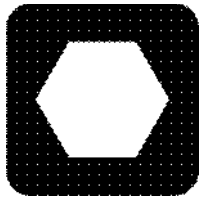


# RT75H

## Parts Manual



# ***Ditch Witch***<sup>®</sup>

## **RT75**

### **Hydrostatic**

ISSUE NO. 06PL-06/11

For Replacement Copy Order **P/N 053-121**

This manual contains information concerning the following models:  
**RT75H Tractor**

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**Ditch Witch**, Ditch Witch, CMW, AutoCrowd, Modularmatic, Jet Trac, Roto Witch, Subsite, Fluid Miser, Perma-Soil, Power Pipe, Super Witch, Super Witch II, Pierce Arrow, The Underground, and The Underground Authority Worldwide are registered trademarks of The Charles Machine Works, Inc.

ID0134942



# FOREWORD

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This manual contains illustrated parts lists to help you select quality ProTech<sup>®</sup> Replacement parts for your Ditch Witch<sup>®</sup> equipment. Using other replacement parts will lessen the productivity of your equipment.

- ◆ Part numbers enclosed in a box are no longer available from The Charles Machine Works, Inc. Your local Ditch Witch dealer may be able to locate the part for you.
- ◆ Footnotes provide more information to help you identify parts shown in the manual.
- ◆ Assembly instructions and Tech Bits articles referenced in footnotes are available through your local Ditch Witch dealer.
- ◆ Description and specifications in this book were current at publication. However, The Charles Machine Works, Inc. reserves the right to improve equipment, so this manual might not reflect the most current improvements.
- ◆ Instructions on recommended equipment use and maintenance are in the Operator's Manual that was shipped with your equipment.

## **Keep the following in mind when ordering ProTech replacement parts:**

- ◆ Specify parts you need by part number and description, not by illustration reference numbers.
- ◆ Have equipment model and serial number on hand to help ensure you get the right parts for your machine whether it's old or new.

**Thank you for buying and using Ditch Witch equipment and ProTech replacement parts.**



# WARRANTY

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DW WARRANTY Policy  
July, 2005

## **POLICY 1: DITCH WITCH® EQUIPMENT AND REPLACEMENT PARTS LIMITED WARRANTY POLICY**

Subject to the limitation and exclusions herein, free replacement parts will be provided at any authorized Ditch Witch dealership for any Ditch Witch equipment or parts manufactured by The Charles Machine Works, Inc. (CMW) that fail due to a defect in material or workmanship within one (1) year of first commercial use (Exception: 2 years for all SK500 Attachments). Free labor will be provided at any authorized Ditch Witch dealership for installation of parts under this warranty during the first year following "initial commercial" use of the serial numbered Ditch Witch equipment on which it is installed. The customer is responsible for transporting their equipment to an authorized Ditch Witch dealership for all warranty work.

### **EXCLUSIONS FROM PRODUCT WARRANTY**

- All incidental or consequential damages.
- All defects, damages, or injuries caused by misuse, abuse, improper installation, alteration, neglect, or uses other than those for which products were intended.
- All defects, damages, or injuries caused by improper training, operation, or servicing of products in a manner inconsistent with manufacturer's recommendations.
- All engines and engine accessories (these are covered by original manufacturer's warranty).
- Tires, belts, and other parts which are subject to another manufacturer's warranty. (Such warranty will be available to purchaser.)
- ALL IMPLIED WARRANTIES NOT EXPRESSLY STATED HEREIN, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY.

IF THE PRODUCTS ARE PURCHASED FOR COMMERCIAL PURPOSES, AS DEFINED BY THE UNIFORM COMMERCIAL CODE, THEN THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF AND THERE ARE NO IMPLIED WARRANTIES OF ANY KIND WHICH EXTEND TO A COMMERCIAL BUYER. ALL OTHER PROVISIONS OF THIS LIMITED WARRANTY APPLY INCLUDING THE DUTIES IMPOSED.

Ditch Witch products have been tested to deliver acceptable performance in most conditions. This does not imply they will deliver acceptable performance in all conditions. Therefore, to assure suitability, products should be operated under anticipated working conditions prior to purchase.

Defects will be determined by an inspection within thirty (30) days of the date of failure of the product or part by CMW or its authorized dealer. CMW will provide the location of its inspection facilities or its nearest authorized dealer upon inquiry. CMW reserves the right to supply remanufactured replacement parts under this warranty as it deems appropriate.

Extended warranties are available upon request from your local Ditch Witch dealer or CMW.

Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. Further, some states do not allow exclusion of or limitation of how long an implied warranty lasts, so the above limitation may not apply. This limited warranty gives product owner specific legal rights and the product owner may also have other rights which vary from state to state.

For information regarding this limited warranty, contact CMW's Product Support Department, P.O. Box 66, Perry, OK 73077-0066, or contact your local Ditch Witch dealer.

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**\*See Technical Supplement For Further  
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**Continued**

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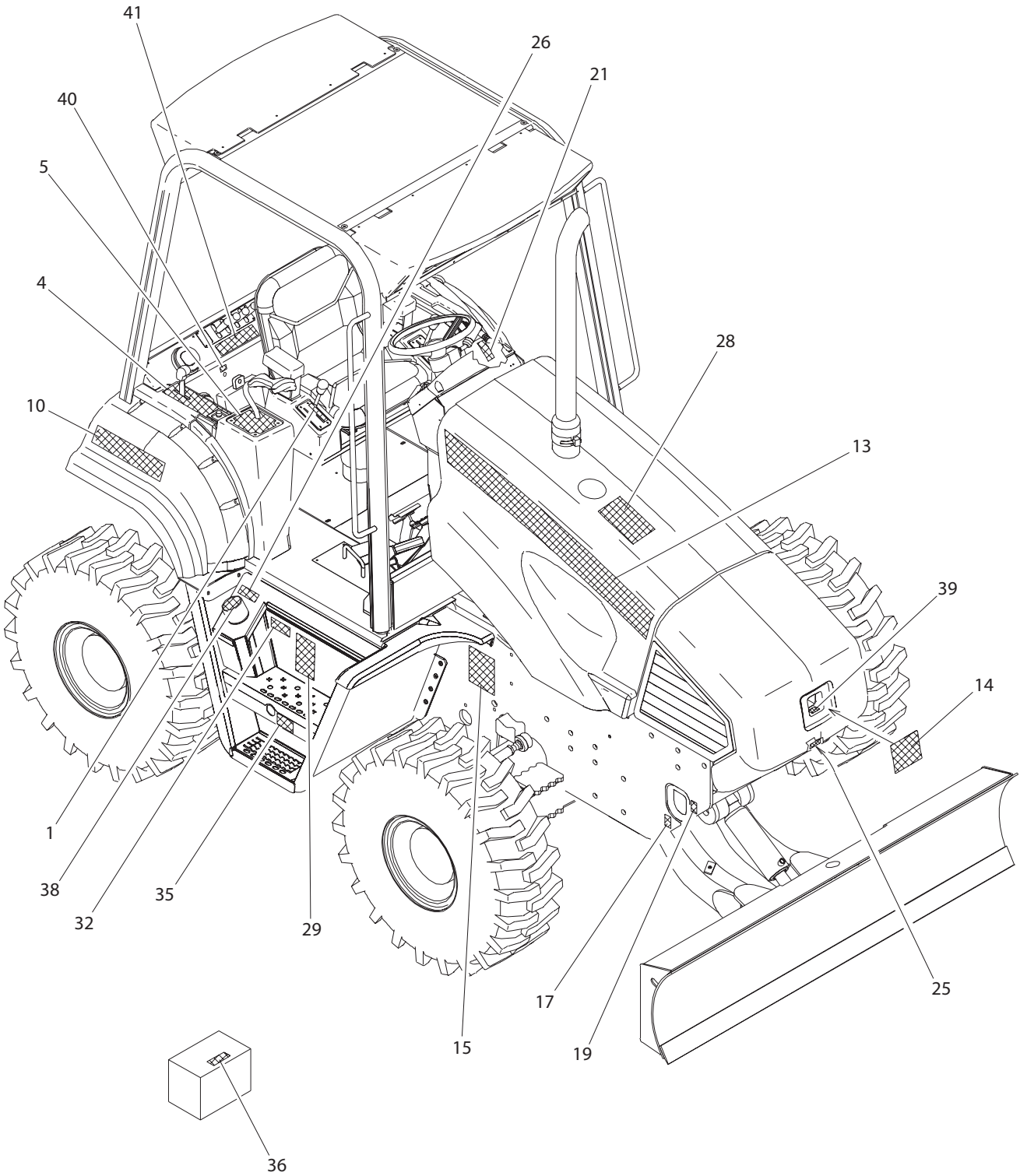
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## **Miscellaneous**

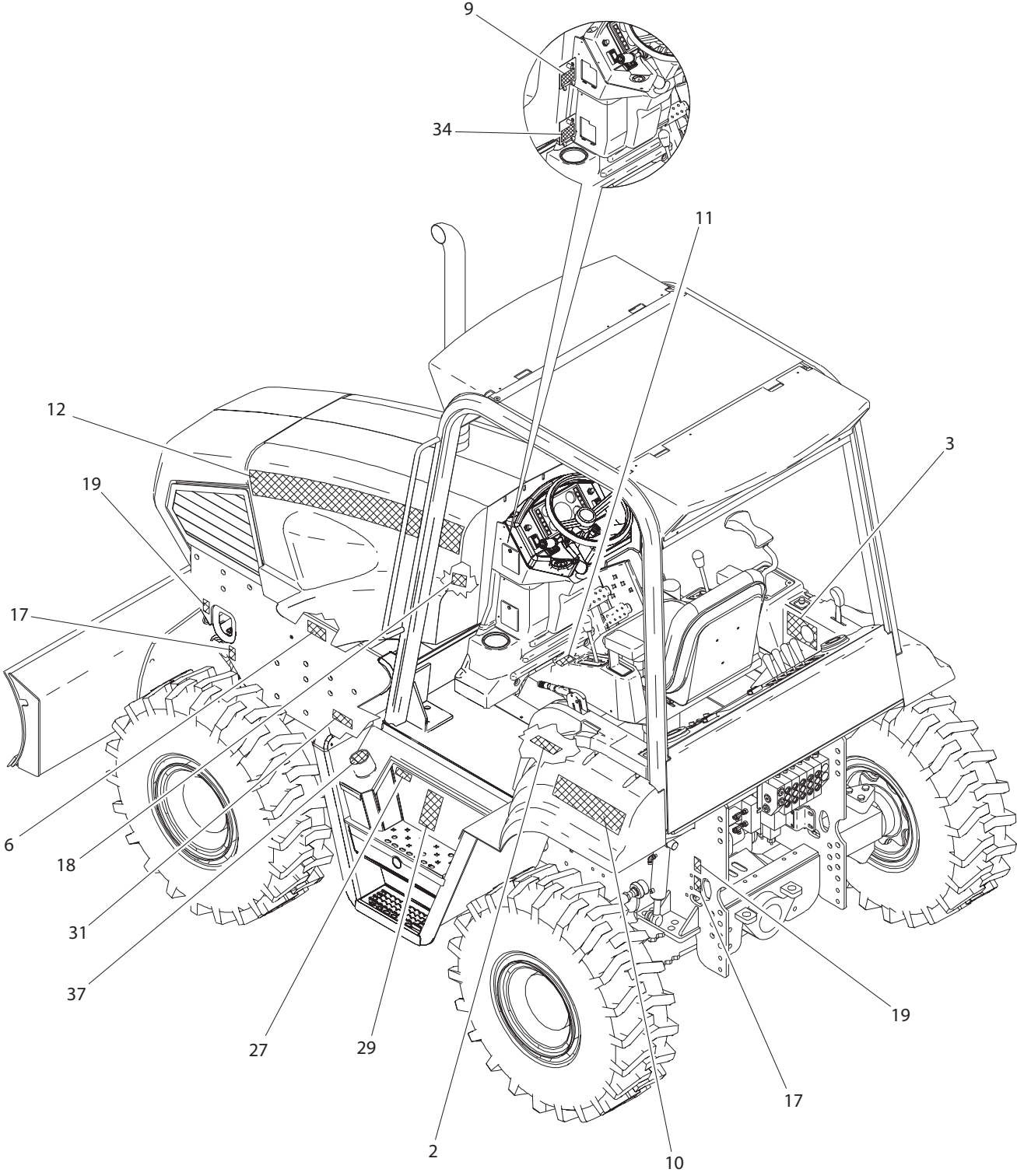
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# DECALS

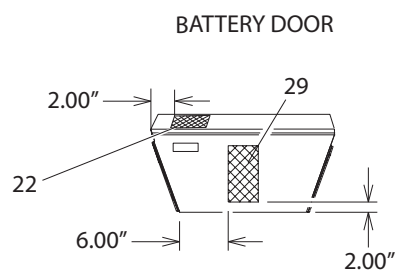
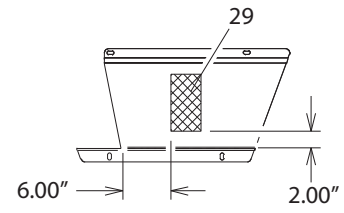
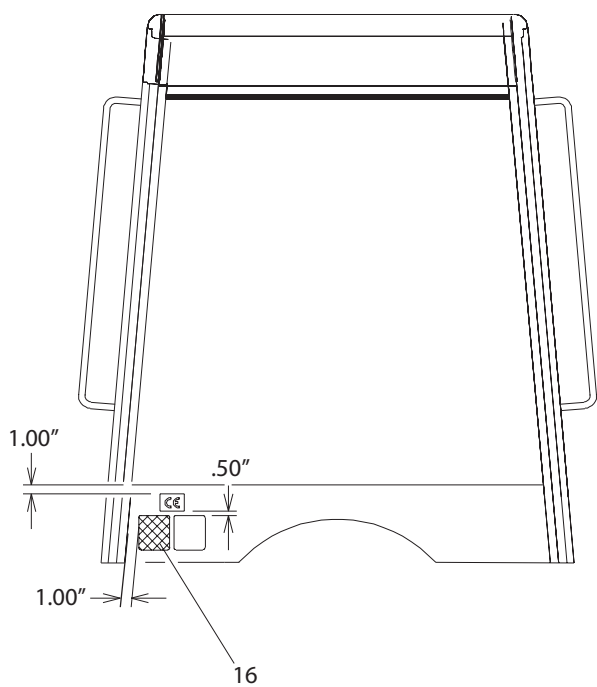
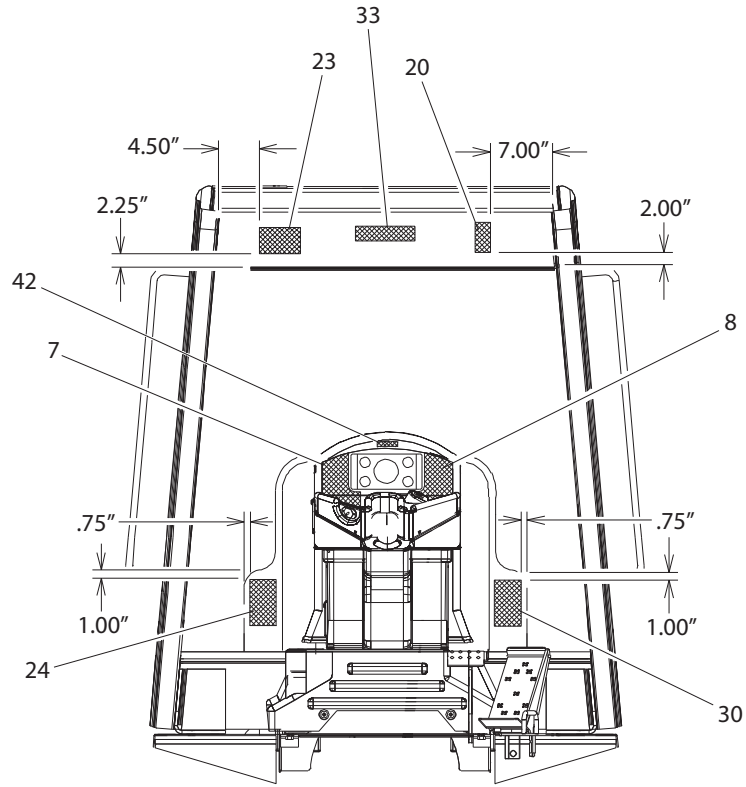
# DECAL LOCATION RT75



# DECAL LOCATION RT75



# DECAL LOCATION RT75



# DECAL LOCATION

## RT75

| REF NO. | PART NUMBER | QTY | DESCRIPTION                  | REMARKS                    |
|---------|-------------|-----|------------------------------|----------------------------|
|         | 275-918     |     | DECAL KIT - RT75H            |                            |
|         | 275-919     |     | DECAL KIT - RT75M            |                            |
| 1       | 273-092     | 1   | GROUND DRIVE CONTROL         |                            |
|         | 700-151     | 1   | GROUND DRIVE CONTROL         | SEE FOOTNOTE 3             |
| 2       | 273-263     | 1   | 1 AND 2 SHIFT                | RT75H                      |
|         | 273-213     | 1   | MOBILE-WORK                  | RT75M                      |
| 3       | 273-094     | 1   | AXLE LOCK/AUXILIARY          |                            |
| 4       | 273-095     | 1   | STEER/TILT/THROTTLE          |                            |
| 5       | 273-100     | 1   | BFB FUNCTIONS                |                            |
| 6       | 275-400     | 1   | NOTICE OIL LEVEL             |                            |
| 7       | 273-102     | 1   | REEL CARRIER/COLD START      | RT75H                      |
|         | 273-262     | 1   | REEL CARRIER/COLD START      | RT75M                      |
| 8       | 273-103     | 1   | HORN/ROTOWITCH/IGNITION      |                            |
| 9       | 273-104     | 1   | FUSE PANEL                   |                            |
| 10      | 270-1268    | 2   | DITCH WITCH LOGOTYPE         |                            |
|         | 273-108     | 2   | DITCH WITCH-ID               | OLD STYLE - SEE FOOTNOTE 1 |
| 11      | 273-109     | 1   | TEST PORTS                   | RT75H                      |
| 12      | 273-488     | 1   | RT75 MODEL ID STRIPE LEFT    |                            |
| 13      | 273-489     | 1   | RT75 MODEL ID STRIPE RIGHT   |                            |
| 14      | 273-246     | 1   | RIGID LOGO PLACARD           |                            |
| 15      | 273-455     | 1   | LUBRICATION CHART            |                            |
| 16      | 274-291     | 1   | SOUND POWER 10               | SEE FOOTNOTE 1             |
| 17      | 274-318     | 4   | TIE DOWN LOCATION            |                            |
| 18      | 274-375     | 1   | MASTER DISCONNECT SWITCH     |                            |
| 19      | 274-442     | 4   | LIFT LOCATION                |                            |
| 20      | 274-724     | 1   | ONE CALL NOTIFICATION        |                            |
| 21      | 275-361     | 1   | PARKING BRAKE                |                            |
| 22      | 275-033     | 1   | NOTICE ELECTRICAL SYSTEM     |                            |
| 23      | 275-048     | 1   | IMPORTANT SAFETY RULES       |                            |
| 24      | 275-070     | 1   | WARNING RUNAWAY              |                            |
| 25      | 700-064     | 1   | POWER BEYOND/RETURN/PRESSURE |                            |
| 26      | 275-120     | 1   | RESERVOIR (THF)              |                            |
| 27      | 275-148     | 1   | FUEL TANK (DIESEL)           |                            |
| 28      | 273-452     | 1   | NOTICE COOLANT               |                            |
| 29      | 275-185     | 2   | WARNING SINGLE OPERATOR      |                            |
| 30      | 275-303     | 1   | WARNING ROLLOVER             |                            |
| 31      | 275-497     | 1   | OIL DRAIN-ID                 |                            |
| 32      | 275-203     | 1   | BATTERY                      |                            |
| 33      | 273-197     | 1   | OVERHEAD CONSOLE             | SEE FOOTNOTE 2             |
| 34      | 273-239     | 1   | RELAY PANEL                  |                            |
| 35      | 274-198     | 1   | NOTICE OIL LEVEL             |                            |
| 36      | 273-267     | 1   | DITCH WITCH BATTERY          |                            |
| 37      | 700-062     | 1   | DIESEL FUEL CAP              |                            |
| 38      | 700-063     | 1   | HYDRAULIC OIL CAP            |                            |
| 39      | 273-292     | 1   | FRAME NOSE CASTING WEIGHT    |                            |
| 40      | 273-458     | 1   | EDT                          | SEE FOOTNOTE 1             |
| 41      | 273-449     | 1   | CRUISE CONTROL OVERLAY       | RT75H; SEE FOOTNOTE 3      |
| 42      | 273-496     | 1   | NOTICE ENGINE SPEED          | RT75M                      |

### FOOTNOTES

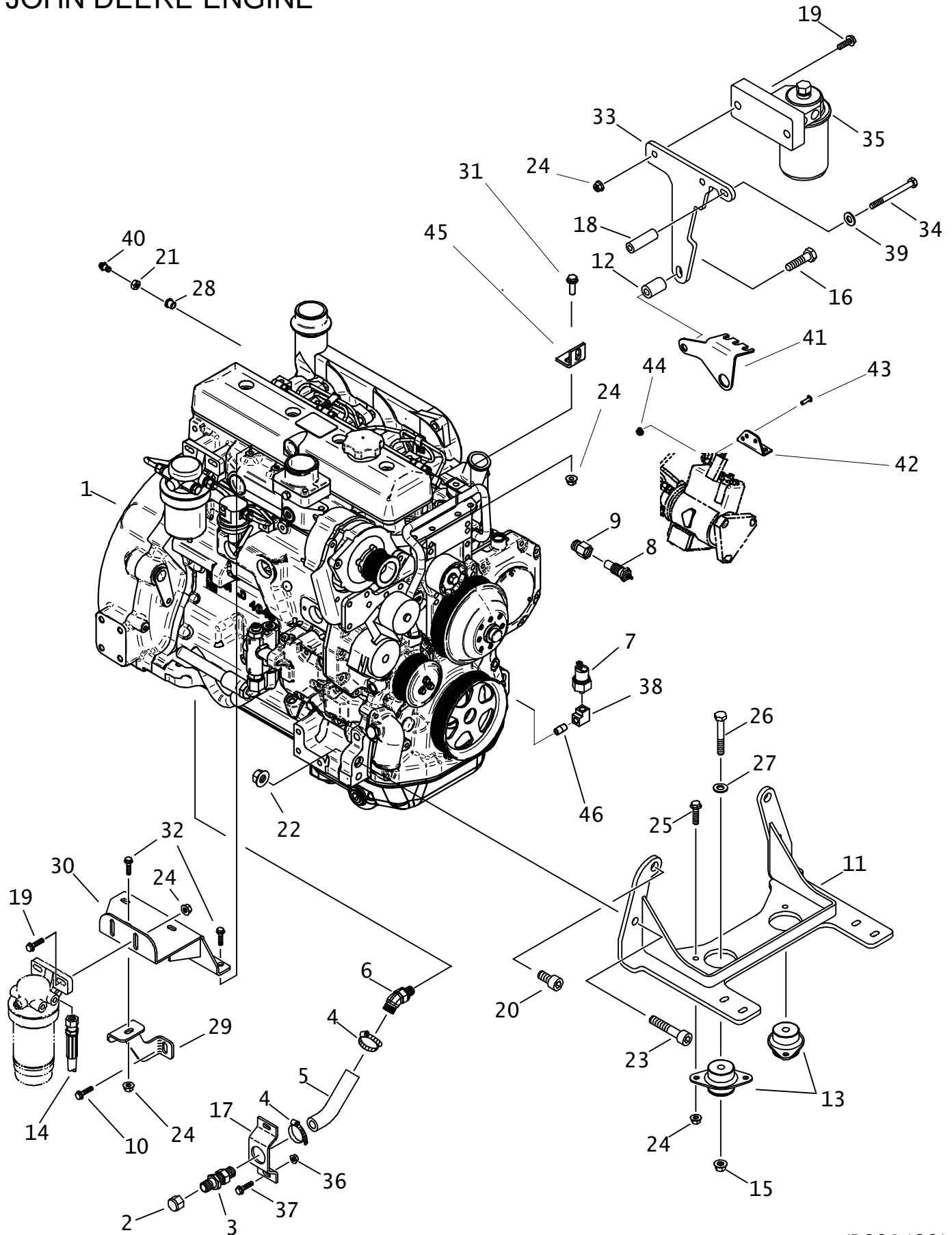
1. NOT PART OF KIT.
2. 273-197 NOT PART OF KIT. PROVIDED IN CANOPY AND LIGHT KIT 600-382
3. NOT PART OF KIT. PROVIDED IN CRUISE CONTROL KIT 604-979.





# **ENGINE COMPONENTS**

# JOHN DEERE ENGINE



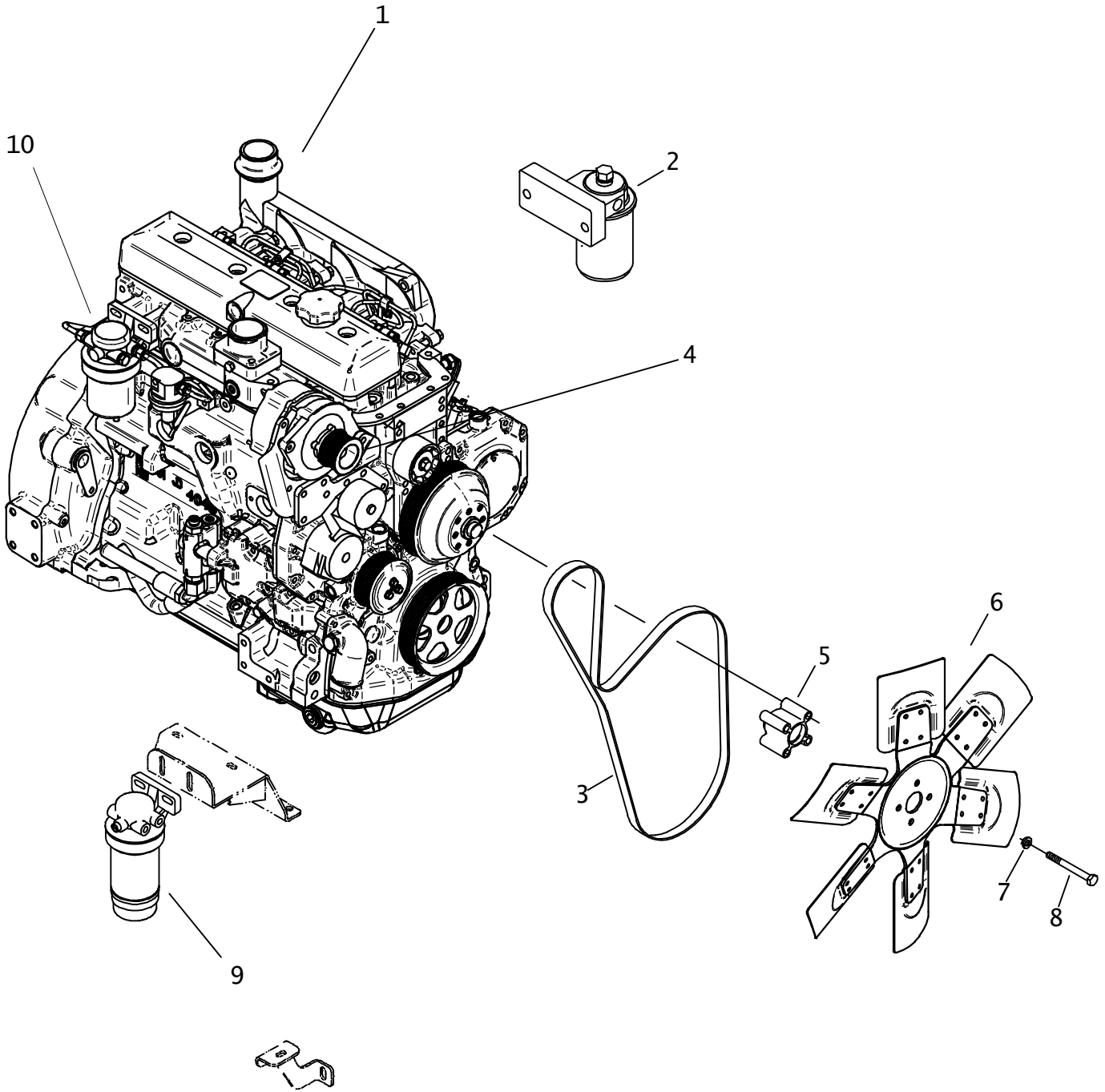
# JOHN DEERE ENGINE

| REF NO. | PART NUMBER | QTY | DESCRIPTION                       | REMARKS                             |
|---------|-------------|-----|-----------------------------------|-------------------------------------|
| 1.      | 194-512     | 1   | ENGINE - DEERE DIESEL             | OBSOLETE                            |
| 2.      | 154-324     | 1   | CAP (100F)                        |                                     |
| 3.      | 149-624     | 1   | BK S/O COUPLER (100-10H)          |                                     |
| 4.      | 110-353     | 2   | WORM CLAMP (3/4" TO 1-1/2")       |                                     |
| 5.      | 116-044     | AR  | BULK HOSE (5/8", SOLD PER 1")     | USE 1 @ 18"                         |
| 6.      | 153-160     | 1   | S/O COUPER (18M-10H45)            |                                     |
| 7.      | 215-1203    | 1   | SENDER, OIL PRESSURE (0-80PSI) SD |                                     |
| 8.      | 217-565     | 1   | TEMPERATURE SENDER 100 - 280 F    |                                     |
| 9.      | 217-247     | 1   | WATER TEMPERATURE ADAPTER         |                                     |
| 10.     | 107-009     | 1   | FLG LK SCREW (M12-1.75 X 25MM)    |                                     |
| 11.     | 337-369     | 1   | FRONT ENGINE BRACKET              |                                     |
| 12.     | 184-427     | 1   | BOSS                              |                                     |
| 13.     | 116-946     | 2   | ENGINE SHOCK MOUNT                | POSITION METAL FACE TO FRAME BOTTOM |
| 14.     | 159-625     | 1   | FUEL FILTER HOSE (060)            |                                     |
| 15.     | 106-709     | 2   | FLG LK NUT (M12-1.75)             |                                     |
| 16.     | 106-527     | 2   | SCREW (M14-2.00 X 50mm)           |                                     |
| 17.     | 310-599     | 1   | MOUNT                             |                                     |
| 18.     | 178-358     | 1   | SLEEVE                            |                                     |
| 19.     | 107-002     | 2   | FLG LK SCREW (M10-1.50 X 30mm)    |                                     |
| 20.     | 106-643     | 2   | SCREW (M16-2.00 X 25mm, SOC)      |                                     |
| 21.     | 156-277     | 1   | COMPRESSION NUT (05T)             |                                     |
| 22.     | 106-545     | 2   | LOCKNUT (M16-2.0, PRV TRQ, 10.9)  |                                     |
| 23.     | 107-723     | 2   | SCREW (M16-2.00 X 70mm, SOC)      |                                     |
| 24.     | 106-266     | 11  | FLG NUT (M10-1.50)                |                                     |
| 25.     | 107-001     | 4   | FLG LK SCREW (M10-1.50 X 25mm)    |                                     |
| 26.     | 106-336     | 2   | SCREW (M12-1.75 X 90mm)           |                                     |
| 27.     | 105-475     | 2   | WASHER (1/2")                     |                                     |
| 28.     | 156-276     | 1   | FERRULE (05T)                     |                                     |
| 29.     | 323-365     | 1   | FILTER MOUNT SUPPORT              |                                     |
| 30.     | 323-634     | 1   | FILTER MOUNT                      |                                     |
| 31.     | 106-383     | 2   | FLG LK SCREW (M10-1.50 X 30mm)    |                                     |
| 32.     | 106-382     | 4   | FLG LK SCREW (M10-1.5 X 20mm)     |                                     |
| 33.     | 315-534     | 1   | FILTER MOUNT                      |                                     |
| 34.     | 106-124     | 1   | SCREW (M10-1.50 X 110mm)          |                                     |
| 35.     | 194-478     | -   | ENGINE OIL FILTER                 |                                     |
| 36.     | 106-386     | 2   | FLG LOCKNUT (M8-1.25)             |                                     |
| 37.     | 106-989     | 2   | FLG LK SCREW (M8-1.25 X 35mm)     |                                     |
| 38.     | 156-228     | 1   | ELBOW (02NF-02NF90)               |                                     |
| 39.     | 106-396     | 1   | WASHER (M10, HARDENED)            |                                     |
| 40.     | 156-275     | 1   | TUBE CONNECTOR (04H-05T)          |                                     |
| 41.     | 307-068     | 1   | CABLE BRACKET                     |                                     |
| 42.     | 307-069     | 1   | LEVER BRACKET                     |                                     |
| 43.     | 106-640     | 2   | SCREW (M6-1.00 X 20MM, BUT SOC)   |                                     |
| 44.     | 106-385     | 2   | FLG LOCKNUT (M6-1.00)             |                                     |
| 45.     | 307-553     | 2   | MOUNT TAB                         |                                     |
| 46.     | 115-180     | 1   | ALL THREAD (1/8-NPT)              |                                     |

NOT SHOWN:

FOOTNOTES:

# JOHN DEERE ENGINE SERVICE



# JOHN DEERE ENGINE SERVICE

| REF NO. | PART NUMBER | QTY | DESCRIPTION               | REMARKS  |
|---------|-------------|-----|---------------------------|----------|
| 1.      | 194-512     | -   | ENGINE - DEERE DIESEL     | OBSOLETE |
| 2.      | 194-478     | 1   | ENGINE OIL FILTER         |          |
|         | 499-944     | -   | OIL FILTER SEAL RING      |          |
| 3.      | 170-371     | 1   | FAN BELT                  |          |
| 4.      | 217-450     | 1   | ALTERNATOR 65 AMP (REMAN) |          |
| 5.      | 194-118     | 1   | FAN SPACER                |          |
| 6.      | 194-560     | 1   | FAN                       |          |
| 7.      | 106-090     | 4   | LOCK WASHER (M10)         |          |
| 8.      | 105-996     | 4   | SCREW (M10-1.50 X 45MM)   |          |
| 9.      | 194-588     | 1   | PRIMARY FUEL FILTER       |          |
| 10.     | 159-255     | 1   | FUEL FILTER               |          |

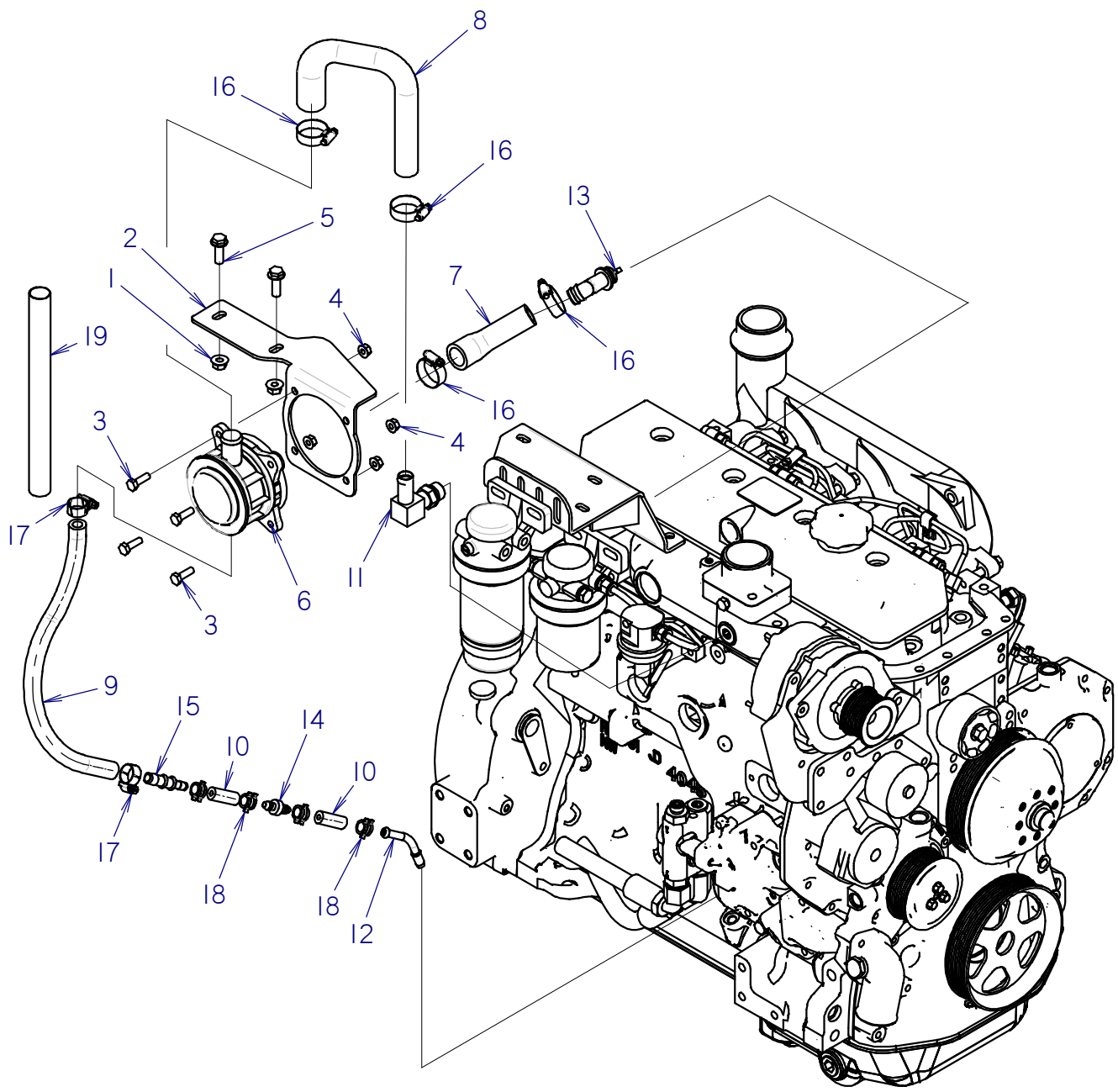
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|         |   |                                |
|---------|---|--------------------------------|
| 054-087 | 1 | JOHN DEERE TIER II OPER MANUAL |
| 194-254 | 1 | STARTER                        |
| 194-501 | 1 | THERMOSTAT                     |
| 165-883 | 1 | GASKET, THERMOSTAT             |
| 213-080 | 2 | WHEEL SPEED SENSOR             |
| 159-586 | - | SPEED SENSOR O-RING            |
| 213-085 | 1 | DIODE HARNESS                  |

## FOOTNOTES:

## NOTE:

# CCV VALVE



# CCV VALVE

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS             |
|---------|-------------|-----|--------------------------------|---------------------|
| 1       | 106-387     | 2   | FLG LOCKNUT (M10-1.50)         |                     |
| 2       | 324-620     | 1   | CCV MOUNT BRACKET              |                     |
| 3       | 105-806     | 4   | SCREW (M8-1.25 X 25MM)         |                     |
| 4       | 106-386     | 4   | FLG LOCKNUT (M8-1.25)          |                     |
| 5       | 106-383     | 2   | FLG LK SCREW (M10-1.50 X 30MM) |                     |
| 6       | 499-931     | 1   | CCV IMPACTOR VALVE             | SEE FOOTNOTE 1      |
| 7       | 118-280     | 1   | VENT HOSE                      |                     |
| 8       | 118-281     | 1   | MANIFOLD HOSE                  |                     |
| 9       | 116-286     | AR  | BULK HOSE (1/2", SOLD PER 1')  | USE 1 @ 13"         |
| 10      | 117-458     | AR  | BULK HOSE (3/8", SOLD PER FT)  | USE 1 @ 2" & 1 @ 3" |
| 11      | 159-528     | 1   | S/O COUPLER (10S-12H90, LG)    |                     |
| 12      | 499-932     | 1   | -06 CCV RETURN FITTING         | SEE FOOTNOTE 1      |
| 13      | 153-161     | 1   | ELBOW (-12H45, SPECIAL)        | SEE FOOTNOTE 1      |
| 14      | 499-934     | 1   | CCV CHECK VALVE                | SEE FOOTNOTE 1      |
| 15      | 499-935     | 1   | CCV 1/2-3/8 REDUCER FITTING    | SEE FOOTNOTE 1      |
| 16      | 110-353     | 4   | WORM CLAMP (3/4" TO 1-1/2")    |                     |
| 17      | 110-217     | 2   | WORM CLAMP (7/16" TO 1")       |                     |
| 18      | 499-939     | 4   | CLAMP                          | SEE FOOTNOTE 1      |
| 19      | 117-671     | 1   | ABRASION SLEEVE (1" X 12")     | ON MECHANICAL ONLY  |

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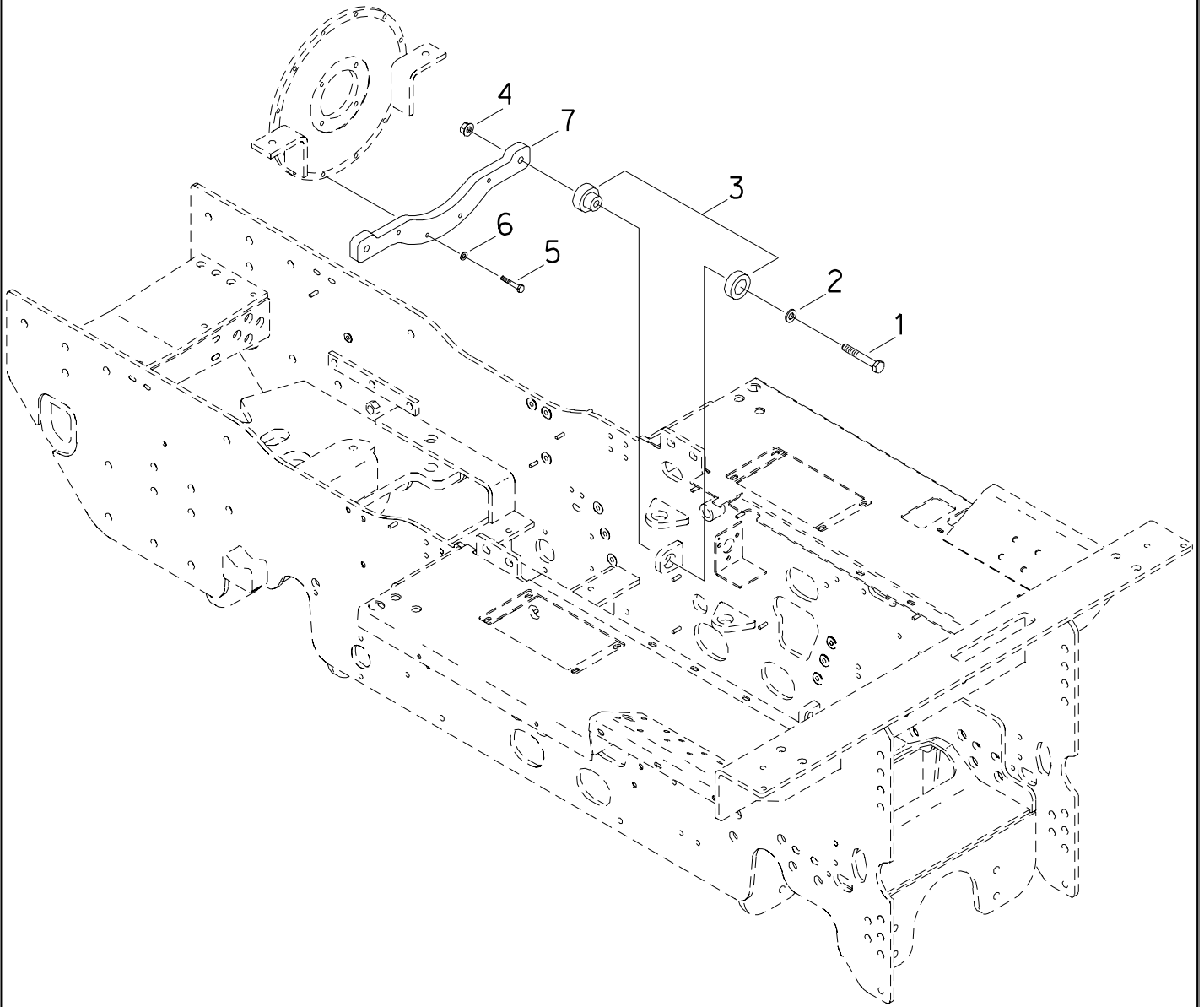
FOOTNOTES:

1. PART OF JOHN DEERE SUPPLIED CCV REMOTE MOUNT(OPTION CODE 2949)

NOTE:



# REAR ENGINE SUPPORT



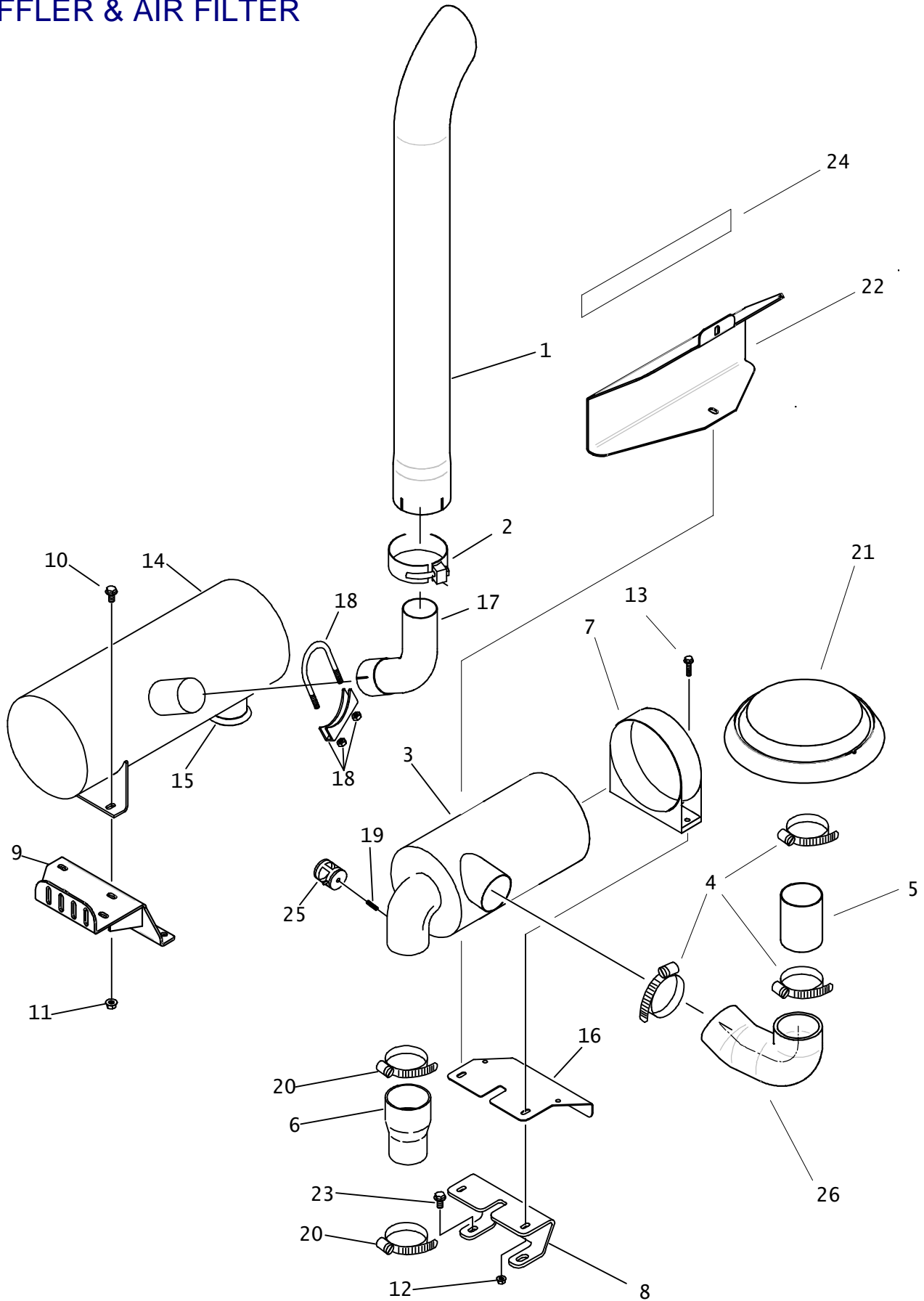
# REAR ENGINE SUPPORT

| REF NO. | PART NUMBER | QTY | DESCRIPTION             | REMARKS                     |
|---------|-------------|-----|-------------------------|-----------------------------|
|         | 191-132     |     | REAR ENGINE SUPPORT KIT | INCLUDES REF. NO'S 1 THRU 7 |
| 1.      | 105-386     | 2   | BOLT (5/8-NC X 4-1/2")  |                             |
| 2.      | 105-416     | 2   | WASHER (5/8")           |                             |
| 3.      | 116-151     | 2   | SHOCK MOUNT             |                             |
| 4.      | 105-994     | 2   | FLG LOCKNUT (5/8-NC)    |                             |
| 5.      | 105-839     | 4   | SCREW (M10-1.50 X 55mm) |                             |
| 6.      | 106-396     | 4   | WASHER (M10, HARDENED)  |                             |
| 7.      | 313-646     | 1   | BUMPER PLATE            |                             |

