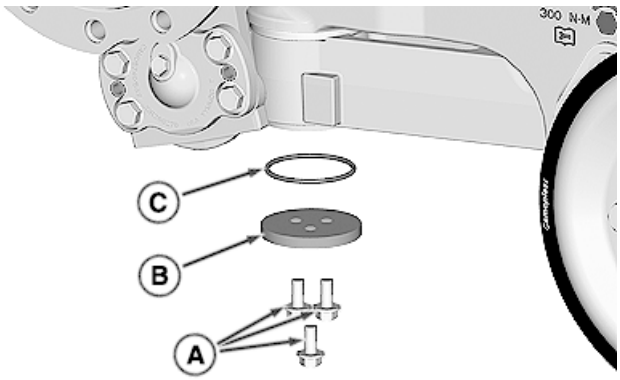
If complete system was purged with all components in place, amount of oil lost is negligible.

Use following chart as a guide for adding oil:

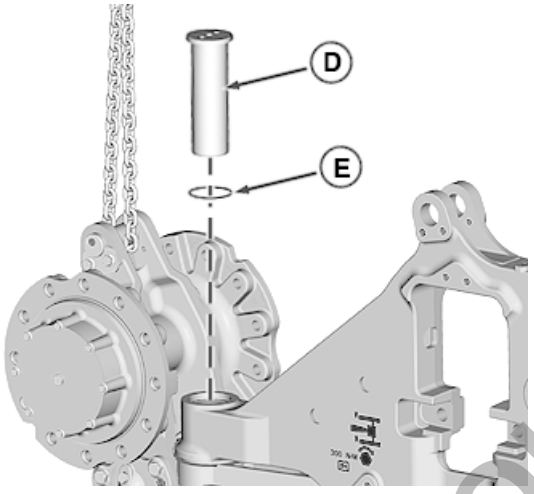
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→NOTE:



Cap Screws, Retaining Plate and O-Ring



Pivot Pin and O-Ring

LEGEND:

A	Cap Screws (3 used)
B	Retaining Plate
C	O-Ring
D	Pivot Pin
E	O-Ring

Illustrated with track frame removed. Track frame removal is not needed for procedure.

Remove cap screws (A), retaining plate (B), and O-ring (C).

[14] - Remove alignment lever pivot pin (D) and O-ring (E).

[15] - Position a hydraulic service jack under alignment lever for support.

[16] - Roll tension link and alignment lever assembly away from tractor and lower to ground.

[17] -

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L—Alternate—Part Number—W9A123R3F01N. Obtain from: John S. Barnes Corp., 222 15th. Street, Rockford, IL 61104 (Call 1-800-398-9400)

→NOTE:

For the Barnes pump, omit adapters (J), (K), and (M) and replace with:

- **1 in. long 1-5/16-12(M) O-Ring x 1-5/16-12(M) JIC Adapter—Parker 16FF50X or Aeroquip 202713-16-16S**
- **(1) 1-1/16-12(M) O-Ring x 1/2(F) NPT Bushing—Parker 12-1/2F50G or Weatherhead C3269 x 12 x 8**

M—Adapter M18 x 1.5(M) O-Ring x 1/2(F) NPT. Obtain from: Parker M18 x 1.5-1/2 F80 HG-S

N—Hex Nipple 1/2 in. NPT x 3 in. (One end inverted 30° flare). Obtain from: Parker 1/2 x 3.0 FFF

O—90° Elbow 1/2 in. (M) NPT x 1/2(F) Sw. NPT. Obtain from: Parker 2107-8-8 or Weatherhead 9405 x 8 x 8

P—Adapter (2 used) M22 x 2 (M) O-ring x 1/2(F) NPT. Obtain from: Parker M22 x 1.5-1/2 F80HG-S

Q—RE68996 Filter Housing and RE69054 Filter 10 Micron Filter—Flow Rating 15-20 gpm

R—Adapter [1/2 in. (M) NPT x 1-1/16-12(M) JIC] (For hoses with (F) JIC ends). Obtain from: Parker 12-8 FTX, Weatherhead C5205 x 12 x 8 or Aeroquip 2021-8-12S

R—Alternate — (for hoses with NPT (M) ends) 3/4(F) NPT Sw. x 1/2"(M) NPT. Obtain from: Parker 0107-8-12 or Weatherhead 9205 x 12 x 8

S—FM200 Foot Mounting Bracket A2 bolt—SAE "A" aluminum. Obtain from: LHA Products 1801-B West Oak Parkway N.E., Marietta, GA 30062 (Call 1-404-410-3950)

T—JT05679 Hose (2 used) 12-foot with 1-1/16-12 (F) JIC ends

T—Alternate — (For Hoses with 3/4 (M) NPT Ends). Obtain from SERVICEGARD or locally

—Base —1-1/2 in. x 9 in. x 22 in. board with 1-1/2 in. x 3-1/2 in. boarder on underside

—Hardware —Determine bolts, screw, and flat washer sizes

Assemble the above material on the base with correct hardware. Use large flat washers on bottom side of base.

Weld connector (J) and (K).

Align the drive coupler to within 1° from straight. Maximum misalignment of pump to motor shaft centers is 0.38 mm (0.015 in.).

Fabricate a mounting bracket from 3/16 in. x 3 in. flat iron for the filter housing which can also be a shield for covering the drive coupling.

Fabricate a brace to support the suction side of the strainer.

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