### FOOTNOTES

1. REQUIRED OPTION FOR SAW ATTACHMENTS

# MUFFLER & AIR FILTER



## MUFFLER & AIR FILTER

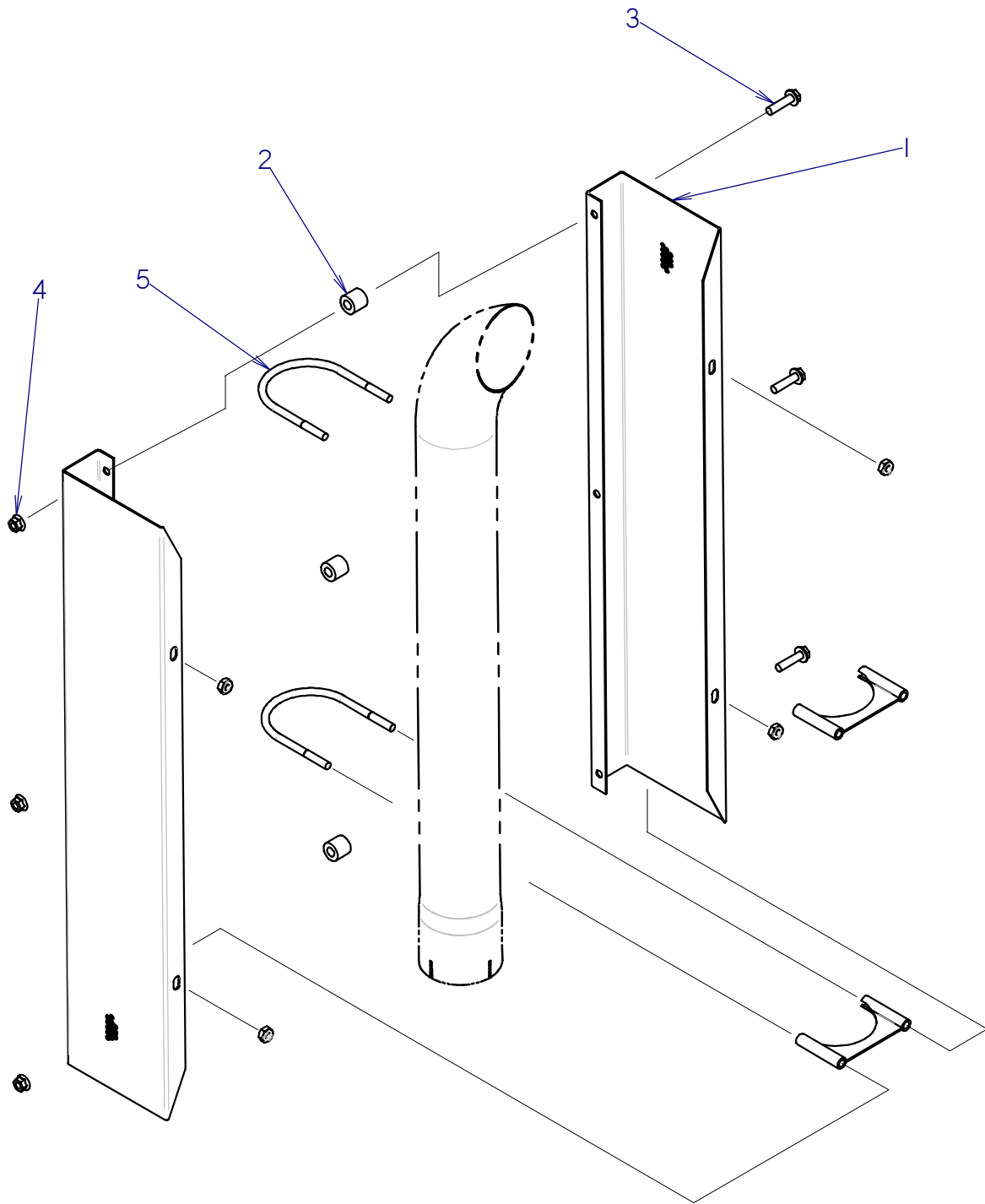
| REF PART NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS        |
|--------------|-------------|-----|----------------------------------|----------------|
| 1.           | 194-558     | 1   | EXHAUST STACK (4")               |                |
| 2.           | 194-027     | 1   | MUFFLER CLAMP (4.143")           |                |
| 3.           | 197-762     | 1   | AIR FILTER                       |                |
|              | 197-763     | 1   | PRIMARY ELEMENT                  |                |
|              | 197-764     | 1   | SAFETY ELEMENT                   |                |
| 4.           | 110-367     | 3   | WORM CLAMP (3.25" TO 4.125")     |                |
| 5.           | 195-734     | 1   | EXTENSION TUBE                   |                |
| 6.           | 116-951     | 1   | REDUCER (3.00" X 2.50")          |                |
| 7.           | 362-926     | 1   | MOUNTING CLAMP (7.170")          |                |
| 8.           | 303-749     | 1   | BRACKET                          |                |
| 9.           | 323-634     | -   | FILTER MOUNT                     |                |
| 10.          | 106-999     | 2   | FLG LK SCREW (M10-1.50 X 20mm)   |                |
| 11.          | 106-266     | 2   | FLG NUT (M10-1.50)               |                |
| 12.          | 106-386     | 2   | FLG LOCKNUT (M8-1.25)            |                |
| 13.          | 106-163     | 2   | FLG SCREW (M8-1.25 X 30mm)       |                |
| 14.          | 120-083     | 1   | MUFFLER                          |                |
| 15.          | 196-195     | 1   | LOWER CLAMP (HEADER PIPE)        |                |
| 16.          | 307-906     | 1   | HEAT SHIELD                      |                |
| 17.          | 194-225     | 1   | MUFFLER TUBE                     |                |
| 18.          | 196-341     | 1   | MUFFLER CLAMP (2-3/4")           |                |
| 19.          | 115-180     | 1   | ALL THREAD (1/8-NPT)             |                |
| 20.          | 110-169     | 2   | WORM CLAMP (2.812" TO 3.750")    |                |
| 21.          | 195-871     | 1   | STACK CAP (3.000")               |                |
| 22.          | 323-808     | 1   | HEAT SHIELD MOUNT                |                |
| 23.          | 105-799     | 2   | FLG LK SCREW (M10-1.50 X 25mm)   |                |
| 24.          | 118-187     | AR  | FOIL TAPE(HI-TEMP ALUM)2"WD(FT   | SEE FOOTNOTE 1 |
| 25.          | 194-788     | 1   | RESTRICTION INDICATOR (25", H2O) |                |
| 26.          | 118-200     | 1   | INTAKE HOSE                      |                |

### FOOTNOTES

APPLY TO BOTH VERTICAL AND SLOPED LARGE SURFACES. (USE 120")

NOTE:

# EXHAUST STACK GUARD



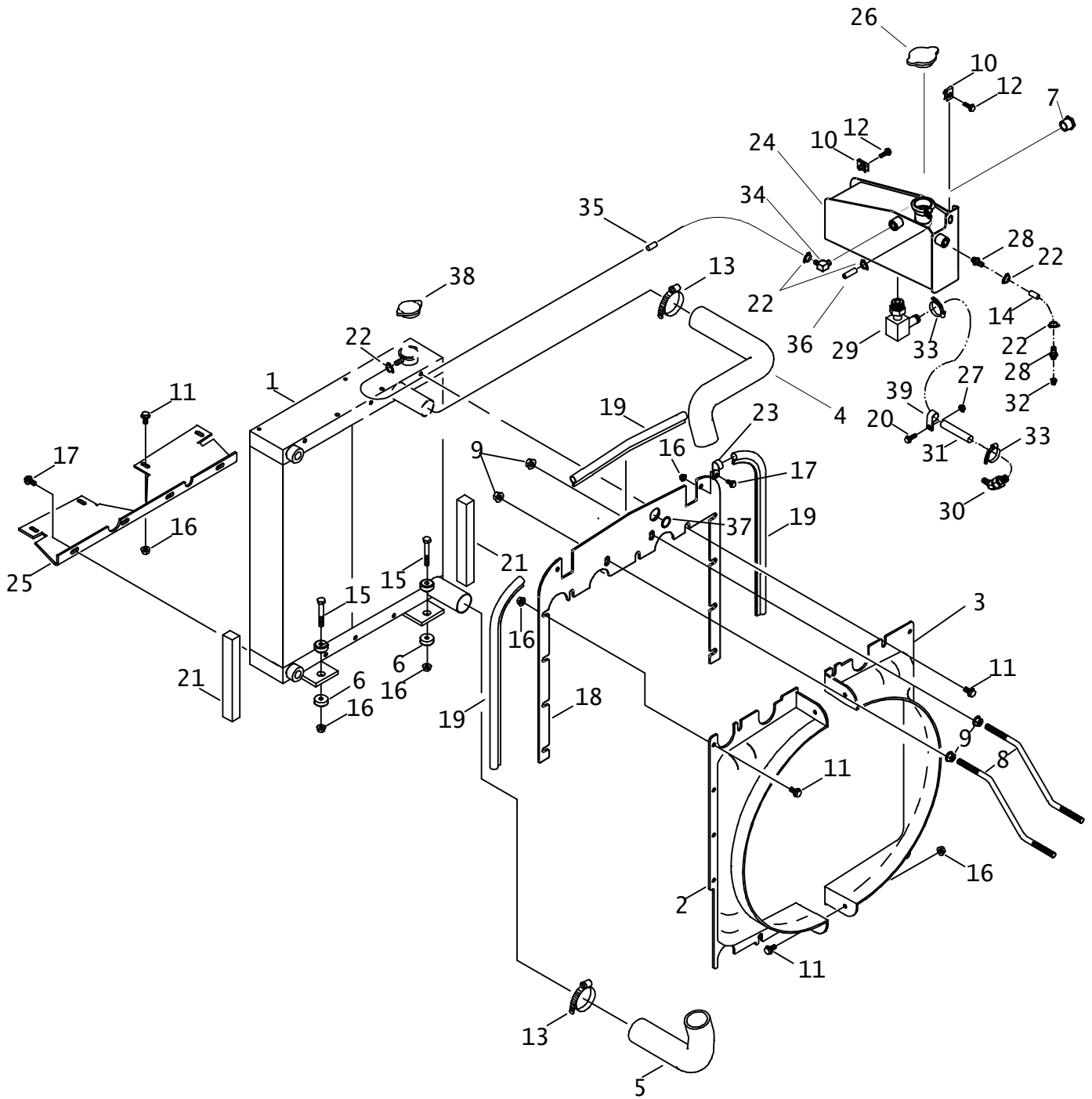
# EXHAUST STACK GUARD

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS |
|---------|-------------|-----|--------------------------------|---------|
|         | 191-365     | -   | RT75 MUFFLER GUARD KIT         |         |
| 1       | 320-424     | 2   | MUFFLER GUARD                  |         |
| 2       | 180-845     | 3   | SPACER                         |         |
| 3       | 106-994     | 3   | FLG LK SCREW (M10-1.50 X 40MM) |         |
| 4       | 106-387     | 3   | FLG LOCKNUT (M10-1.50)         |         |
| 5       | 196-214     | 2   | U-BOLT CLAMP (4")              |         |

FOOTNOTES

NOTE:

# RADIATOR / COOLER



## RADIATOR / COOLER

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                 |
|---------|-------------|-----|--------------------------------|-------------------------|
| 1.      | 306-459     | 1   | RADIATOR/OIL COOLER            |                         |
| 2.      | 194-115     | 1   | LEFT SIDE FAN SHROUD           |                         |
| 3.      | 194-114     | 1   | RIGHT SIDE FAN SHROUD          |                         |
| 4.      | 115-059     | 1   | UPPER COOLANT HOSE             |                         |
| 5.      | 115-058     | 1   | LOWER COOLANT HOSE             |                         |
| 6.      | 116-128     | 2   | SHOCK MOUNT                    |                         |
| 7.      | 110-549     | 1   | SIGHT GAUGE (12N)              |                         |
| 8.      | 365-494     | 2   | RADIATOR ROD                   |                         |
| 9.      | 106-709     | 4   | FLG LK NUT (M12-1.75)          |                         |
| 10.     | 107-135     | 2   | CLIP NUT (M8-1.25)             |                         |
| 11.     | 107-001     | 16  | FLG LK SCREW (M10-1.50 X 25mm) |                         |
| 12.     | 106-992     | 2   | FLG LK SCREW (M8-1.25 X 25mm)  |                         |
| 13.     | 110-134     | 4   | WORM CLAMP (2.062" TO 2.750")  |                         |
| 14.     | 116-108     | AR  | BULK HOSE (5/16", SOLD PER 1") | USE 1@ 24"              |
| 15.     | 106-998     | 2   | FLG LK SCREW (M10-1.50 X 70mm) |                         |
| 16.     | 106-266     | 18  | FLG NUT (M10-1.50)             |                         |
| 17.     | 106-999     | 6   | FLG LK SCREW (M10-1.50 X 20mm) |                         |
| 18.     | 323-457     | 1   | AIR BARRIER                    |                         |
| 19.     | 116-978     | AR  | BULK EDGE (1/4", SOLD PER FT)  | 63 1/2", SEE FOOTNOTE 3 |
| 20.     | 106-162     | 1   | FLG SCREW (M8-1.25 X 20MM)     |                         |
| 21.     | 116-107     | AR  | BULK STRIP (1.2", SOLD PER 1") | USE 2 @ 12"             |
| 22.     | 110-249     | 5   | WORM CLAMP (1/4" X 5/8")       |                         |
| 23.     | 110-259     | 2   | BOLT-ON CLAMP (.625")          |                         |
| 24.     | 364-670     | 1   | PRESSURE TANK                  |                         |
| 25.     | 117-339     | 1   | AIR BARRIER                    |                         |
| 26.     | 111-084     | 1   | RADIATOR CAP (16 PSI)          |                         |
| 27.     | 106-386     | 1   | FLG LOCKNUT (M8-1.25)          |                         |
| 28.     | 155-162     | 2   | S/O COUPLER (04N-05H)          |                         |
| 29.     | 514-285     | 1   | S/O COUPLER (08N-10H90)        |                         |
| 30.     | 153-160     | 1   | S/O COUPLER (18M-10H45)        | SEE FOOTNOTE 1          |
| 31.     | 116-750     | AR  | BULK HOSE (5/8", SOLD PER 1")  | USE 1@ 22.5"            |
| 32.     | 115-286     | 1   | REDUCER (08N-1/4-NF)           | SEE FOOTNOTE 2          |
| 33.     | 110-217     | 2   | WORM CLAMP (7/16" X 1")        |                         |
| 34.     | 155-164     | 1   | S/O COUPLER (04N-05H90)        |                         |
| 35.     | 116-108     | 12  | BULK HOSE (5/16", SOLD PER 1") | USE 1@ 12"              |
| 36.     | 116-108     | AR  | BULK HOSE (5/16", SOLD PER 1") | USE 1@ 15"              |
| 37.     | 502-046     | 1   | GROMMET (3/4)                  |                         |
| 38.     | 111-091     | 1   | RADIATOR CAP                   |                         |
| 39.     | 110-333     | 1   | BOLT-ON CLAMP (1")             |                         |

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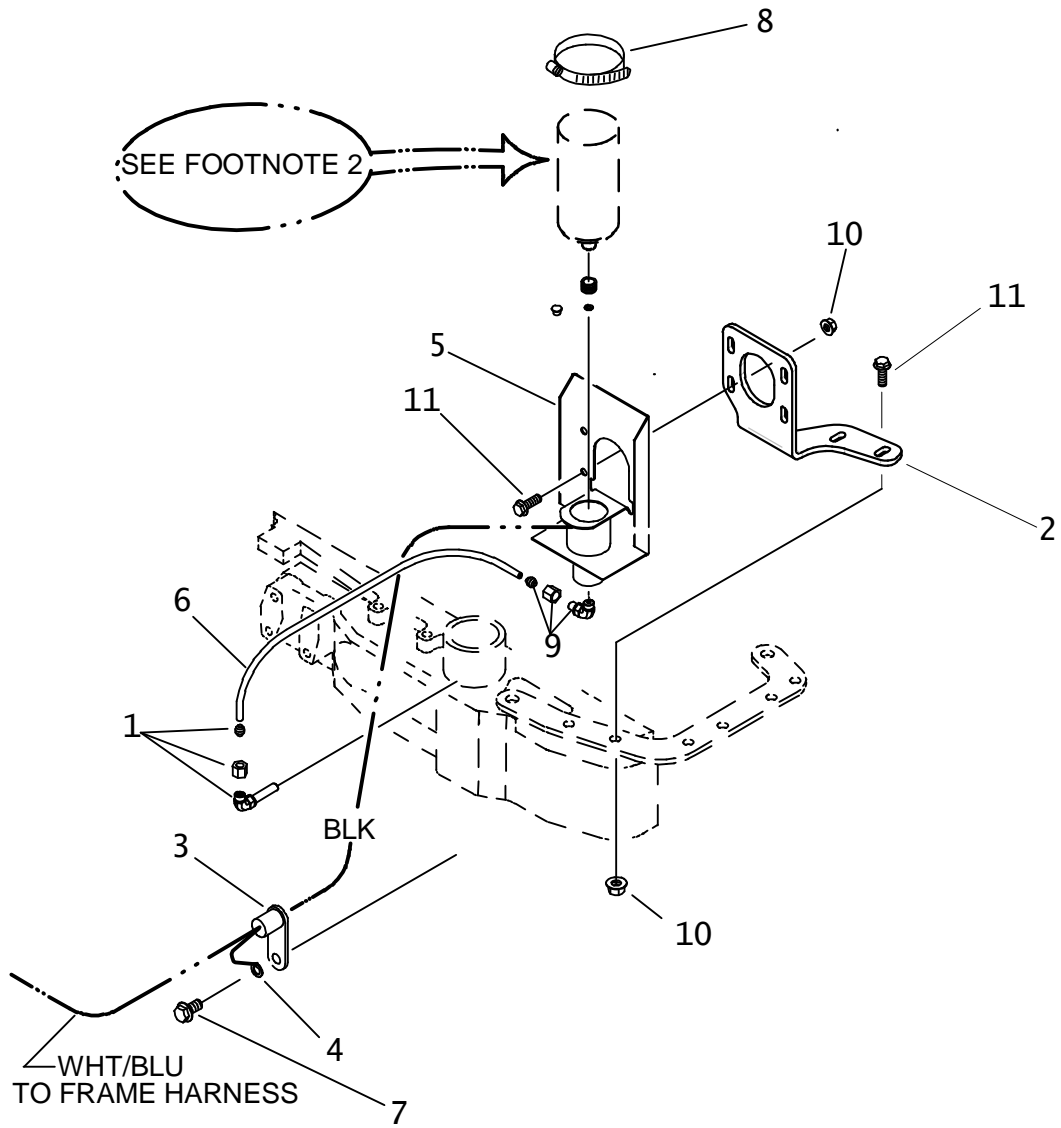
### FOOTNOTES:

1. CONNECTS INTO ENGINE WATER PUMP
2. CONNECTS INTO ENGINE CYLINDER HEAD
3. REF 19 (116-978) USES THREE PIECES, TWO @ 24 1/4" & ONE @ 15".

NOTE:



# COLD START KIT



## COLD START KIT

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                                |
|---------|-------------|-----|---------------------------------|--|
|         | 191-366     |     | COLD START KIT                  | INCL REF NO.S 1-12 & 306-607 & 306-608 |
| 1.      | 195-843     | 1   | INJECTOR NOZZLE (CLDSTRT)       |  |
|         | 156-204     | -   | FERRULE (02T)                   |  |
|         | 156-205     | -   | COMPRESSION NUT (02T)           |  |
| 2.      | 323-382     | 1   | BRACKET                         |  |
| 3.      | 215-073     | 1   | SENSOR SWITCH                   | SEE FOOTNOTE 1                         |
| 4.      | 215-590     | 1   | RING TERMINAL (.375")           | SEE FOOTNOTE 1                         |
| 5.      | 306-628     | 1   | VALVE/CANISTER BRACKET          |  |
| 6.      | 156-018     | AR  | BULK TUBING (1/8", SOLD PER 1") | USE 1@ 7"                              |
| 7.      | 106-654     | 1   | FLG LK SCREW (M10-1.50 X 16mm)  |  |
| 8.      | 110-169     | 1   | WORM CLAMP (2.812" TO 3.750")   |  |
| 9.      | 156-272     | 1   | TUBE CONNECTOR (02N-02T90, ORF) |  |
|         | 156-204     |     | FERRULE (02T)                   |  |
|         | 156-205     |     | COMPRESSION NUT (02T)           |  |
| 10.     | 106-386     | 6   | FLG LK NUT (M8-1.25)            |  |
| 11.     | 106-991     | 6   | FLG LK SCREW (M8-1.25 X 20mm)   |  |

NOT SHOWN:

|         |   |              |
|---------|---|--------------|
| 306-607 | 1 | HORN BUTTON  |
| 306-608 | 1 | BUTTON COVER |

FOOTNOTES:

1. REF NO.'S 3 & 4 BOLT ONTO ENGINE WITH ALTERNATOR ELECTRICAL HARNESS.
2. USE OF 8 OZ. ETHER CANISTER IS REQUIRED, WHICH WILL COME WITH SEALS AND FOAM.

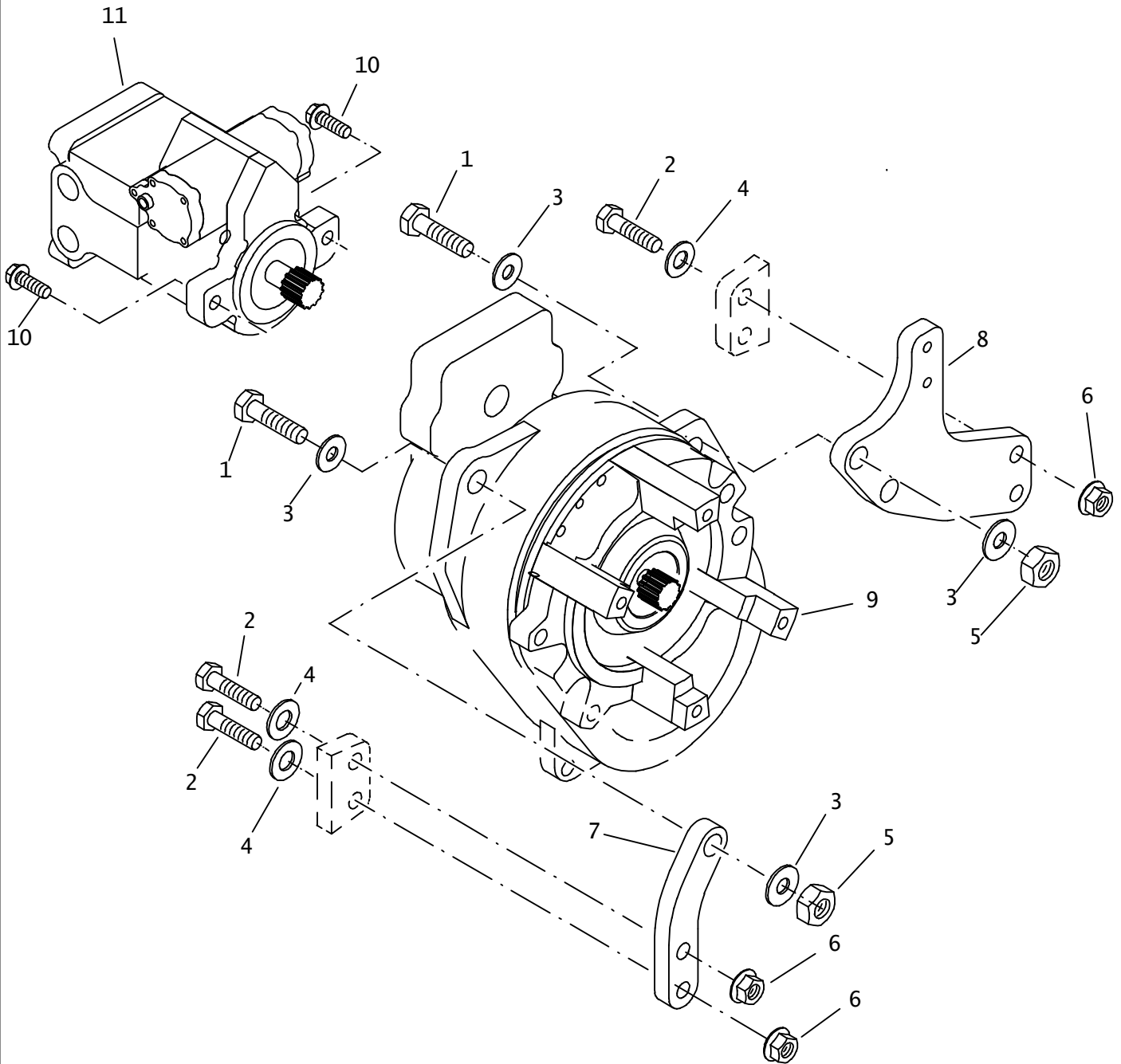
NOTE:



# **POWER TRAIN**

# GROUND DRIVE TRANSMISSION MOUNT

RT70



# GROUND DRIVE TRANSMISSION MOUNT

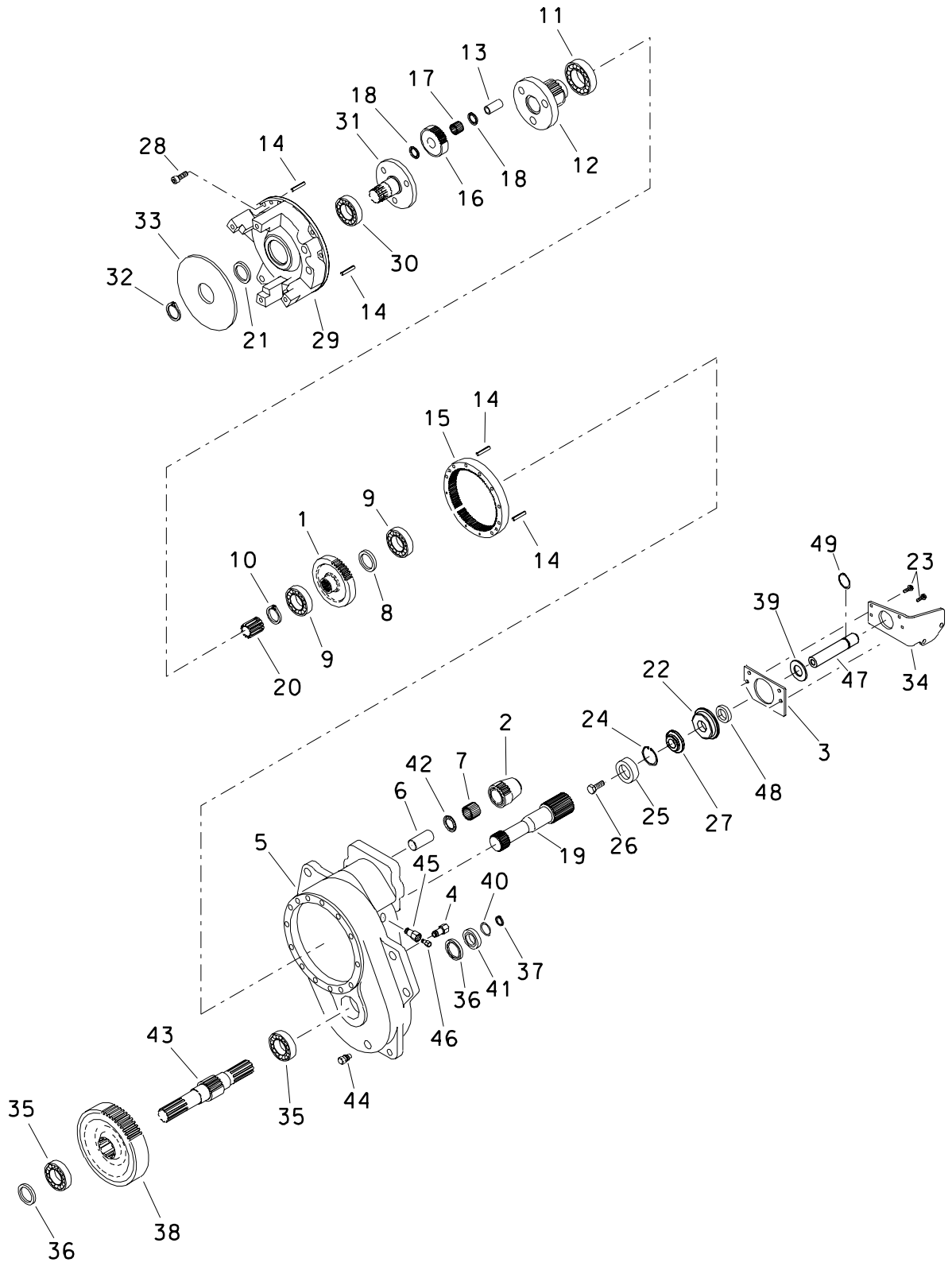
RT70

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                                     |
|---------|-------------|-----|---------------------------------|---|
| 1.      | 106-346     | 3   | SCREW (M20-2.50 X 70mm)         |   |
| 2.      | 106-666     | 4   | SCREW (M16-2.00 X 65mm, 10.9)   |   |
| 3.      | 106-399     | 6   | WASHER (M20, HARDENED)          |   |
| 4.      | 106-398     | 8   | WASHER (M16, HARDENED)          |   |
| 5.      | 106-665     | 3   | LOCKNUT (M20-2.50, 10.9)        |   |
| 6.      | 106-442     | 4   | FLG LOCKNUT (M16-2.00, PRV TRQ) |   |
| 7.      | 306-969     | 1   | RIGHT MOUNT BRACKET             |   |
| 8.      | 306-938     | 1   | LEFT MOUNT BRACKET              |   |
| 9.      | 166-313     | 1   | GROUND DRIVE TRANSMISSION       |   |
| 10.     | 106-469     | 2   | FLG SCREW (M12-1.75 X 30mm)     |   |
| 11.     | 153-094     | 1   | HYD MOTOR - GRD DRIVE           | SUPERCEDED BY 157-358                       |
|         | 157-358     | 1   | HYDRAULIC MOTOR                 | REFER TO PARTS PAGE "PUMP DRIVE HYDRAULICS" |

FOOTNOTES

NOTE:

## MANUAL SHIFT TRANSMISSION



# MANUAL SHIFT TRANSMISSION

| REF NO. | PART NUMBER | QTY | DESCRIPTION                  | REMARKS         |
|---------|-------------|-----|------------------------------|-----------------|
|         | 166-313     |     | GROUND DRIVE TRANS.          |                 |
| 1.      | 166-295     | 1   | INPUT GEAR                   |                 |
| 2.      | 166-294     | 1   | INPUT PINION                 |                 |
| 3.      | 331-386     | 1   | SPACER PLATE                 |                 |
| 4.      | 115-178     | 1   | PLUG (O6N, SQ FM)            |                 |
| 5.      | 164-014     | 1   | TRANSMISSION HOUSING         |                 |
| 6.      | 167-180     | 1   | SHAFT                        |                 |
| 7.      | 126-031     | 1   | NEEDLE BEARING (1.375")      |                 |
| 8.      | 184-215     | 1   | SPACER                       |                 |
| 9.      | 125-091     | 2   | BALL BEARING (2.165")        |                 |
| 10.     | 115-525     | 1   | INTERNAL SNAP RING (3.543")  |                 |
| 11.     | 125-073     | 1   | BALL BEARING (2.362")        |                 |
| 12.     | 166-080     | 1   | OUTPUT PINION                |                 |
| 13.     | 183-749     | 3   | PLANET PIN                   |                 |
| 14.     | 105-534     | 4   | DOWEL PIN (.375"X.875")      |                 |
| 15.     | 165-149     | 1   | RING GEAR                    |                 |
| 16.     | 165-145     | 3   | PLANET GEAR                  |                 |
| 17.     | 126-065     | 3   | BEARING (NEEDLE ROLLER)      |                 |
| 18.     | 126-009     | 6   | THRUST WASHER RACE (1.000")  |                 |
| 19.     | 166-279     | 1   | INPUT SHAFT                  |                 |
| 20.     | 165-152     | 1   | SPLINED SLEEVE               |                 |
| 21.     | 157-552     | 1   | INTERNAL SEAL (1.969")       |                 |
| 22.     | 184-815     | 1   | SEAL SLEEVE                  |                 |
| 23.     | 106-379     | 4   | FL LK SCREW (M6-1.00 X 20mm) |                 |
| 24.     | 115-544     | 1   | INTERNAL SNAP RING (1.188")  |                 |
| 25.     | 125-119     | 1   | BALL BEARING (.393")         |                 |
| 26.     | 107-068     | 1   | BOLT (3/8-NF x 1-1/2")       | USE LOCTITE 680 |

FOOTNOTES



# MANUAL SHIFT TRANSMISSION

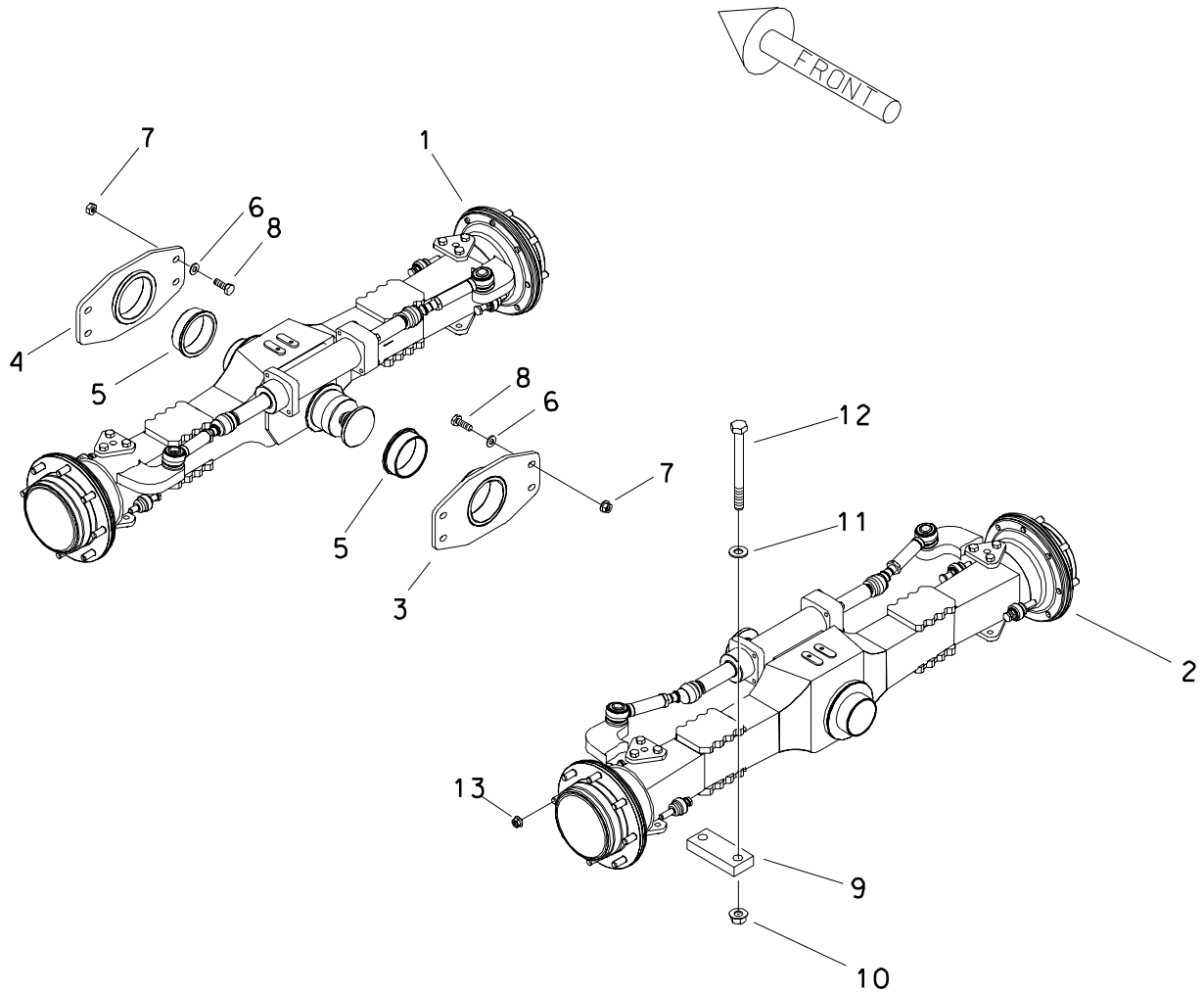
| REF NO. | PART NUMBER | QTY | DESCRIPTION                 | REMARKS |
|---------|-------------|-----|-----------------------------|---------|
| 27.     | 184-069     | 1   | KEEPER                      |         |
|         | 105-115     | 1   | JAM NUT (5/16-NF)           |         |
| 28.     | 107-238     | 8   | SCREW (M10-1.5 X 50mm, SOC) |         |
| 29.     | 166-312     | 1   | TRANSMISSION CAP            |         |
| 30.     | 125-040     | 1   | BALL BEARING (1.968")       |         |
| 31.     | 169-039     | 1   | BRAKE OUTPUT FLANGE         |         |
| 32.     | 115-456     | 1   | EXTERNAL SNAP RING (1.750") |         |
| 33.     | 163-092     | 1   | BRAKE DISC                  |         |
| 34.     | 307-563     | 1   | SHIFT MOUNT                 |         |
| 35.     | 125-107     | 2   | BALL BEARING (1.574")       |         |
| 36.     | 157-609     | 2   | INTERNAL SEAL               |         |
| 37.     | 118-022     | 1   | INTERNAL SNAP RING (3.150") |         |
| 38.     | 165-147     | 1   | OUTPUT GEAR                 |         |
| 39.     | 326-060     | 1   | WASHER (3/4")               |         |
| 40.     | 155-795     | 1   | O-RING (233 D70)            |         |
| 41.     | 184-214     | 1   | SEAL RETAINER               |         |
| 42.     | 126-059     | 1   | BEARING RACE (1.375")       |         |
| 43.     | 167-181     | 1   | OUTPUT SHAFT                |         |
| 44.     | 115-211     | 1   | PLUG (Ø8N, SQ, MAG)         |         |
| 45.     | 115-127     | 1   | REDUCER (Ø8N-Ø2NF)          |         |
| 46.     | 159-003     | 1   | AIR VENT (Ø2N)              |         |
| 47.     | 183-643     | 1   | SHIFTER SHAFT               |         |
| 48.     | 155-878     | 1   | INTERNAL SEAL (.750")       |         |
| 49.     | 115-545     | 1   | EXTERNAL SNAP RING (.75")   |         |

FOOTNOTES



# DIFFERENTIALS

## RT70



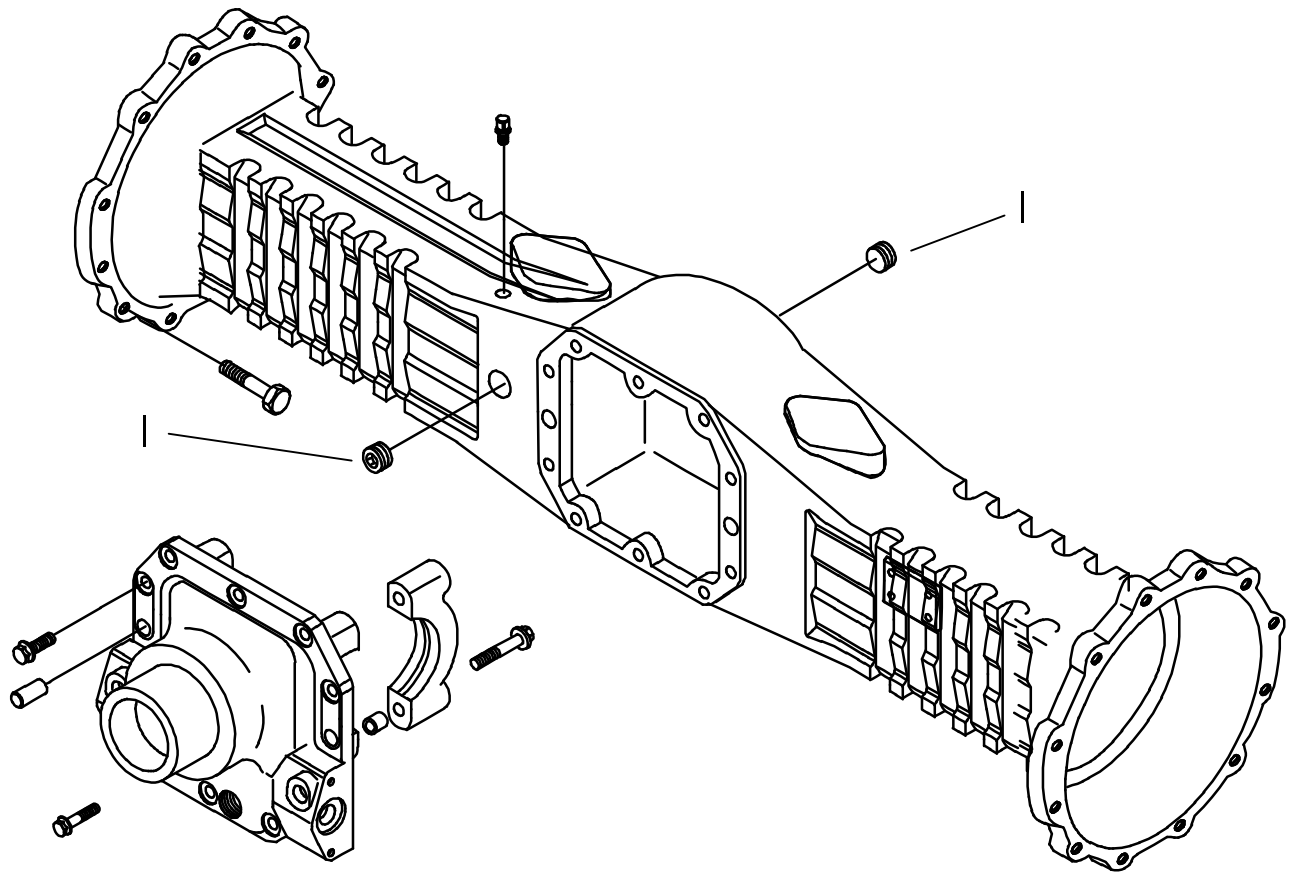
# DIFFERENTIALS

## RT70

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                          |
|---------|-------------|-----|--------------------------------|----------------------------------|
| 1.      | 160-453     | 1   | STEERABLE AXLE (26.16)         | QTY. OF 2 WITH REAR STEER OPTION |
| 2.      | 166-226     | 1   | RIGID PLANETARY AXLE (28.16)   |                                  |
|         | 160-453     | -   | STEERABLE AXLE (26.16)         |                                  |
| 3.      | 306-748     | 1   | AXLE MOUNT                     |                                  |
| 4.      | 307-711     | 1   | AXLE MOUNT                     |                                  |
| 5.      | 178-365     | 2   | BRONZE BUSHING (4.928")        |                                  |
| 6.      | 106-398     | 8   | WASHER (M16, HARDENED)         |                                  |
| 7.      | 106-355     | 8   | FLG NUT (M16-2.00, 10.9)       |                                  |
| 8.      | 106-616     | 8   | SCREW (M16-2.00 X 55MM, 10.9)  |                                  |
| 9.      | 307-303     | 2   | CLAMP PLATE                    | QTY. OF 4 WITH RIGID REAR        |
|         | 307-304     | 2   | CLAMP PLATE                    | WITH REAR STEER                  |
| 10.     | 106-489     | 4   | FLG NUT (M24-3.00, 10.9)       |                                  |
| 11.     | 106-625     | 4   | WASHER (M24)                   |                                  |
| 12.     | 107-089     | 4   | SCREW (M24-3.00 X 260mm, 10.9) |                                  |
| 13.     | 499-521     | 32  | LUG NUT (M20-1.50)             |                                  |

FOOTNOTES

AXLE  
HOUSING  
RIGID



**AXLE  
HOUSING  
RIGID**

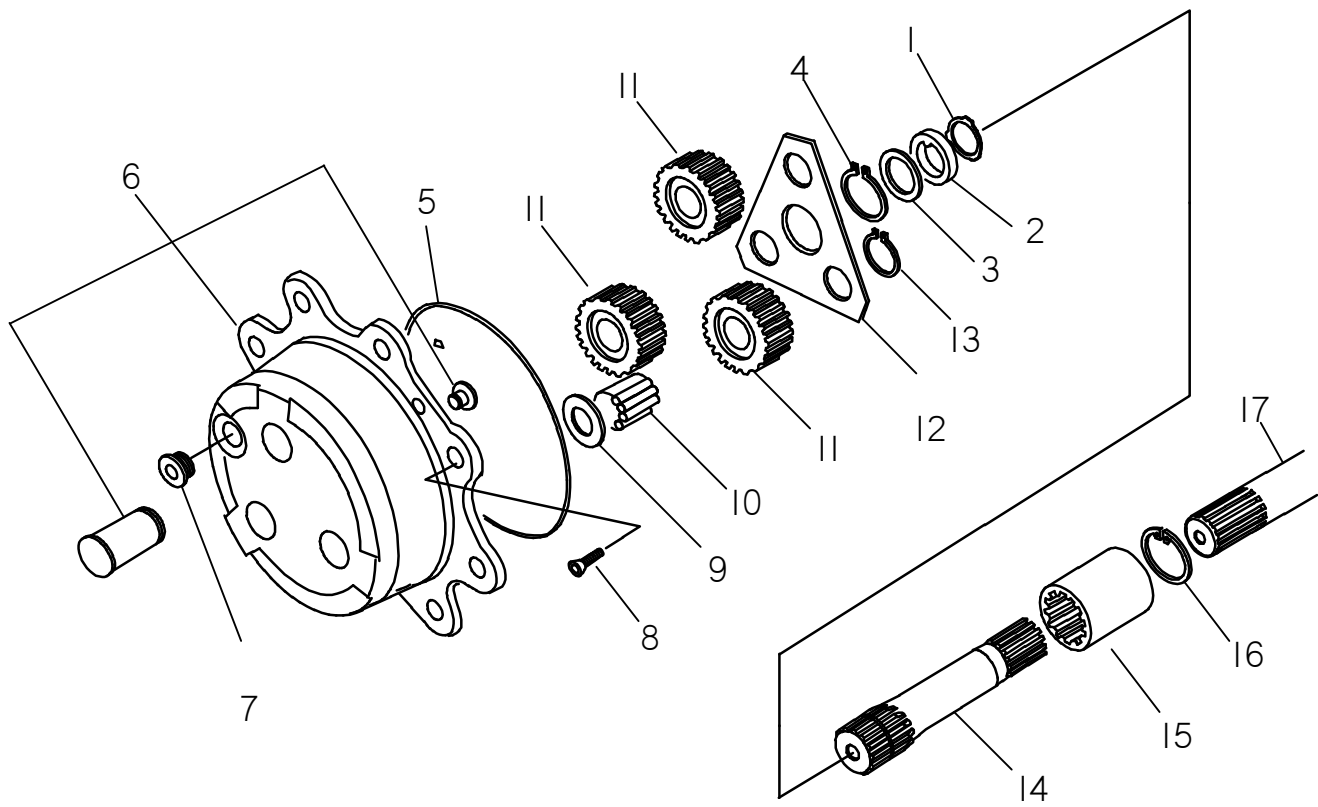
| REF PART<br>NO. NUMBER | QTY | DESCRIPTION                 | REMARKS |
|------------------------|-----|-----------------------------|---------|
| 1. 159-512             | 2   | PLUG (M24-1.50, FILL/DRAIN) |         |

NOT SHOWN:

FOOTNOTES:

NOTE:

# AXLE REDUCTION GEARS RIGID



## AXLE REDUCTION GEARS RIGID

| REF PART<br>NO. NUMBER | QTY | DESCRIPTION                 | REMARKS |
|------------------------|-----|-----------------------------|---------|
| 1. 501-897             | 2   | THRUST WASHER               |         |
| 2. 499-534             | 2   | SPACER                      |         |
| 3. 499-535             | 2   | WASHER                      |         |
| 4. 118-061             | 2   | EXTERNAL SNAP RING          |         |
| 5. 157-224             | 2   | O-RING                      |         |
| 6. 161-313             | 2   | PLANETARY CARRIER ASS'Y     |         |
| 7. 114-036             | 2   | PLUG, PLANETARY CARRIER     |         |
| 8. 107-349             | 4   | SCREW (M8-1.25 X 20mm)      |         |
| 9. 501-895             | 6   | THRUST WASHER               |         |
| 10. 499-530            | 18  | NEEDLE BEARING (10)         |         |
| 11. 501-894            | 6   | PLANETARY GEAR, (Z-23) DIFF |         |
| 12. 499-529            | 2   | THRUST WASHER               |         |
| 13. 118-060            | 6   | EXTERNAL SNAP RING          |         |
| 14. 499-536            | 2   | HALF-SHAFT Z12              |         |
| 15. 499-537            | 2   | SLEEVE                      |         |
| 16. 499-538            | 2   | SNAP RING D32               |         |
| 17. 499-539            | 2   | HALF-SHAFT                  |         |

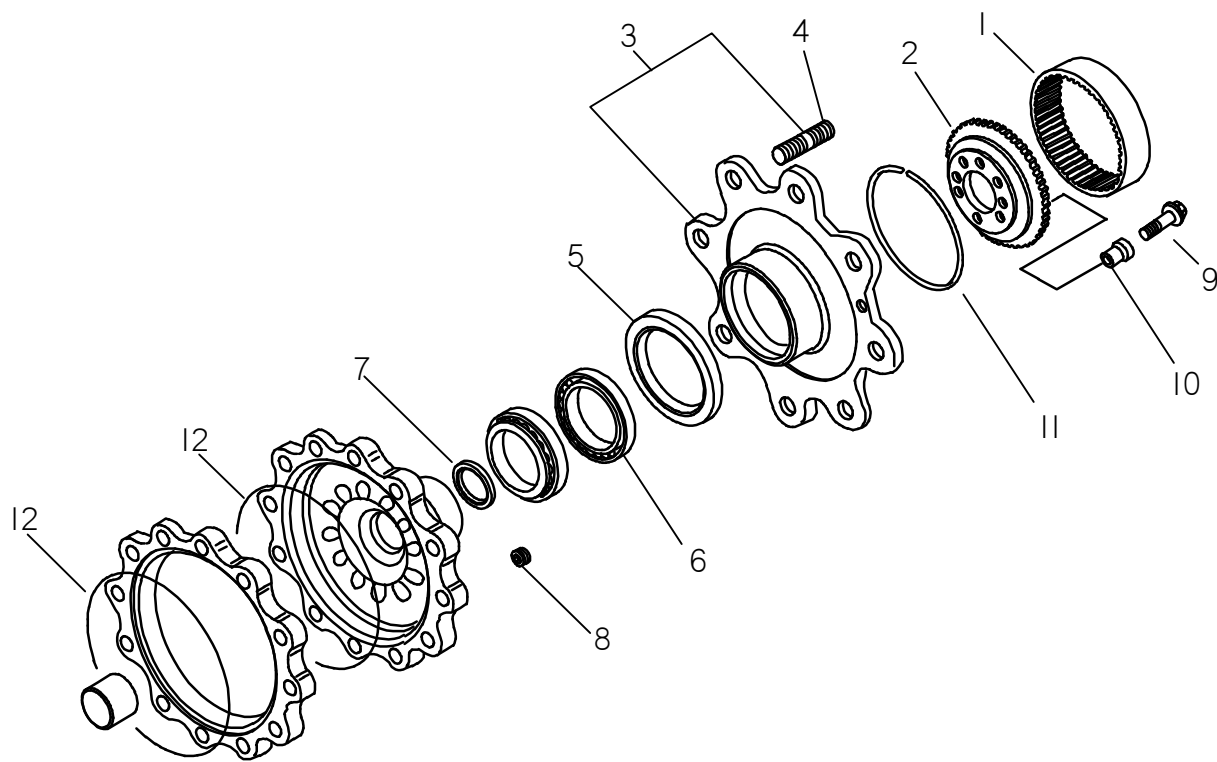
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FOOTNOTES:

NOTE:



AXLE  
WHEEL HUB  
RIGID



# AXLE WHEEL HUB RIGID

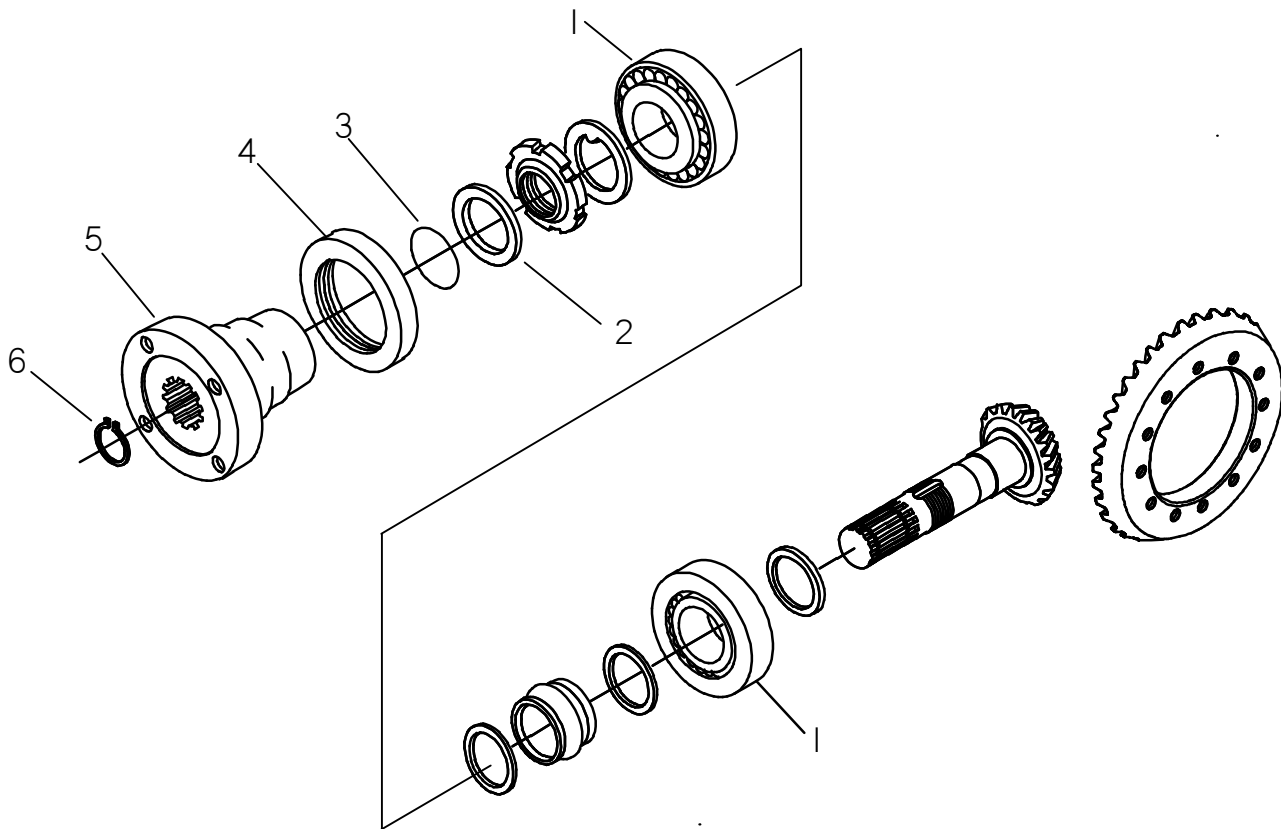
| REF PART<br>NO. NUMBER | QTY | DESCRIPTION                  | REMARKS                          |
|------------------------|-----|------------------------------|----------------------------------|
| 1. 501-896             | 2   | CROWN GEAR, (Z-60) PLANETARY |                                  |
| 2. 501-899             | 2   | WHEEL CARRIER, PLANETARY     |                                  |
| 3. 501-900             | 2   | WHEEL HUB ASS'Y, PLANETARY   |                                  |
| 4. 499-499             | 8   | STUD, PLANETARY WHEEL HUB    | INCLUDES REF #4<br>QTY PER WHEEL |
| 5. 157-749             | 2   | SEAL, CASSETTE (PLANETARY)   |                                  |
| 6. 499-531             | 4   | BEARING                      |                                  |
| 7. 499-532             | 2   | SEAL RING                    |                                  |
| 8. 159-512             | 2   | PLUG (M24-1.50, FILL/DRAIN)  |                                  |
| 9. 107-350             | 12  | LK SCREW (M10-1.50 X 45mm)   |                                  |
| 10. 178-175            | 12  | CENTERING BUSHING            |                                  |
| 11. 499-501            | 2   | RING                         |                                  |
| 12. 499-533            | 2   | O-RING                       |                                  |

NOT SHOWN:

FOOTNOTES:

NOTE:

**AXLE**  
**GEAR/PINION**  
**STEERABLE/RIGID**



## AXLE GEAR/PINION STEERABLE/RIGID

## REF PART

NO. NUMBER QTY DESCRIPTION

REMARKS

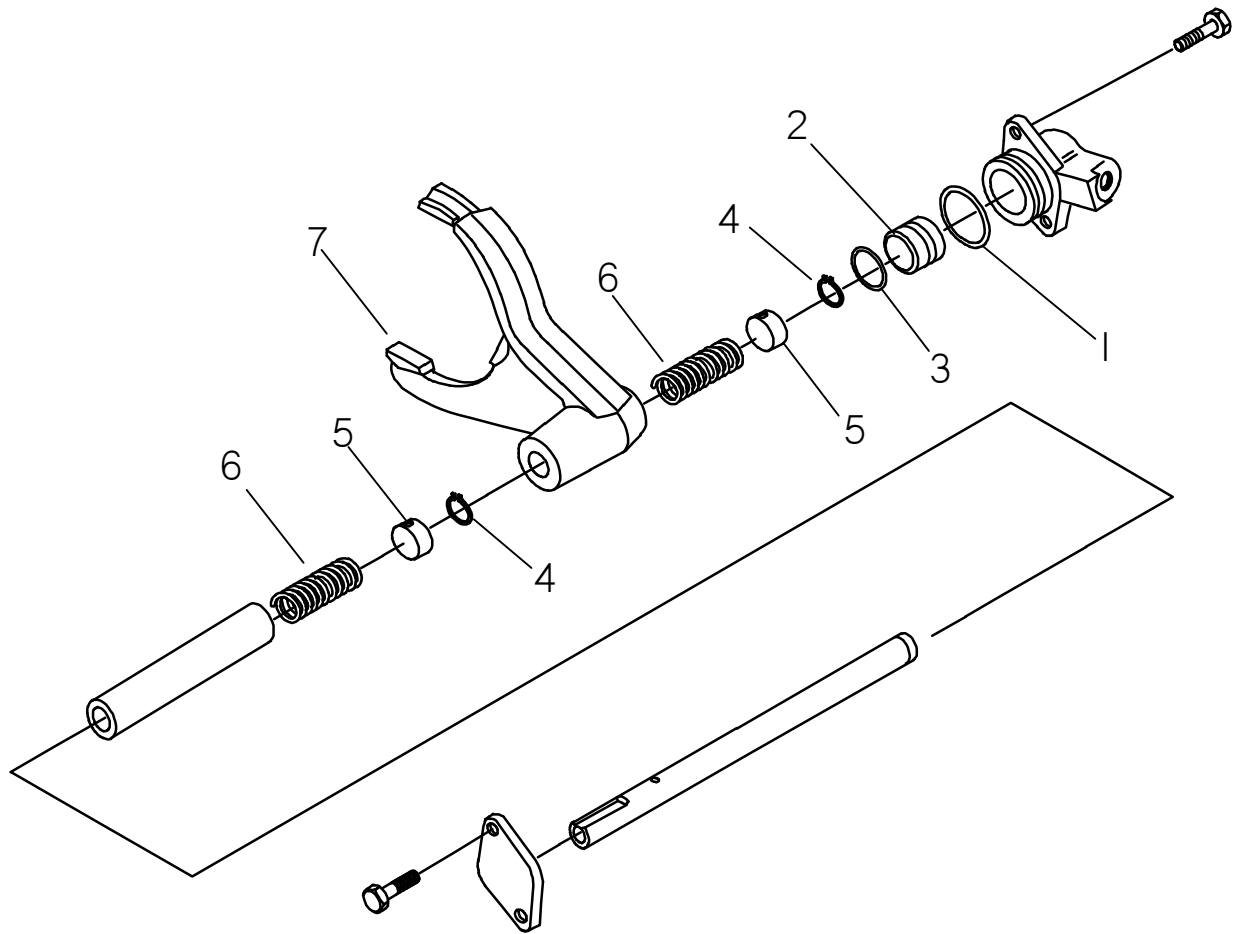
| REF PART NO. | NUMBER  | QTY | DESCRIPTION             | REMARKS     |
|--------------|---------|-----|-------------------------|-------------|
| 499-524      |         |     | BEVEL GEAR SET Z12/32   |             |
| 168-606      |         |     | SHIM (2.50mm)           | PART OF KIT |
| 168-607      |         |     | SHIM (2.60mm)           | PART OF KIT |
| 168-608      |         |     | SHIM (2.70mm)           | PART OF KIT |
| 168-609      |         |     | SHIM (2.80mm)           | PART OF KIT |
| 168-610      |         |     | SHIM (2.90mm)           | PART OF KIT |
| 168-611      |         |     | SHIM (3.00mm)           | PART OF KIT |
| 168-612      |         |     | SHIM (3.10mm)           | PART OF KIT |
| 168-613      |         |     | SHIM (3.20mm)           | PART OF KIT |
| 168-614      |         |     | SHIM (3.30mm)           | PART OF KIT |
| 168-615      |         |     | SHIM (3.40mm)           | PART OF KIT |
| 1.           | 126-201 | 2   | BEARING, GEAR & PINION  |             |
| 2.           | 501-887 | 1   | WASHER (M31.4)          |             |
| 3.           | 157-220 | 1   | O-RING                  |             |
| 4.           | 157-748 | 1   | OIL SEAL, GEAR & PINION |             |
| 5.           | 501-888 | 1   | FLANGE, GEAR & PINION   |             |
| 6.           | 118-058 | 1   | EXTERNAL SNAP RING      |             |

NOT SHOWN:

FOOTNOTES:

NOTE:

AXLE  
DIFF LOCK  
STEERABLE/RIGID



**AXLE  
DIFF LOCK  
STEERABLE/RIGID**

| REF PART<br>NO. | PART<br>NUMBER | QTY | DESCRIPTION     | REMARKS |
|-----------------|----------------|-----|-----------------|---------|
| 1.              | 499-488        | 1   | O-RING          |         |
| 2.              | 499-489        | 1   | PISTON          |         |
| 3.              | 499-490        | 1   | O-RING          |         |
| 4.              | 499-491        | 2   | SNAP RING (D12) |         |
| 5.              | 499-492        | 2   | SPACER          |         |
| 6.              | 499-493        | 2   | SPRING          |         |
| 7.              | 499-494        | 1   | FORK            |         |

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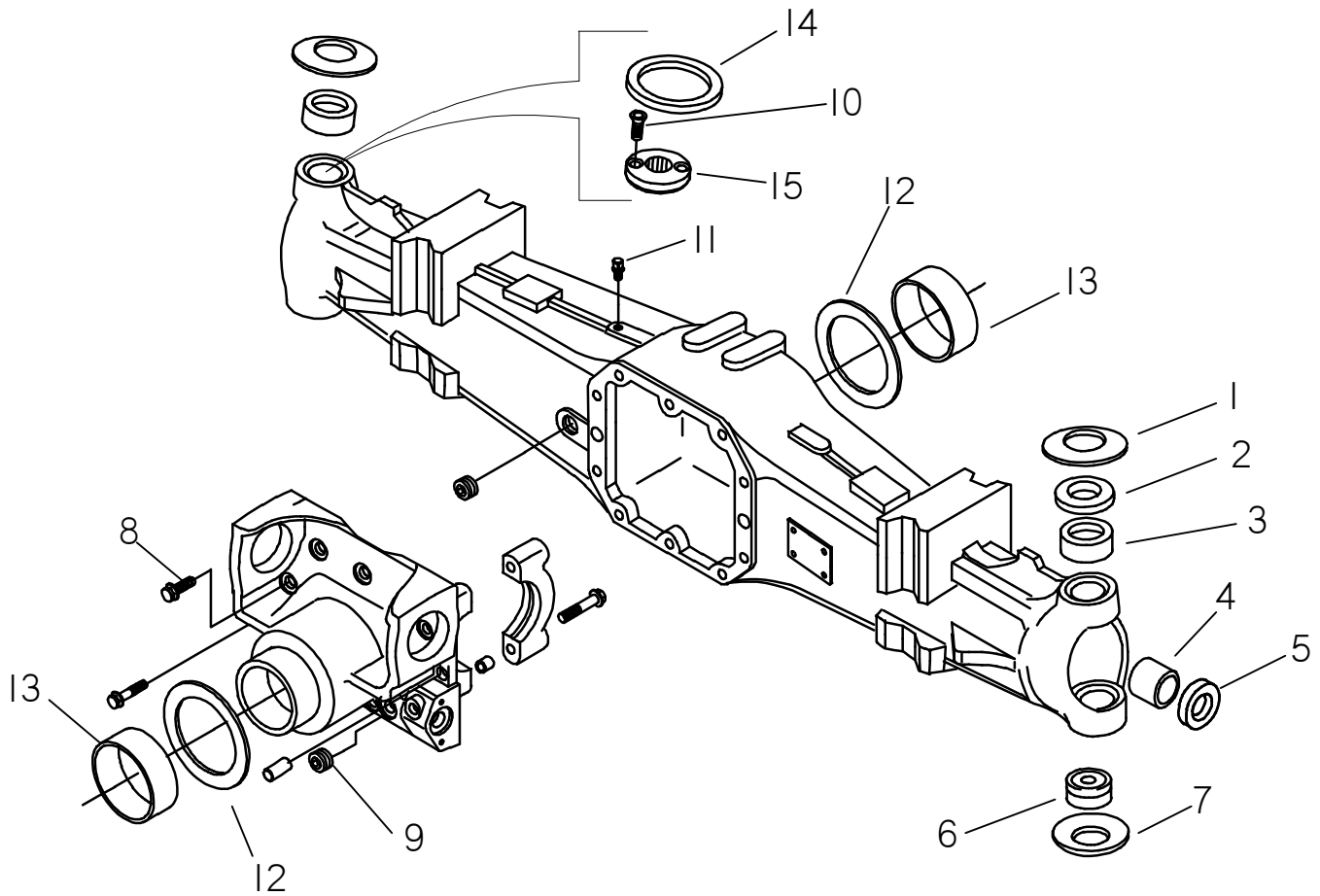
FOOTNOTES:

NOTE:

# AXLE

## AXLE HOUSING

### STEERABLE



# AXLE AXLE HOUSING STEERABLE

| REF PART<br>NO. NUMBER | QTY | DESCRIPTION                 | REMARKS |
|------------------------|-----|-----------------------------|---------|
| 1. 107-338             | 1   | BELLEVILLE WASHER           |         |
| 2. 168-605             | 1   | SHIM                        |         |
| 3. 178-167             | 1   | BUSHING                     |         |
| 4. 178-168             | 2   | BUSHING                     |         |
| 5. 157-745             | 2   | OIL SEAL (30 X 44 X11)      |         |
| 6. 126-200             | 2   | SPHERICAL BEARING (METRIC)  |         |
| 7. 107-339             | 2   | BELLEVILLE WASHER           |         |
| 8. 107-340             | 5   | SCREW (M12-1.75 X 33mm)     |         |
| 9. 159-512             | 2   | PLUG (M24-1.50, FILL/DRAIN) |         |
| 10. 499-472            | 2   | PIN LOCKING WASHER          |         |
| 11. 159-511            | 1   | VENT PLUG (M10-1)           |         |
| 12. 499-461            | 2   | THRUST WASHER               |         |
| 13. 499-462            | 2   | BUSHING                     |         |
| 14. 500-1697           | 1   | LH BUSH (SPACER)            |         |
| 15. 500-1698           | 1   | SCREW (M4-.7 X 10mm, 10.9)  |         |

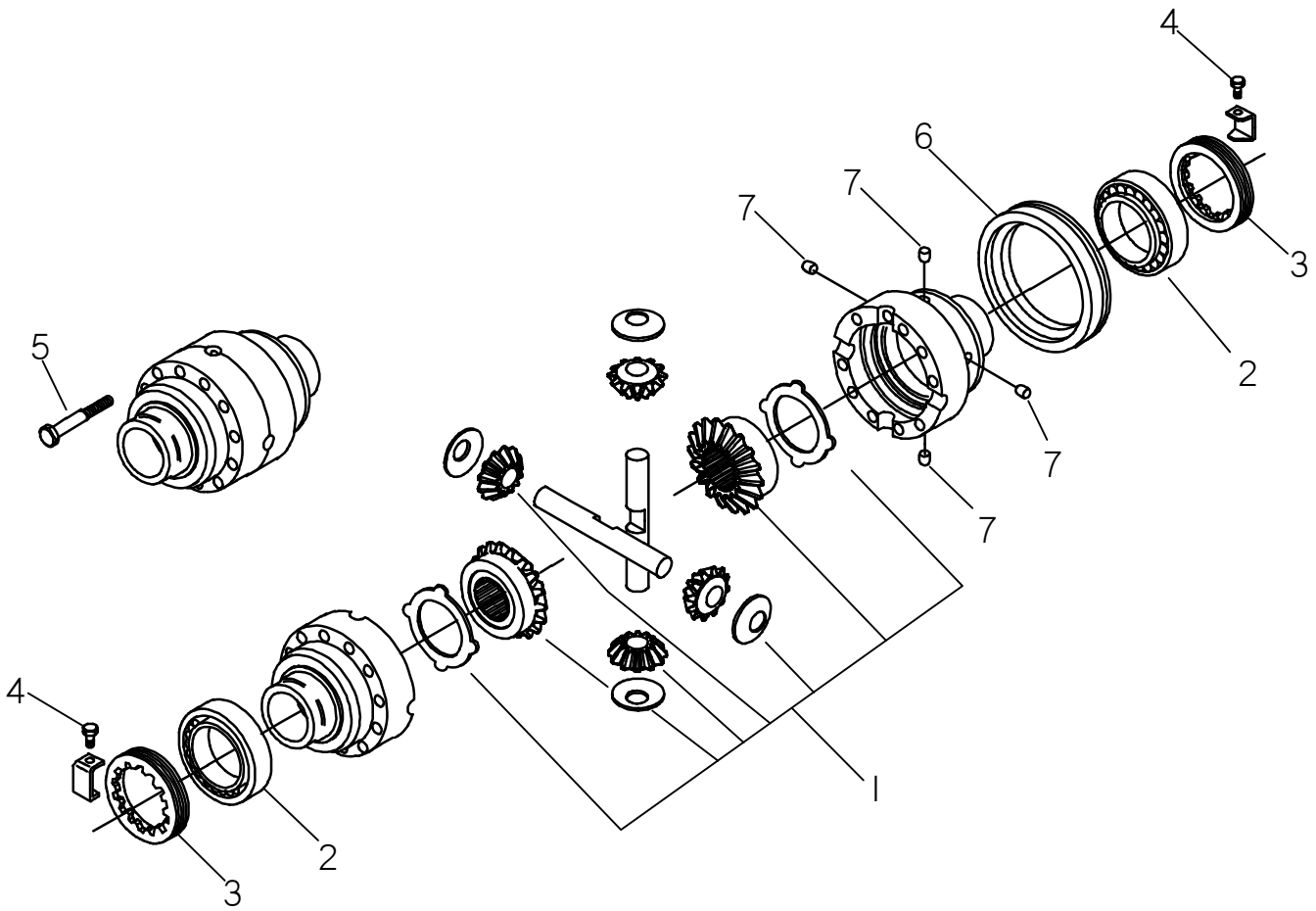
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FOOTNOTES:

NOTE:



**AXLE  
DIFFERENTIAL  
STEERABLE/RIGID**



## AXLE DIFFERENTIAL STEERABLE/RIGID

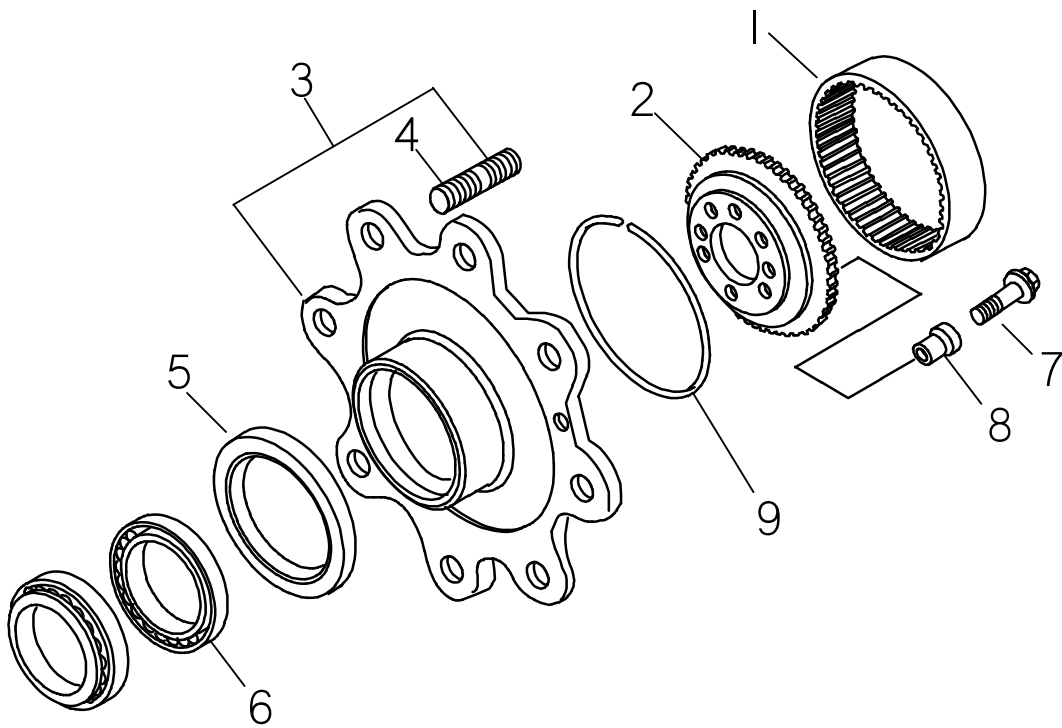
| REF PART<br>NO. NUMBER | QTY | DESCRIPTION                | REMARKS |
|------------------------|-----|----------------------------|---------|
| 1. 499-525             |     | DIFFERENTIAL KIT           |         |
| 2. 126-202             | 2   | BEARING, DIFF HSNG         |         |
| 3. 501-893             | 2   | RING NUT                   |         |
| 4. 107-348             | 2   | SCREW (M6-1.00 X 10mm)     |         |
| 5. 107-346             | 12  | LK SCREW (M10-1.50 X 75mm) |         |
| 6. 499-485             | 1   | SLEEVE                     |         |
| 7. 499-487             | 4   | PIN                        |         |

NOT SHOWN:

FOOTNOTES:

NOTE:

AXLE  
WHEEL HUB  
STEERABLE



# AXLE WHEEL HUB STEERABLE

REF PART

NO. NUMBER QTY DESCRIPTION

REMARKS

1. 501-896 2 CROWN GEAR, (Z-60) PLANETARY
2. 501-899 2 WHEEL CARRIER, PLANETARY
3. 501-900 2 WHEEL HUB ASS'Y, PLANETARY
4. 499-499 8 STUD, PLANETARY WHEEL HUB
5. 157-749 2 SEAL, CASSETTER (PLANETARY)
6. 126-204 4 BEARING
7. 107-350 12 LK SCREW (M10-1.50 X 45mm)
8. 178-175 12 CENTERING BUSHING
9. 499-501 2 RING

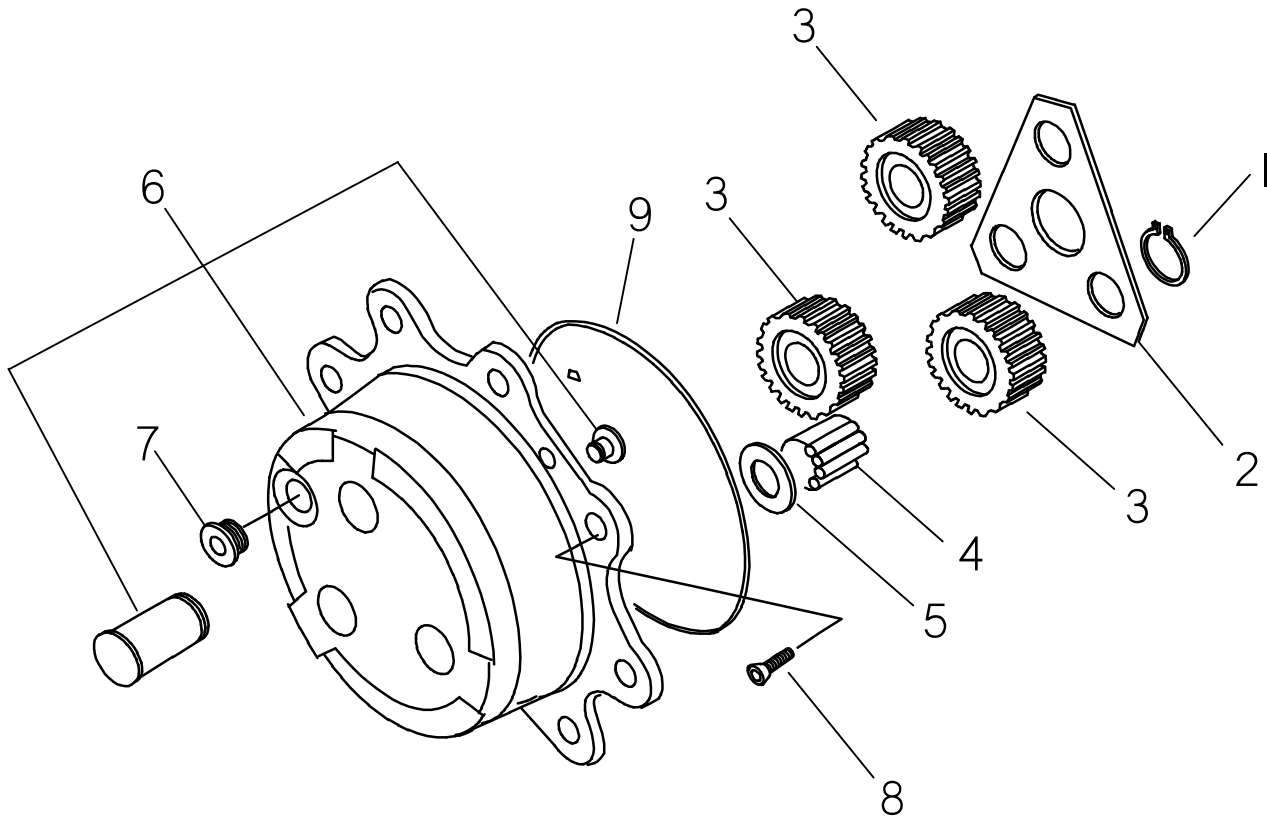
QTY PER WHEEL

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FOOTNOTES:

NOTE:

**AXLE  
REDUCTION GEAR  
STEERABLE**



# AXLE REDUCTION GEAR STEERABLE

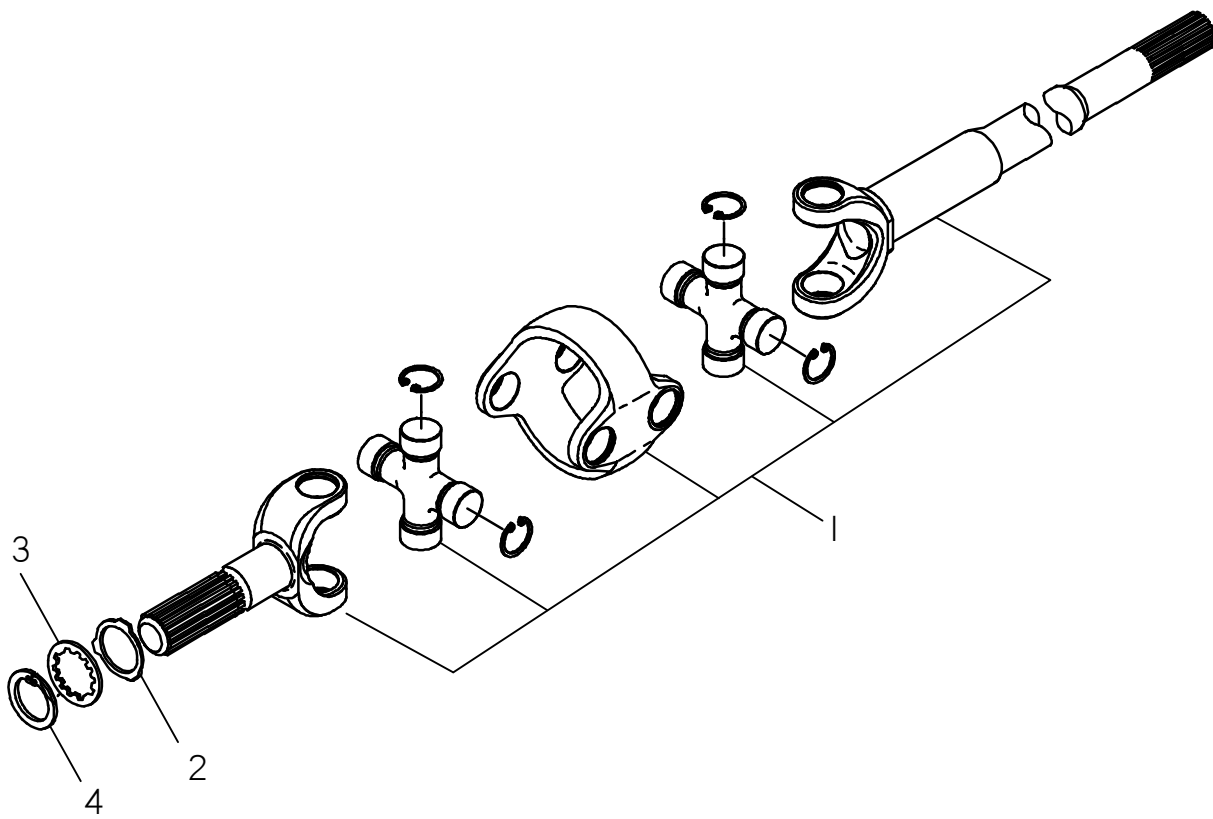
| REF PART<br>NO. NUMBER QTY DESCRIPTION          | REMARKS   |
|---|---|
| 191-362 PLANET GEAR KIT                         | INCL REF #'S 1,3,4 & 5 - 3 KITS PER WHEEL ASSEMBLY<br>ONE PER 191-362 |
| 1. 118-060 6 EXTERNAL SNAP RING                 |   |
| 2. 499-529 2 THRUST WASHER                      |   |
| 3. 501-894 6 PLANETARY GEAR, (Z-23) DIFF        | ONE PER 191-362   |
| 4. 499-530 18 NEEDLE BEARING (10 ROLLERS @ BAG) | TWO BAGS PER 191-362  |
| 5. 501-895 6 THRUST WASHER                      | ONE PER 191-362   |
| 6. 161-313 2 PLANETARY CARRIER ASS'Y            |   |
| 7. 114-036 2 PLUG, PLANETARY CARRIER            |   |
| 8. 107-349 4 SCREW (M8-1.25 X 20mm)             |   |
| 9. 157-224 2 O-RING                             |   |

NOT SHOWN:

FOOTNOTES:

NOTE:

AXLE  
DOUBLE JOINT  
STEERABLE



**AXLE  
DOUBLE JOINT  
STEERABLE**

| REF PART<br>NO. NUMBER | QTY | DESCRIPTION        | REMARKS |
|------------------------|-----|--------------------|---------|
| 1. 499-526             | 2   | DOUBLE JOINT       |         |
| 2. 501-897             | 2   | THRUST WASHER      |         |
| 3. 499-535             | 2   | WASHER             |         |
| 4. 118-061             | 2   | EXTERNAL SNAP RING |         |

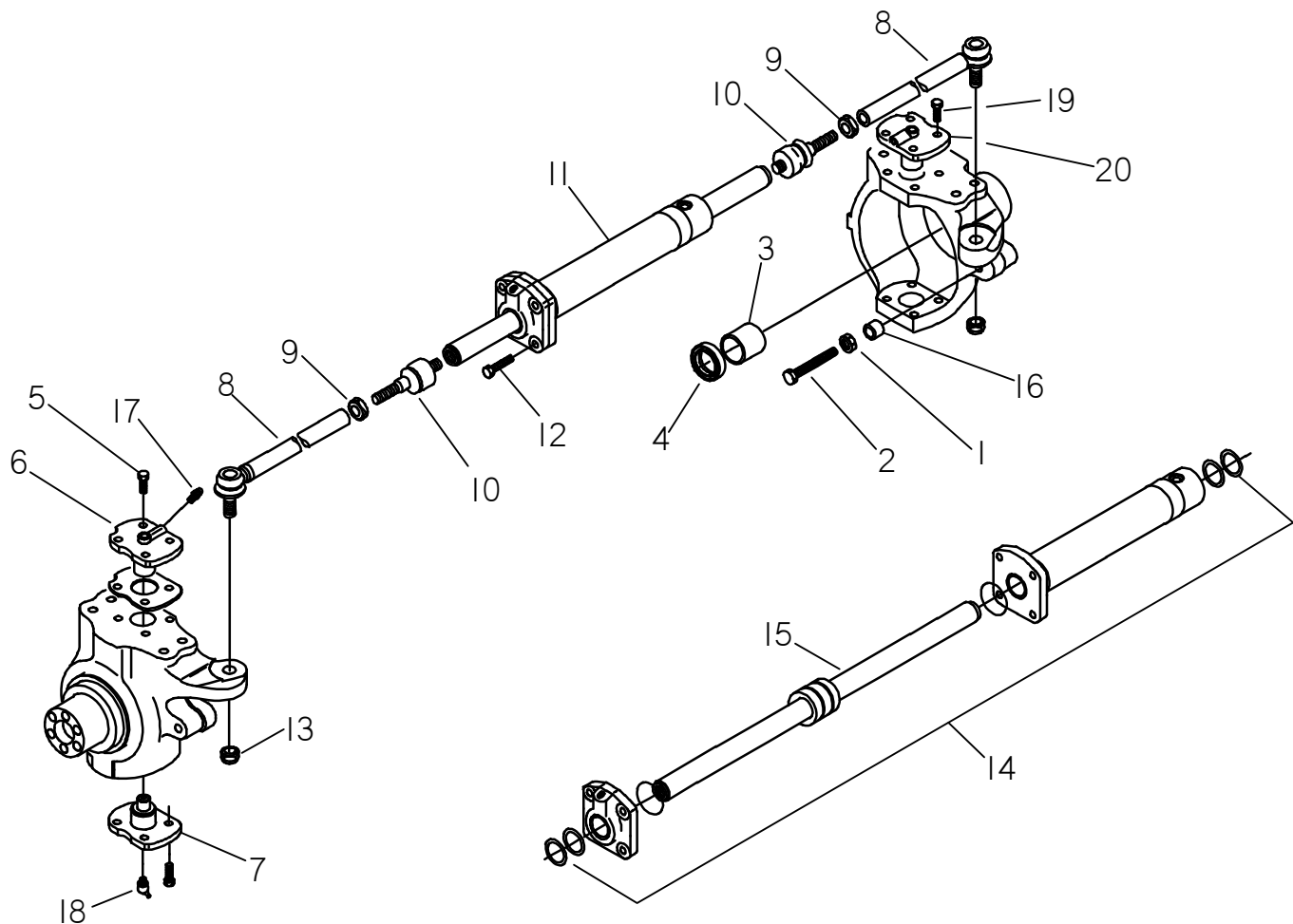
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FOOTNOTES:

NOTE:



**AXLE**  
**STEERING CYLINDER**  
**STEERABLE**



# AXLE STEERING CYLINDER STEERABLE

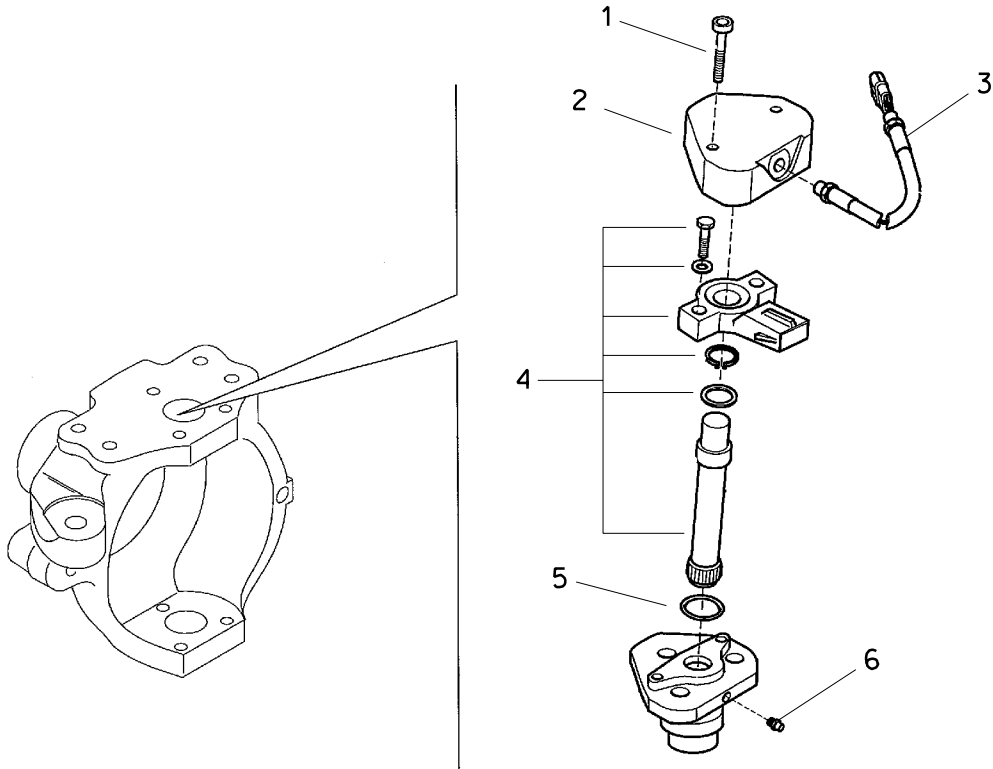
| REF PART<br>NO. NUMBER | QTY | DESCRIPTION                   | REMARKS  |
|------------------------|-----|-------------------------------|----------|
| 1. 106-077             | 2   | NUT (M16-2.00, 10.9)          |          |
| 2. 107-457             | 2   | SCREW (M16-2.00 X 75mm, 10.9) |          |
| 3. 178-172             | 2   | BUSHING                       |          |
| 4. 157-747             | 2   | OIL SEAL                      |          |
| 5. 106-472             | 3   | SCREW (M16-2.00 X 35mm)       |          |
| 6. 499-473             | 1   | KING PIN                      |          |
| 7. 501-881             | 2   | KING PIN, SWIVEL HOUSING      |          |
| 8. 162-029             | 2   | STEERING ARM                  |          |
| 9. 107-343             | 2   | NUT, BALL JOINT               |          |
| 10. 162-028            | 2   | BALL JOINT                    |          |
| 11. 162-030            | 1   | STEERING CYLINDER             |          |
| 12. 107-307            | 4   | SCREW (M12-1.75 X 45mm)       |          |
| 13. 107-342            | 2   | NUT (M18-1.50, SELF LOCK)     |          |
| 14. 190-894            | 1   | OIL SEAL KIT                  |          |
| 15. 162-031            | 1   | TIE ROD                       | OBSOLETE |
| 16. 499-523            | 2   | BUSHING (25 X 17 X 13)        |          |
| 17. 115-065            | 2   | ZERK, METRIC (M6 X 1)         |          |
| 18. 115-066            | 2   | ZERK, METRIC (M6 X 1-45 DEG)  |          |
| 19. 107-341            | 12  | SCREW (M12-1.75 X 30mm)       |          |
| 20. 501-882            | 1   | KING PIN, SWIVEL HOUSING      |          |

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FOOTNOTES:

NOTE:

AXLE -  
POTENTIOMETER  
STEERABLE



# AXLE - POTENTIOMETER STEERABLE

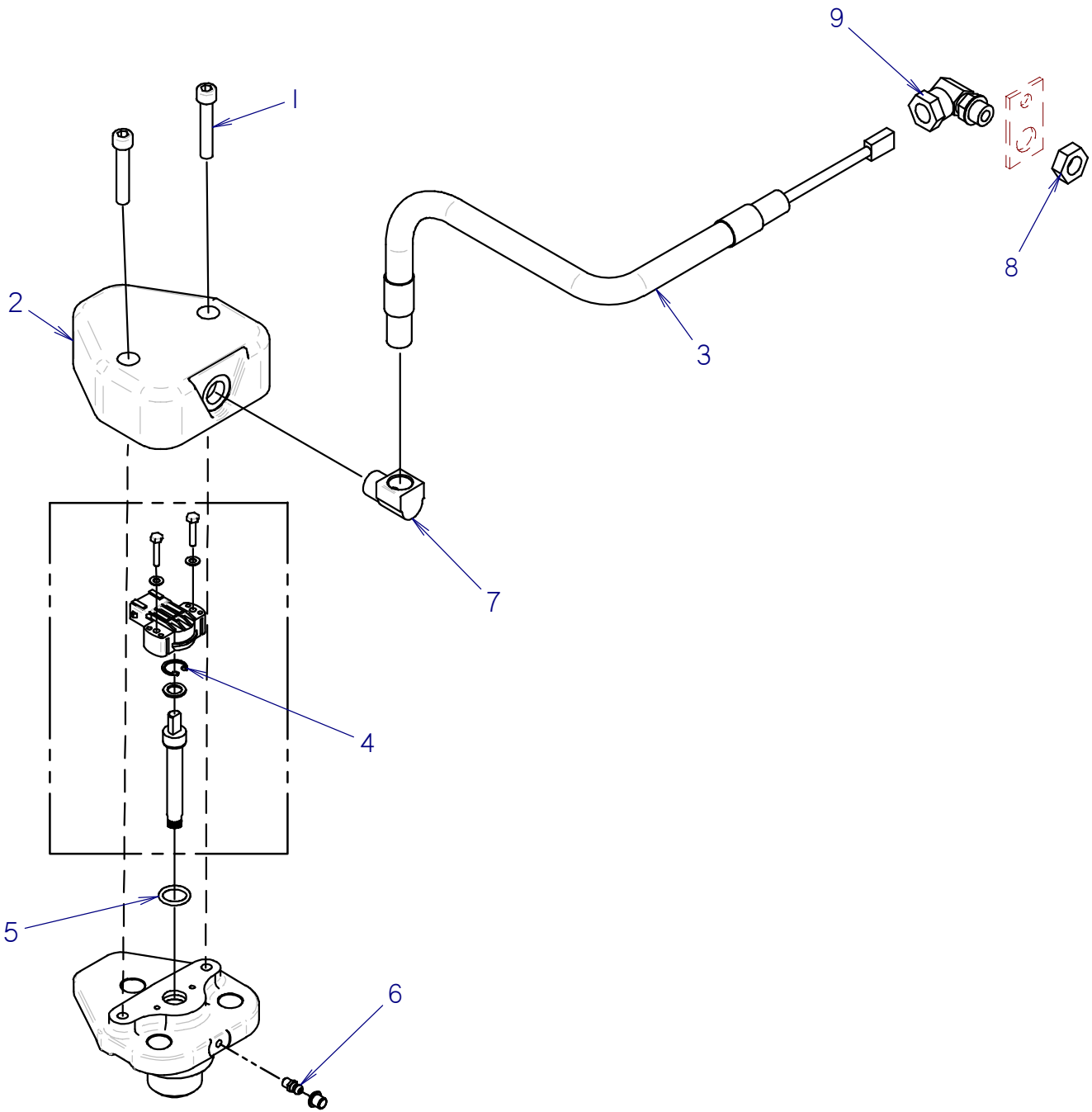
| REF NO. | PART NUMBER | QTY | DESCRIPTION           | REMARKS |
|---------|-------------|-----|-----------------------|---------|
| 1.      | 499-508     | 2   | SCREW (M8 X 45)       |         |
| 2.      | 499-509     | 1   | COVER                 |         |
| 3.      | 499-510     | 1   | KIT PONTENTIOMETER    |         |
| 4.      | 499-511     | 1   | REAR STEER KIT        |         |
| 5.      | 499-512     | 1   | O-RING                |         |
| 6.      | 115-065     | 1   | ZERK, METRIC (M6 X 1) |         |

## FOOTNOTES

# AXLE-POTENTIOMETER STEERABLE

BEGINS WITH S/N RT75HV5000013

ENDS WITH S/N CMWRT75MA70000059 & CMWRT75HV0000062



**AXLE-POTENTIOMETER STEERABLE**  
**BEGINS WITH S/N RT75HV50000013**  
**ENDS WITH S/N CMWRT75MA70000059 & CMWRT75HV0000062**

| REF NO. | PART NUMBER | QTY | DESCRIPTION               | REMARKS                       |
|---------|-------------|-----|---------------------------|-------------------------------|
|         | 300-1269    |     | STEER SENSOR KIT (RT75)   | INCLUDES ITEMS 2, 3, 7, 8 & 9 |
| 1       | 499-508     | 2   | SCREW (M8-1.25 X 45mm)    |                               |
| 2       | 499-509     | 1   | COVER                     |                               |
| 3       | 499-510     | 1   | KIT POTENTIOMETER         |                               |
| 4       | 499-511     | 1   | REAR STEER KIT            | INCLUDES ALL ITEMS IN BOX     |
| 5       | 499-512     | 1   | O-RING                    |                               |
| 6       | 115-065     | 1   | ZERK (M6 X 1)             |                               |
| 7       | 156-260     | 1   | STREET ELBOW (06N-06NF90) |                               |
| 8       | 105-431     | 1   | JAM NUT (9/16-NF)         |                               |
| 9       | 155-103     | 1   | UNION (06S-06NFX90)       |                               |

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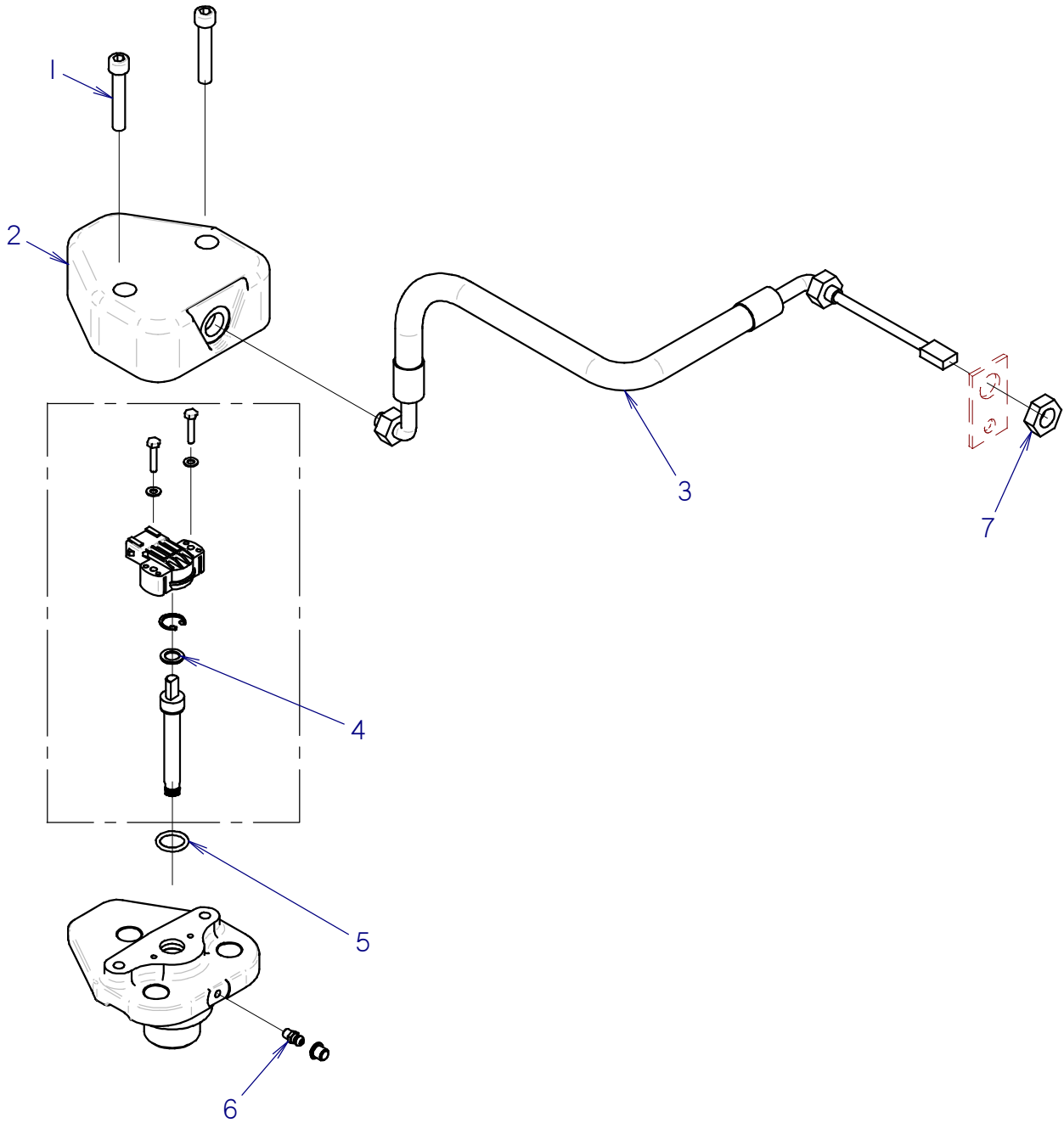
FOOTNOTES:

NOTE:

# AXLE-POTENTIOMETER STEERABLE (RT75)

BEGINS WITH S/N: CMWRT75MC70000060

BEGINS WITH S/N: CMWRT75HV70000063



## AXLE-POTENTIOMETER STEERABLE (RT75)

BEGINS WITH S/N: CMWRT75MC70000060

BEGINS WITH S/N: CMWRT75HV70000063

REF PART

NO. NUMBER QTY DESCRIPTION REMARKS

| REF NO. | PART NUMBER | QTY | DESCRIPTION            | REMARKS                   |
|---------|-------------|-----|------------------------|---------------------------|
|         | 215-1084    |     | STEER SENSOR KIT       | INCLUDES ITEMS 2, 3 & 7   |
| 1       | 499-508     | 2   | SCREW (M8-1.25 X 45mm) |                           |
| 2       | 499-509     | 1   | COVER                  |                           |
| 3       | 300-4837    | 1   | KIT POTENTIOMETER      |                           |
| 4       | 499-511     | 1   | REAR STEER KIT         | INCLUDES ALL ITEMS IN BOX |
| 5       | 499-512     | 1   | O-RING                 |                           |
| 6       | 115-065     | 1   | ZERK (M6 X 1)          |                           |
| 7       | 105-431     | 1   | JAM NUT (9/16-NF)      |                           |

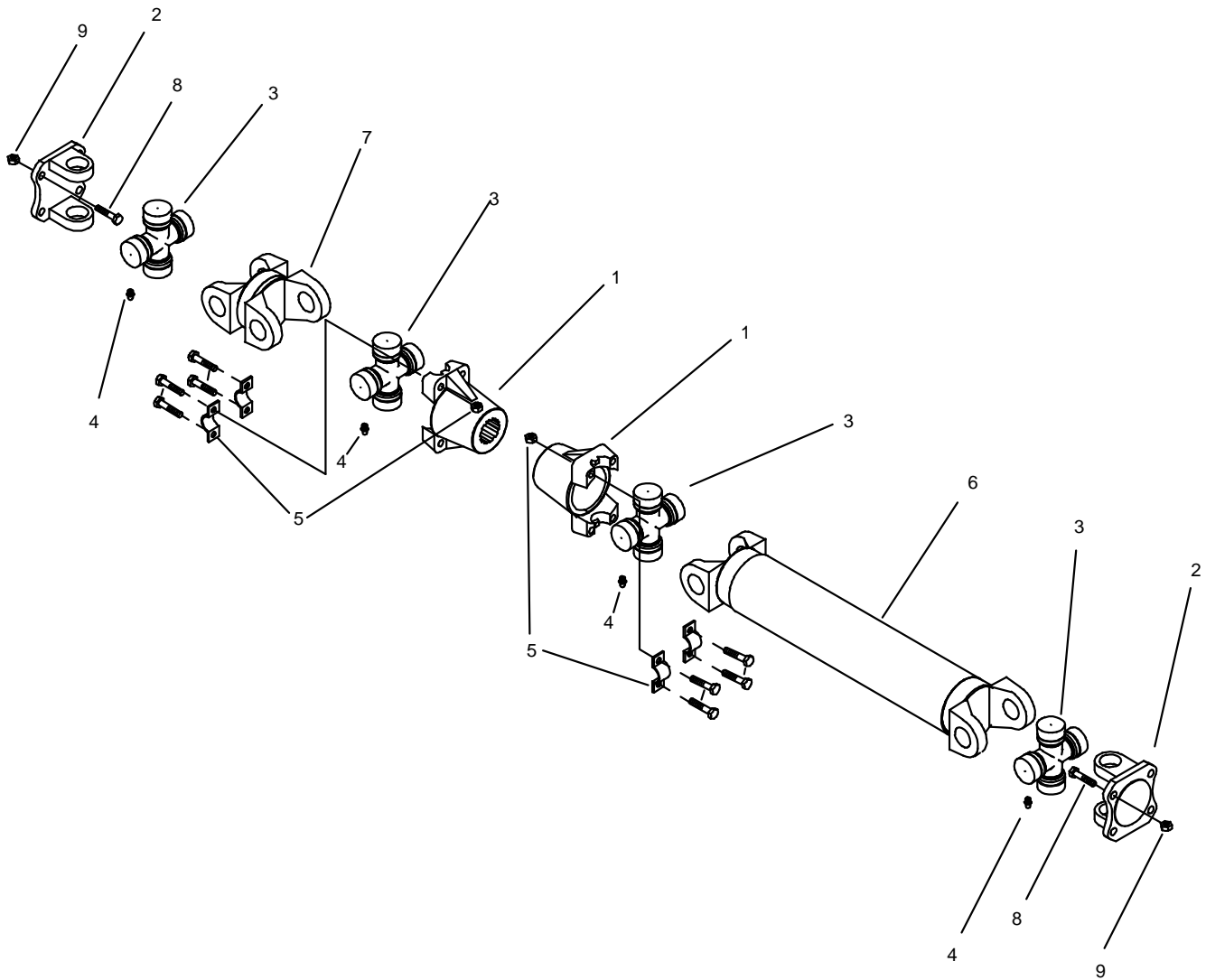
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FOOTNOTES:

NOTE:



## HYDROSTATIC DRIVE LINE



# HYDROSTATIC DRIVE LINE

| REF NO. | PART NUMBER | QTY | DESCRIPTION                 | REMARKS                       |
|---------|-------------|-----|-----------------------------|-------------------------------|
| 1.      | 182-199     | 2   | 410 SERIES HUB MACHINING    |                               |
| 2.      | 182-173     | 2   | FLANGE YOKE                 |                               |
| 3.      | 182-145     | 4   | CROSS/BEARING KIT (1-3/16") |                               |
| 4.      | 115-003     | 4   | ZERK (1/4-NF, STR)          |                               |
| 5.      | 182-204     | 4   | U BOLT KIT                  |                               |
| 6.      | 166-234     | 1   | FRONT DRIVE SHAFT           |                               |
| 7.      | 166-231     | 1   | REAR DRIVE SHAFT            |                               |
| 8.      | 105-119     | 8   | BOLT (7/16 NF X 1-1/2 ")    |                               |
| 9.      | 105-120     | 8   | NUT (7/16 NF)               | USE LOCTITE 242 OR EQUIVALENT |

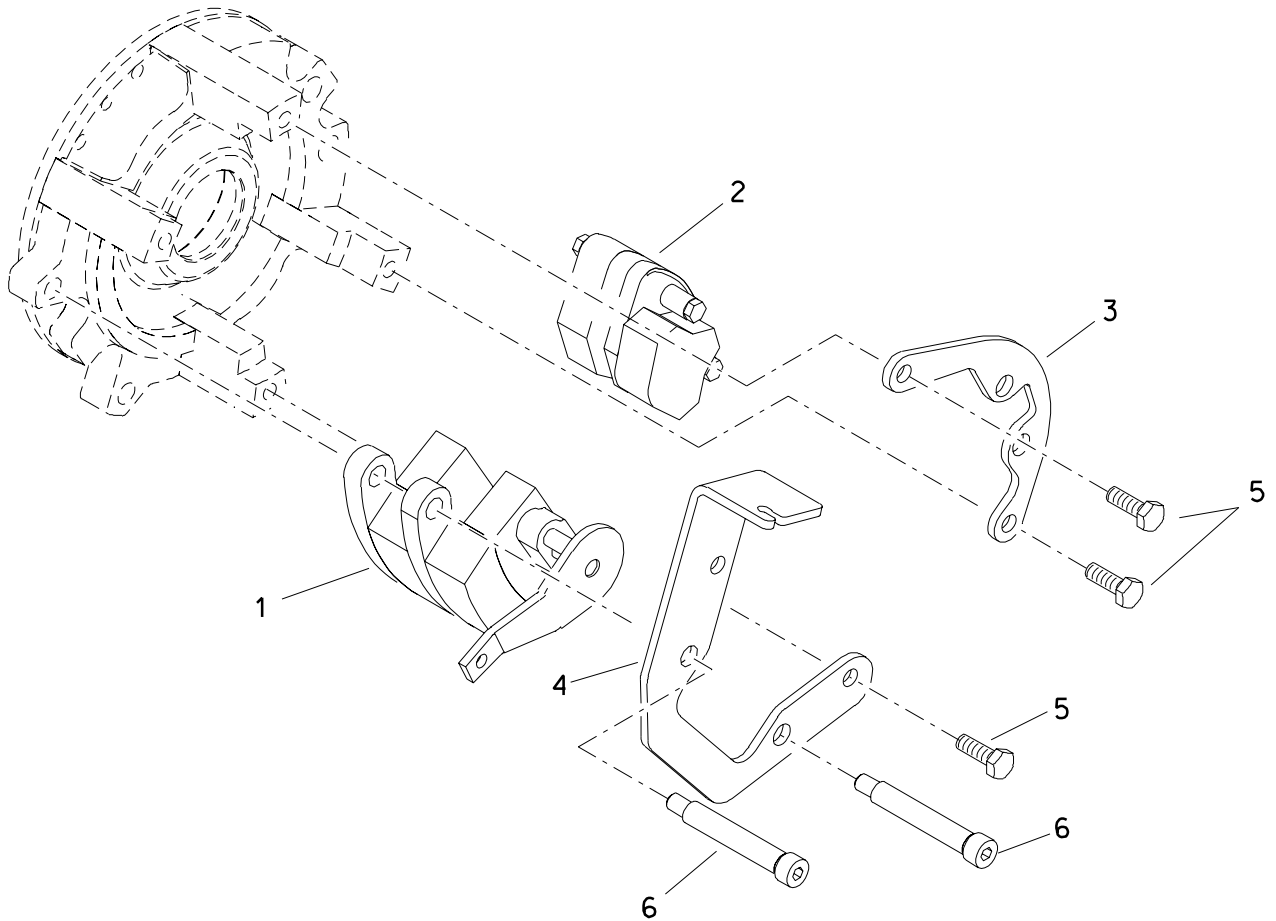
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FOOTNOTES:

NOTE:

# BRAKE CALIPERS

## HYDROSTATIC



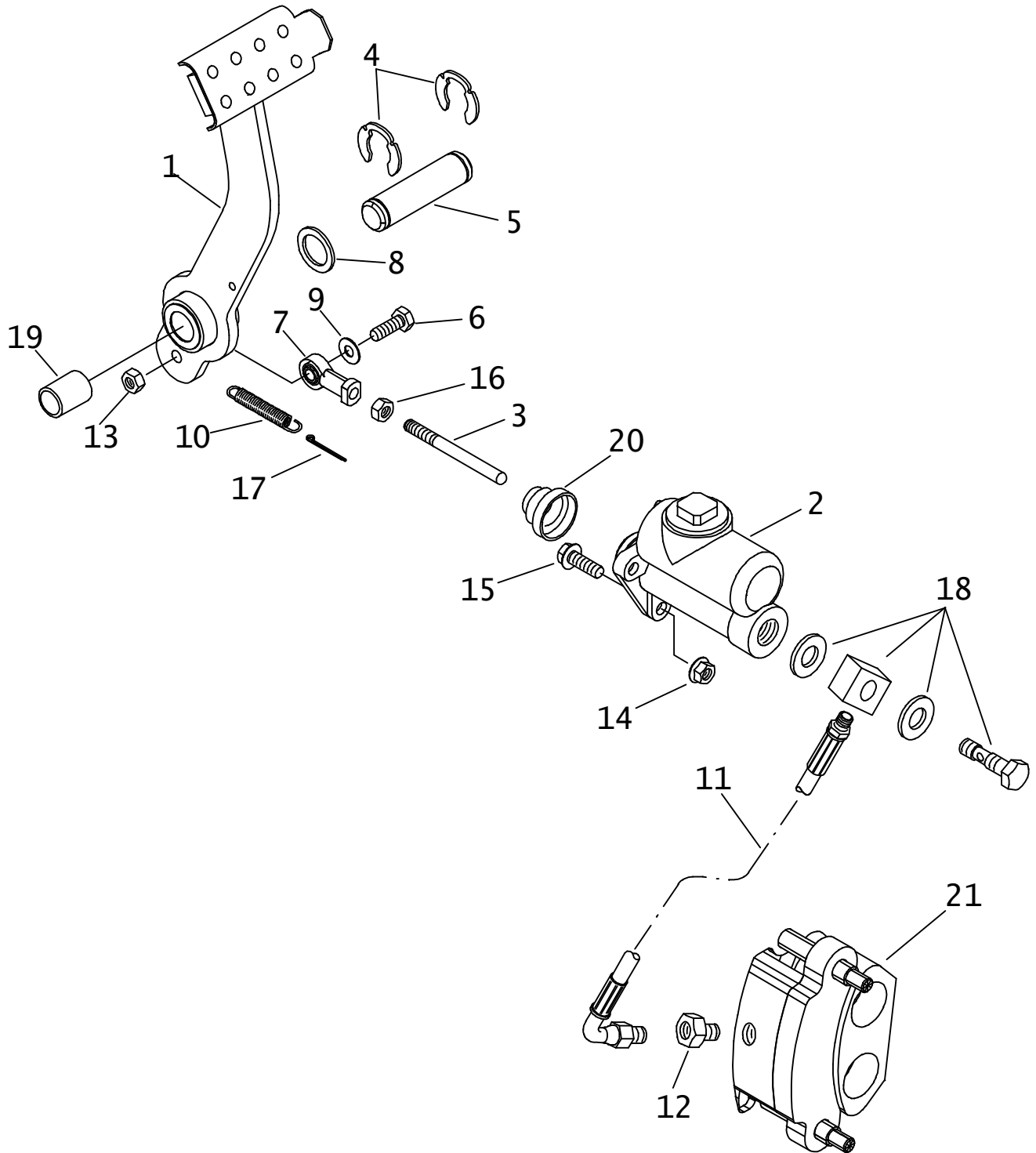
# BRAKE CALIPERS

## HYDROSTATIC

| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS                     |
|---------|-------------|-----|----------------------------------|-----------------------------|
| 1.      | 160-773     | 1   | BRAKE CALIPER                    | PARKING                     |
|         | 115-600     | 1   | EXTENSION SPRING                 |                             |
|         | 505-073     | 1   | FRICTION PAD KIT                 | PAIR                        |
| 2.      | 163-088     | 1   | BRAKE CALIPER                    | SERVICE - INCLUDES HARDWARE |
|         | 160-665     | 2   | BRAKE BLEEDER VALVE              |                             |
|         | 505-068     | 2   | PAD PIN                          |                             |
|         | 505-069     | 2   | CUP SPRING                       |                             |
|         | 505-095     | 1   | BRAKE PAD                        | PAIR                        |
|         | 505-080     | 1   | CALIPER PISTON                   |                             |
|         | 505-081     | 1   | DUST BOOT                        |                             |
|         | 505-082     | 1   | SQUARE RING (223 D70)            |                             |
| 3.      | 309-264     | 1   | SERVICE BRAKE BRACKET            |                             |
| 4.      | 309-382     | 1   | BRAKE BRACKET                    |                             |
| 5.      | 106-559     | 4   | SCREW (M12-1.75 X 25mm)          |                             |
| 6.      | 107-498     | 2   | SHLD_BLT (M16 X 120mm, M12-1.75) |                             |

FOOTNOTES

# SERVICE BRAKE SYSTEM



# SERVICE BRAKE SYSTEM

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                     |
|---------|-------------|-----|--------------------------------|-----------------------------|
| 1       | 306-996     | 1   | BRAKE PEDAL                    |                             |
| 2       | 163-219     | 1   | MASTER CYLINDER                |                             |
|         | 191-293     |     | SEAL REPAIR KIT                |                             |
|         | 505-026     |     | MASTER CYL CAP (1-5/8 SAE)     | COMES WITH GASKET           |
|         | 165-724     |     | CAP GASKET                     |                             |
| 3       | 361-887     | 1   | MASTER CYLINDER ROD            |                             |
| 4       | 115-484     | 2   | EXTERNAL SNAP RING (1.000")    |                             |
| 5       | 178-383     | 1   | PIN (1.000" X 3.900")          |                             |
| 6       | 107-242     | 1   | LK BOLT (3/8-NC X1-1/2", NLK)  |                             |
| 7       | 110-102     | 1   | ROD END (3/8-NF, FM)           |                             |
| 8       | 110-078     | 1   | MACH BUSHING (1.000", 14GA)    |                             |
| 9       | 106-415     | 1   | WASHER (.406")                 |                             |
| 10      | 115-613     | 1   | EXTENSION SPRING               |                             |
| 11      | 149-861     | 1   | BRAKE HOSE (3/16T X 19")       |                             |
| 12      | 156-282     | 1   | FLARE FITTING (03TM-04TFM)     |                             |
| 13      | 105-053     | 1   | NUT (3/8-NC)                   |                             |
| 14      | 106-266     | 3   | FLG NUT (M10-1.50)             |                             |
| 15      | 107-002     | 3   | FLG LK SCREW (M10-1.50 X 30mm) |                             |
| 16      | 105-093     | 1   | NUT (3/8-NF)                   |                             |
| 17      | 105-504     | 1   | COTTER PIN (.187 X .750)       |                             |
| 18      | 149-863     | 1   | BANJO S/O CONNECTOR (08-05T)   | SEE FOOTNOTE I              |
| 19      | 125-407     | 1   | BRONZE BUSHING (1.000")        |                             |
| 20      | 115-329     | 1   | DUST COVER                     |                             |
| 21      | 163-088     |     | BRAKE CALIPER                  | USED ON HYDROSTAT MACHINES  |
|         | 505-095     |     | BRAKE PAD (PAIR)               |                             |
|         | 160-534     |     | BRAKE CALIPER                  | USED ON POWERSHIFT MACHINES |
|         | 505-083     |     | BRAKE PAD (PAIR)               |                             |

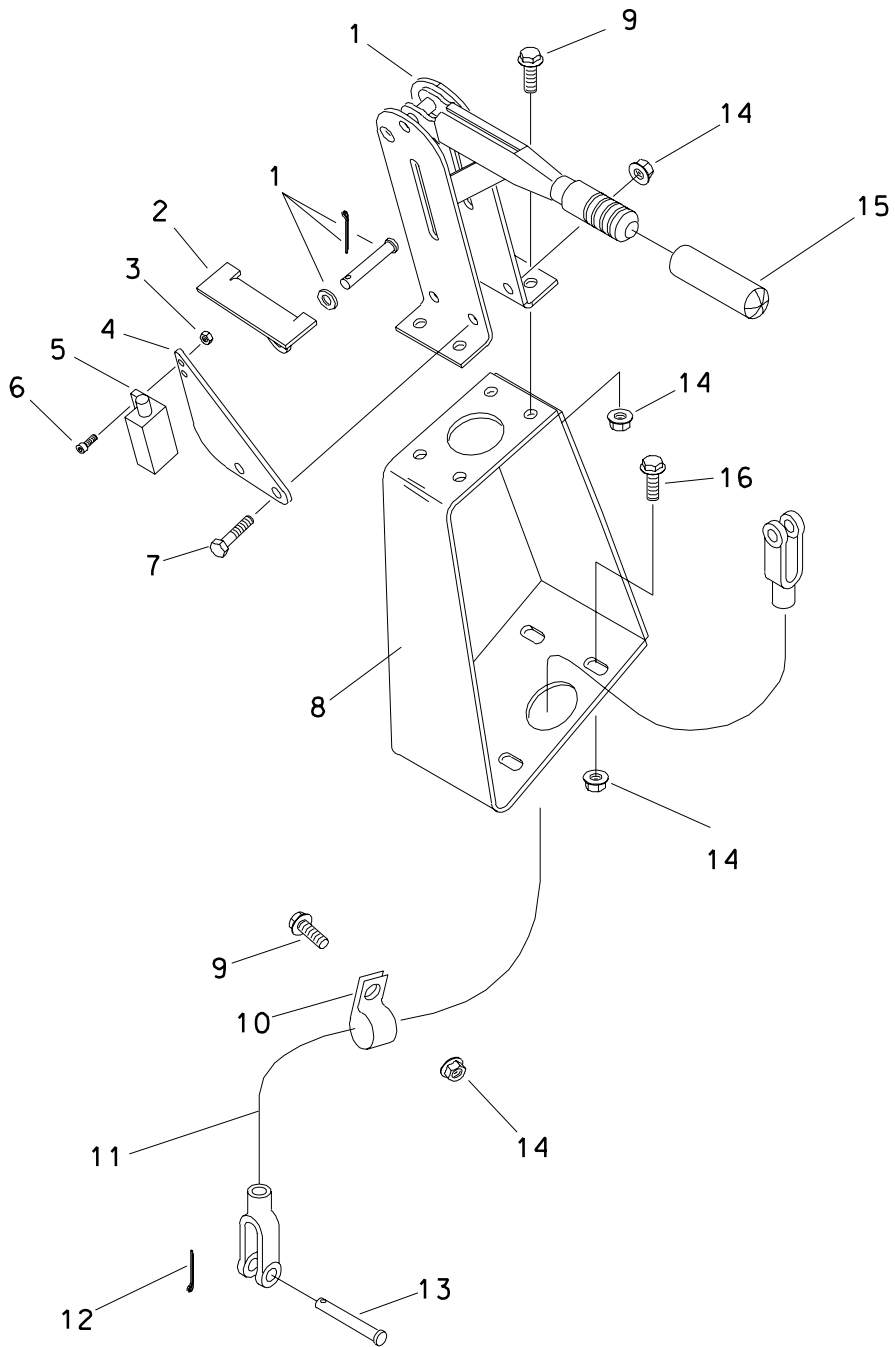
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FOOTNOTES:

I. BANJO CONNECTOR (REF #18) COMES WITH 2X 502-178 (REF #22)

NOTE:

## PARK BRAKE



## PARK BRAKE

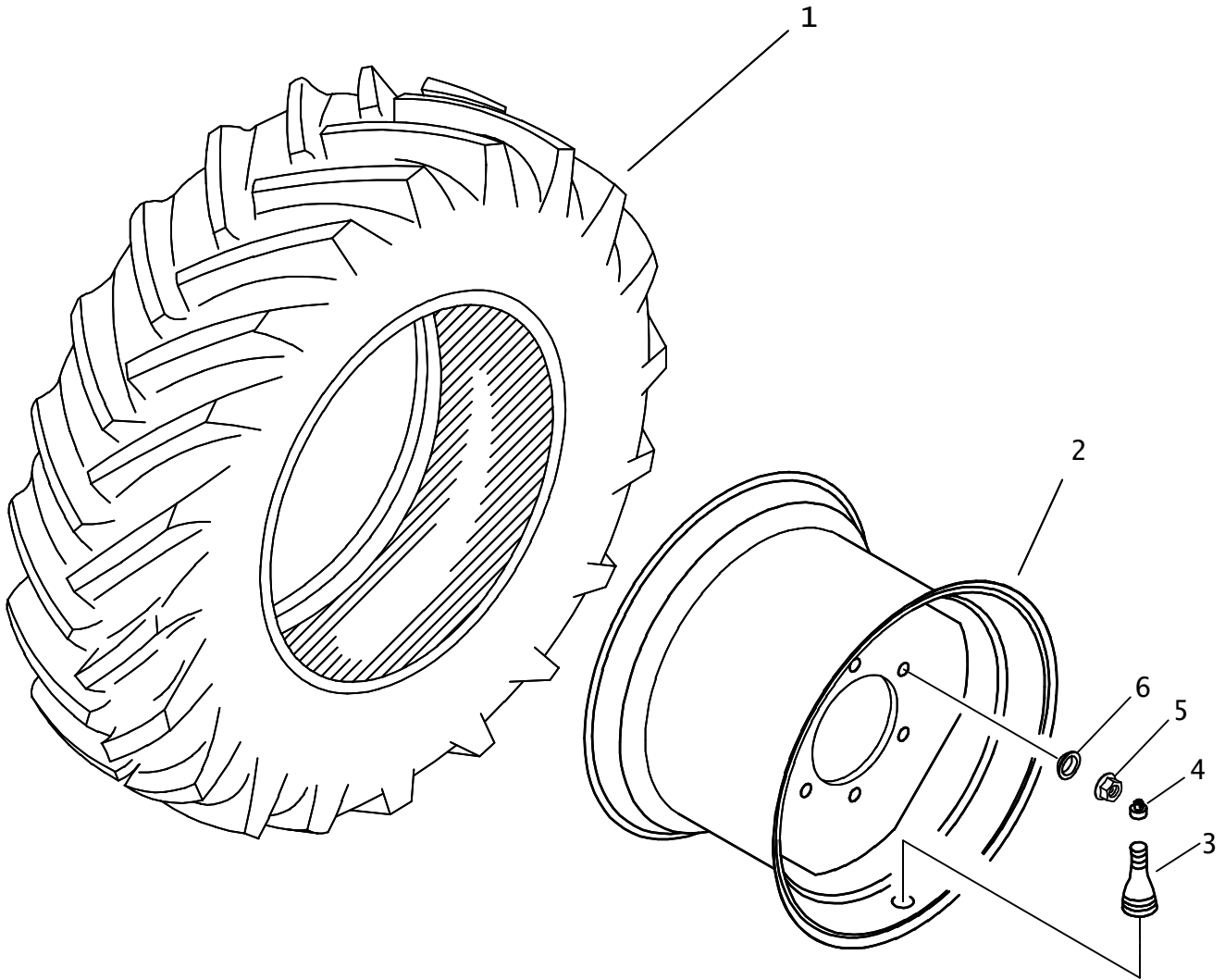
| REF NO. | PART NUMBER | QTY | DESCRIPTION                   | REMARKS             |
|---------|-------------|-----|-------------------------------|---------------------|
| 1.      | 160-744     | 1   | PARKING BRAKE LEVER           |                     |
| 2.      | 309-413     | 1   | ACTUATOR BRACKET              |                     |
| 3.      | 105-680     | 2   | NUT (M4, W/LK WSHR)           |                     |
| 4.      | 309-412     | 1   | SWITCH BRACKET                |                     |
| 5.      | 217-705     | 1   | PLUNGER SWITCH                |                     |
| 6.      | 106-715     | 2   | SCREW (M4-0.70 X 12mm, SOC)   |                     |
| 7.      | 106-328     | 2   | SCREW (M8-1.25 X 40mm)        |                     |
| 8.      | 309-383     | 1   | PARK BRAKE BRACKET            |                     |
| 9.      | 106-991     | 5   | FLG LK SCREW (M8-1.25 X 20mm) |                     |
| 10.     | 110-373     | 1   | BOLT ON CLAMP (13/16")        |                     |
| 11.     | 194-183     | 1   | BRAKE CABLE                   | USED ON POWER SHIFT |
|         | 194-184     | 1   | BRAKE CABLE                   | USED ON HYDROSTATIC |
| 12.     | 105-508     | 1   | COTTER PIN (3/32" X 1")       |                     |
| 13.     | 110-053     | 1   | CLEVIS PIN (3/8" X 1.078")    |                     |
| 14.     | 106-386     | 11  | FLG LOCKNUT (M8-1.25)         |                     |
| 15.     | 110-469     | 1   | GRIP (7/8", ORANGE)           |                     |
| 16.     | 106-162     | 4   | FLG SCREW (M8-1.25 X 20mm)    | SEE FOOTNOTE 1      |

## FOOTNOTES

1. USE LOCTITE 242 (BLUE) WHEN INSTALLING BOLTS.



**TIRE - WHEEL**  
31 X 15.5-15 E10TT)



# TIRE - WHEEL 31 X 15.5-15 E10TT)

| REF NO. | PART NUMBER | QTY | DESCRIPTION                        | REMARKS                |
|---------|-------------|-----|------------------------------------|------------------------|
|         | 205-451     | 4   | TIRE & WHEEL (31 X 15.5-15, E10TT) | INCL. REF. #'S 1, 2, 3 |
| 1.      | 205-126     | 4   | TIRE (31 X 15.5-15, E10TT)         |                        |
| 2.      | 205-1153    | 4   | WHEEL (15" X 15.5", W/8)           |                        |
| 3.      | 205-168     | 4   | VALVE STEM (.625")                 |                        |
| 4.      | 205-165     | 4   | VALVE CAP (.305"-32)               |                        |
| 5.      | 499-521     | -   | LUG NUT (M20-1.50)                 |                        |
| 6.      | 108-186     | -   | CONICAL WASHER (2.5 X 34)          |                        |

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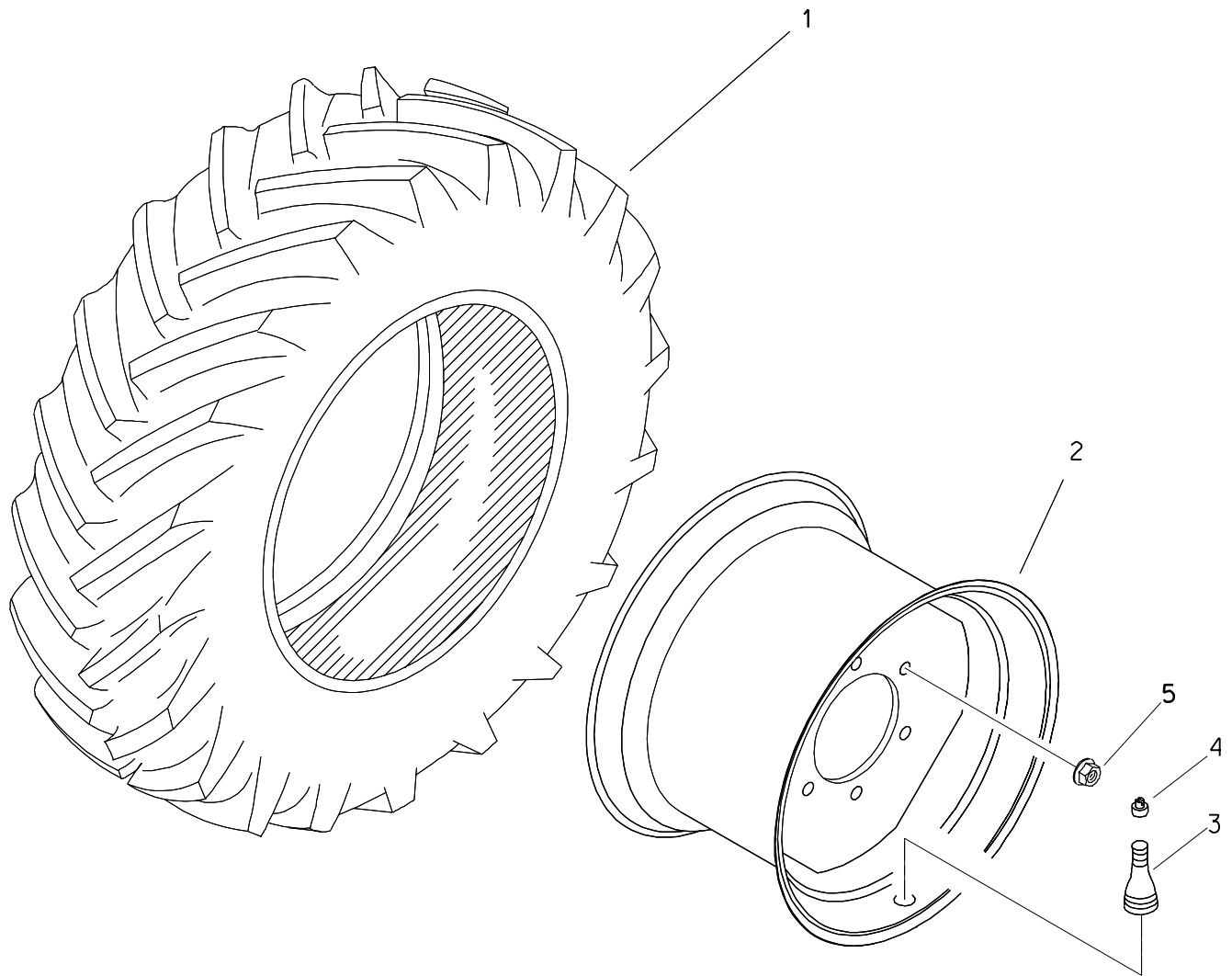
FOOTNOTES:

NOTE:

REFER TO O-RING CHART (800-301) FOR REPLACEMENT OF O-RINGS.

# TIRE & WHEEL

(35 x 19.00-16.1)



# TIRE & WHEEL (35 x 19.00-16.1)

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                |
|---------|-------------|-----|--------------------------------|------------------------|
|         | 205-377     | 4   | TIRE & WHEEL (35 X 19.00-16.1) | INCL. REF. #'S 1, 2, 3 |
| 1.      | 205-184     | 4   | TIRE (35 X 19.00-16.1)         |                        |
| 2.      | 205-373     | 4   | WHEEL (16.1 X 16 WD W/8)       |                        |
| 3.      | 205-168     | 4   | VALVE STEM (.625")             |                        |
| 4.      | 205-165     | 4   | VALVE CAP (.305"-32)           |                        |
| 5.      | 499-521     | -   | LUG NUT (M20-1.50)             |                        |

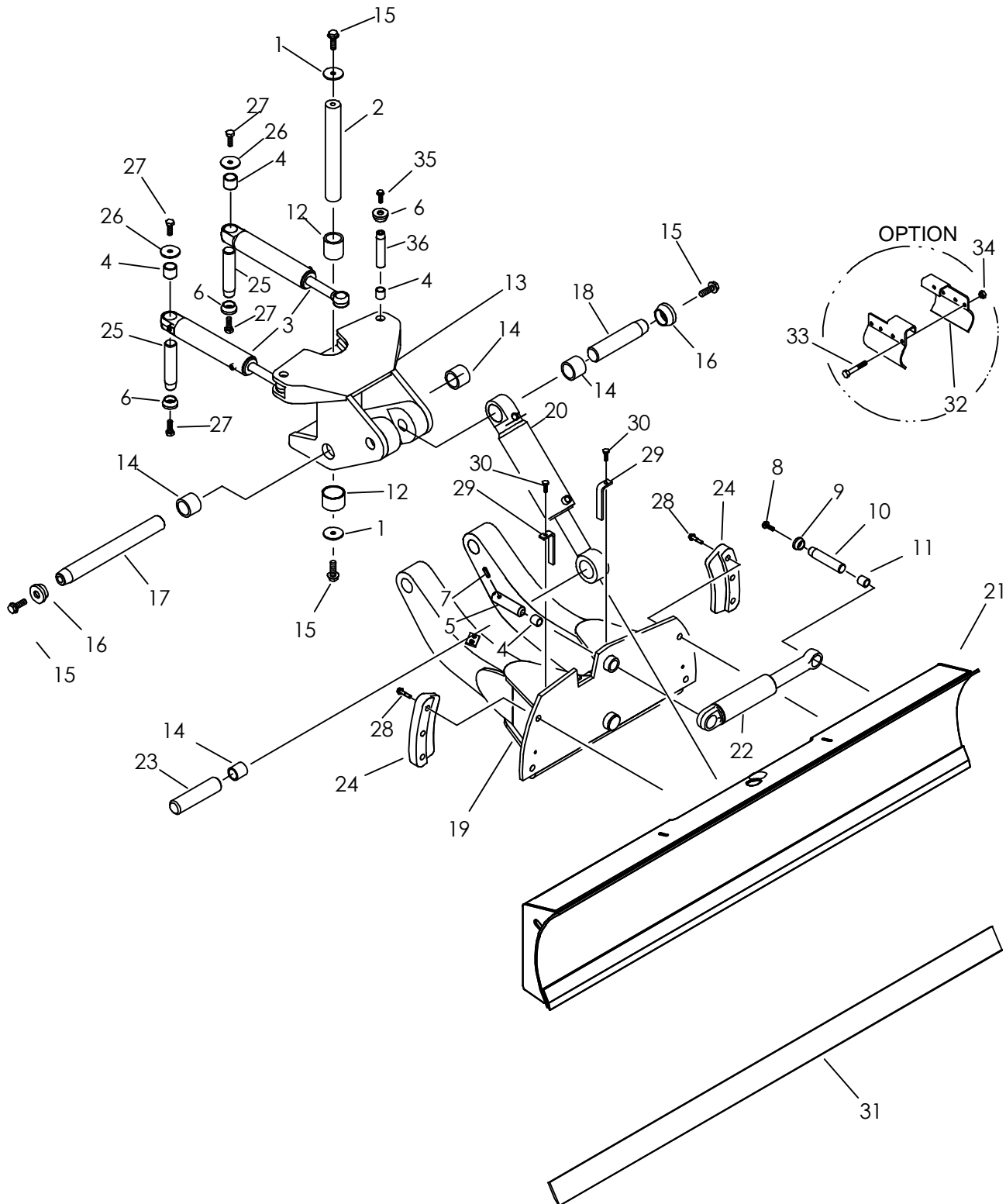
FOOTNOTES



# **FRAME COMPONENTS**

# BACKFILL BLADE ASSEMBLY

RT70, 75



# BACKFILL BLADE ASSEMBLY

## RT70, 75

| REF NO. | PART NUMBER | QTY | DESCRIPTION                         | REMARKS                       |
|---------|-------------|-----|-------------------------------------|-------------------------------|
| 1.      | 105-416     | 2   | WASHER (5/8")                       |                               |
| 2.      | 178-572     | 1   | PIN (1.75" X 12.75")                |                               |
| 3.      | 151-057     | -   | CYL (2.0" X 1.25" X 8.0")           |                               |
| 4.      | 125-771     | 5   | COMPOSITION BUSHING (1.25")         |                               |
| 5.      | 300-7763    | 1   | PIN                                 |                               |
| 6.      | 181-982     | 4   | TAPERED INSERT (1.25")              |                               |
| 7.      | 107-434     | 1   | ROLL PIN 3/8 X 1-5/8                |                               |
| 8.      | 106-164     | 1   | FLG LK SCREW (M10-1.50 X 30mm)      |                               |
| 9.      | 181-981     | 1   | TAPERED INSERT (1")                 |                               |
| 10.     | 183-767     | 1   | TAPERED PIN (25.4mm X 60mm)         |                               |
| 11.     | 125-770     | 1   | COMPOSITION BUSHING (1")            |                               |
| 12.     | 125-822     | 2   | COMPOSITION BUSHING (1.750")        |                               |
| 13.     | 331-475     | 1   | PIVOT                               |                               |
| 14.     | 125-773     | 4   | COMPOSITION BUSHING (1.750")        |                               |
| 15.     | 106-470     | 4   | FLG SCREW (M16-2.00 X 40mm)         |                               |
| 16.     | 181-975     | 2   | TAPERED INSERT (1.75")              |                               |
| 17.     | 178-584     | 1   | TAPERED PIN (1.750" X 13.90")       |                               |
| 18.     | 183-768     | 1   | TAPERED PIN (44.4mm X 205mm)        |                               |
| 19.     | 308-921     | 1   | LIFT ARM                            |                               |
| 20.     | 151-070     | -   | CYL (3" X 1.75" X 8")               |                               |
| 21.     | 300-4338    | 1   | BACKFILL BLADE ASSEMBLY (72")       | STANDARD - SEE FOOTNOTE 1 & 2 |
|         | 300-4321    | 1   | BACKFILL BLADE ASSEMBLY (80")       | OPTIONAL                      |
| 22.     | 151-202     | -   | CYL (2" X 1" X 3.38")               |                               |
| 23.     | 178-532     | 1   | PIN (1.750" X 7.000")               |                               |
| 24.     | 314-104     | 2   | TILT BLADE RETAINER                 |                               |
| 25.     | 178-394     | 2   | TAPERED PIN (1.250" X 4.250")       |                               |
| 26.     | 105-475     | 2   | WASHER (1/2")                       |                               |
| 27.     | 105-830     | 4   | FLG LK BOLT (1/2-NC X 1-1/4")       |                               |
| 28.     | 106-012     | 6   | FLANGE BOLT (5/8-NC X 3")           | SEE FOOTNOTE 2                |
| 29.     | 309-138     | 2   | RETAINER                            |                               |
| 30.     | 106-383     | 2   | FLG LK SCREW (M10-1.50 X 30mm)      |                               |
| 31.     | 314-087     | 1   | 72" CUTTING EDGE                    |                               |
| 32.     | 322-360     | 2   | FITTING GUARD (3.0" CYL)            | OPTION                        |
| 33.     | 106-330     | 4   | SCREW (M8-1.25 X 70mm)              |                               |
| 34.     | 106-386     | 4   | FLG LOCKNUT (M8-1.25)               |                               |
| 35.     | 106-632     | 2   | FLG LK SCREW (M12-1.75 X 35mm, SER) |                               |
| 36.     | 179-553     | 2   | TAPERED PIN (1.250" X 2.560")       |                               |

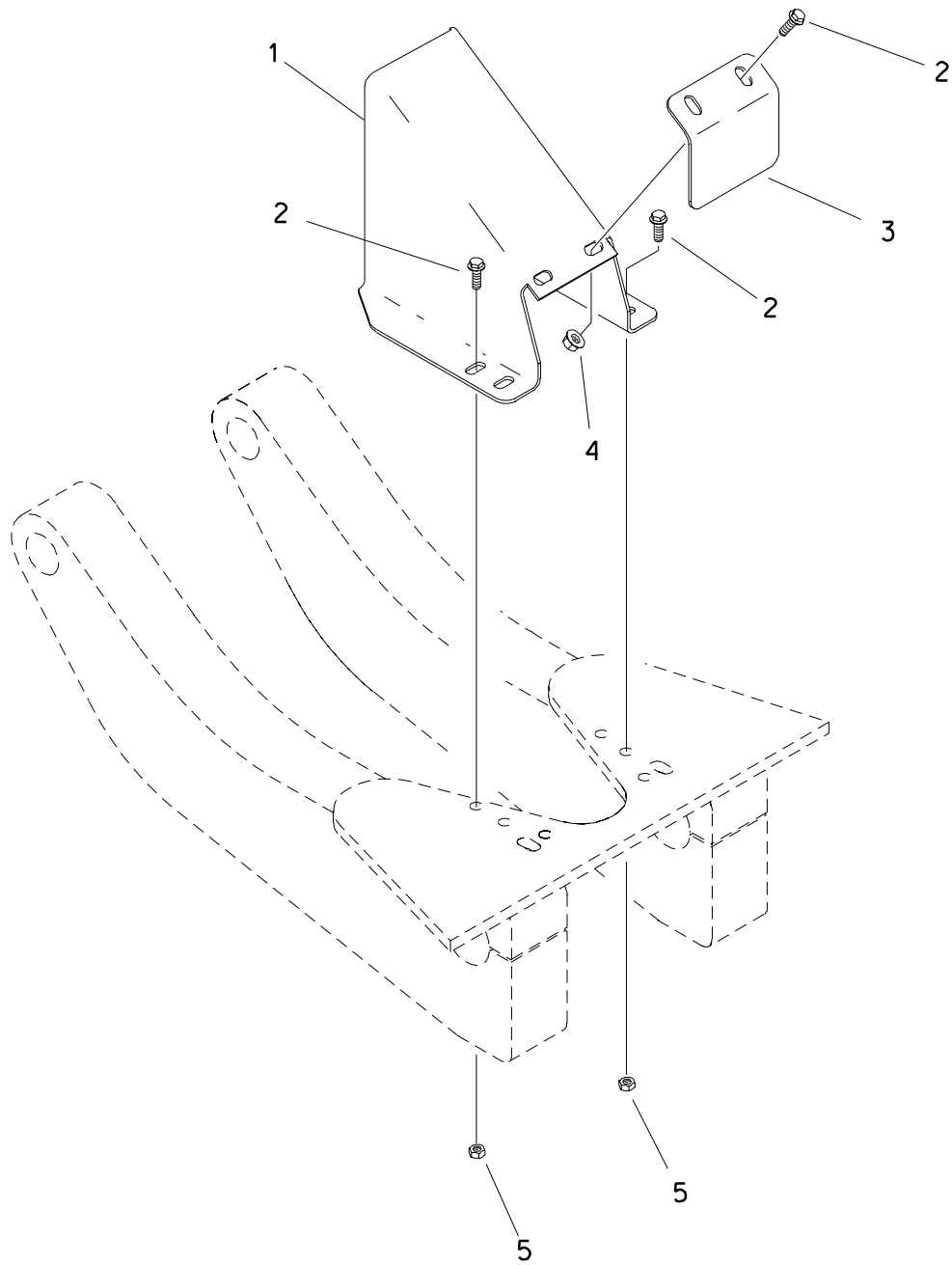
### FOOTNOTES:

- 72" BACKFILL BLADE 331-747 IS SUPERSEDED BY 300-4338. BEGINS WITH S/N\_\_\_\_\_.
- 80" OPTIONAL BACKFILL BLADE 331-749 IS SUPERSEDED BY 300-4321. BEGINS WITH S/N\_\_\_\_\_.
- USE OF EITHER 300-4321 OR 300-4338 REQUIRES 6X OF P/N 106-012 BOLTS, (ITEM REF. #28).

### NOTE:



# BFB CYLINDER GUARD



# BFB CYLINDER GUARD

| REF NO. | PART NUMBER | QTY | DESCRIPTION                 | REMARKS                                   |
|---------|-------------|-----|-----------------------------|---|
|         | 191-285     |     | CYLINDER GUARD KIT          | INCLUDES REF NUMBERS 1-5 & SEE FOOTNOTE 1 |
| 1.      | 319-787     | 1   | CYLINDER GUARD              |   |
| 2.      | 106-724     | 6   | FLG SCREW (M10-1.50 X 25mm) |   |
| 3.      | 319-789     | 1   | COVER                       |   |
| 4.      | 106-387     | 2   | FLG LOCKNUT (M10-1.50)      |   |
| 5.      | 106-758     | 4   | LOCKNUT (M10-1.50)          |   |

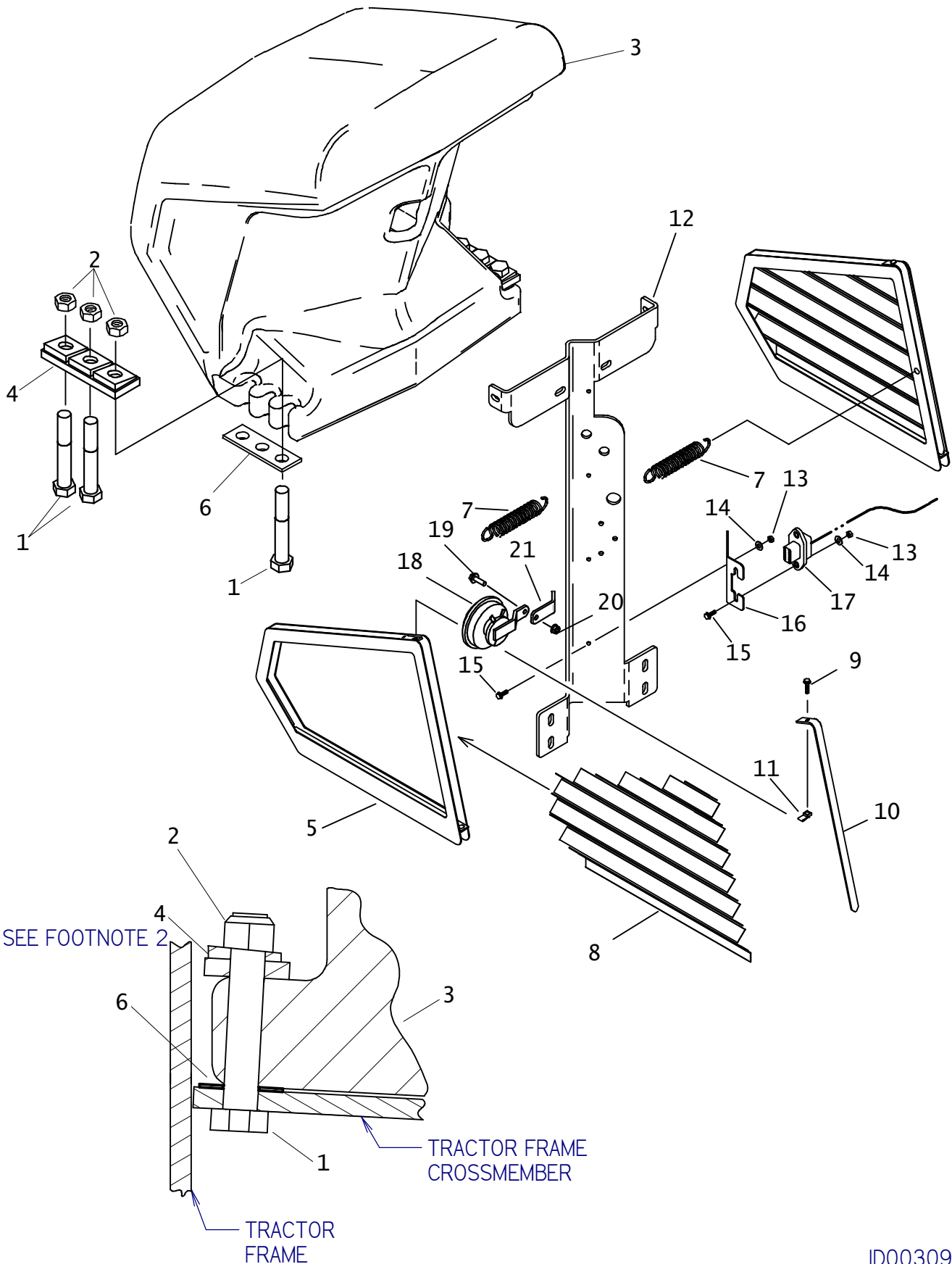
**NOTE**

REFER TO INSTALLATION INSTRUCTIONS 051-336 FOR INSTALLING BFB CYLINDER GUARD.

**FOOTNOTES**

1. THIS OPTION CANNOT BE USED WITH AUX. MANIFOLD KIT 191-272 BECAUSE OF INTERFERENCE.

# COUNTERWEIGHT/GRILLE (RT SERIES) ENDS WITH SERIAL NUMBER (SEE NOTES)



## COUNTERWEIGHT/GRILLE (RT SERIES)

ENDS WITH SERIAL NUMBER (SEE NOTES)

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS               |
|---------|-------------|-----|---------------------------------|-----------------------|
| 1.      | 106-633     | 6   | SCREW (M20-2.5 X 130mm)         | SEE FOOTNOTE 1, 3 & 4 |
| 2.      | 106-665     | 6   | LOCKNUT (M20-2.50, 10.9)        | SEE FOOTNOTE 4        |
| 3.      | 375-370     | 1   | CASTING (FRAME NOSE)            | SEE FOOTNOTE 3        |
| 4.      | 327-389     | 2   | CLAMP BAR                       | SEE FOOTNOTE 2 & 4    |
| 5.      | 313-825     | 2   | GRILLE                          | SEE FOOTNOTE 4        |
| 6.      | 118-400     | 2   | SHIM (.075")                    |                       |
| 7.      | 117-386     | 2   | EXTENSION SPRING                |                       |
| 8.      | 308-723     | 2   | SCREEN                          |                       |
| 9.      | 106-987     | 2   | FLG LK SCREW (M6-1.00 X 16mm)   |                       |
| 10.     | 178-873     | 2   | SCREEN RETAINER                 |                       |
| 11.     | 106-574     | 2   | CLIP NUT(M6-1.00)               |                       |
| 12.     | 307-909     | -   | FRONT HOOD SUPPORT              |                       |
| 13.     | 106-237     | 3   | LOCKNUT (M6-1.00, PRV TRQ, NLK) |                       |
| 14.     | 105-284     | 3   | WASHER (3/16")                  |                       |
| 15.     | 106-161     | 3   | FLG SCREW (M6-1.00 X 20mm)      |                       |
| 16.     | 318-726     | 1   | PLATE                           |                       |
| 17.     | 217-267     | 1   | HYDROSTAT FRAME HARNESS         |                       |
|         | 217-268     | 1   | POWERSHIFT FRAME HARNESS        |                       |
| 18.     | 306-609     | 1   | HIGH FREQUENCY HORN             | OBSOLETE              |
|         | 192-006     | 1   | HIGH FREQUENCY HORN             |                       |
|         | 192-005     | 1   | HORN BRACKET                    |                       |
| 19.     | 106-992     | 2   | FLG LK SCREW (M8-1.25 X 25MM)   |                       |
| 20.     | 106-386     | 2   | FLG LOCKNUT (M8-1.25)           |                       |
| 21.     | 323-673     | 1   | HORN BRACKET                    |                       |

NOT SHOWN:

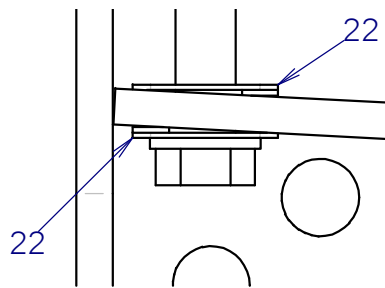
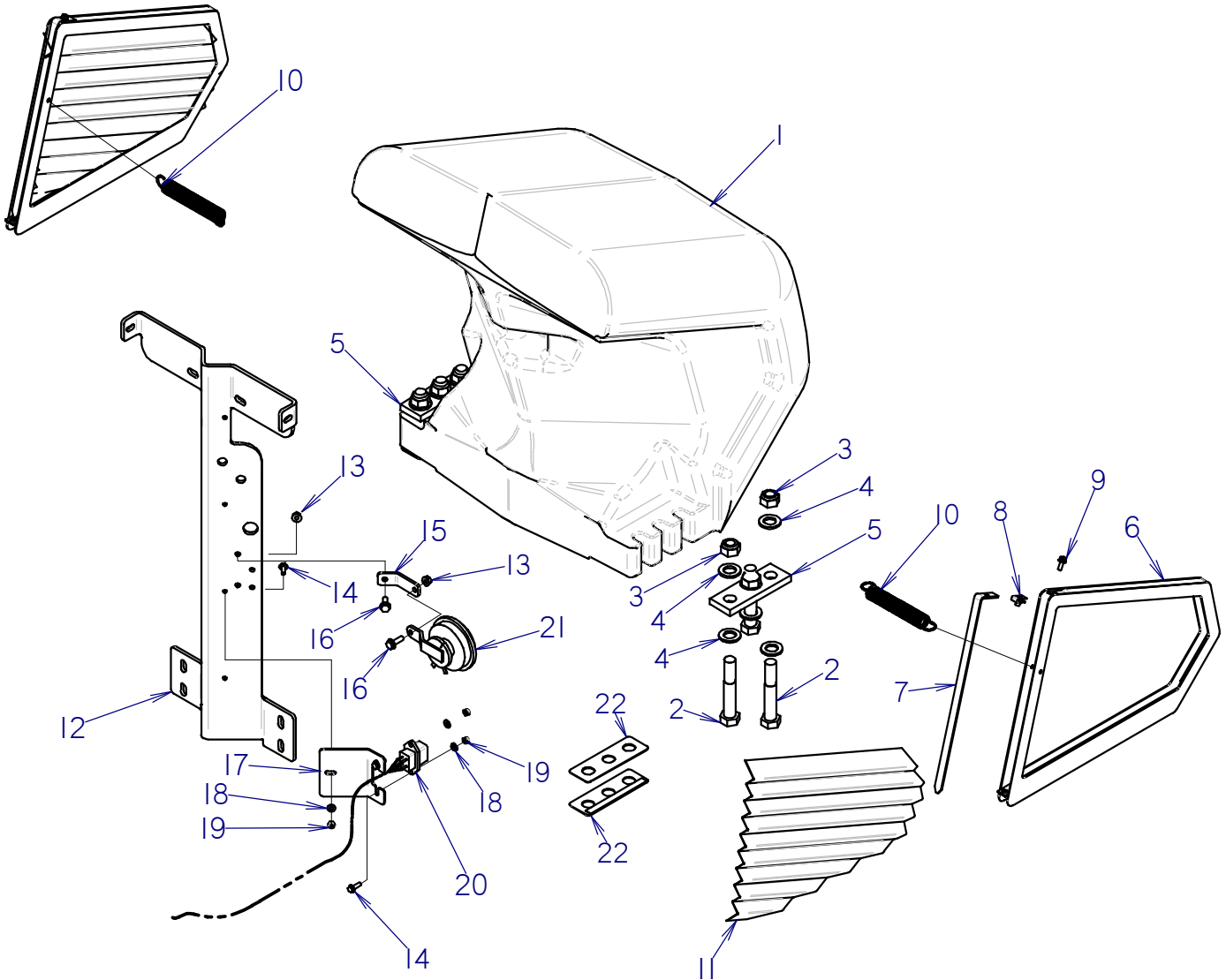
FOOTNOTES:

- 1- TORQUE BOLT TO 350 FT/LB (475 N/m)
- 2- INSTALL REF #4 (327-389) WITH THICK EDGE TO FRAME.
- 3- REFER TO NOSE CASTING INSTALLATION INSTRUCTION 051-420.
- 4- 104-186, BOLT AND SHIM KIT, INCLUDES REF #'S 1,2,4 & 6.

NOTE:

1. RT75 ENDS WITH S/N 5Z0663.
2. RT95 / RT115 ENDS WITH S/N 5Z0676

# COUNTERWEIGHT/GRILLE (RT SERIES) BEGINS WITH SERIAL NUMBER (SEE NOTES)



SEE FOOTNOTE 2

## COUNTERWEIGHT/GRILLE (RT SERIES) BEGINS WITH SERIAL NUMBER (SEE NOTES)

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS               |
|---------|-------------|-----|--------------------------------|-----------------------|
| 1       | 375-457     | 1   | NOSE CASTING                   |                       |
| 2       | 106-626     | 6   | SCREW (M20-2.50 X 120MM, 10.9) | SEE FOOTNOTE 1, 2 & 3 |
| 3       | 106-665     | 6   | LOCKNUT (M20-2.50, 10.9)       |                       |
| 4       | 106-399     | 12  | WASHER (M20, HARDENED)         |                       |
| 5       | 307-531     | 2   | CLAMP BAR                      |                       |
| 6       | 313-825     | 2   | GRILLE                         |                       |
| 7       | 178-873     | 2   | SCREEN RETAINER                |                       |
| 8       | 106-574     | 2   | CLIP NUT (M6-1.00)             |                       |
| 9       | 106-987     | 2   | FLG LK SCREW (M6-1.00 X 16MM)  |                       |
| 10      | 117-386     | 2   | EXTENSION SPRING               |                       |
| 11      | 308-723     | 2   | SCREEN                         |                       |
| 12      | 307-909     | 1   | FRONT HOOD SUPPORT             |                       |
| 13      | 106-386     | 2   | FLG LOCKNUT (M8-1.25)          |                       |
| 14      | 106-161     | 3   | FLG SCREW (M6-1.00 X 20MM)     |                       |
| 15      | 323-673     | 1   | HORN BRACKET                   |                       |
| 16      | 106-992     | 2   | FLG LK SCREW (M8-1.25 X 25MM)  |                       |
| 17      | 318-726     | 1   | PLATE                          |                       |
| 18      | 105-284     | 3   | WASHER (3/16")                 |                       |
| 19      | 106-237     | 3   | LOCKNUT (M6-1.00,PRV TRQ,NLK)  |                       |
| 20      | 217-267     | 1   | HYDROSTAT FRAME HARNESS        |                       |
| 21      | 306-609     | 1   | HIGH FREQUENCY HORN            |                       |
| 22      | 329-358     | 4   | SHIM                           | SEE FOOTNOTE 2        |

NOT SHOWN

### FOOTNOTES

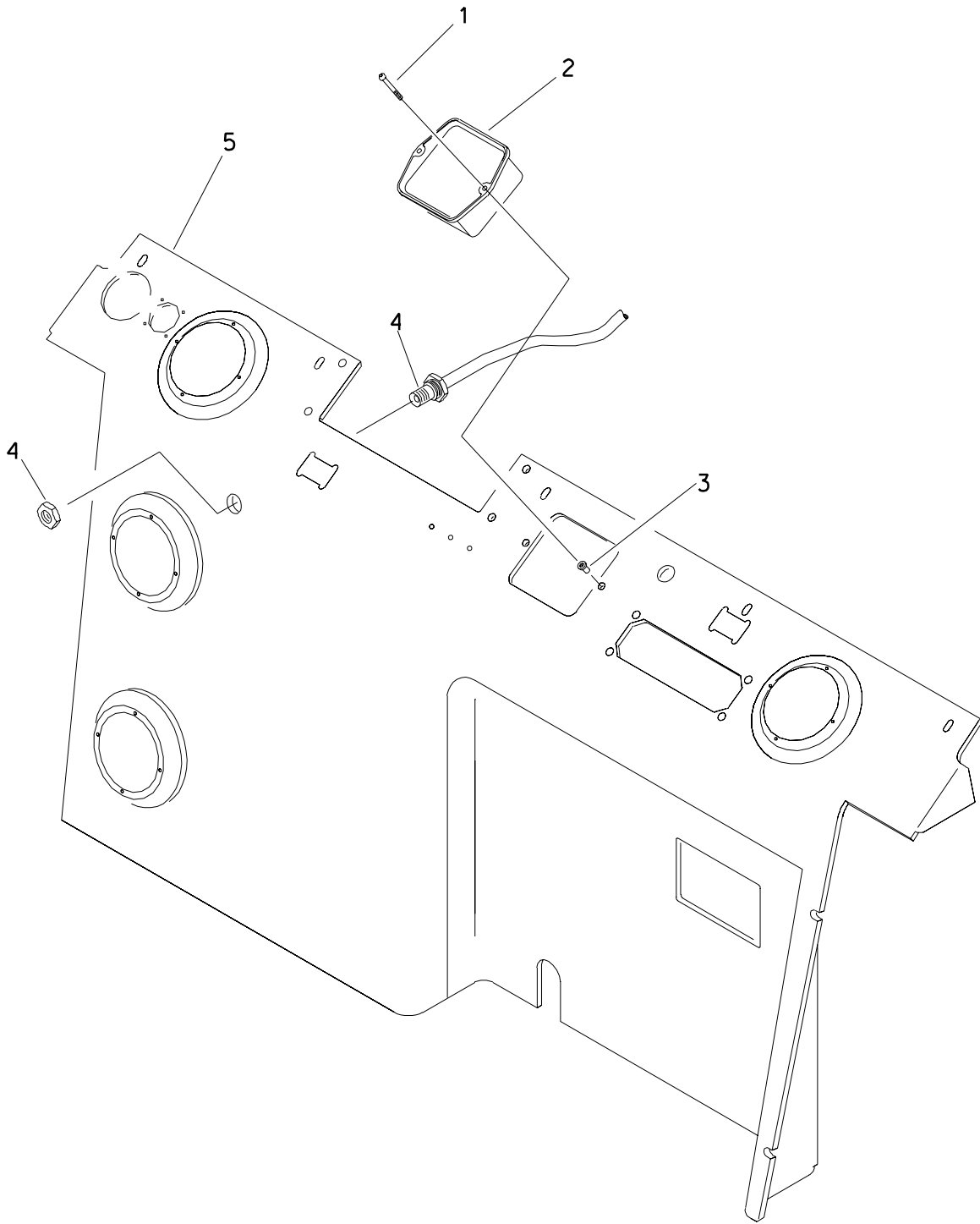
- TORQUE BOLT TO 350 ft/lbs.
- USE SHIMS (REF #22) WHEN MOUNTING NEW CAST NOSE (375-457) ONTO TRACTOR FRAME BEFORE SERIAL NUMBERS LISTED IN FOOTNOTES 4 & 5.
- REFER TO NOSE CASTING INSTALLATION INSTRUCTIONS 051-420 FOR CORRECT TORQUE SEQUENCE.

### NOTE

- RT75 BEGINS WITH SERIAL NUMBER 5Z0664.
- RT95/RT115 BEGINS WITH SERIAL NUMBER 5Z0677.

# TRENCH DEPTH METER MODULE

RT70/RT75/RT90/RT95/RT115



# TRENCH DEPTH METER MODULE

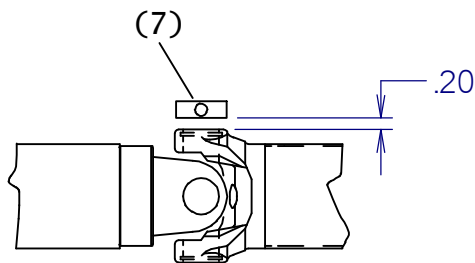
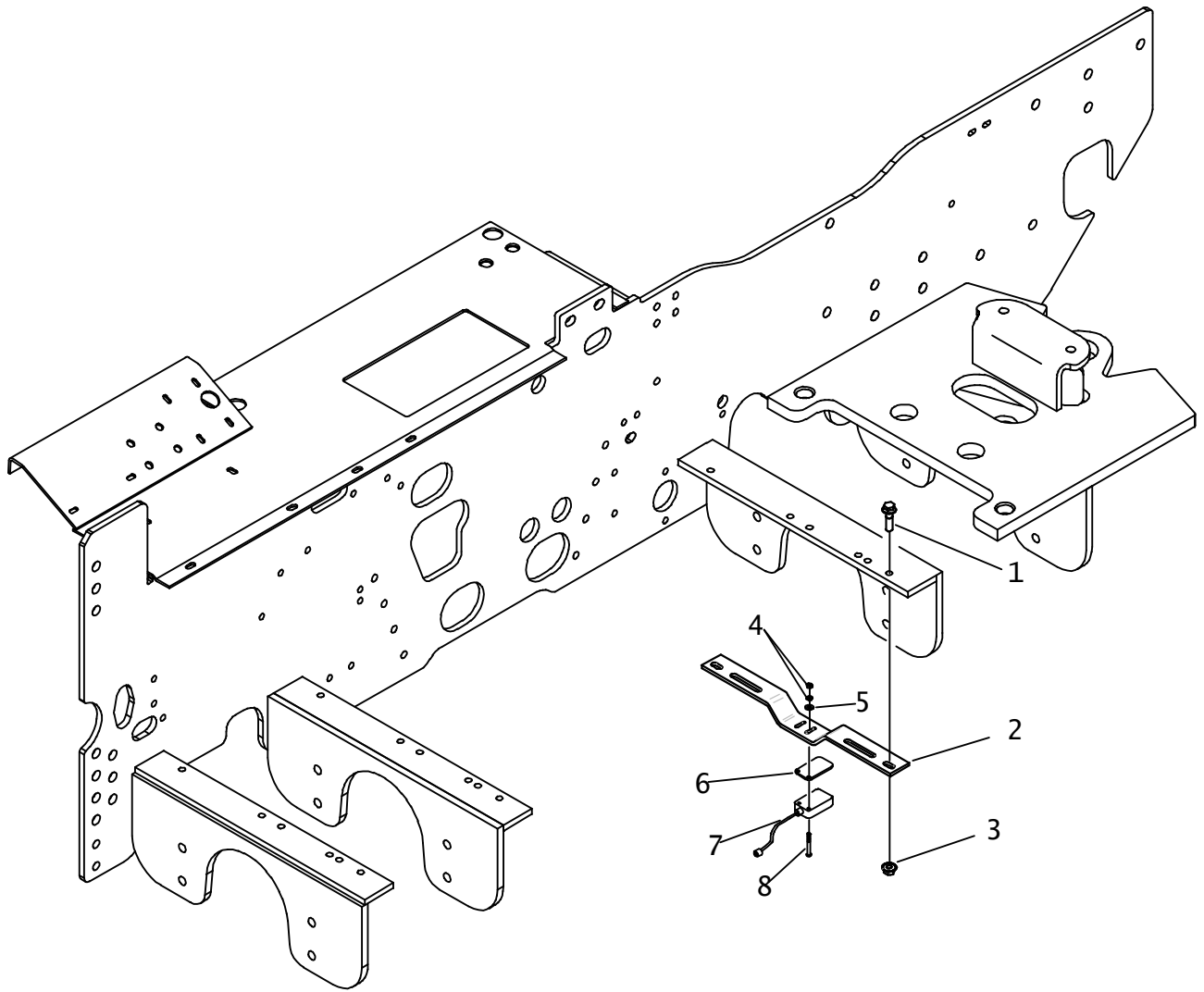
RT70/RT75/RT90/RT95/RT115

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS |
|---------|-------------|-----|---------------------------------|---------|
| 1.      | 107-580     | 2   | SCREW (M4-0.70 X 16mm, BUT SOC) |         |
| 2.      | 220-086     | 1   | TRENCH DEPTH METER              |         |
| 3.      | 107-358     | 2   | WELLNUT (M4-0.7 X 12.67mm LG)   |         |
| 4.      | 213-075     | 1   | TDM HARNESS                     |         |
| 5.      | 319-745     | -   | REAR PANEL                      |         |

FOOTNOTES



# TRENCH DEPTH METER/ODOMETER MT



## TRENCH DEPTH METER/ODOMETER MT

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                       |
|---------|-------------|-----|---------------------------------|-------------------------------|
| 1.      | 107-004     | 3   | FLG LK SCREW (M12-1.75 X 45mm)  | RT95 / RT115 & SEE FOOTNOTE 2 |
| 2.      | 315-744     | 1   | SENSOR BRACKET                  |                               |
| 3.      | 106-709     | 3   | FLG LK NUT (M12-1.75)           | RT95 / RT115 & SEE FOOTNOTE 2 |
| 4.      | 105-680     | 2   | NUT (M4, W/LK WSHR)             |                               |
| 5.      | 107-597     | 2   | WASHER (M4)                     |                               |
| 6.      | 107-451     | AR  | SHIM (.135")                    | SEE FOOTNOTE 1                |
| 7.      | 214-692     | 1   | PROXIMITY SWITCH                |                               |
| 8.      | 107-414     | 2   | SCREW (M4-0.70 X 30mm, BUT SOC) |                               |

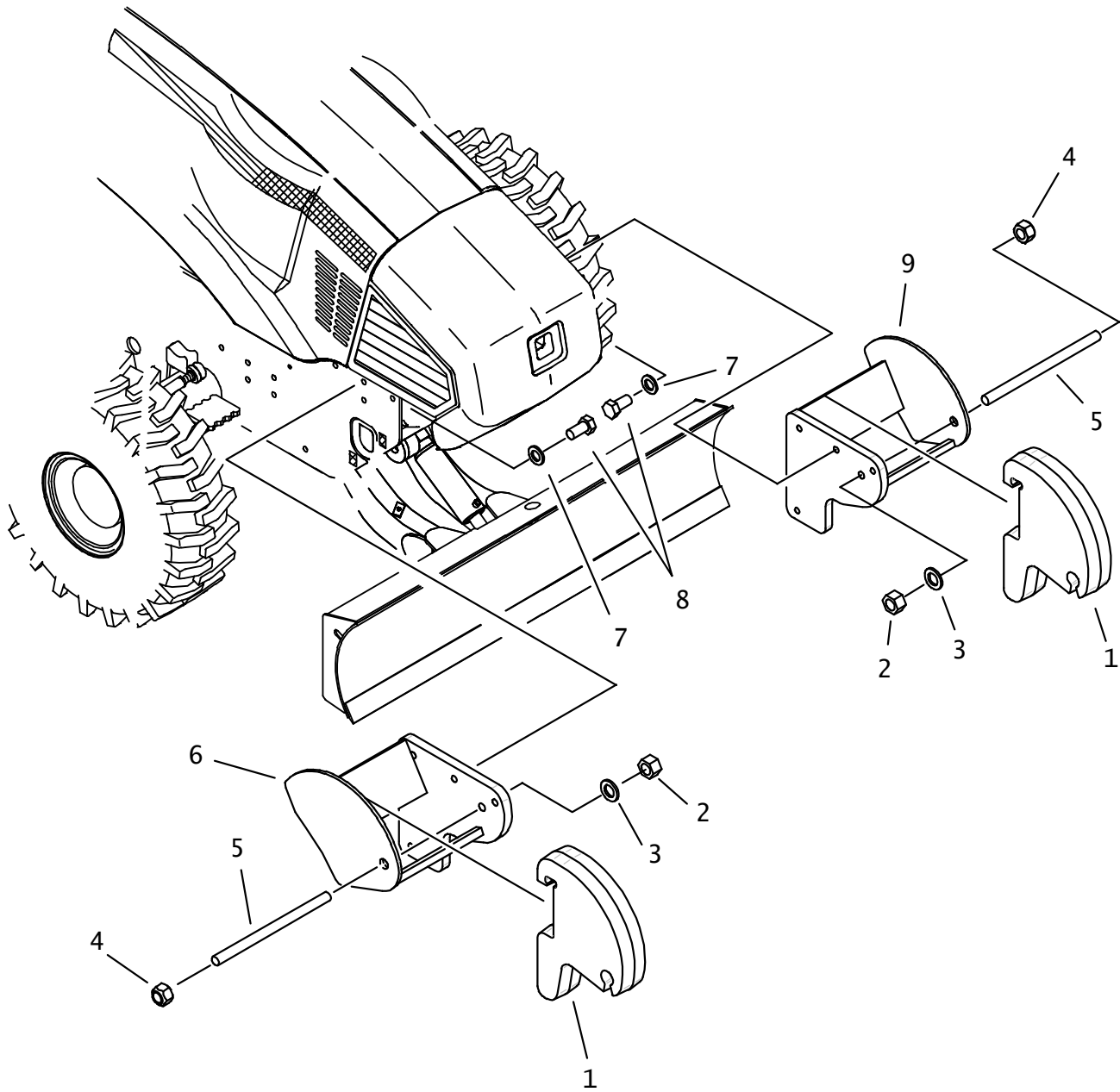
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### FOOTNOTES

- SHIMS (107-451) ARE USED TO ADJUST SPACING OF PROXIMITY SWITCH (214-692) FROM THE DRIVE SHAFT.
- RT75 USES 2X 105-003 (FLG LOCKNUT 5/16-NC) & 2X 105-190 (BOLT 5/16-NC X 2-3/4")

NOTE

# FRONT COUNTERWEIGHT



## FRONT COUNTERWEIGHT

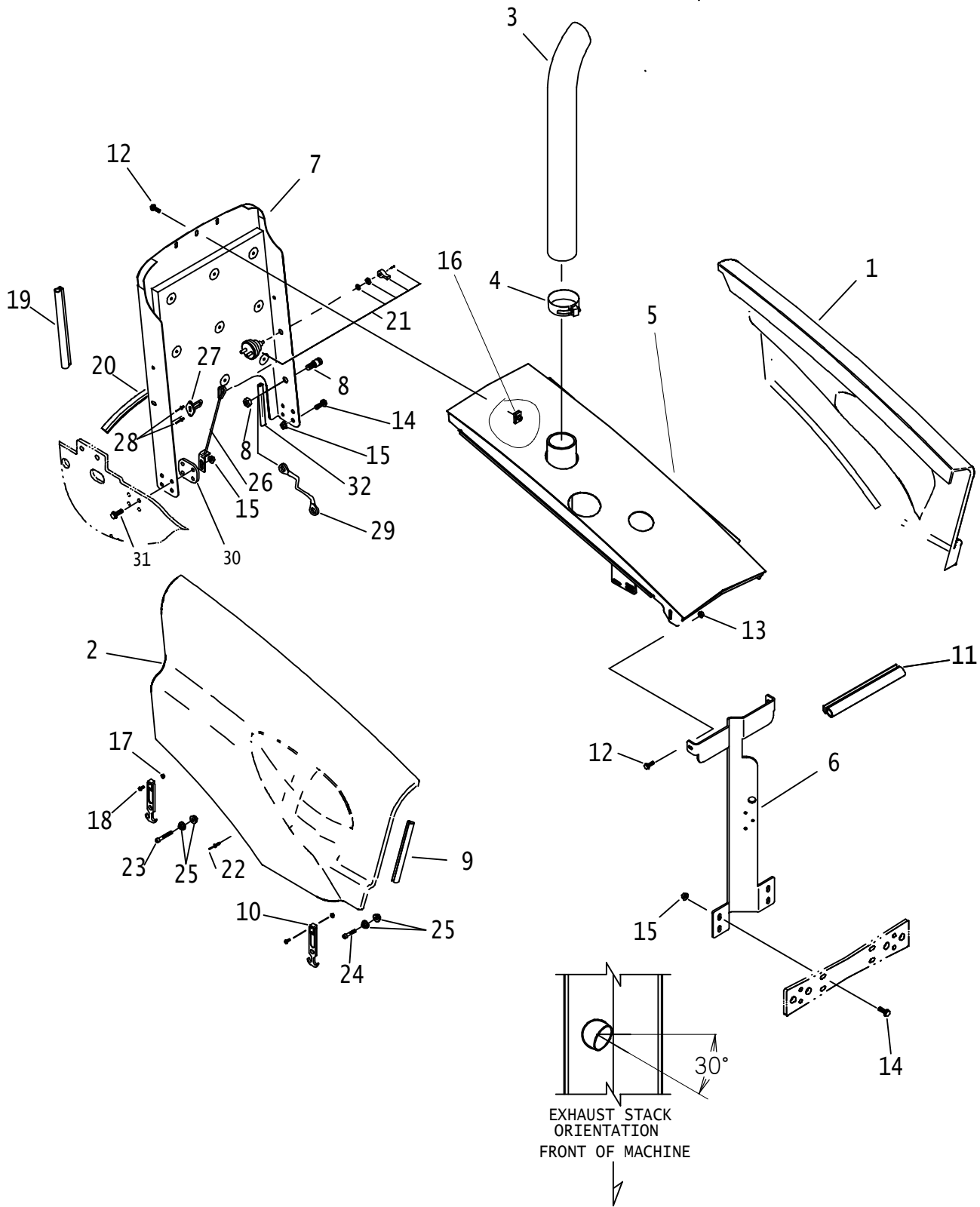
| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS                          |
|---------|-------------|-----|----------------------------------|----------------------------------|
|         | 100-863     | -   | COUNTERWEIGHT KIT                | INCLUDES REF. NO'S 1-9           |
| 1.      | 375-369     | 8   | WEIGHT CASTING                   |                                  |
| 2.      | 106-352     | 2   | NUT (M24-3.00)                   | USED ONLY WITH 3 WEIGHTS OR LESS |
| 3.      | 106-488     | 2   | WASHER (M24, HARDENED)           | USED ONLY WITH 3 WEIGHTS OR LESS |
| 4.      | 106-587     | 2   | LOCKNUT (M24-3.0, PRV TRQ, 10.9) |                                  |
| 5.      | 179-605     | 2   | ALL THREAD ROD (M24 X 15.00)     |                                  |
| 6.      | 319-948     | 1   | RIGHT WEIGHT RACK                |                                  |
| 7.      | 106-399     | 8   | WASHER (M20, HARDENED)           |                                  |
| 8.      | 106-611     | 8   | SCREW (M20-2.50 X 40MM, 10.9)    |                                  |
| 9.      | 319-947     | 1   | LEFT WEIGHT RACK                 |                                  |

NOT SHOWN:

FOOTNOTES:

NOTE:

# ENGINE ENCLOSURE



# ENGINE ENCLOSURE

| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS           |
|---------|-------------|-----|----------------------------------|-------------------|
|         | 191-227     |     | SIDE PANEL LOCK KIT              |                   |
| 1.      | 334-092     | 1   | LEFT SIDE PANEL                  |                   |
| 2.      | 334-091     | 1   | RIGHT SIDE PANEL                 |                   |
| 3.      | 194-558     | 1   | EXHAUST STACK (4")               |                   |
| 4.      | 194-027     | 1   | BAND CLAMP (4.143")              |                   |
| 5.      | 323-496     | 1   | MID HOOD ASSEMBLY                |                   |
| 6.      | 307-909     | 1   | FRONT HOOD SUPPORT               |                   |
| 7.      | 310-716     | 1   | FIREWALL                         |                   |
|         | 111-043     | 9   | INSULATION STUD                  |                   |
|         | 117-341     | 1   | SOUND INSULATION                 |                   |
| 8.      | 211-087     | 1   | BATTERY JUMPER TERMINALS (RED)   |                   |
| 9.      | 117-344     | AR  | BULK EDGE (3/16", SOLD PER 1')   | USE 2@ 25"        |
| 10.     | 110-681     | 4   | DRAW LATCH                       |                   |
| 11.     | 117-344     | AR  | BULK EDGE (3/16", SOLD PER 1')   | USE 1@ 16"        |
| 12.     | 107-001     | 7   | FLG LK SCREW (M10-1.50 X 25mm)   |                   |
| 13.     | 106-266     | 4   | FLG NUT (M10-1.50)               |                   |
| 14.     | 107-003     | 11  | FLG LK SCREW (M12-1.75 X 35mm)   |                   |
| 15.     | 106-709     | 9   | FLG LK NUT (M12-1.75)            |                   |
| 16.     | 106-558     | 3   | CLIP NUT (M10-1.50)              |                   |
| 17.     | 106-048     | 8   | LOCKNUT (#10-24)                 |                   |
| 18.     | 106-408     | 8   | BOLT (#10-24 X 1-1/4", SOC, GD8) |                   |
| 19.     | 116-489     | AR  | BULK EDGE (1/8", SOLD PER 1')    | USE 2@ 21"        |
| 20.     | 116-421     | AR  | BULK EDGE (1/8", SOLD PER 1')    | USE 1@ 26"        |
| 21.     | 217-819     | 1   | BATTERY DISCONNECT SWITCH        | INCLUDES HARDWARE |
| 22.     | 110-253     | 8   | POP RIVET (3/16" X 1/2")         |                   |
| 23.     | 106-725     | 2   | SCREW (M10-1.50 X 65mm, SOC)     |                   |
| 24.     | 106-081     | 2   | SCREW (M10-1.50 X 35mm, 12.9)    |                   |
| 25.     | 106-387     | 8   | FLG LOCKNUT (M10-1.50)           |                   |
| 26.     | 194-345     | 2   | LOCK CABLE                       |                   |
| 27.     | 318-523     | 2   | LOCK BRACKET                     |                   |
| 28.     | 110-348     | 4   | POP RIVET(3/16" X .664")         |                   |
| 29.     | 214-873     | 1   | POSITIVE JUMPER CABLE            |                   |
| 30.     | 320-255     | 1   | THREAD PLATE                     |                   |
| 31.     | 107-004     | 1   | FLG LK SCREW (M12-1.75 X 45mm)   | SEE FOOTNOTE 1    |
| 32.     | 115-686     | 2   | BULK EDGE (5/32", SOLD PER 1")   | 5-1/2" EACH       |

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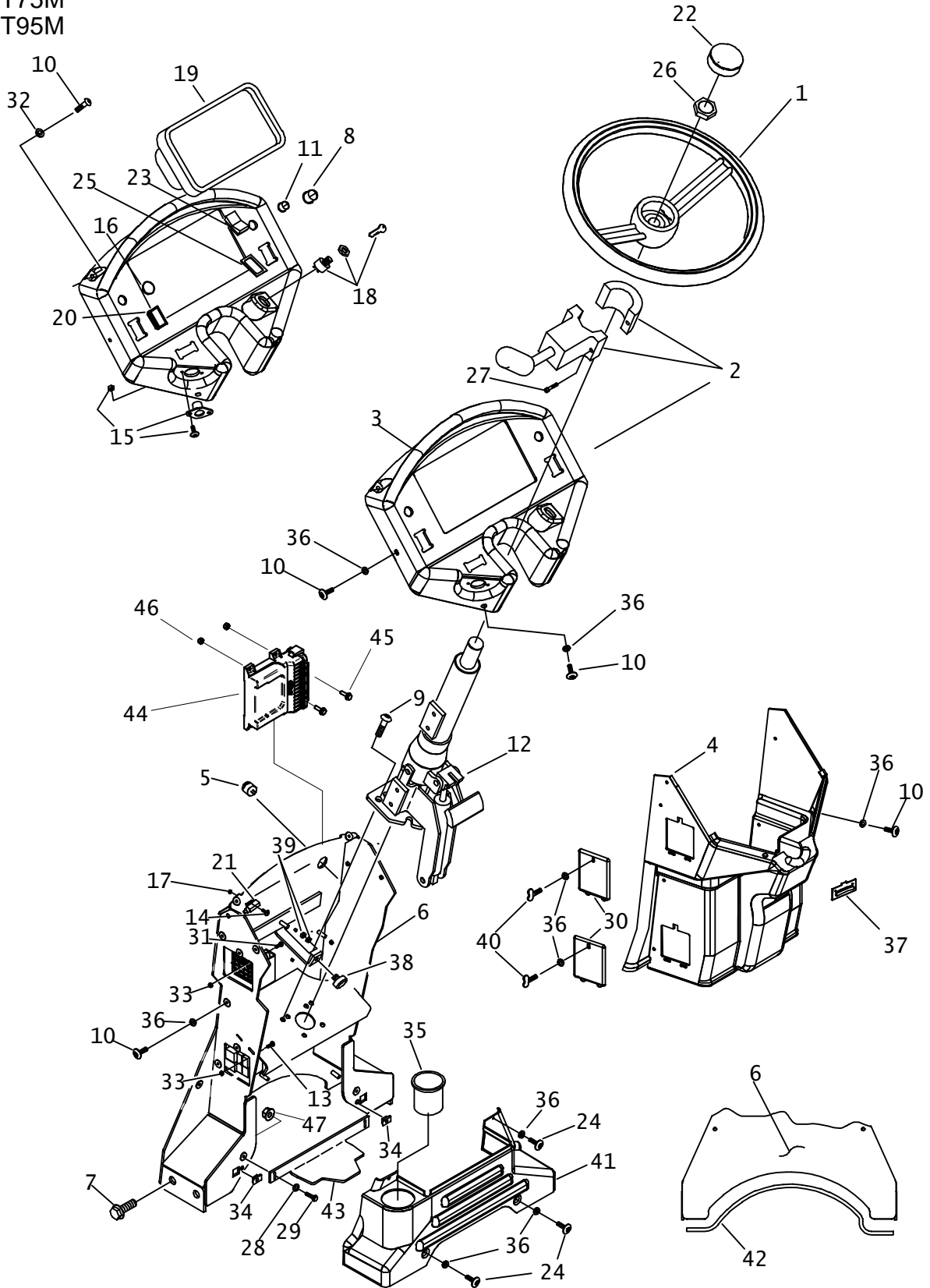
FOOTNOTES:

- REF #31 (107-004) IS USED IN POSITION SHOWN ONLY, THIS WILL ALLOW REF #26 (LOCK CABLE) TO BE ATTACHED AS REQUIRED.

NOTE:

# TILT STEERING

RT75H RT75M  
RT95H RT95M



**TILT STEERING**

RT75H RT75M

RT95H RT95M

| REF PART<br>NO. NUMBER | QTY      | DESCRIPTION                       | REMARKS                                     |
|------------------------|----------|-----------------------------------|---|
| 1.                     | 160-428  | 1 STEERING WHEEL                  |   |
| 2.                     | 215-243  | 1 F-N-R SHIFTER                   | POWERSHIFT UNITS ONLY                       |
| 3.                     | 318-555  | 1 MAIN CONSOLE                    |   |
| 4.                     | 318-556  | 1 CONSOLE CENTER SECTION          |   |
| 5.                     | 306-603  | 1 AUDIO ALARM                     |   |
| 6.                     | 315-142  | 1 PEDESTAL                        |   |
| 7.                     | 106-470  | 4 FLG SCREW (M16-2.0 X 40mm)      |   |
| 8.                     | 306-608  | 1 BUTTON COVER                    |   |
| 9.                     | 107-864  | 4 BOLT (3/8-NC X 1.00", BUT SOC)  |   |
| 10.                    | 105-1550 | 14 SCREW (M6-1.00 X 25MM)         |   |
| 11.                    | 306-607  | 1 HORN BUTTON                     |   |
| 12.                    | 306-433  | 1 STEERING COLUMN                 |   |
|                        | 499-855  | - KNOB KIT                        |   |
|                        | 499-856  | - TILT LEVER KIT                  |   |
|                        | 499-857  | - SHAFT KIT                       |   |
|                        | 499-858  | - GAS SPRING KIT ( CYLINDER )     |   |
| 13.                    | 105-185  | 2 BOLT (#10-24 X 1/2 ", RD SLT)   |   |
| 14.                    | 107-580  | 2 SCREW (M4-0.70 X 16mm, BUT SOC) |   |
| 15.                    | 214-301  | 1 ACCESSORY SOCKET                |   |
|                        | 107-580  | 2 SCREW (M4-0.70 X 16mm, BUT SOC) |   |
|                        | 105-680  | 2 NUT (M4, W/LK WSHR)             |   |
| 16.                    | 211-067  | 1 DOME PLUG (.687")               |   |
| 17.                    | 105-680  | 2 NUT (M4,W/LKWSHR)               |   |
| 18.                    | 214-852  | 1 IGNITION SWITCH                 |   |
|                        | 214-961  | KEY, PAIR                         |   |
|                        | 214-962  | SWITCH MOUNTING NUT               |   |
| 19.                    | 211-273  | 1 5-GAUGE CLUSTER                 |   |
| 20.                    | 362-823  | AR COVER                          | 3 W/ POWERSHIFT UNITS, 2 W/ HYDROSTAT UNITS |
| 21.                    | 217-704  | 1 PLUNGER SWITCH                  |   |
| 22.                    | 110-730  | 1 STEERING WHEEL CAP              |   |
| 23.                    | 217-762  | 1 ROCKER SWITCH (SPDT)            | HYDROSTAT UNITS ONLY                        |
| 24.                    | 105-1552 | 4 SCREW (M6-1.00 X 16MM)          |   |
| 25.                    | 165-817  | 1 SWITCH GASKET                   | HYDROSTAT UNITS ONLY                        |
| 26.                    | 105-361  | 1 JAM NUT (13/16 NF)              |   |
| 27.                    | 106-425  | 2 (M5-0.80 X 40mm, SOC)           | NOT USED ON POWER SHIFT UNITS               |
| 28.                    | 105-095  | 2 WASHER (1/4")                   | NOT USED ON POWER SHIFT UNITS               |
| 29.                    | 106-381  | 2 FLG LK SCREW (M8-1.25 X 25MM)   |   |
| 30.                    | 318-560  | 2 ACCESS DOOR                     |   |

## NOT SHOWN:

CONNECTOR CAP (TURK RS-CC), P/N: 211-078, QTY = 1

DIODE CONNECTOR, P/N: 214-449, QTY = 1

## FOOTNOTES:

## NOTE:



# TILT STEERING

## RT75H RT75M

## RT95H RT95M

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                       |
|---------|-------------|-----|--------------------------------|-------------------------------|
| 31.     | 106-049     | 6   | BOLT (#10-24 X 3/4", PLPS)     |                               |
| 32.     | 107-744     | 2   | WASHER (M6)                    |                               |
| 33.     | 106-048     | 8   | LOCKNUT (#10-24)               |                               |
| 34.     | 106-574     | 2   | CLIP NUT (M6-1.00)             |                               |
| 35.     | 308-888     | 1   | CUP HOLDER                     |                               |
| 36.     | 107-801     | 18  | WASHER (M6)                    |                               |
| 37.     | 110-208     | 1   | LEVEL INDICATOR                |                               |
| 38.     | 116-525     | 1   | BUMPER                         |                               |
| 39.     | 106-252     | 2   | JAM NUT (5/16-NC)              |                               |
| 40.     | 107-800     | 2   | WING SCREW (M6-1 X 25mm)       |                               |
| 41.     | 318-557     | 1   | CONSOLE BASE                   |                               |
| 42.     | 115-686     | AR  | BULK EDGE (5/32",SOLD PER 1")  | USE 1 @ 25"                   |
| 43.     | 314-487     | 1   | BRACE                          | NOT USED ON POWER SHIFT UNITS |
| 44.     | 220-1241    | 1   | 30 PIN CONTROLLER V3           | SEE FOOTNOTE 1                |
| 45.     | 106-161     | 2   | FLG SCREW (M6-1.00 X 20MM)     | SEE FOOTNOTE 1                |
| 46.     | 106-538     | 2   | LOCKNUT (M6-1.00,PRV TRQ,10.9) | SEE FOOTNOTE 1                |
| 47.     | 106-386     | 2   | FLG LOCKNUT (M8-1.25)          |                               |

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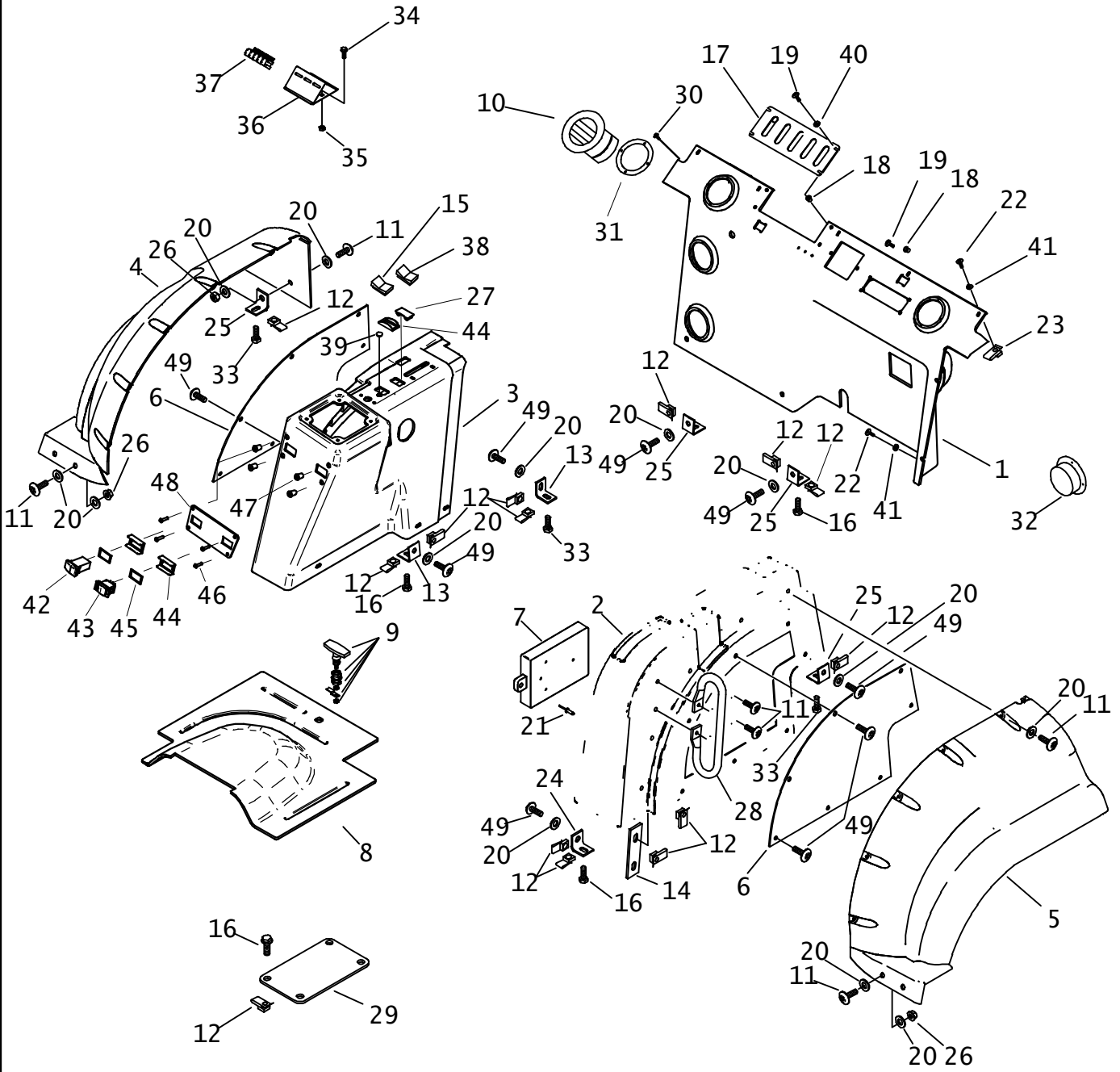
#### FOOTNOTES:

- I. USED WITH REAR STEER OPTION OR REAR STEER AND CRUISE CONTROL OPTION WHEN UPDATED WITH THE REAR STEER KITS I90-1437 OR I90-1438. CRUISE ONLY OPTION USES MODULE 220-569 @1X, BOLTS I05-815 @ 2X, AND NUTS I06-048 @ 2X.

NOTE:



# FENDERS AND COVERS



## FENDERS AND COVERS

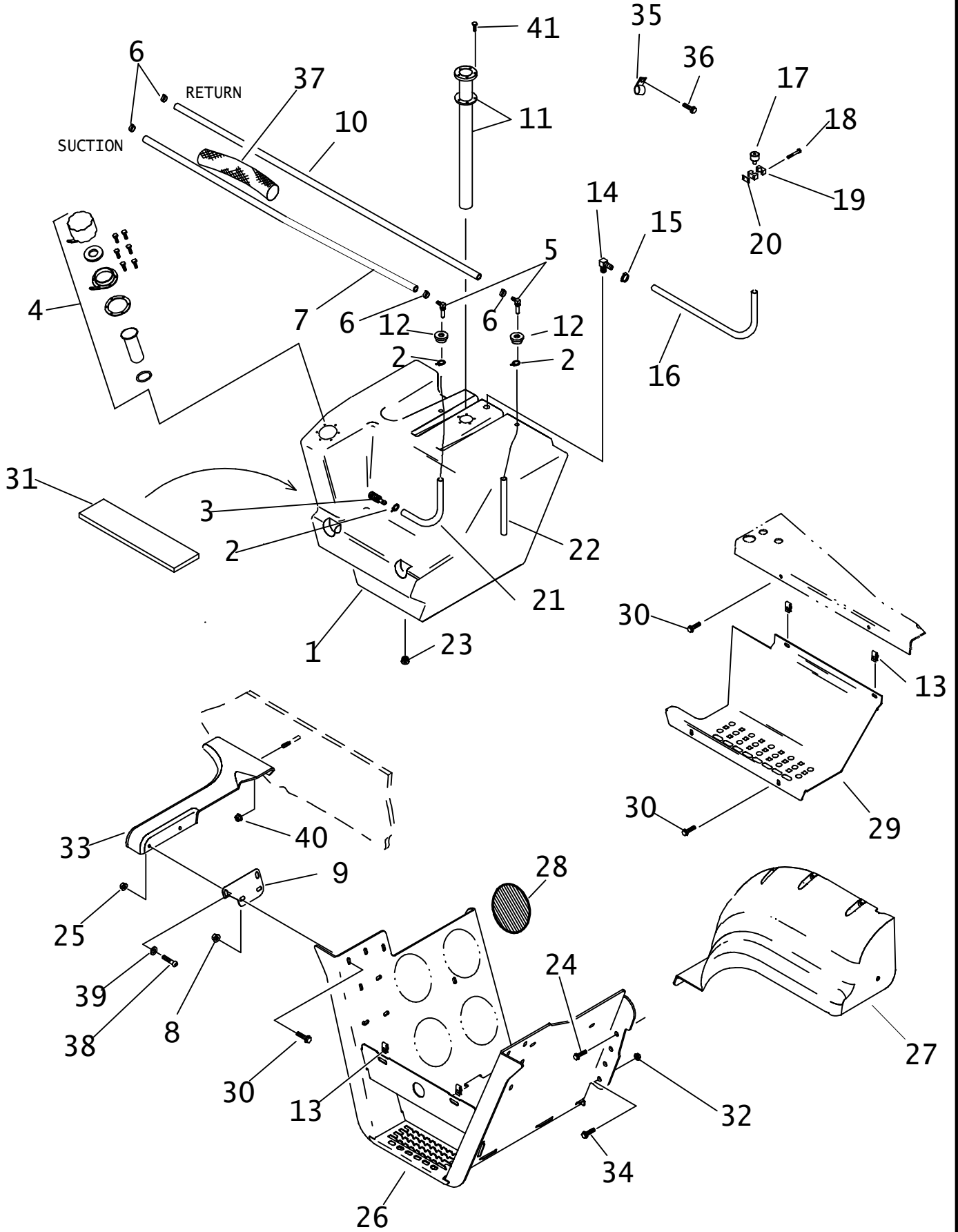
| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS  |
|---------|-------------|-----|----------------------------------|--|
| 1.      | 306-492     | 1   | REAR PANEL                       |  |
|         | 323-977     | 1   | REAR PANEL                       | ASSY USED WITH A/C OR HEATER KIT                         |
| 2.      | 306-491     | 1   | LEFT FENDER                      |  |
| 3.      | 306-490     | 1   | RIGHT FENDER                     |  |
| 4.      | 305-657     | 1   | RIGHT OUTSIDE FENDER             |  |
| 5.      | 305-656     | 1   | LEFT OUTSIDE FENDER              |  |
| 6.      | 308-897     | 2   | PANEL                            |  |
| 7.      | 250-622     | 1   | MANUAL COMPARTMENT               |  |
| 8.      | 318-793     | 1   | FLOOR PLATE                      |  |
| 9.      | 107-461     | 1   | LOCKING LATCH                    |  |
| 10.     | 120-085     | 4   | ADJUSTABLE LOUVER (23-0005)      | USED WITH A/C OR HEATER KIT                              |
| 11.     | 107-778     | 26  | SCREW (M8-1.25 X 30mm, BUT SOC)  | SEE FOOTNOTE 3   |
| 12.     | 107-135     | 38  | CLIP NUT (M8-1.25)               |  |
| 13.     | 306-796     | 2   | TAB                              |  |
| 14.     | 309-816     | 2   | STRAP                            |  |
| 15.     | 217-762     | 1   | ROCKER SWITCH (SPDT)             | USED WITH AXLE LOCK                                      |
| 16.     | 106-992     | 14  | FLG LK SCREW (M8-1.25 X 25mm)    |  |
| 17.     | 307-644     | 1   | COVER                            |  |
| 18.     | 107-358     | 8   | WELLNUT (M4-0.7)                 |  |
| 19.     | 107-580     | 8   | SCREW (M4-0.70 X 16mm,BUT SOC)   |  |
| 20.     | 107-629     | 43  | WASHER (M8)                      |  |
| 21.     | 110-348     | 3   | POP RIVET (3/16" X .664")        |  |
| 22.     | 105-1549    | 7   | SCREW (M6-1.00 X 20MM)           |  |
| 23.     | 106-574     | 5   | CLIP NUT (M6-1.00)               |  |
| 24.     | 306-795     | 1   | TAB                              |  |
| 25.     | 309-434     | 6   | TAB                              |  |
| 26.     | 107-096     | 9   | LOCKNUT (M8-1.25, NLK)           |  |
| 27.     | 362-823     | 4   | COVER                            | SEE FOOTNOTE 5   |
| 28.     | 117-360     | 2   | GRAB HANDLE                      |  |
| 29.     | 309-847     | 1   | FUEL SENDER COVER                |  |
| 30.     | 106-155     | 20  | SCREW (#4-40 X 5/8", PAN PLPS)   | USED WITH A/C OR HEATER KIT                              |
| 31.     | 120-084     | 4   | HOSE ADAPTER (23-0048)           | USED WITH A/C OR HEATER KIT                              |
| 32.     | 120-123     | 1   | HOSE ADAPTER (23-0090)           | USED WITH A/C OR HEATER KIT                              |
| 33.     | 106-989     | 4   | FLG LK SCREW (M8-1.25 X 35mm)    |  |
| 34.     | 106-724     | 2   | FLG SCREW (M10-1.50 X 25mm)      | USED WITH FRAME TILT OPTION                              |
| 35.     | 105-894     | 2   | LOCKNUT(M10-1.50, PRV TRQ, 10.9) |  |
| 36.     | 316-945     | 1   | RELAY MOUNT                      | SEE FOOTNOTE 1   |
| 37.     | 217-194     | 10  | MICRO RELAY BASE                 |  |
| 38.     | 217-764     | 1   | ROCKER SWITCH (SPDT)             |  |
| 39.     | 157-333     | 1   | HOLE PLUG (.750")                | SEE FOOTNOTE 2   |
| 40.     | 107-744     | 4   | WASHER (M6)                      |  |
| 41.     | 106-388     | 7   | WASHER (M6)                      |  |
| 42.     | 217-072     | 1   | ROCKER SWITCH                    | SEE FOOTNOTE 4 & 5                                       |
| 43.     | 217-817     | 1   | ROCKER SWITCH (SEALED)           | SEE FOOTNOTE 4 & 5                                       |
| 44.     | 110-854     | 4   | SWITCH ACTUATOR GUARD            | USED WITH AXLE LOCK AND REAR STEER OPTION SEE FOOTNOTE 5 |
| 45.     | 165-817     | 2   | SWITCH GASKET                    | SEE FOOTNOTE 4 & 5                                       |
| 46.     | 107-312     | 4   | SREW (M6-1.00X25MM, BUT SOC)     | SEE FOOTNOTE 4   |
| 47.     | 107-871     | 4   | WELLNUT (M6-1.00 X 20.35MM LG)   | SEE FOOTNOTE 4   |
| 48.     | 300-9262    | 1   | SWITCH MOUNT                     | SEE FOOTNOTE 4   |
| 49.     | 106-163     | 22  | FLG SCREW (M8-1.25 X 30MM)       |  |

### FOOTNOTES

1. THIS IS TO BE USED FOR MECHANICAL (POWERSHIFT ONLY)
2. USE LOCTITE 401 ADHESIVE
3. USE LOCTITE 242 OR EQUIVALENT
4. USE WITH REAR STEER SYSTEM.
5. UNITS WITHOUT REAR STEER, FRAME TILT, OR REEL WINDER USE PLUGS 362-823.

NOTE:

# FUEL TANK



# FUEL TANK

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                                  |
|---------|-------------|-----|---------------------------------|--|
| 1.      | 194-164     | 1   | FUEL TANK                       |  |
| 2.      | 110-563     | 3   | SPRING CLAMP (3/8")             |  |
| 3.      | 156-268     | 1   | FUEL STRAINER (04H)             |  |
|         | 194-505     | 1   | FUEL PICKUP (04H)               | BEGIN WITH S/N                           |
| 4.      | 364-567     | 1   | FILL NECK                       | ORIENT PADLOCK LUGS AWAY FROM STAIRWELL. |
|         | 153-760     | 1   | CAP                             | LOCKABLE                                 |
|         | 153-594     | 2   | GASKET, FILL NECK CAP           |  |
|         | 153-607     | 1   | FLANGE GASKET                   |  |
|         | 107-781     | 6   | HEX SCREW (#10-24 X 5/8")       |  |
|         | 153-761     | 1   | FLANGE                          |  |
|         | 153-606     | 1   | STRAINER BASKET                 |  |
| 5.      | 156-269     | 2   | S/O COUPLER (04H-05H90)         |  |
| 6.      | 110-528     | 4   | SNAP-ON CLAMP (.531" TO .593")  |  |
| 7.      | 116-108     | AR  | BULK HOSE (5/16", SOLD PER 1")  | USE 1@ 55"                               |
| 8.      | 106-387     | 2   | FLG LOCKNUT (M10-1.50)          |  |
| 9.      | 319-452     | 1   | CONNECTOR PLATE                 |  |
| 10.     | 116-108     | AR  | BULK HOSE (5/16", SOLD PER 1")  | USE 1@ 46"                               |
| 11.     | 214-650     | 1   | FUEL SENDER                     |  |
|         | 165-704     | 1   | GASKET                          |  |
| 12.     | 116-325     | 2   | GROMMET (.362")                 |  |
| 13.     | 107-287     | 4   | CLIP NUT (M10-1.50)             |  |
| 14.     | 156-108     | 1   | S/O COUPLER (08N-08H90)         |  |
| 15.     | 110-217     | 1   | WORM CLAMP (7/16" TO 1")        |  |
| 16.     | 116-322     | AR  | BULK HOSE (1/2", SOLD PER 1")   | USE 1@ 48"                               |
| 17.     | 111-021     | 1   | BREATHER CAP (TANK)             |  |
| 18.     | 105-818     | 2   | BOLT (1/4-NC X 1-1/2")          |  |
| 19.     | 110-411     | 1   | BOLT-ON CLAMP (3/4", SET)       |  |
| 20.     | 322-289     | 1   | BACKUP (BOLT-ON)                |  |
| 21.     | 118-096     | AR  | BULK FUEL TUBING (1/4", PER FT) | USE 1@ 24"                               |
| 22.     | 118-096     | AR  | BULK FUEL TUBING (1/4", PER FT) | USE 1@ 20"                               |
| 23.     | 114-002     | 1   | PLUG (06N, SOC)                 |  |

NOT SHOWN:

FOOTNOTES:

NOTE:

## FUEL TANK

| REF PART NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS        |
|--------------|-------------|-----|---------------------------------|----------------|
| 24.          | 105-829     | 6   | FLG LK BOLT (1/2-NC X 1")       |                |
| 25.          | 106-386     | 2   | FLG LOCKNUT (M8-1.25)           |                |
| 26.          | 320-591     | 1   | TANK CRADLE                     |                |
| 27.          | 305-656     | -   | LEFT OUTSIDE FENDER             |                |
| 28.          | 117-425     | AR  | LINER PAD (.12" THK)            | SEE FOOTNOTE 2 |
|              | 117-463     | AR  | LINER PAD (.25" THK)            |                |
| 29.          | 313-820     | 1   | TREAD, FUEL                     |                |
| 30.          | 107-001     | 8   | FLG LK SCREW (M10-1.50 X 25mm)  |                |
| 31.          | 117-442     | AR  | SUPPORT MAT                     | SEE FOOTNOTE 1 |
| 32.          | 106-198     | 2   | FLG LOCKNUT (1/2-NC, GD8)       |                |
| 33.          | 313-909     | 1   | LEFT AIR DEFLECTOR              |                |
| 34.          | 105-831     | 2   | FLG LK BOLT (1/2-NC X 1-1/2")   |                |
| 35.          | 110-333     | 1   | BOLT-ON CLAMP (1")              |                |
| 36.          | 105-033     | 1   | BOLT (5/16-NC X 2")             |                |
| 37.          | 117-671     | 1   | ABRASION SLEEVE (1" X 12")      |                |
| 38.          | 107-778     | 2   | SCREW (M8-1.25 X 30mm, BUT SOC) |                |
| 39.          | 107-629     | 2   | WASHER (M8)                     |                |
| 40.          | 105-003     | 1   | FLG LOCKNUT (5/16-NC)           |                |
| 41.          | 105-1190    | 5   | BOLT (#10-24 X 1-1/4")          |                |

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FOOTNOTES:

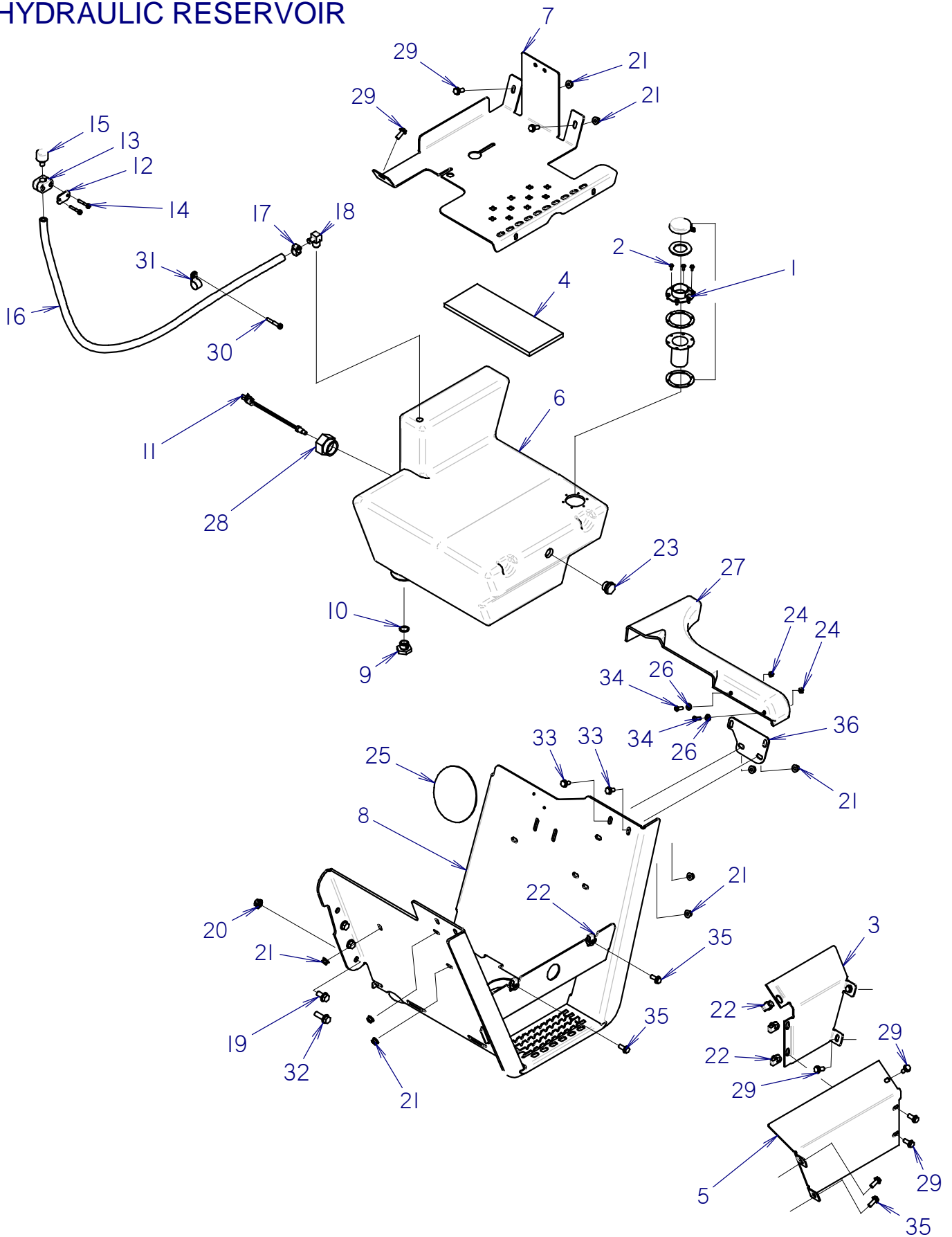
1. LAYER SUPPORT MAT BETWEEN LEDGE OF TANK AND UNDERSIDE OF STEP UNTIL FIRM PRESSURE IS REQUIRED TO ALIGN SLOTS AND INSERT SCREWS
2. ARRANGE LINER PADS IN AN EVEN PATTERN ON INTERIOR SURFACES OF THE SIDE PLATES, BOTTOM PLATE AND PLATE. USE .12 THICK AND .25 THICK TO PROVIDE A SNUG FIT FOR THE TANK. APPLY AND ADJUST THE LINER PADS UNTIL THE LEAST MOVEMENT POSSIBLE HAS BEEN ACCOMPLISHED. ONCE FILLED THE TANK SHOULD NOT SHIFT.

NOTE:





# HYDRAULIC RESERVOIR



# HYDRAULIC RESERVOIR

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS  |
|---------|-------------|-----|---------------------------------|--|
| 1       | 364-632     | 1   | FILL NECK                       | SEE F/N 3 & 5. REFER TO NOTES BELOW.                 |
| 2       | 105-214     | 6   | FLG SCREW (#10-24 X .5")        | SEE F/N 5  |
| 3       | 320-657     | 1   | BATTERY COVER                   |  |
| 4       | 117-442     | 1   | SUPPORT MAT                     | "USE AS REQUIRED". SEE F/N 4                         |
| 5       | 334-003     | 1   | BATTERY COVER                   |  |
| 6       | 364-633     | 1   | HYDRAULIC RESERVOIR (75)        | REFER TO REF. #23.                                   |
| 7       | 307-311     | 1   | HYDRAULIC TANK STEP             |  |
| 8       | 320-591     | 1   | CRADLE WELDMENT                 |  |
| 9       | 157-466     | 1   | DRAIN PLUG (1-UNF, .375 ORF)    |  |
| 10      | 500-749     | 1   | O-RING (211 D70)                |  |
| 11      | 214-854     | 1   | TEMPERATURE SWITCH(1/4NPT,MALE) |  |
| 12      | 322-289     | 1   | BACKUP (BOLT-ON)                |  |
| 13      | 110-411     | 1   | BOLT-ON CLAMP (3/4", SET)       |  |
| 14      | 105-818     | 2   | BOLT (1/4-NC X 1-1/2")          |  |
| 15      | 111-021     | 1   | BREATHER CAP (TANK)             |  |
| 16      | 116-322     | 1   | BULK HOSE (1/2", SOLD PER 1')   | USE 1 @ 48"  |
| 17      | 110-217     | 1   | WORM CLAMP (7/16" TO 1")        |  |
| 18      | 156-108     | 1   | S/O COUPLER (08N-08H90)         |  |
| 19      | 105-829     | 6   | FLG LK BOLT (1/2-NC X 1")       |  |
| 20      | 105-833     | 2   | FLG LOCKNUT (1/2-NC)            |  |
| 21      | 106-387     | 9   | FLG LOCKNUT (M10-1.50)          |  |
| 22      | 106-558     | 5   | CLIP NUT (M10-1.50)             |  |
| 23      | 121-040     | 1   | SIGHT GLASS                     |  |
| 24      | 107-096     | 2   | LOCKNUT (M8-1.25, NLK)          |  |
| 25      | 117-425     | AR  | LINER PAD (.12" THK)            | SEE F/N 1. ALSO USE AS NEEDED 117-463 (.25" THK PAD) |
| 26      | 105-095     | 2   | WASHER (1/4")                   |  |
| 27      | 313-908     | 1   | RIGHT AIR DEFLECTOR             |  |
| 28      | 514-446     | 1   | REDUCER (24S-20SF)              |  |
| 29      | 106-724     | 8   | FLG SCREW (M10-1.50 X 25MM)     |  |
| 30      | 105-033     | 1   | BOLT (5/16-NC X 2")             |  |
| 31      | 110-333     | 1   | BOLT-ON CLAMP (1")              |  |
| 32      | 105-831     | 2   | FLG LK BOLT (1/2-NC X 1-1/2")   |  |
| 33      | 106-382     | 2   | FLG LK SCREW (M10-1.50 X 20MM)  |  |
| 34      | 107-334     | 2   | SCREW (M8-1.25 X 25MM,BUT SOC)  |  |
| 35      | 107-001     | 4   | FLG LK SCREW (M10-1.50 X 25MM)  |  |
| 36      | 319-452     | 1   | CONNECTOR PLATE                 |  |

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**FOOTNOTES:**

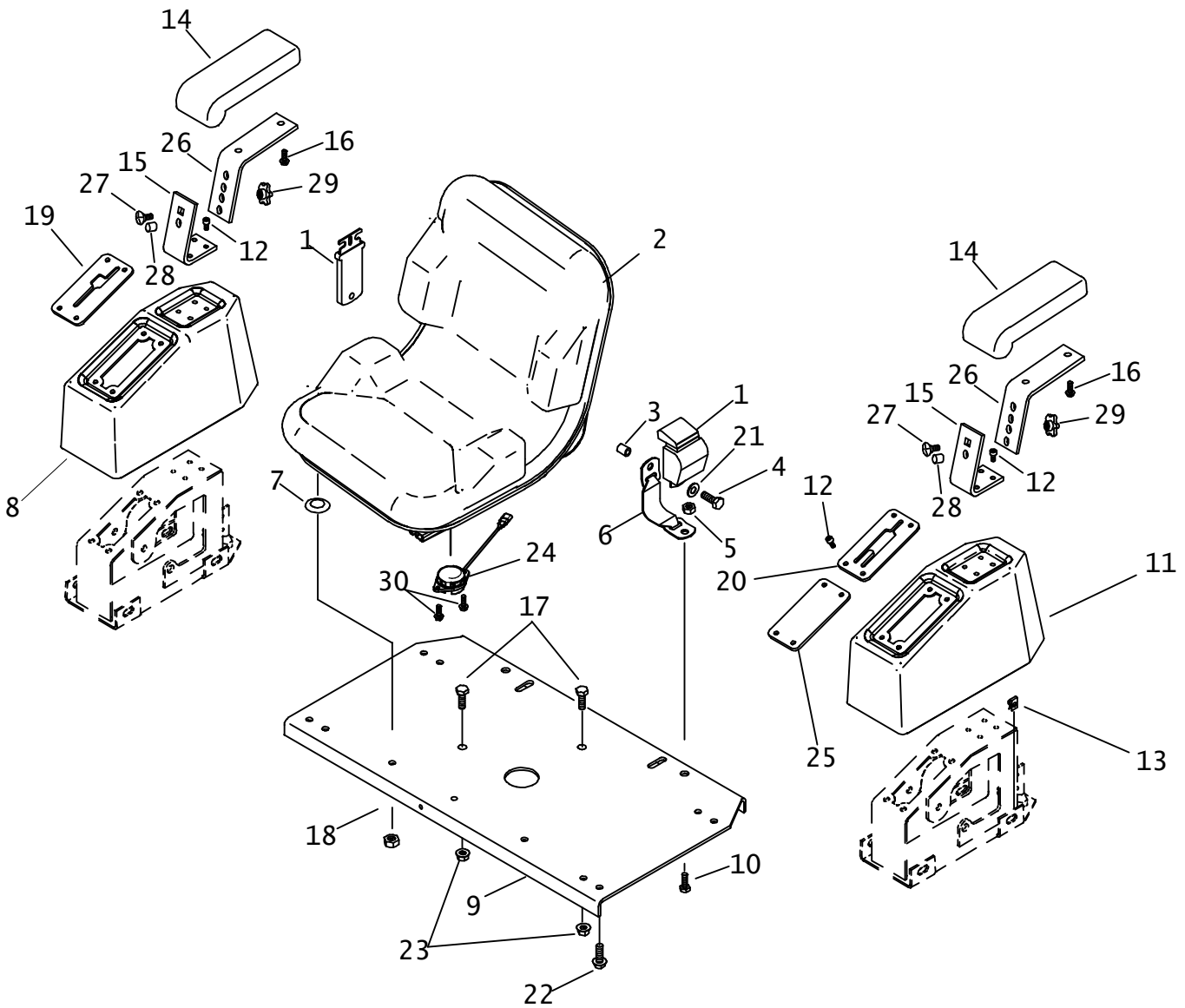
1. ARRANGE LINER PADS IN AN EVEN PATTERN ON THE INTERIOR SURFACES OF THE SIDE PLATES AND KICK PLATE. USE .12" THK AND .25" THK TO PROVIDE A SNUG FIT FOR THE TANK. APPLY AND ADJUST THE LINER PADS UNTIL THE LEAST MOVEMENT POSSIBLE HAS BEEN OBTAINED. THE TANK SHOULD NOT SHIFT WHEN FILLED.
2. REFER TO PAGE "BATTERY HOLD DOWN" FOR BATTERY INSTALLATION DETAILS.
3. ORIENT PADLOCK LUGS AWAY FROM STAIRWELL.
4. MORE THAN ONE SUPPORT MAT (117-442) MIGHT BE REQUIRED WITH DUAL BATTERY INSTALLATION, OR, POSSIBLY TO OBTAIN A SECURE FIT FOR SINGLE BATTERY INSTALLATION.
5. SCREWS (105-214) REPLACE SCREWS (107-781) THAT COME WITH FILL NECK FLANGE.

**NOTE:**

REF #1, FILL NECK (364-632) INCLUDES LOCKABLE CAP 153-760, FLG GASKET 153-607, & STRAINER BASKET 153-606. REFER TO F/N 5.

# SEAT PLATFORM

RT70H - RT75H - RT95H - RT95M



# SEAT PLATFORM

## RT70H - RT75H - RT95H - RT95M

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS  |
|---------|-------------|-----|---------------------------------|--|
| 1.      | 117-924     | 1   | SEAT BELT SET W/5.75" TONGUE    |  |
|         | 117-925     | -   | SEAT BELT TONGUE (5.75")        |  |
| 2.      | 117-429     | 1   | SEAT                            |  |
|         | 115-445     |     | REPLACEMENT SEAT                |  |
|         | 115-428     |     | ADJUSTABLE TRACK                |  |
| 3.      | 184-252     | 2   | BUSHING (.562" X 1" X .590")    |  |
| 4.      | 106-333     | 2   | SCREW (M12-1.75 X 40mm, 8.8)    |  |
| 5.      | 106-031     | 2   | LOCKNUT (M12-1.75, NLK)         |  |
| 6.      | 115-430     | 2   | SEAT BELT TETHER                |  |
| 7.      | 105-267     | 4   | CUP WASHER (5/16")              |  |
| 8.      | 309-431     | 1   | RIGHT SEAT CONSOLE              | SEE FOOTNOTE 2                                   |
|         | 324-563     | 1   | RIGHT SEAT CONSOLE              | USE ON HYDROSTATS WITH CRUISE CONTROL UNITS ONLY |
| 9.      | 314-594     | 1   | SEAT BASE                       |  |
| 10.     | 105-273     | 2   | SCREW (M12-1.75 X 30mm)         |  |
| 11.     | 305-649     | 1   | LEFT SEAT CONSOLE               |  |
| 12.     | 107-312     | 16  | SCREW (M6-1.00 X 25mm, BUT SOC) |  |
| 13.     | 106-574     | 8   | CLIP NUT (M6-1.00)              |  |
| 14.     | 117-314     | 2   | ARMREST                         |  |
| 15.     | 309-294     | 2   | LOWER ARMREST BRACKET           |  |
| 16.     | 106-159     | 4   | FLG SCREW (1/4-NC X 3/4")       |  |
| 17.     | 105-876     | 2   | SCREW (M10-1.50 X 35mm)         |  |
| 18.     | 105-089     | 4   | LOCKNUT (5/16-NC)               |  |
| 19.     | 319-158     | 1   | Z-GATE                          | SEE FOOTNOTE 2                                   |
| 20.     | 313-411     | 1   | Y-GATE                          | USED WITH COMBO ATTACHMENT                       |
|         | 316-479     | 1   | PLOW GATE                       | USED WITH PLOW ATTACHMENT                        |
| 21.     | 106-391     | 2   | WASHER (M12)                    |  |
| 22.     | 107-001     | 8   | FLG LK SCREW (M10-1.50 X 25mm)  |  |
| 23.     | 106-387     | 2   | FLG LOCKNUT (M10-1.50)          |  |
| 24.     | 215-1107    | 1   | SEAT SWITCH                     |  |
| 25.     | 310-801     | 1   | BLANK                           | USED ON MECHANICAL UNITS ONLY                    |
| 26.     | 313-707     | 2   | UPPER ARMREST BRACKET           |  |
| 27.     | 107-702     | 2   | CARRIAGE BOLT (3/8-NC X 3/4")   |  |
| 28.     | 107-698     | 2   | DOWEL PIN (.375 X .500)         |  |
| 29.     | 110-383     | 2   | KNOB (3/8-NC, BLACK)            |  |
| 30.     | 106-168     | 2   | FLG LK BOLT (1/4-NC X 3/4")     | SEE FOOTNOTE 1                                   |

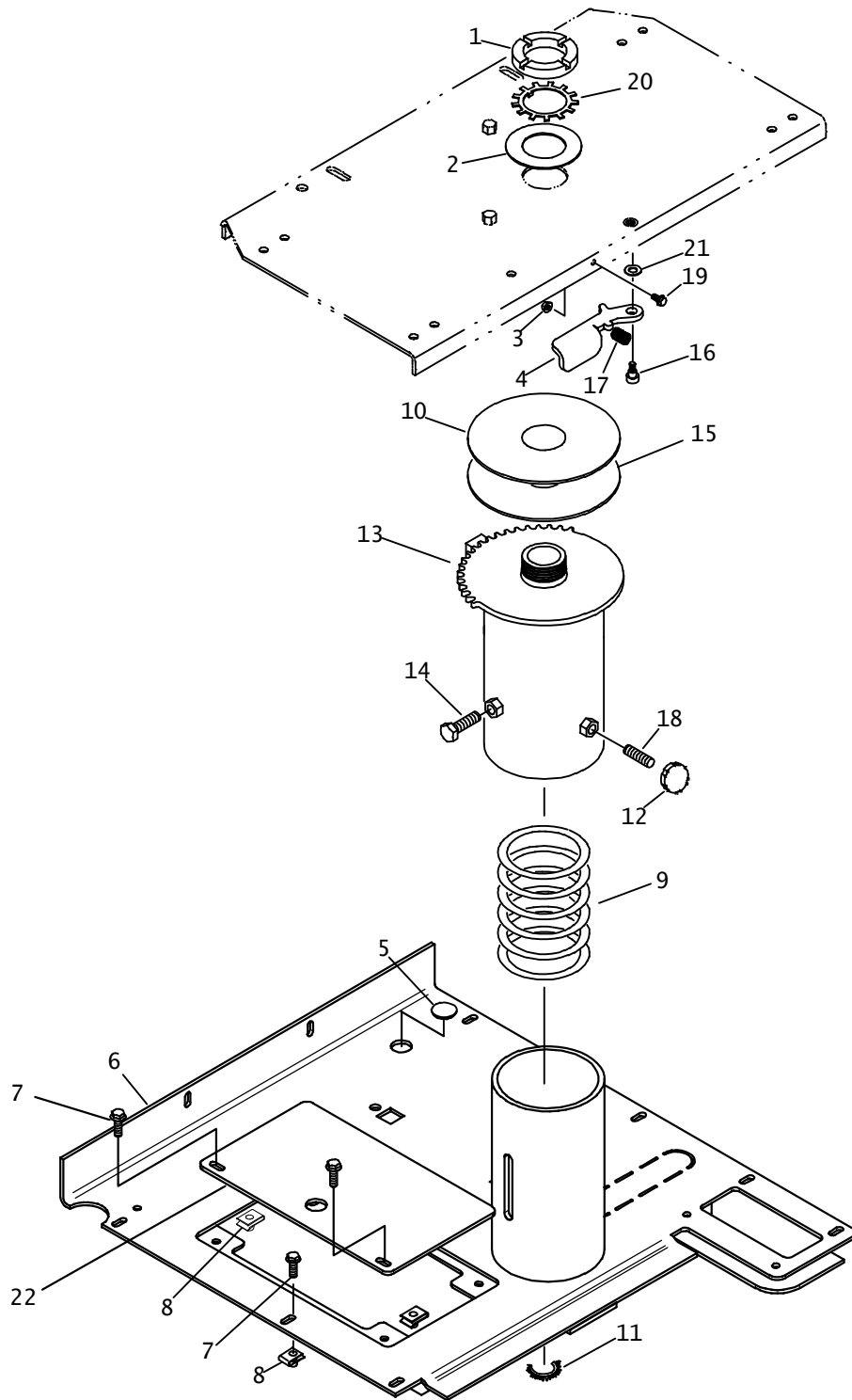
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#### FOOTNOTES:

1. USE LOCTITE 242 OR EQUIVALENT.
2. NOT USED ON HYDROSTAT UNITS WITH CRUISE CONTROL OPTION

NOTE:

## SEAT SWIVEL AND BASE



## SEAT SWIVEL AND BASE

| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS  |
|---------|-------------|-----|----------------------------------|--|
| 1       | 107-528     | 1   | PN10 SLOTTED NUT                 | SEE FOOTNOTE 2                                   |
| 2       | 106-522     | 1   | WASHER (2-1/16")                 |  |
| 3       | 106-385     | 1   | FLG LOCKNUT (M6-1.00)            |  |
| 4       | 308-895     | 1   | LEVER                            |  |
| 5       | 110-178     | 2   | PLUG (7/8")                      |  |
| 6       | 306-844     | 1   | SEAT BASE                        |  |
|         | 322-986     | 1   | SEAT BASE                        | FOR TIER 2 RT90 & RT115                          |
|         | 324-729     | 1   | SEAT BASE                        | FOR HT115  |
|         | 300-8537    | 1   | SEAT BASE                        | SEE FOOTNOTE 4 FOR INSTR. & BEG. S/N; FOOTNOTE 5 |
| 7       | 106-992     | 9   | FLG LK SCREW (M8-1.25 X 25mm)    | SEE FOOTNOTE 1                                   |
| 8       | 107-135     | 13  | CLIP NUT (M8-1.25)               |  |
| 9       | 117-816     | 1   | COMPRESSION SPRING               |  |
| 10      | 179-382     | 1   | SHIM (.020)                      |  |
| 11      | 115-662     | 1   | GROMMET EDGE (3/16" X 12.7")     |  |
| 12      | 110-383     | 1   | KNOB (3/8-NC, BLACK)             |  |
| 13      | 308-879     | 1   | SWIVEL                           |  |
| 14      | 106-559     | 1   | SCREW (M12-1.75 X 25mm)          |  |
| 15      | 117-301     | 1   | SWIVEL DISK (7" UHMW)            | SEE FOOTNOTE 3                                   |
| 16      | 107-582     | 1   | SHLD BOLT (3/8" X 1/4", 5/16-NC) | SEE FOOTNOTE 1                                   |
| 17      | 115-645     | 1   | COMPRESSION SPRING               |  |
| 18      | 106-121     | 1   | STUD BOLT (3/8-NC X 1-1/2")      |  |
| 19      | 106-986     | 1   | FLG LK SCREW (M6-1.00 X 12mm)    |  |
| 20      | 107-606     | 1   | TANG LOCK WASHER (2")            |  |
| 21      | 105-095     | 1   | WASHER (1/4")                    |  |
| 22      | 300-8446    | 1   | ACCESS PANEL                     | SEE FOOTNOTE 4 FOR INSTR. & BEG. S/N; FOOTNOTE 5 |

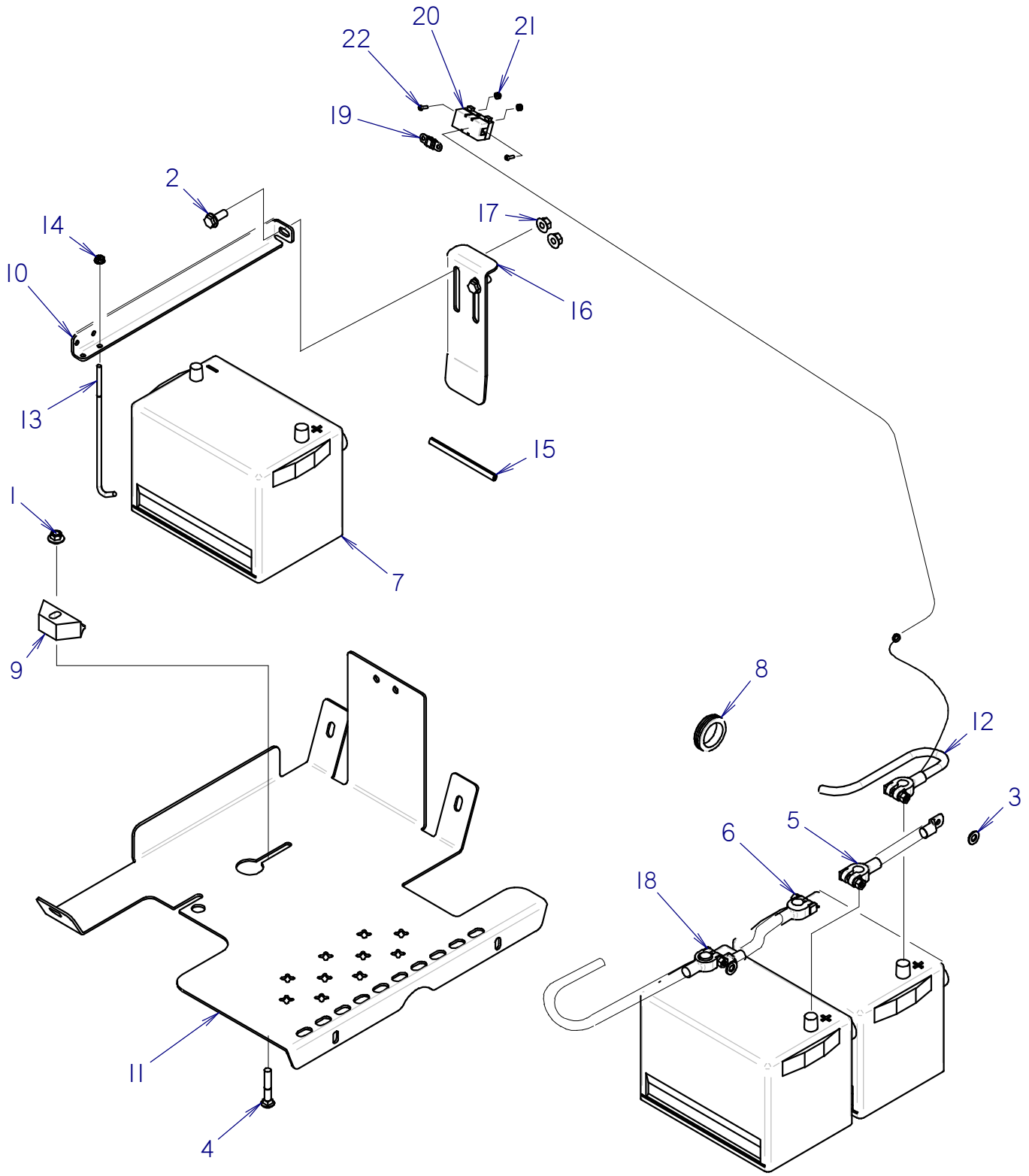
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### FOOTNOTES:

- USE LOCTITE 242 OR EQUIVALENT
- TORQUE SPANNER NUT TO PREVENT ROTATION, THEN REVERSE DIRECTION AND LOOSEN 1/8 OF A TURN.
- NO LUBRICANT ON ITEM #15
- SEAT BASE 300-8537, ACCESS PANEL 300-8446 MUST BE USED TOGETHER.  
BEGINS WITH SERIAL NUMBERS; RT95ME90000274 RT95HJ90000351 RT115T3T90000125.
- USE 2X 106-264 FOR RETAINING 300-8446 TO 300-8537 IF WELDNUTS ARE PRESENT.  
BEGINS WITH SERIAL NUMBERS; RT95HP90000380 RT95ME90000291 RI5T3L90000135.

NOTE:

# BATTERY HOLD DOWN



# BATTERY HOLD DOWN

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS |
|---------|-------------|-----|--------------------------------|---------|
| 1       | 105-814     | 1   | FLG LOCKNUT (3/8-NC)           |         |
| 2       | 107-001     | 2   | FLG LK SCREW (M10-1.50 X 25MM) |         |
| 3       | 106-390     | 2   | WASHER (M10)                   |         |
| 4       | 108-067     | 1   | CARRIAGE BOLT (3/8-NC X 2")    |         |
| 5       | 215-349     | 1   | BAT CABLE (2 GA X 8", RED)     |         |
| 6       | 215-350     | 1   | BAT CABLE (2 GA X 8", BLK)     |         |
| 7       | 215-244     | 1   | BATTERY                        |         |
| 8       | 115-320     | 1   | GROMMET (1-1/2")               |         |
| 9       | 107-554     | 1   | BATTERY HOLD DOWN              |         |
| 10      | 322-951     | 1   | BATTERY HOLD DOWN              |         |
| 11      | 307-311     | 1   | HYDRAULIC TANK STEP            |         |
| 12      | 213-255     | 1   | BAT CABLE (2/0 X 50", RED)     |         |
| 13      | 179-799     | 1   | J-HOOK                         |         |
| 14      | 105-832     | 1   | FLG LOCKNUT (1/4-NC)           |         |
| 15      | 116-789     | AR  | RUBBER EDGE TRIM 1/8" (FT)     |         |
| 16      | 320-112     | 1   | HOLD DOWN                      |         |
| 17      | 106-387     | 2   | FLG LOCKNUT (M10-1.50)         |         |
| 18      | 215-338     | 1   | BAT CABLE (2/0 GA X 65", BLK)  |         |
| 19      | 211-305     | 1   | BK/AMI 125 AMP FUSE            |         |
| 20      | 363-714     | 1   | MODIFIED FUSE PANNEL ASSEMBLY  |         |
| 21      | 107-859     | 2   | NUT, LOCK, #6-32, NYLON INSERT |         |
| 22      | 106-367     | 2   | SCREW (#6-32 X 1/2" PLPS SS)   |         |

NOT SHOWN:

215-375 1 BAT CABLE 1/0 GA X 24", BLK)  
 215-309 1 BAT CABLE 14 GA X 20", BLK)

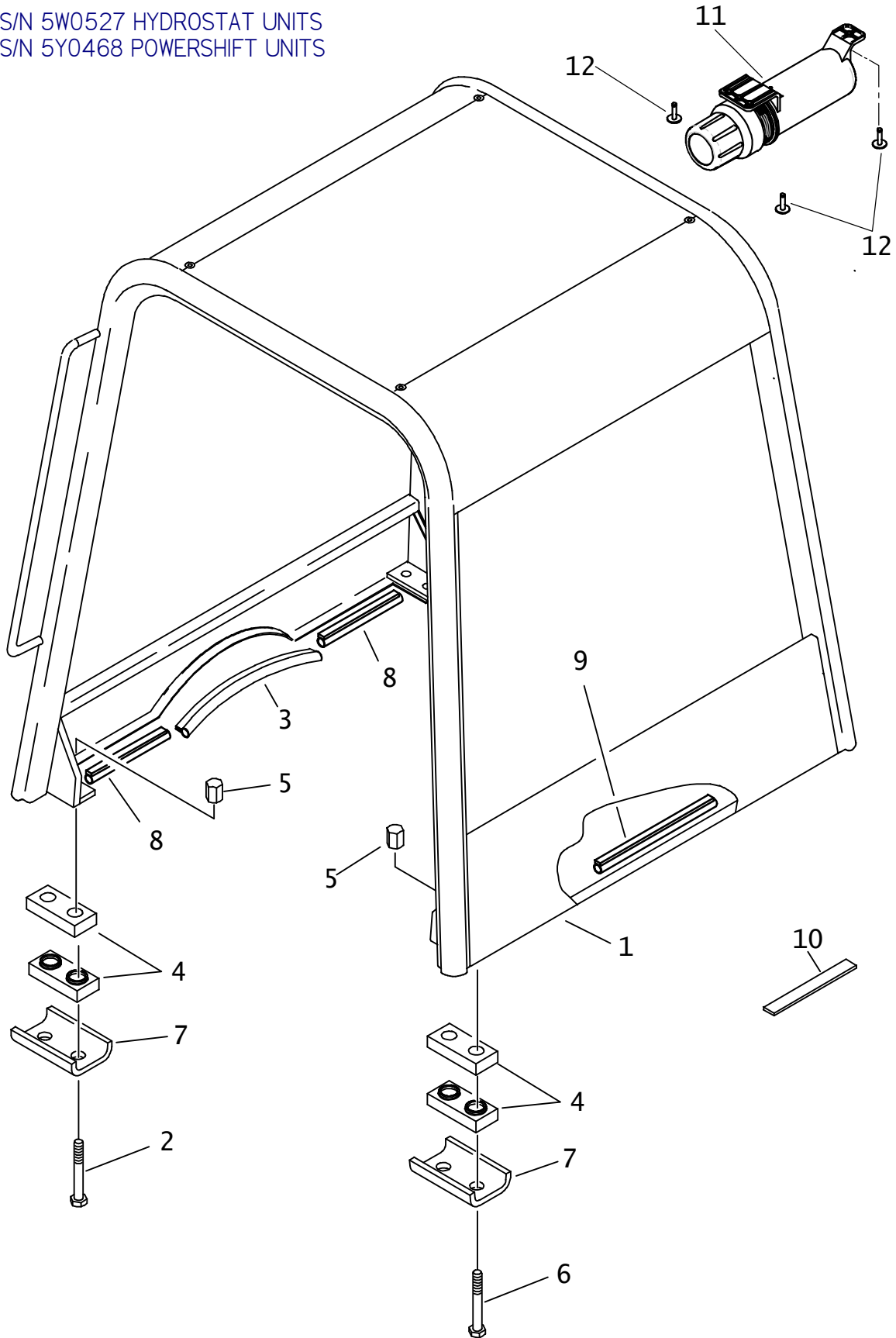
FOOTNOTES:

NOTE:



# 4 - POST ROPS

BEGINS WITH S/N 5W0527 HYDROSTAT UNITS  
BEGINS WITH S/N 5Y0468 POWERSHIFT UNITS



## 4 - POST ROPS

BEGINS WITH S/N 5W0527 HYDROSTAT UNITS

BEGINS WITH S/N 5Y0468 POWERSHIFT UNITS

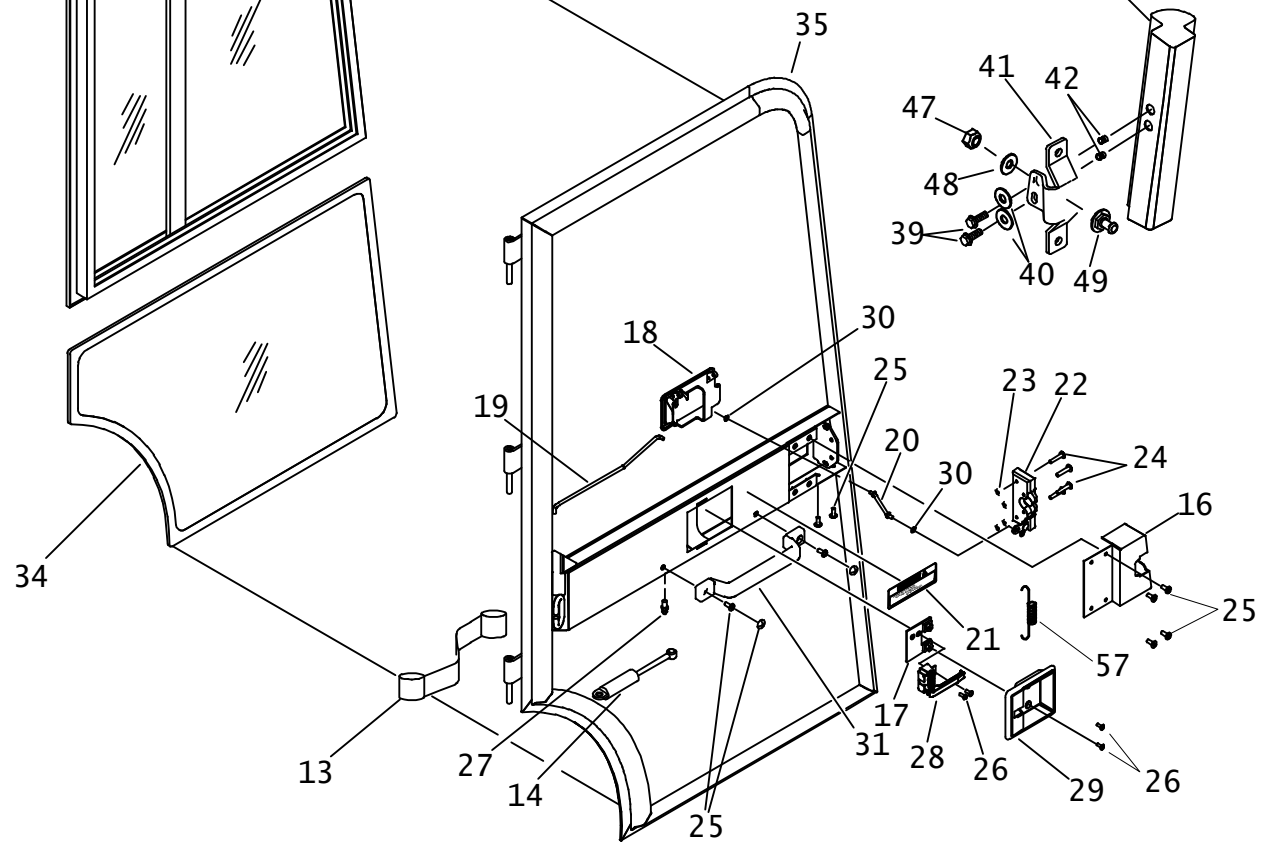
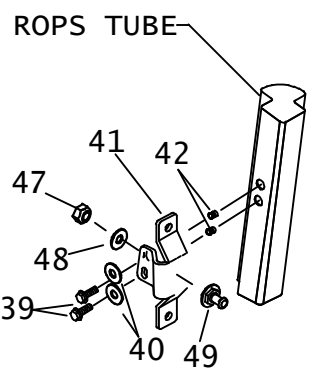
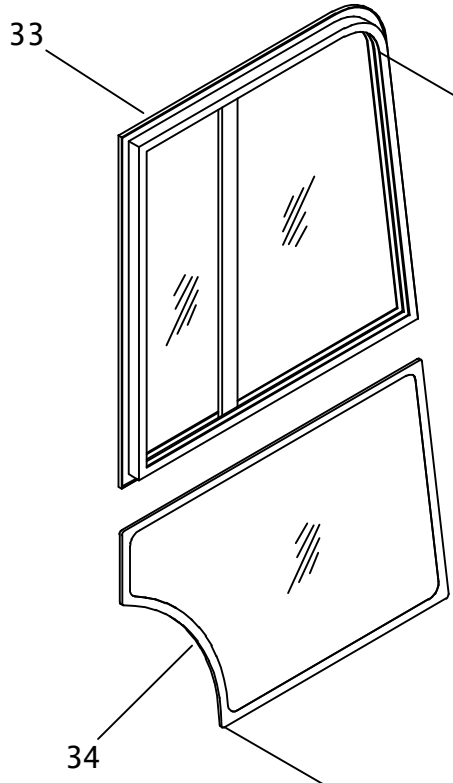
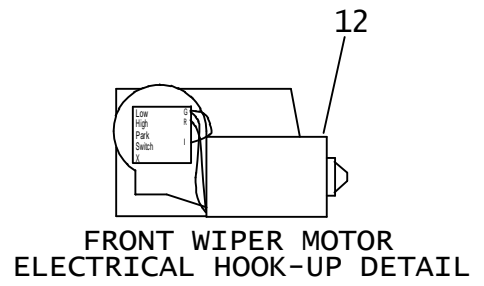
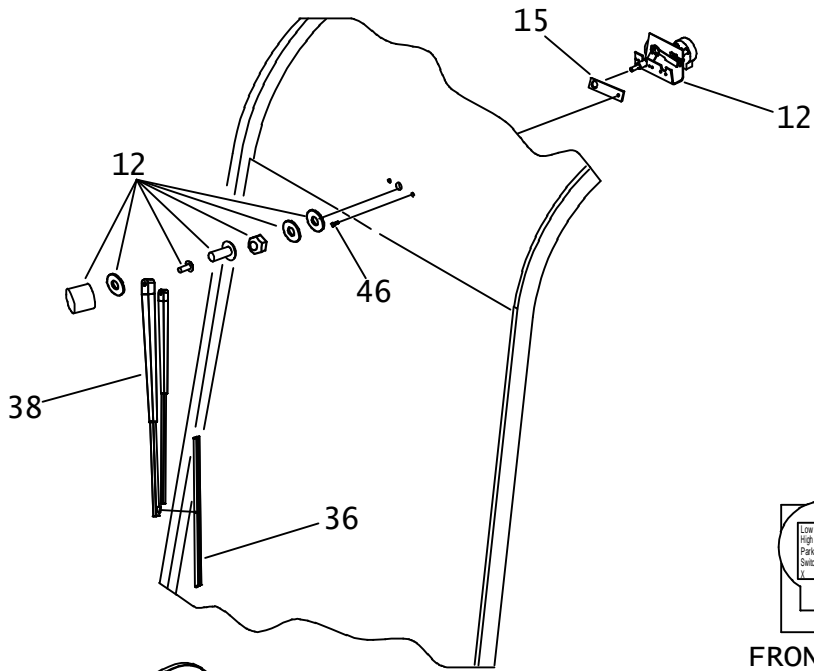
| REF PART<br>NO. | NUMBER  | QTY | DESCRIPTION                        | REMARKS             |
|-----------------|---------|-----|------------------------------------|---------------------|
| 1.              | 320-250 | 1   | 4-POST ROPS FRAME                  |                     |
| 2.              | 107-923 | 4   | SCREW (3/4-NC X 5", GD5) SPEC.     | REFER TO FOOTNOTE 1 |
| 3.              | 116-421 | AR  | BULK EDGE (1/8", SOLD PER 1')      | USE 1@ 2.5 FT       |
| 4.              | 117-973 | 8   | SHOCK MOUNT                        |                     |
| 5.              | 107-924 | 8   | NUT (3/4-NC) SPECIAL               |                     |
| 6.              | 107-922 | 4   | SCREW (3/4-NC X 4-1/2", GD5) SPEC. | REFER TO FOOTNOTE 2 |
| 7.              | 320-240 | 4   | ISOLATOR IRON                      |                     |
| 8.              | 117-344 | AR  | BULK EDGE (3/16", SOLD PER 1")     | USE 2 @ 1 FT.       |
| 9.              | 117-344 | AR  | BULK EDGE (3/16", SOLD PER 1")     | USE 1 @ 3.5 FT.     |
| 10.             | 320-745 | 1   | CHECK GAUGE                        |                     |
| 11.             | 250-063 | 1   | MANUAL COMPARTMENT                 |                     |
| 12.             | 110-348 | 3   | POP RIVET (3/16" X .664")          |                     |

### FOOTNOTES

1. SCREW (107-923) HAS GOLD PLATING TO DISTINGUISH IT FROM SCREW (107-922). PROPER LOCATION IS IMPORTANT FOR PROPER ASSEMBLY OF THE ROPS. TORQUE TO 200 Ft.Lbs, USE LOCTITE 271 OR EQUIVALENT.
2. SCREW (107-922) HAS SILVER PLATING TO DISTINGUISH IT FROM SCREW (107-923). PROPER LOCATION IS IMPORTANT FOR PROPER ASSEMBLY OF THE ROPS. TORQUE TO 200 Ft.Lbs, USE LOCTITE 271 OR EQUIVALENT.

NOTE:

# CAB KIT



# CAB KIT

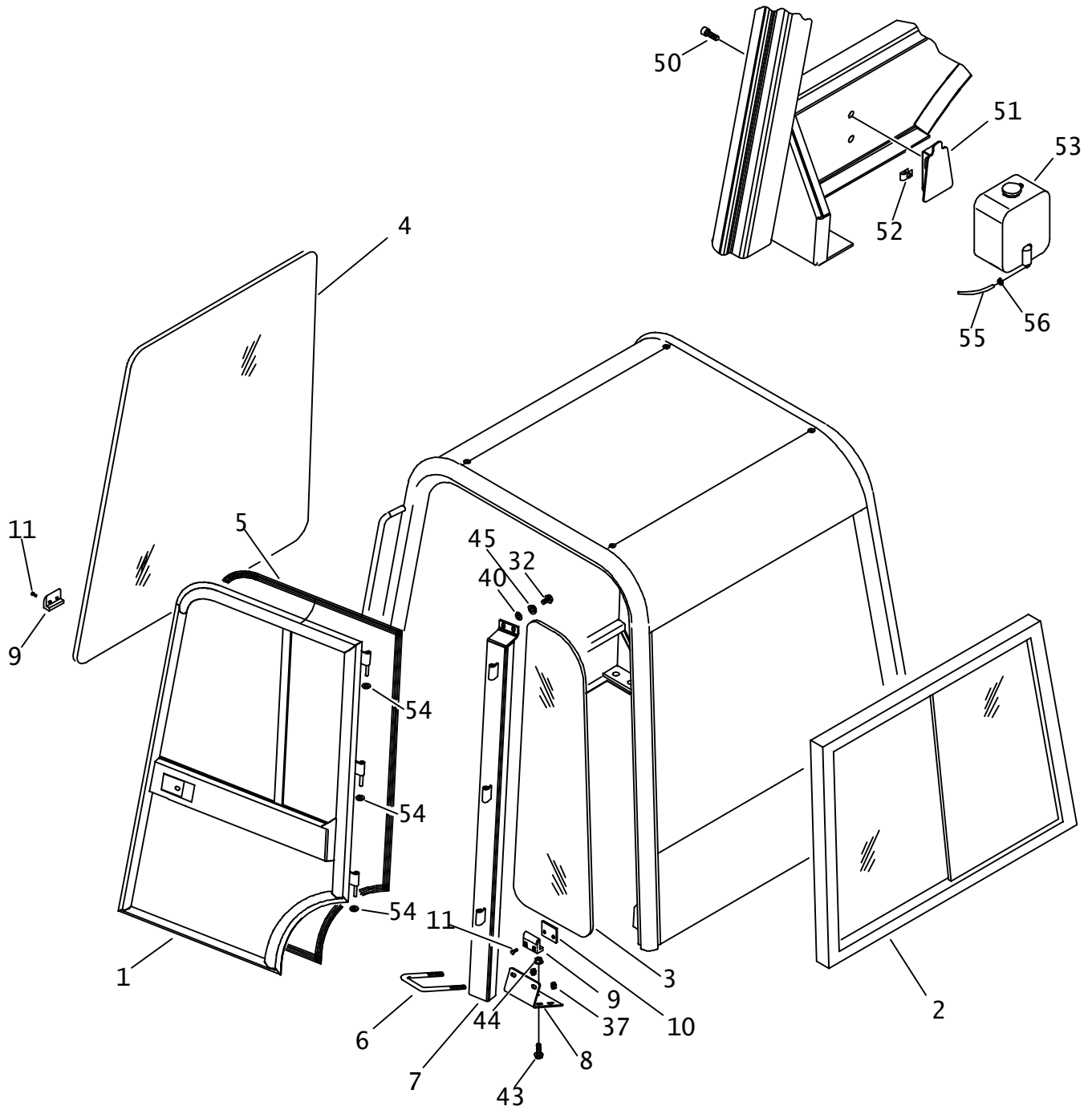
| REF NO. | PART NUMBER | QTY | DESCRIPTION                       | REMARKS                              |
|---------|-------------|-----|-----------------------------------|--------------------------------------|
|         | 191-179     |     | CAB KIT                           | INCL. REF. #S I-57                   |
| 1.      | 499-436     | 1   | DOOR ASSY (RIGHT)                 |                                      |
|         | 499-437     | 1   | DOOR ASSY (LEFT)                  |                                      |
| 2.      | 121-044     | 1   | SLIDER ASS'Y (REAR)               | SEE NOT SHOWN FOR REPLACEMENT LATCH. |
|         | 499-747     | -   | WINDOW FRAME                      | OBSOLETE                             |
|         | 499-748     | -   | REAR WINDOW                       |                                      |
| 3.      | 121-045     | 1   | SIDE WINDOW (LEFT)                |                                      |
|         | 121-046     | 1   | SIDE WINDOW (RIGHT)               |                                      |
| 4.      | 121-047     | 1   | FRONT WINDOW                      |                                      |
| 5.      | 117-829     | 21  | SEAL, PSA DOUBLE D                |                                      |
| 6.      | 318-374     | 1   | U-CLAMP                           |                                      |
| 7.      | 318-358     | 1   | DOORPOST (LEFT)                   |                                      |
|         | 318-359     | 1   | DOORPOST (RIGHT)                  |                                      |
| 8.      | 318-375     | 2   | BRACKET, LOWER DOOR POST          |                                      |
| 9.      | 318-376     | 2   | WINDOW RETAINING CLIP             |                                      |
| 10.     | 318-377     | 2   | PLATE                             |                                      |
| 11.     | 107-786     | 32  | SCREW, (#10-32 X 1-1/2") HEX      |                                      |
| 12.     | 214-897     | 1   | WIPER MOTOR                       |                                      |
| 13.     | 499-441     | 2   | DOOR STRAP                        |                                      |
| 14.     | 499-438     | 2   | GAS SPRING STRUT                  |                                      |
| 15.     | 119-003     | 1   | SPACER, WIPER MOTOR               |                                      |
| 16.     | 318-360     | 1   | CAM LATCH COVER (RIGHT)           |                                      |
|         | 318-361     | 1   | CAM LATCH COVER (LEFT)            |                                      |
| 17.     | 318-362     | 1   | INNER BRACKET (RIGHT)             |                                      |
|         | 318-363     | 1   | INNER BRACKET (LEFT)              |                                      |
| 18.     | 117-825     | 1   | L. LATCH, PADDLE W/KEY            |                                      |
|         | 117-854     | 1   | R. LATCH, PADDLE W/KEY            |                                      |
| 19.     | 117-821     | 1   | LEFT ROD, DOOR LINKAGE            |                                      |
|         | 117-855     | 1   | RIGHT ROD, DOOR LINKAGE           |                                      |
| 20.     | 117-856     | 2   | ROD, DOOR LINKAGE                 |                                      |
| 21.     | 273-279     | 1   | WARNING TAG                       |                                      |
| 22.     | 117-824     | 1   | LEFT LATCH, ROTARY                |                                      |
|         | 117-857     | 1   | RIGHT LATCH, ROTARY               |                                      |
| 23.     | 105-085     | 4   | LOCKNUT (1/4-NC)                  |                                      |
| 24.     | 107-787     | 4   | SCREW (1/4-20 X 1-1/4) TRUS,TORX  |                                      |
| 25.     | 107-788     | 8   | SCREW (1/4 X 5/8)TRUS, TORX T27   | COMES WITH SNAP-ON COVER             |
| 26.     | 107-789     | 4   | SCREW (#10-24 X 1/2 ") TRUS, TORX |                                      |
| 27.     | 166-450     | 1   | STUD, CYLINDER                    |                                      |
| 28.     | 117-823     | 1   | LEFT HANDLE, INSIDE               |                                      |
|         | 117-858     | 1   | RIGHT HANDLE, INSIDE              |                                      |
| 29.     | 499-440     | 1   | INSIDE DOOR BEZEL                 |                                      |
| 30.     | 117-828     | 4   | RETAINER, INTERNAL TOOTH          |                                      |
| 31.     | 499-439     | 1   | DOOR PULL                         |                                      |
| 32.     | 107-245     | 4   | FLG LK BOLT (3/8-NC X 3/4", NLK)  |                                      |

## NOTE:

### MOUNTING A CAB ON THE RT70/RT90/RT115

1. A CAB CAN BE MOUNTED DIRECTLY ON RT70M OR RT90M WHEN OLD ROPS HAS NOT BEEN MODIFIED WITH THE NEW ISOLATORS.
2. A CAB CAN NOT BE MOUNTED ON A RT70H, RT90H OR RT115H WHEN AN OLD ROPS HAS BEEN MOFIFIED WITH THE NEW ISOLATORS.
3. A CAB CAN BE MOUNTED ON A RT79H, RT90H OR RT115H WITH A NEW ROPS WITH THE NEW ISOLATORS.

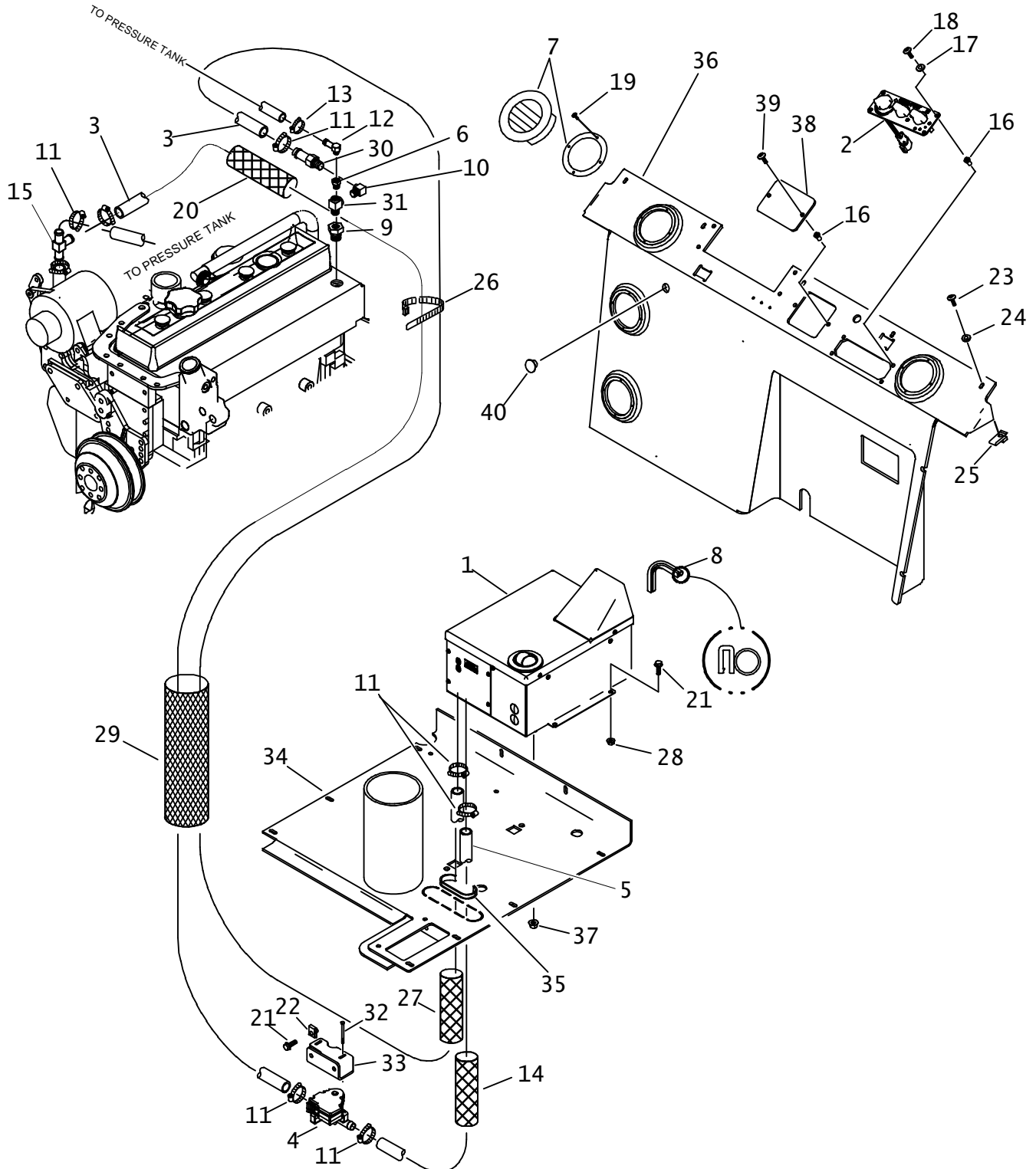
# CAB KIT



# CAB KIT

| REF NO.    | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                                 |
|------------|-------------|-----|---------------------------------|---|
| 33.        | 121-048     | 1   | SLIDER, (LEFT DOOR)             | SEE NOT SHOWN FOR REPLACEMENT LATCH.    |
|            | 121-049     | 1   | SLIDER, (RIGHT DOOR)            | SEE NOT SHOWN FOR REPLACEMENT LATCH.    |
| 34.        | 121-050     | 1   | GLASS (LOWER DOOR), LEFT        |   |
|            | 121-051     | 1   | GLASS (LOWER DOOR), RIGHT       |   |
| 35.        | 318-364     | 1   | RIGHT DOOR                      |   |
|            | 318-365     | 1   | LEFT DOOR                       |   |
| 36.        | 121-052     | 1   | WIPER BLADE                     |   |
| 37.        | 105-047     | 4   | LOCKNUT (3/8-NC)                |   |
| 38.        | 121-053     | 1   | WIPER ARM                       |   |
| 39.        | 106-991     | 8   | FLG LK SCREW (M8-1.25 X 20mm)   |   |
| 40.        | 106-415     | 8   | WASHER (.406")                  |   |
| 41.        | 117-826     | 1   | STRIKE BRACKET (RIGHT)          |   |
|            | 117-827     | 1   | STRIKE BRACKET (LEFT)           |   |
| 42.        | 106-565     | 8   | NUTSERT, (M8-1.25)              |   |
| 43.        | 106-469     | 8   | FLG SCREW (M12-1.75 X 30mm)     |   |
| 44.        | 106-709     | 8   | FLG LK NUT (M12-1.75)           |   |
| 45.        | 105-895     | 4   | LOCK WASHER (3/8")              |   |
| 46.        | 105-865     | 1   | BOLT (1/4-NC X 3/4", GD8)       |   |
| 47.        | 105-151     | 2   | LOCKNUT (7/16-NC)               |   |
| 48.        | 105-059     | 2   | WASHER (7/16)                   |   |
| 49.        | 117-861     | 2   | STRIKER BOLT                    |   |
| 50.        | 107-778     | 2   | SCREW (M8-1.25 X 30mm, BUT SOC) |   |
| 51.        | 318-879     | 1   | BOTTLE BRACKET                  |   |
| 52.        | 107-135     | 2   | CLIP NUT (M8-1.25)              |   |
| 53.        | 344-115     | 1   | WINDSHIELD WASHER TANK          |   |
| 54.        | 107-875     | 6   | WASHER (.400" ID. BRASS)        |   |
| 55.        | 116-866     | AR  | BULK HOSE (3/16", SOLD PER 1")  | USE 1 @ 150"                            |
| 56.        | 110-249     | 1   | WORM CLAMP (1/4"TO 5/8")        |   |
| 57.        | 118-357     | 1   | EXTENSION SPRING                |   |
| NOT SHOWN: |             |     |                                 |   |
|            | 256-669     | 2   | URETHANE ADHESIVE               | 10.5 FL. OZ. TUBES                      |
|            | 105-1305    | 1   | KEYS (RT TRACTOR CAB)           | REPLACEMENT KEYS                        |
|            | 115-1014    | 2   | CLIP                            | RETAINS STRUT 499-438 ONTO STUD 166-450 |
|            | 500-2067    |     | LEFT SLIDER LATCH REAR          | USED ON 121-044 SLIDER (REAR)           |
|            | 500-2068    |     | RIGHT SLIDER LATCH REAR         | USED ON 121-044 SLIDER (REAR)           |
|            | 500-2069    |     | LEFT SLIDER LATCH               | USED ON 121-048 SLIDER (LT DOOR)        |
|            | 500-2070    |     | RIGHT SLIDER LATCH              | USED ON 121-049 SLIDER (RT DOOR)        |
| NOTE:      |             |     |                                 |   |

# CAB HEATER ASS'Y RT95 TIER2



# CAB HEATER ASS'Y

## RT95 TIER2

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS        |
|---------|-------------|-----|---------------------------------|----------------|
|         | 191-377     |     | A/C HEATER KIT                  |                |
|         | 191-376     |     | HEATER KIT                      |                |
| 1.      | 499-802     | 1   | MODEL EE320, HVAC, 12V          | SEE FOOTNOTE 1 |
|         | 194-439     | 1   | HEATER                          | SEE FOOTNOTE 1 |
| 2.      | 499-837     | 1   | CONTROL PANEL, FAN-AC-HT        | SEE FOOTNOTE 2 |
| 3.      | 116-044     | AR  | BULK HOSE (5/8" , SOLD PER 1")  | USE 2 @ 90"    |
| 4.      | 499-705     | 1   | HEATER VALVE                    |                |
| 5.      | 116-044     | AR  | BULK HOSE (5/8" , SOLD PER 1")  | USE 1 @ 22"    |
| 6.      | 115-106     | 1   | REDUCER (06N-04NF)              |                |
| 7.      | 499-833     | 4   | LOUVER MOUNT, 3.1" HOLE         |                |
| 8.      | 117-344     | AR  | BULK EDGE (3/16", SOLD PER FT)  | USE 1 @ 16"    |
| 9.      | 514-085     | 1   | REDUCER (08N-06NF)              |                |
| 10.     | 156-260     | 1   | STREET ELBOW (06N-06NF90)       |                |
| 11.     | 110-217     | 8   | WORM CLAMP (7/16"TO 1")         |                |
| 12.     | 155-164     | 1   | S/O COUPLER (04N-05H90)         |                |
| 13.     | 110-249     | 1   | WORM CLAMP (1/4"TO 5/8")        |                |
| 14.     | 117-622     | 1   | ABRASION SLEEVE (1.25" X 20")   |                |
| 15.     | 514-159     | 1   | S/O TEE (10H)                   |                |
| 16.     | 107-358     | 6   | WELLNUT (M4-0.7 X 12.67mm LG)   |                |
| 17.     | 107-597     | 4   | WASHER (M4)                     |                |
| 18.     | 107-580     | 4   | SCREW (M4-0.70 X 16mm, BUT SOC) |                |
| 19.     | 107-852     | 16  | SCREW (#8 X 5/8" CSK PLPS)      |                |
| 20.     | 117-397     | 1   | ABRASION SLEEVE (1.25" X 35")   |                |
| 21.     | 106-992     | 4   | FLG LK SCREW (M8-1.25 X 25mm)   |                |
| 22.     | 107-135     | -   | CLIP NUT (M8-1.25)              |                |
| 23.     | 106-640     | -   | SCREW (M6-1.00 X 20mm, BUT SOC) |                |
| 24.     | 106-388     | -   | WASHER (M6)                     |                |
| 25.     | 106-574     | -   | CLIP NUT (M6-1.00)              |                |
| 26.     | 110-030     | 1   | CABLE TIE (1/16" TO 4")         |                |
| 27.     | 117-396     | 1   | ABRASION SLEEVE (1.25" X 28")   |                |
| 28.     | 106-386     | 4   | FLG LOCKNUT (M8-1.25)           |                |
| 29.     | 117-265     | 1   | ABRASION SLEEVE (1.75" X 50")   |                |

NOT SHOWN:



# CAB HEATER ASS'Y

## RT95 TIER2

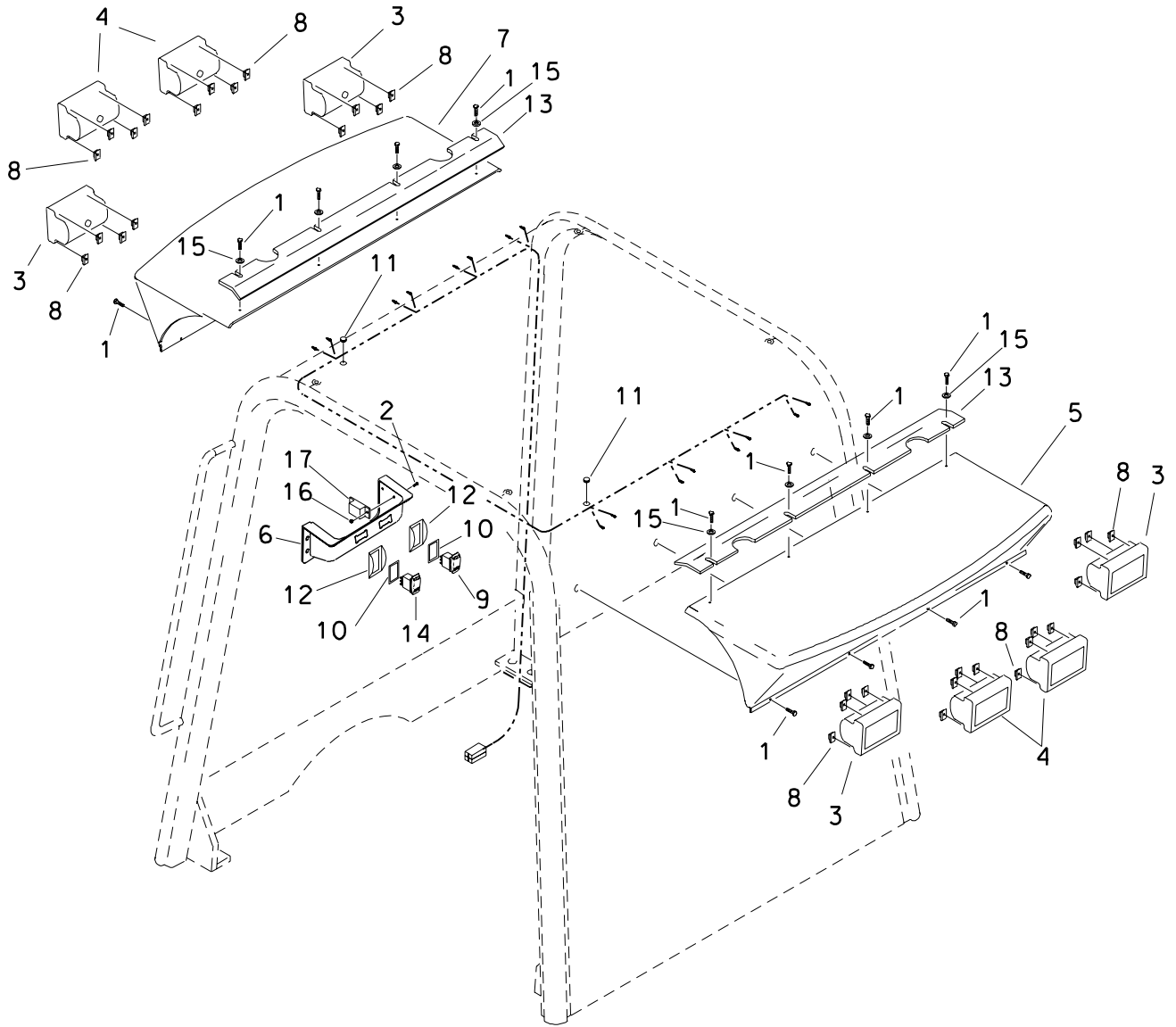
| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS  |
|---------|-------------|-----|--------------------------------|--|
| 30.     | 155-112     | 1   | S/O COUPLER (06N-10H)          |  |
| 31.     | 155-017     | 1   | SERVICE TEE (06N-06NF-06NF)    |  |
| 32.     | 108-113     | 2   | SCREW (#6-19 X 1-1/4" PLASTIC) |  |
| 33.     | 318-811     | 1   | VALVE BRACKET                  |  |
| 34.     | 322-986     | -   | SEAT BASE                      |  |
| 35.     | 115-662     | 1   | GROMMET EDGE (3/16" X 12.7")   |  |
| 36.     | 362-1233    | 1   | REAR PANEL W/ AC DUCT          |  |
| 37.     | 105-814     | 4   | FLG LOCKNUT (3/8-NC)           | SCREWS ONTO STUD BOLTS ON BOTTOM OF REF #1 (499-802) |
| 38.     | 322-871     | 1   | TDM COVER                      |  |
| 39.     | 107-393     | 2   | SCREW (M4-0.70 X 16mm, BX)     |  |
| 40.     | 157-333     | 1   | HOLE PLUG (.750")              |  |

### NOT SHOWN:

|         |                                   |
|---------|-----------------------------------|
| 213-174 | SWITCH, THERMOSTAT                |
| 499-704 | BLOWER MOTOR                      |
| 499-829 | COIL, EVAP                        |
| 499-830 | COIL, HEAT                        |
| 499-831 | VALVE, EXP BLOCK                  |
| 499-834 | WIRE HARNESS                      |
| 499-835 | RECIRCULATION AIR FILTER          |
| 499-842 | HOSE, DRAIN                       |
| 499-843 | FTG, DRAIN                        |
| 499-844 | CONDENSATE VALVE                  |
| 255-008 | REFRIGERANT (30 LB. BOTTLE)       |
| 499-707 | BLOWER SWITCH                     |
| 499-708 | A/C SWITCH                        |
| 499-709 | WATER VALVE CONTROL               |
| 499-838 | BRACKET, CONTROL PANEL            |
| 499-839 | DECAL CONTROLS                    |
| 499-840 | KNOB, POINTER PUSH ON             |
| 194-289 | A/C HEATER KIT                    |
| 213-041 | A/C HARNESS                       |
| 217-826 | MINI RELAY (SPDT)                 |
| 362-823 | COVER, FITS IN SLOT ON REAR PANEL |



# CANOPY AND LIGHT KIT



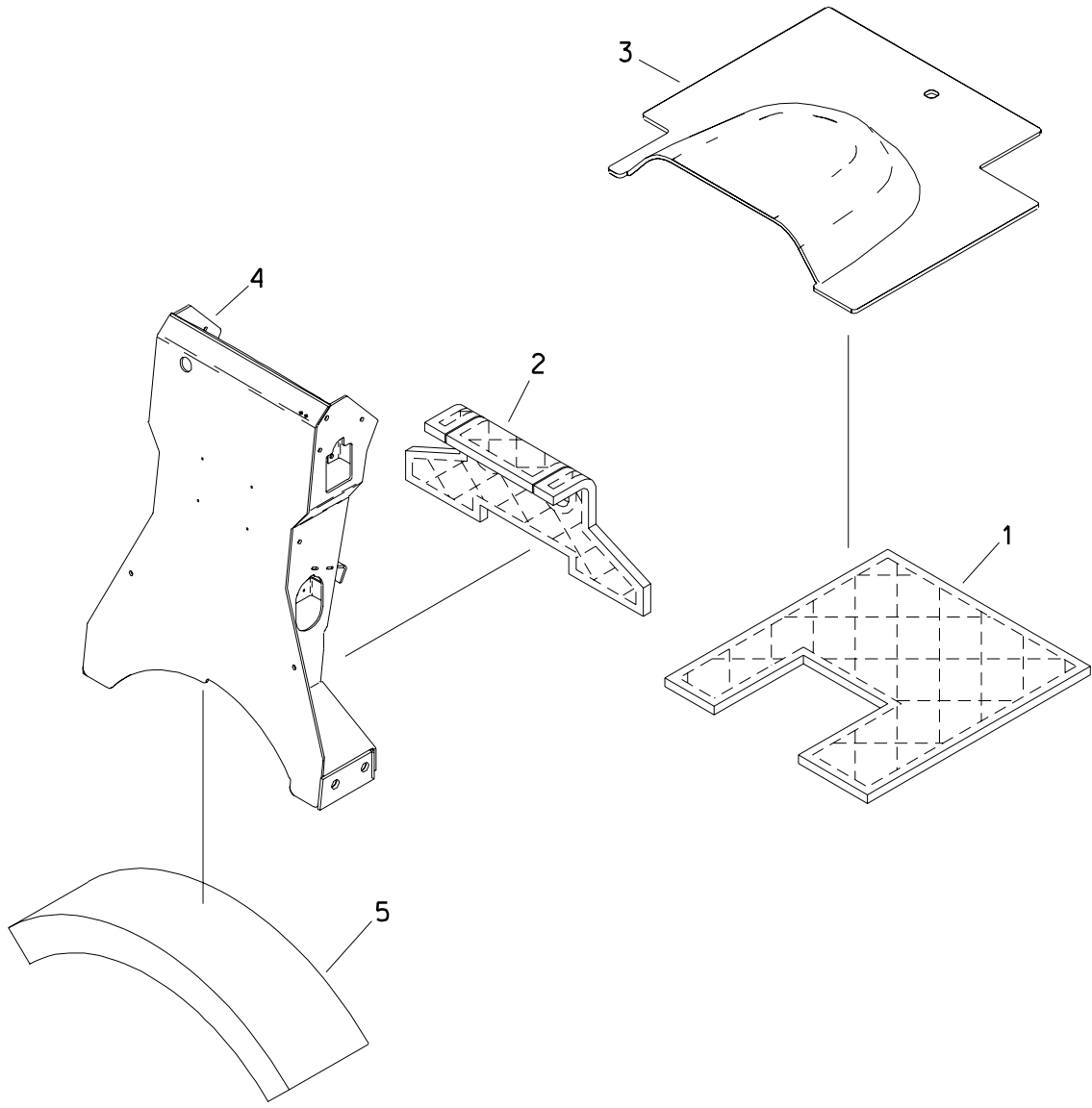
# CANOPY AND LIGHT KIT

| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS                         |
|---------|-------------|-----|----------------------------------|---------------------------------|
|         | 191-180     |     | LIGHT KIT                        | INCLUDES REF #'S 1-17           |
| 1.      | 107-716     | 16  | SCREW (1/4" - 14 x 7/8" SLF DRL) |                                 |
| 2.      | 105-185     | 2   | BOLT (#10-24 X 1/2", RD SLT)     |                                 |
| 3.      | 217-288     | 4   | WORK LIGHT (100FO)               |                                 |
| 4.      | 217-287     | 4   | WARNING LIGHT                    |                                 |
| 5.      | 305-658     | 1   | EYE-BROW CANOPY                  |                                 |
| 6.      | 308-894     | 1   | OVERHEAD CONSOLE                 |                                 |
| 7.      | 310-113     | 1   | FRONT EYE-BROW CANOPY            |                                 |
| 8.      | 107-405     | 32  | CLIP NUT (6-32)                  |                                 |
| 9.      | 217-762     | 1   | ROCKER SWITCH (SPDT)             |                                 |
| 10.     | 165-817     | 2   | SWITCH GASKET                    |                                 |
| 11.     | 115-349     | 2   | GROMMET (1/2")                   | DRILL 2-23/32" HOLES ON DIMPLES |
| 12.     | 110-854     | 2   | SWITCH ACTUATOR GUARD            |                                 |
| 13.     | 318-661     | 2   | STRAP                            |                                 |
| 14.     | 214-912     | 1   | DPST ON-OFF ROCKER SWITCH        |                                 |
| 15.     | 105-284     | 8   | WASHER (3/16")                   |                                 |
| 16.     | 106-048     | 2   | LOCKNUT (#10-24)                 |                                 |
| 17.     | 215-041     | 1   | FLASHER                          |                                 |

NOT SHOWN:  
362-823 COVER

FOOTNOTES

# SOUND BLANKETS



# SOUND BLANKETS

| REF NO. | PART NUMBER | QTY | DESCRIPTION   | REMARKS                            |
|---------|-------------|-----|---------------|------------------------------------|
| 1.      | 117-833     | 1   | SOUND BLANKET | POWERSHIFT ONLY                    |
|         | 117-832     | 1   | SOUND BLANKET | HT115 AND HYDROSTAT ONLY           |
| 2.      | 117-834     | 1   | SOUND BLANKET | USED ON RT/HT115 & POWERSHIFT ONLY |
|         | 117-835     | 1   | SOUND BLANKET | USED ON RT75/95 HYDROSTAT ONLY     |
| 3.      | 313-238     | -   | FLOOR PLATE   |                                    |
|         | 318-793     | -   | FLOOR PLATE   |                                    |
|         | 324-566     | -   | FLOOR PLATE   | HT115 ONLY                         |
| 4.      | 315-142     | -   | PEDESTAL      |                                    |
| 5.      | 117-847     | 1   | HEAT BLANKET  |                                    |

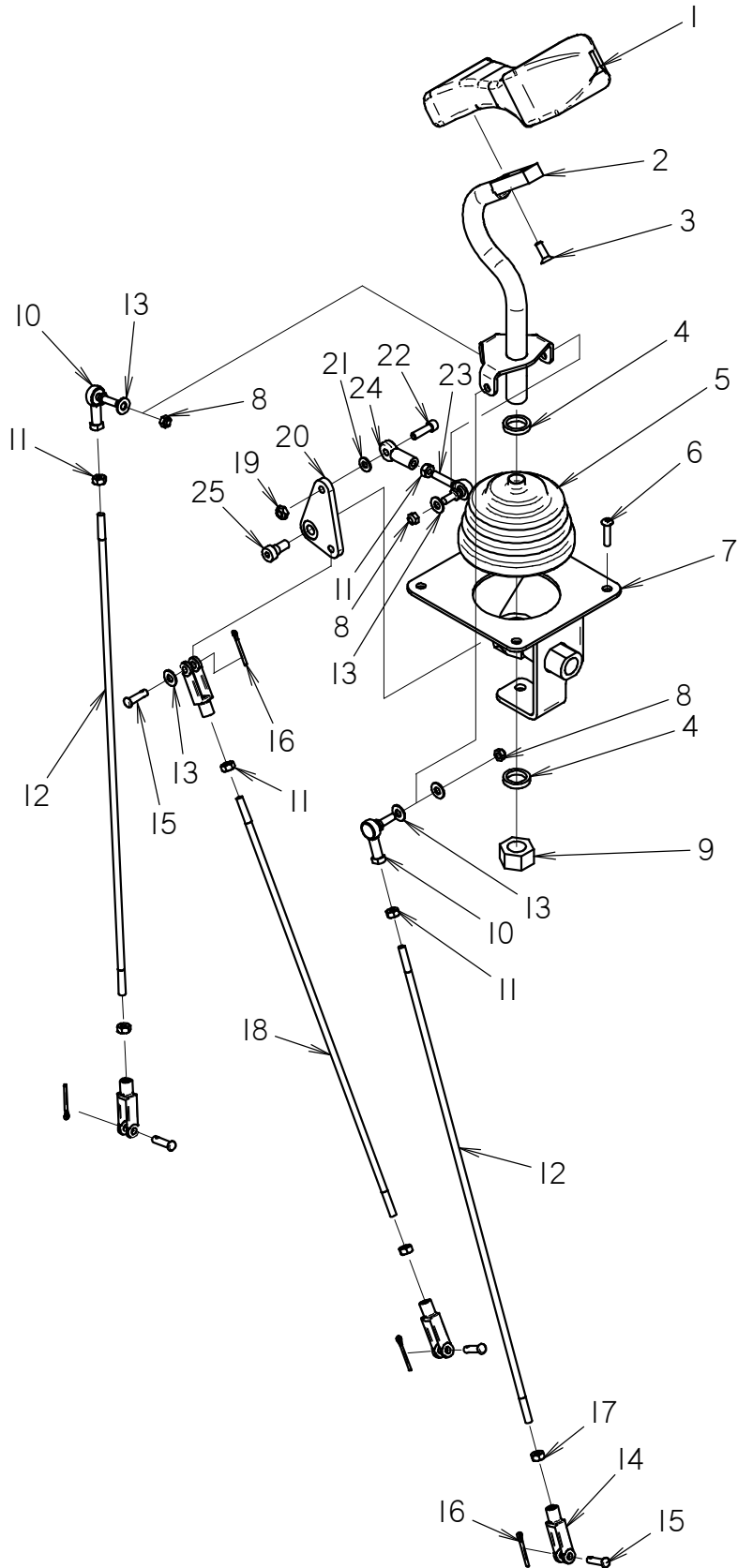
FOOTNOTES



# **CONTROL COMPONENTS**



# BFB BLADE CONTROLS



# BFB BLADE CONTROLS

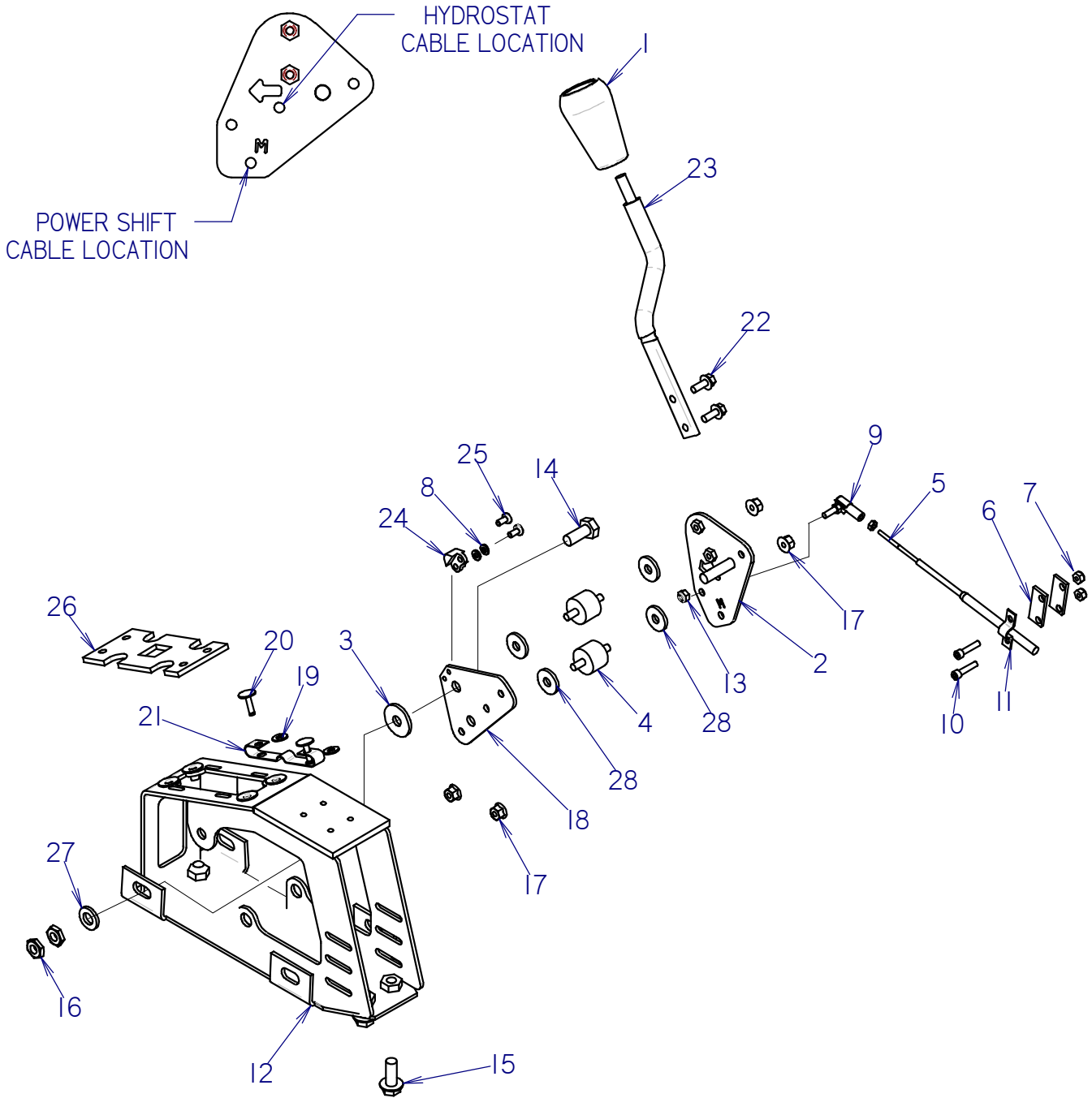
| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS |
|---------|-------------|-----|---------------------------------|---------|
| 1       | 117-345     | 1   | CONTROL HANDLE                  |         |
| 2       | 305-728     | 1   | HANDLE ASSEMBLY                 |         |
| 3       | 105-263     | 2   | BOLT (1/4-NC X 3/4", CSK, SOC)  |         |
| 4       | 178-421     | 2   | BUSHING                         |         |
| 5       | 110-330     | 1   | DUST BOOT                       |         |
| 6       | 107-312     | 4   | SCREW (M6-1.00 X 25MM, BUT SOC) |         |
| 7       | 305-727     | 1   | MOUNT ASSEMBLY                  |         |
| 8       | 107-770     | 3   | LOCKNUT (1/4-NF, NYL INSERT)    |         |
| 9       | 105-387     | 1   | LOCKNUT (3/4-NF)                |         |
| 10      | 160-540     | 2   | ROD END                         |         |
| 11      | 105-152     | 4   | NUT (1/4-NF)                    |         |
| 12      | 179-884     | 2   | ROD (19.44")                    |         |
| 13      | 106-076     | 5   | WASHER (1/4")                   |         |
| 14      | 107-790     | 4   | CLEVIS (1/4-NF-LH)              |         |
| 15      | 110-082     | 4   | CLEVIS PIN (1/4 X 11/16)        |         |
| 16      | 105-508     | 4   | COTTER PIN (3/32" X 1")         |         |
| 17      | 105-878     | 3   | NUT (1/4-NF, LH)                |         |
| 18      | 179-885     | 1   | ROD (17")                       |         |
| 19      | 105-085     | 1   | LOCKNUT (1/4"-NC)               |         |
| 20      | 305-724     | 1   | LINKAGE PLATE                   |         |
| 21      | 105-284     | 1   | WASHER (3/16")                  |         |
| 22      | 105-087     | 1   | BOLT (1/4-NC X 7/8", SOC)       |         |
| 23      | 110-565     | 1   | BALL JOINT (1/4-NF)             |         |
| 24      | 110-281     | 1   | ROD END (1/4-NF, FM)            |         |
| 25      | 107-582     | 1   | SHLD BOLT(3/8" X 1/4",5/16-NC)  |         |

NOT SHOWN:

FOOTNOTES:

NOTE:

# GRND SPEED DIRECTION HAND CNTL



## GRND SPEED DIRECTION HAND CNTL

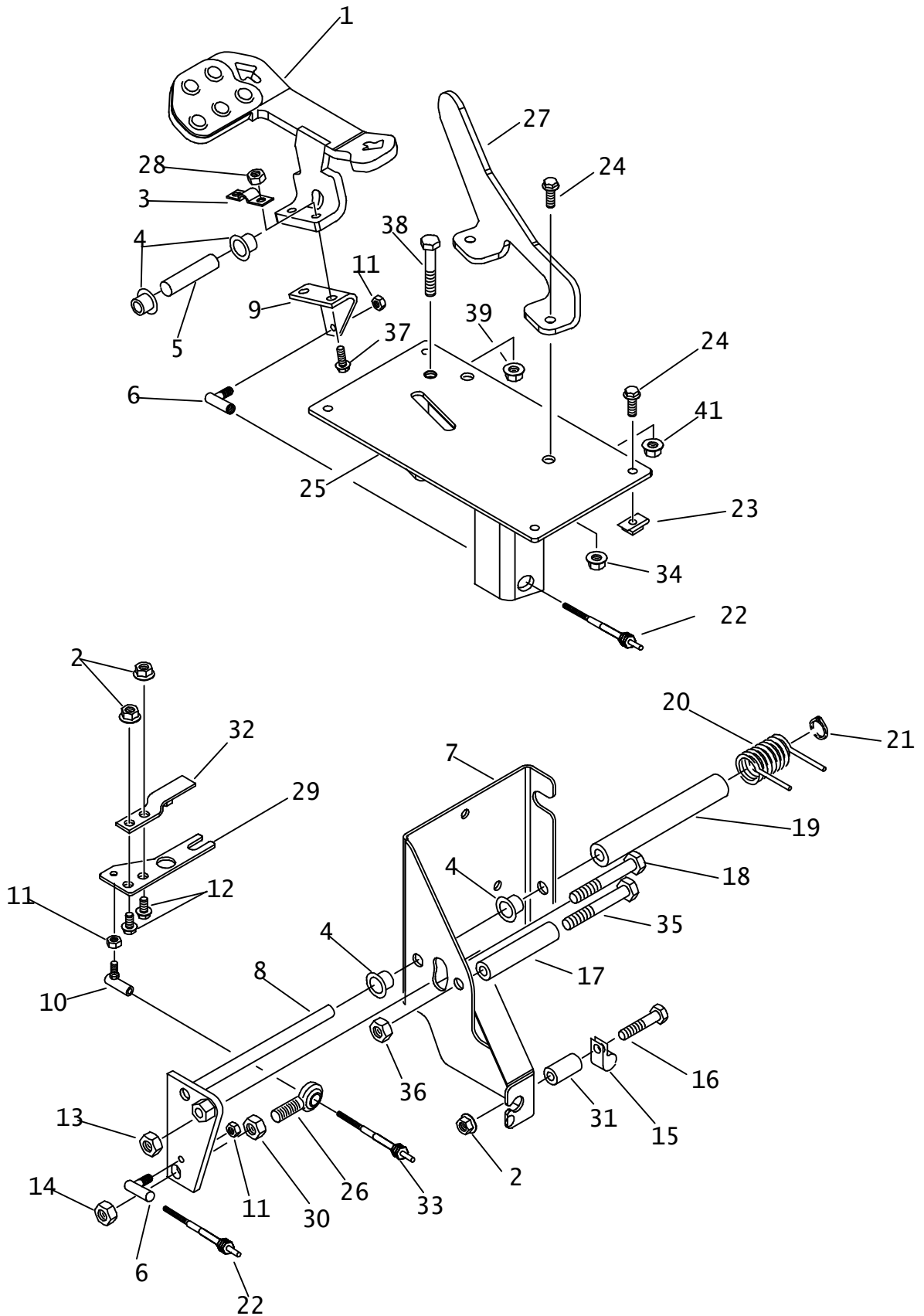
| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                              |
|---------|-------------|-----|--------------------------------|--------------------------------------|
| 1       | 110-445     | 1   | KNOB (3/8-NC, ORANGE)          |                                      |
| 2       | 319-914     | 1   | RIGHT CONTROL                  | SEE FOOTNOTE 3 AND INCLUDES HARDWARE |
| 3       | 107-529     | 1   | WASHER UHMW (3/8)              |                                      |
| 4       | 116-980     | 2   | SHOCK MOUNT                    |                                      |
| 5       | 196-287     | 1   | CONTROL CABLE                  | SEE FOOTNOTE 4                       |
| 6       | 331-166     | 2   | BOLT-ON BACK-UP (306")         |                                      |
| 7       | 106-048     | 2   | LOCKNUT (#10-24)               |                                      |
| 8       | 106-205     | 2   | WASHER (.191")                 |                                      |
| 9       | 110-318     | 1   | BALL JOINT (#10-32, FM)        |                                      |
| 10      | 105-810     | 2   | BOLT (#10-24 X 7/8", SOC)      |                                      |
| 11      | 110-697     | 1   | BOLT-ON CLAMP (360")           |                                      |
| 12      | 309-227     | 1   | CONTROL LEVER FRAME            |                                      |
| 13      | 107-770     | 1   | LOCKNUT (1/4-NF, NYL INSERT)   |                                      |
| 14      | 105-245     | 1   | SCREW (M10-1.50 X 25MM)        |                                      |
| 15      | 107-001     | 4   | FLG LK SCREW (M10-1.50 X 25MM) |                                      |
| 16      | 107-769     | 2   | JAM NUT (M10-1.50)             | SEE FOOTNOTE 2                       |
| 17      | 105-832     | 4   | FLG LOCKNUT (1/4-NC)           |                                      |
| 18      | 310-127     | 1   | PIVOT PLATE                    |                                      |
| 19      | 105-284     | 2   | WASHER (3/16")                 |                                      |
| 20      | 110-348     | 2   | POP RIVET (3/16" X .664")      |                                      |
| 21      | 115-598     | 1   | SPRING DETENT                  |                                      |
| 22      | 106-987     | 2   | FLG LK SCREW (M6-1.00 X 16MM)  |                                      |
| 23      | 117-519     | 1   | CONTROL HANDLE                 |                                      |
| 24      | 315-149     | 1   | DETENT TIP                     |                                      |
| 25      | 106-271     | 2   | SCREW (M5-0.80 X 8MM, PLPS)    | SEE FOOTNOTE 1                       |
| 26      | 316-476     | 1   | TEMPLATE                       |                                      |
| 27      | 106-396     | 1   | WASHER (M10, HARDENED)         |                                      |
| 28      | 106-261     | 4   | WASHER (.334")                 |                                      |

### FOOTNOTES

1. USE LOCTITE 242 OR EQUIVALENT
2. TORQUE TO 70 IN.-LBS.
3. IF ORDERING THIS PART FOR MACHINE WITH S/N \_\_\_\_\_ OR OLDER, YOU MUST ALSO ORDER LEVER (#319-916) AND REFER TO PARTS PAGE "GRD SPEED DIRECTION FOOT CONTROL", IF THIS UNIT IS EQUIPPED WITH CRUISE CONTROL, PART 319-916 IS NOT NEEDED.
4. 196-287 IS FOR HYDROSTAT TRACTORS. USE 194-196 FOR POWER SHIFT TRACTORS.

NOTE:

# GROUND SPEED DIRECTION FOOT CONTROL



## GROUND SPEED DIRECTION FOOT CONTROL

| REF NO. | PART NUMBER    | QTY | DESCRIPTION                      | REMARKS        |
|---------|----------------|-----|----------------------------------|----------------|
| 1.      | 309-943        | 1   | PEDAL                            |                |
| 2.      | 106-387        | 3   | FLG LOCKNUT (M10-1.5)            |                |
| 3.      | 310-411        | 1   | CLAMP                            |                |
| 4.      | 179-293        | 4   | BRONZE BUSHING                   |                |
| 5.      | 183-221        | 1   | PIN                              |                |
| 6.      | 110-774        | 2   | BALL JOINT (1/4-NF)              |                |
| 7.      | 309-707        | 1   | CABLE BRACKET                    |                |
| 8.      | 308-441        | 1   | CONTROL ARM                      |                |
| 9.      | 309-939        | 1   | CABLE BRACKET                    |                |
| 10.     | 110-318        | 1   | BALL JOINT (#10-32,FM)           |                |
| 11.     | 107-770        | 3   | LOCKNUT (1/4-NF, NYL INSERT)     |                |
| 12.     | 106-654        | 2   | FLG LK SCREW (M10-1.50 X 16mm)   |                |
| 13.     | 106-685        | 2   | LOCKNUT (M12-1.75, PRV TRQ,10.9) |                |
| 14.     | 105-188        | 1   | LOCKNUT (7/16-NF)                |                |
| 15.     | 110-333        | 1   | BOLT-ON CLAMP (1")               |                |
| 16.     | 106-628        | 1   | SCREW (M10-1.50 X 60mm)          |                |
| 17.     | 370-036        | 1   | SPACER                           |                |
| 18.     | 106-620        | 1   | SCREW (M12-1.75 X 150mm)         |                |
| 19.     | 178-582        | 1   | SPACER                           |                |
| 20.     | 115-650        | 1   | TORSION SPRING                   |                |
| 21.     | 115-482        | 1   | GRIP RING (.500")                |                |
| 22.     | 196-359        | 1   | CONTROL CABLE                    |                |
| 23.     | 107-135        | 4   | CLIP NUT (M8-1.25)               |                |
| 24.     | 106-992        | 6   | FLG LK SCREW (M8-1.25 X 25mm)    |                |
| 25.     | 331-595        | 1   | PEDAL MOUNT                      |                |
| 26.     | 107-604        | 1   | ROD END (7/16-NF)                |                |
| 27.     | 319-365        | 1   | PROTECTIVE BAR                   |                |
| 28.     | 106-175        | 2   | NUT (M10-1.50)                   |                |
| 29.     | <u>309-705</u> | 1   | LEVER                            |                |
|         | 319-914        | 1   | LEVER                            | SEE FOOTNOTE 1 |
| 30.     | 105-920        | 1   | JAM NUT (7/16-NF)                |                |
| 31.     | 181-566        | 1   | SLEEVE (1.5")                    |                |
| 32.     | 365-240        | -   | CONTROL LEVER                    |                |
| 33.     | 196-287        | -   | CONTROL CABLE                    |                |
|         | 506-021        | -   | NUT (#10-32)                     |                |
| 34.     | 106-386        | 2   | FLG LOCKNUT (M8-1.25)            |                |
| 35.     | 105-472        | 1   | BOLT (1/2-NC X 5")               |                |
| 36.     | 105-065        | 1   | LOCKNUT (1/2-NC)                 |                |
| 37.     | 107-002        | 2   | FLG LK SCREW (M10-1.50 X 30mm)   |                |
| 38.     | 106-142        | 1   | SCREW (M10-1.50 X 65mm)          |                |
| 39.     | 106-387        | 1   | FLG LOCKNUT (M10-1.5)            |                |

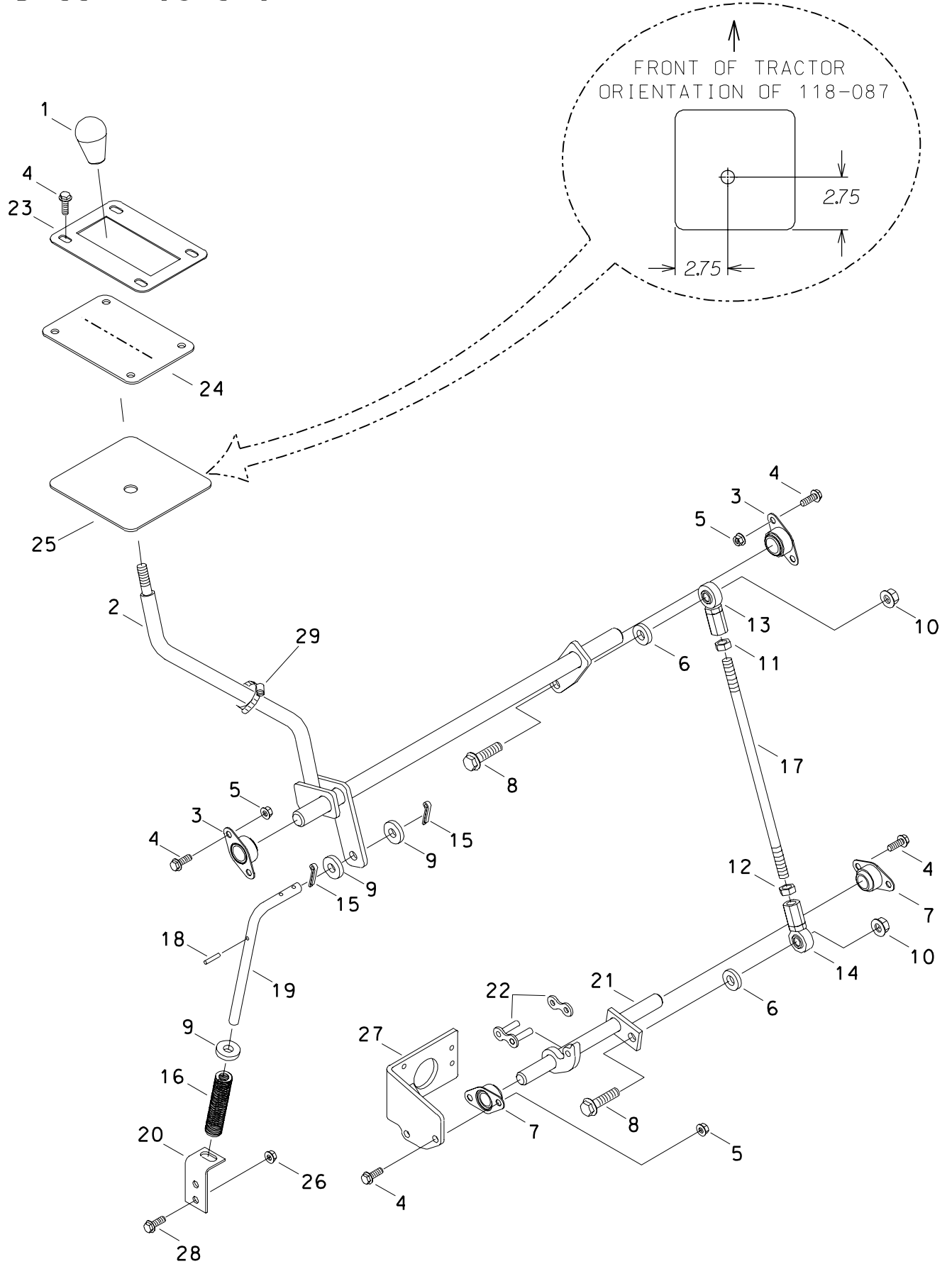
### FOOTNOTES:

- I. IF ORDERING THIS PART FOR A MACHINE WITH SERIAL NUMBER\_\_\_\_\_ OR OLDER, YOU MUST ALSO ORDER NUMBER 319-914 RIGHT CONTROL LEVER, AND REFER TO PARTS PAGE "GRD SPEED DIRECTION HAND CONTROL".

### NOTE:

SEE INSTALLATION INSTRUCTIONS

# HYDROSTATIC SHIFT



## HYDROSTATIC SHIFT

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS        |
|---------|-------------|-----|--------------------------------|----------------|
| 1.      | 110-375     | 1   | KNOB (1/2-NC, YELLOW)          |                |
| 2.      | 307-718     | 1   | SHIFT ARM                      |                |
| 3.      | 125-488     | 2   | FLANGE BUSHING (.875")         |                |
| 4.      | 106-992     | 12  | FLG LK SCREW (M8-1.25 X 25mm)  |                |
| 5.      | 106-386     | 8   | FLG LOCKNUT (M8-1.25)          |                |
| 6.      | 106-397     | 2   | WASHER (M12, HARDENED)         |                |
| 7.      | 125-609     | 2   | BRONZE BUSHING (.750", FLG)    |                |
| 8.      | 107-004     | 2   | FLG LK SCREW (M12-1.75 X 45mm) |                |
| 9.      | 105-244     | AR  | WASHER (1/2")                  |                |
| 10.     | 106-354     | 2   | FLANGE NUT (M12-1.75)          |                |
| 11.     | 106-447     | 1   | JAM NUT (1/2-NF)               |                |
| 12.     | 107-573     | 1   | JAM NUT (1/2-NF, LH)           |                |
| 13.     | 110-290     | 1   | ROD END (1/2-NF, FM)           |                |
| 14.     | 107-574     | 1   | ROD END (1/2-NF, FM, LH)       |                |
| 15.     | 105-506     | 2   | COTTER PIN (3/16" X 1-1/2")    |                |
| 16.     | 117-019     | 1   | COMPRESSION SPRING             |                |
| 17.     | 306-762     | 1   | SHIFT ROD                      |                |
| 18.     | 106-131     | 1   | DOWEL PIN (.187 X 1.000)       |                |
| 19.     | 306-666     | 1   | SPRING ROD                     |                |
| 20.     | 307-568     | 1   | SPRING MOUNT                   |                |
| 21.     | 307-567     | 1   | SHIFT ARM                      |                |
| 22.     | 130-304     | 1   | CONNECTOR LINK (#80)           |                |
| 23.     | 307-580     | 1   | BELLOW MOUNT                   |                |
| 24.     | 307-585     | 1   | BELLOW                         |                |
|         | 118-074     | 1   | DUST SHIELD                    |                |
| 25.     | 118-087     | 1   | DUST SHIELD                    |                |
| 26.     | 106-266     | 2   | FLG NUT (M10-1.50)             |                |
| 27.     | 307-563     | -   | SHIFT MOUNT                    |                |
| 28.     | 107-002     | 2   | FLG LK SCREW (M10-1.50 X 30mm) |                |
| 29.     | 110-217     | 1   | WORM CLAMP (7/16" TO 1")       | SEE FOOTNOTE 1 |

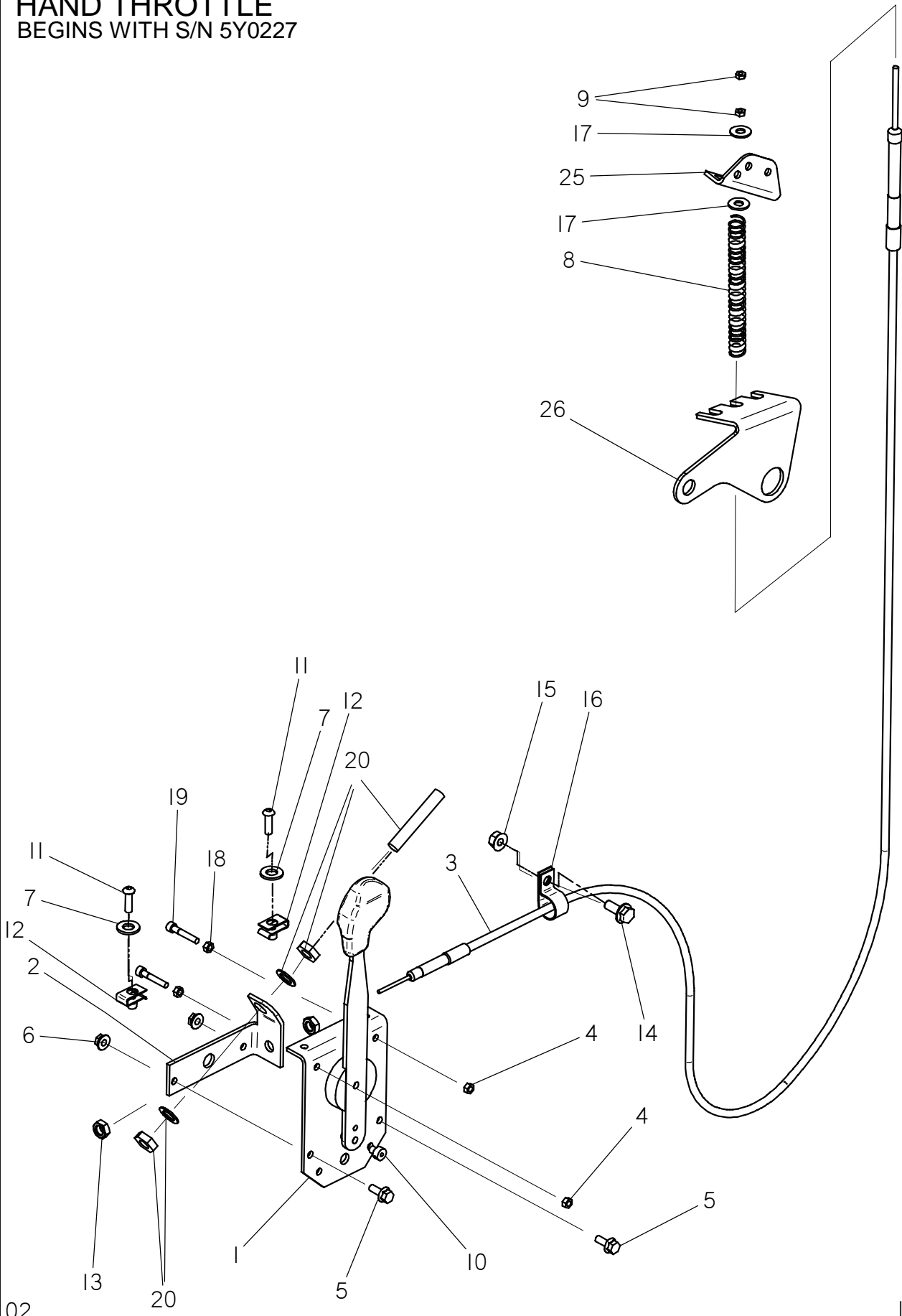
## FOOTNOTES

1. PLACE WORM CLAMP (110-217) ON SHIFTER TO PREVENT DUST SHIELD (118-087) FROM SLIPPING DOWN.



# HAND THROTTLE

BEGINS WITH S/N 5Y0227



02

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# HAND THROTTLE

## BEGINS WITH S/N 5Y0227

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                           |
|---------|-------------|-----|---------------------------------|-----------------------------------|
| 1.      | 306-619     | 1   | CONTROL LEVER                   |                                   |
|         | 117-593     | 1   | KNOB (ORANGE)                   |                                   |
| 2.      | 324-666     | 1   | CONTROL BRACKET                 |                                   |
| 3.      | 194-539     | 1   | CONTROL CABLE                   |                                   |
| 4.      | 106-850     | 2   | LOCKNUT (M5-0.80)               |                                   |
| 5.      | 106-987     | 2   | FLG LK SCREW (M6-1.00 X 16mm)   |                                   |
| 6.      | 106-353     | 2   | FLG NUT (M6-1.00)               |                                   |
| 7.      | 107-744     | 2   | WASHER (M6)                     |                                   |
| 8.      | 115-604     | 1   | COMPRESSION SPRING              |                                   |
| 9.      | 506-021     | 2   | NUT (#10-32)                    |                                   |
| 10.     | 196-058     | 1   | CABLE SWIVEL (.081")            |                                   |
|         | 106-205     | 1   | WASHER (.191")                  |                                   |
|         | 505-114     | 1   | THRUST WASHER (.343")           |                                   |
| 11.     | 106-640     | 2   | SCREW (M6-1.00 X 20mm ,BUT SOC) |                                   |
| 12.     | 106-574     | 2   | CLIP NUT (M6-1.00)              |                                   |
| 13.     | 106-018     | 2   | JAM NUT (3/8-NF)                | USE LOCTITE 242 OR ITS EQUIVILENT |
| 14.     | 106-991     | 1   | FLG LK SCREW (M8-1.25 X 20MM)   |                                   |
| 15.     | 106-386     | 1   | FLG LOCKNUT (M8-1.25)           |                                   |
| 16.     | 110-373     | 1   | BOLT-ON CLAMP (13/16")          |                                   |
| 17.     | 105-095     | 2   | WASHER (1/4")                   |                                   |
| 18.     | 106-138     | 2   | NUT (M5-0.8.)                   |                                   |
| 19.     | 107-465     | 2   | SCREW (M5-0.80 X 30MM, SOC)     |                                   |
| 20.     | 215-1447    | 1   | PROXIMITY SWITCH 12MM EUROFAST  | POWERSHIFT ONLY & REFER TO F/N 1  |
| 21.     | 307-069     | -   | LEVER BRACKET                   |                                   |
| 22.     | 307-068     | -   | CABLE BRACKET                   |                                   |

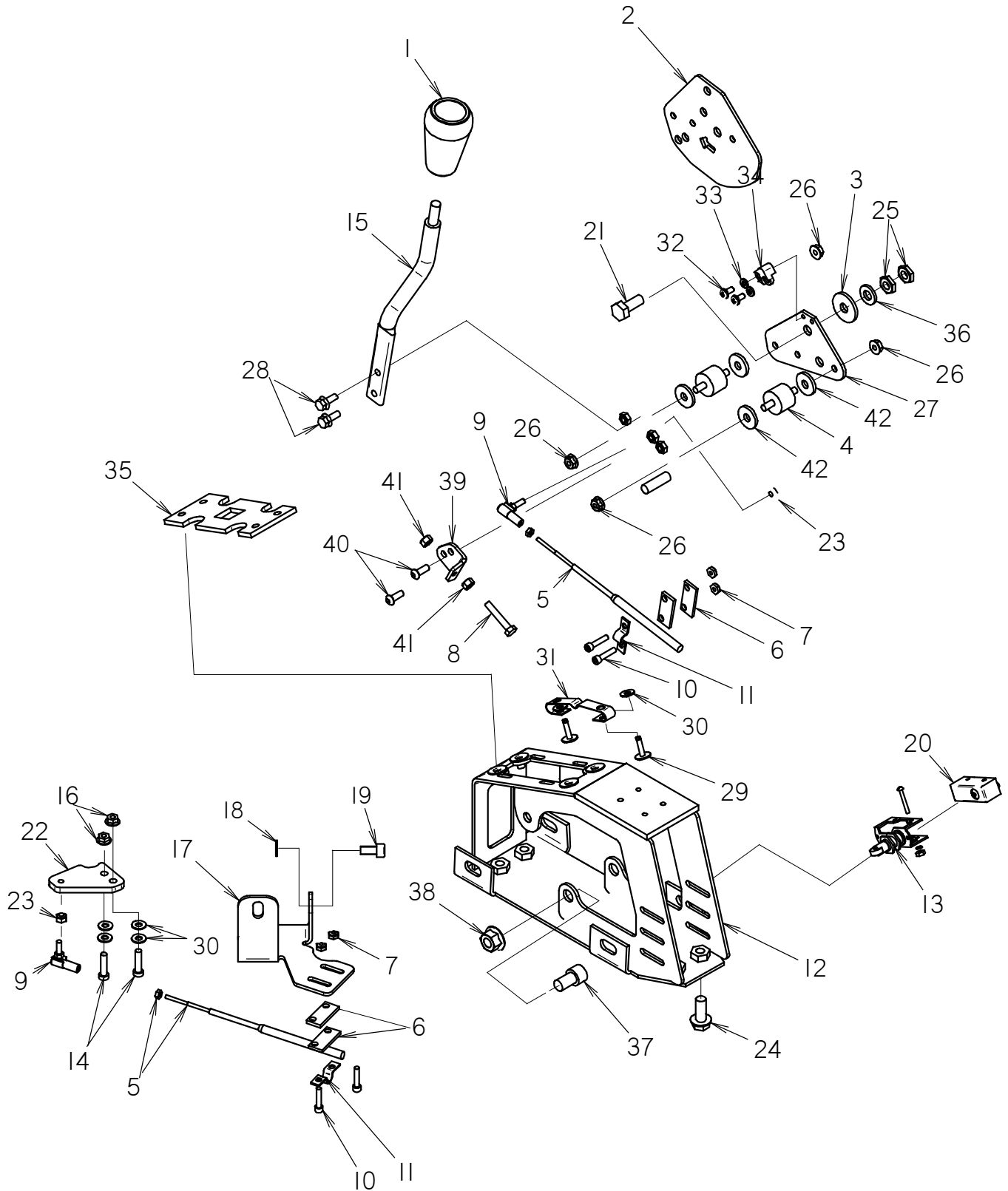
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FOOTNOTES:

- I. PROXIMITY SWITCH 215-1447 SUPERCEDED PROXIMITY SWITCH 213-272

NOTE:

# ATTACHMENT CONTROL HANDLE



# ATTACHMENT CONTROL HANDLE

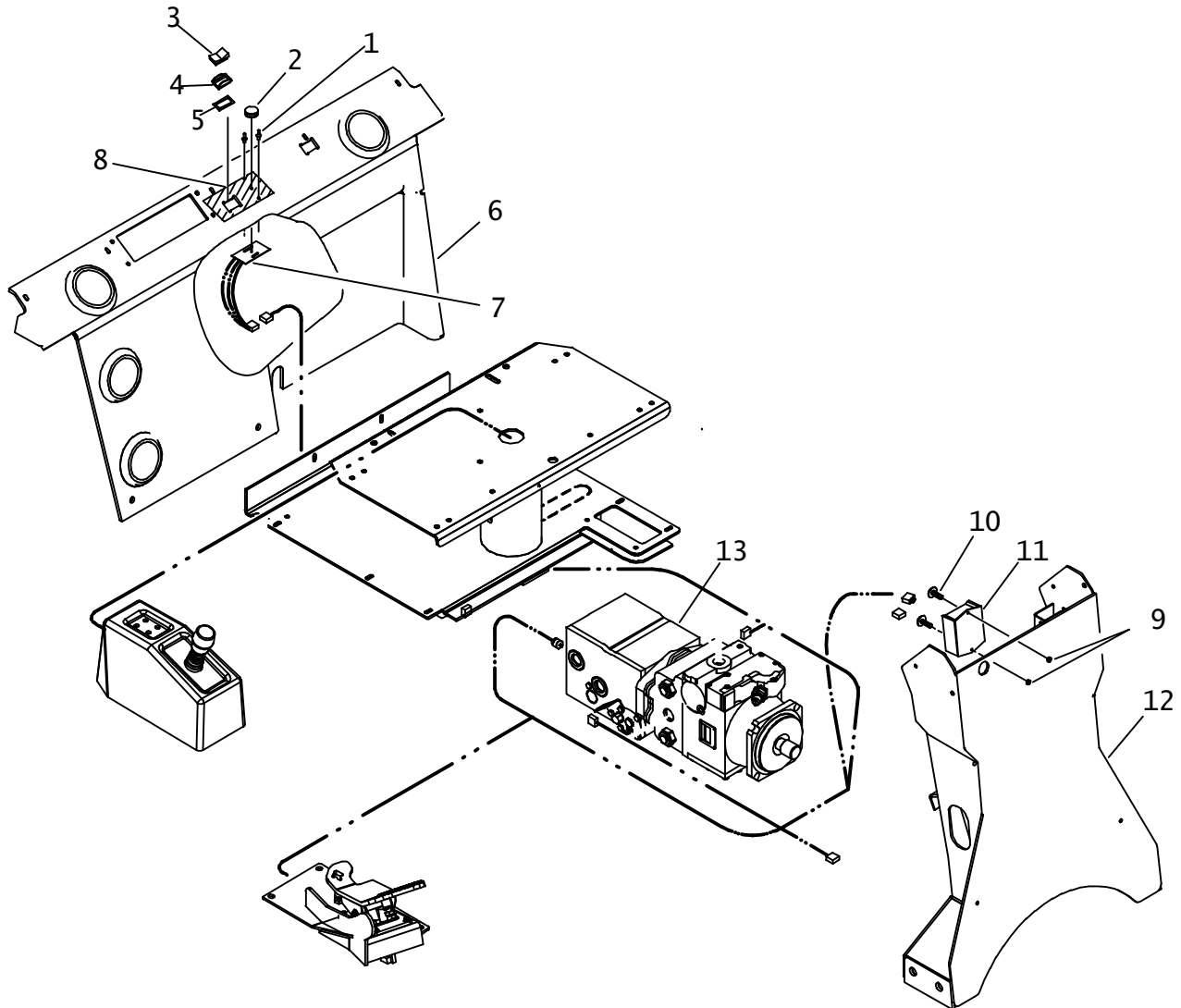
| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                              |
|---------|-------------|-----|--------------------------------|--------------------------------------|
| 1       | 117-470     | 1   | KNOB (3/8-NC, YELLOW)          |                                      |
| 2       | 309-671     | 1   | LEFT CONTROL LEVER             |                                      |
| 3       | 107-529     | 1   | WASHER UHMW (3/8)              |                                      |
| 4       | 116-980     | 2   | SHOCK MOUNT                    |                                      |
| 5       | 196-294     | 2   | CONTROL CABLE                  | INCLUDES JAM NUT                     |
| 6       | 331-166     | 4   | BOLT-ON BACK-UP (306")         |                                      |
| 7       | 106-048     | 4   | LOCKNUT (#10-24)               |                                      |
| 8       | 105-688     | 1   | SCREW (M6-1.00 X 35MM)         | SEE FOOTNOTE 4                       |
| 9       | 110-318     | 2   | BALL JOINT (#10-32, FM)        |                                      |
| 10      | 105-810     | 4   | BOLT (#10-24 X 7/8", SOC)      |                                      |
| 11      | 110-697     | 2   | BOLT-ON CLAMP (360")           |                                      |
| 12      | 309-227     | 1   | CONTROL LEVER FRAME            |                                      |
| 13      | 215-082     | 1   | ACTUATOR BRACKET               | SEE FOOTNOTE 1 AND INCLUDES HARDWARE |
| 14      | 107-322     | 2   | SCREW (M6-1.00X25MM,SOC,12.9)  |                                      |
| 15      | 117-519     | 1   | CONTROL HANDLE                 |                                      |
| 16      | 106-385     | 2   | FLG LOCKNUT (M6-1.00)          |                                      |
| 17      | 308-682     | 1   | ATTACHMENT BRACKET             |                                      |
| 18      | 106-389     | 1   | WASHER (M8)                    |                                      |
| 19      | 106-005     | 1   | SCREW (M8-1.25 X 16MM, SOC)    |                                      |
| 20      | 215-1455    | 1   | PLUNGER SWITCH                 | SEE FOOTNOTE 1 AND INCLUDES HARDWARE |
| 21      | 105-245     | 1   | SCREW (M10-1.50 X 25MM)        |                                      |
| 22      | 308-901     | 1   | LEVER EXTENSION                |                                      |
| 23      | 107-770     | 2   | LOCKNUT (1/4-NF, NYL INSERT)   |                                      |
| 24      | 107-001     | 4   | FLG LK SCREW (M10-1.50 X 25MM) |                                      |
| 25      | 107-769     | 2   | JAM NUT (M10-1.50)             | SEE FOOTNOTE 3                       |
| 26      | 105-832     | 4   | FLG LOCKNUT (1/4-NC)           |                                      |
| 27      | 310-127     | 1   | PIVOT PLATE                    |                                      |
| 28      | 106-987     | 2   | FLG LK SCREW (M6-1.00 X 16MM)  |                                      |
| 29      | 110-348     | 2   | POP RIVET (3/16" X .664")      |                                      |
| 30      | 105-284     | 6   | WASHER (3/16")                 |                                      |
| 31      | 115-598     | 1   | SPRING DETENT                  |                                      |
| 32      | 106-271     | 2   | SCREW (M5-0.80 X 8MM, PLPS)    | SEE FOOTNOTE 2                       |
| 33      | 106-205     | 2   | WASHER (191")                  |                                      |
| 34      | 315-149     | 1   | DETENT TIP                     |                                      |
| 35      | 316-476     | 1   | TEMPLATE                       |                                      |
| 36      | 106-396     | 1   | WASHER (M10, HARDENED)         |                                      |
| 37      | 107-277     | 1   | SCREW (M12-1.75 X 20MM, SOC)   | SEE FOOTNOTE 4                       |
| 38      | 106-709     | 1   | FLG LK NUT (M12-1.75)          | SEE FOOTNOTE 4                       |
| 39      | 316-851     | 1   | STOP                           | SEE FOOTNOTE 4                       |
| 40      | 107-193     | 2   | SCREW (M6-1.00 X 16MM,BUT SOC) | SEE FOOTNOTE 2                       |
| 41      | 106-538     | 2   | LOCKNUT (M6-1.00,PRV TRQ,10.9) | SEE FOOTNOTE 4                       |
| 42      | 106-261     | 4   | WASHER (334")                  |                                      |

**FOOTNOTES:**

1. USED W/COMBO ATTACHMENTS
2. USE LOCTITE 242 OR EQUIVALENT
3. TORQUE TO 70 IN-LBS
4. USE WITH H732, H752, H932, H952

**NOTE:**

## CRUISE CONTROL



# CRUISE CONTROL

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                              |
|---------|-------------|-----|---------------------------------|--------------------------------------|
| 1.      | 110-560     | 2   | POP RIVET (3/16" X 1/2 ", ALUM) |                                      |
| 2.      | 110-641     | 1   | KNOB (1/8", BLK)                |                                      |
| 3.      | 217-762     | 1   | ROCKER SWITCH (SPDT)            |                                      |
| 4.      | 110-854     | 1   | SWITCH ACTUATOR GUARD           |                                      |
| 5.      | 165-817     | 1   | SWITCH GASKET                   |                                      |
| 6.      | 306-492     | -   | REAR PANEL                      | REFER TO (TILT STEERING) FOR DETAILS |
| 7.      | 217-892     | 1   | POTENTIOMETER-AUTOCROWD         |                                      |
| 8.      | 273-449     | 1   | CRUISE CONTROL OVERLAY          |                                      |
| 9.      | 106-048     | 2   | LOCKNUT (#10-24)                |                                      |
| 10.     | 105-815     | 2   | BOLT (#10-24 X 1", PAN SLT)     |                                      |
| 11.     | 220-645     | 1   | GENERALCRUISE CONTROL           | SEE FOOTNOTE 3                       |
| 12.     | 315-142     | -   | PEDESTAL                        |                                      |
| 13.     | 152-107     | 1   | TANDEM PUMP (CRUISE CONTROL)    | RT115/RT95 & SEE FOOTNOTE 1          |
|         | 158-194     | -   | ATTACHMENT PUMP                 | RT115/RT95 & SEE FOOTNOTE 2          |
|         | 157-354     | -   | GROUND DRIVE PUMP               | EDC                                  |
|         | 153-866     | 1   | TANDEM PUMP (CRUISE CONTROL)    | RT75                                 |
|         | 158-039     | -   | ATTACHMENT PUMP                 | RT75                                 |
|         | 157-354     | -   | GROUND DRIVE PUMP               | EDC                                  |

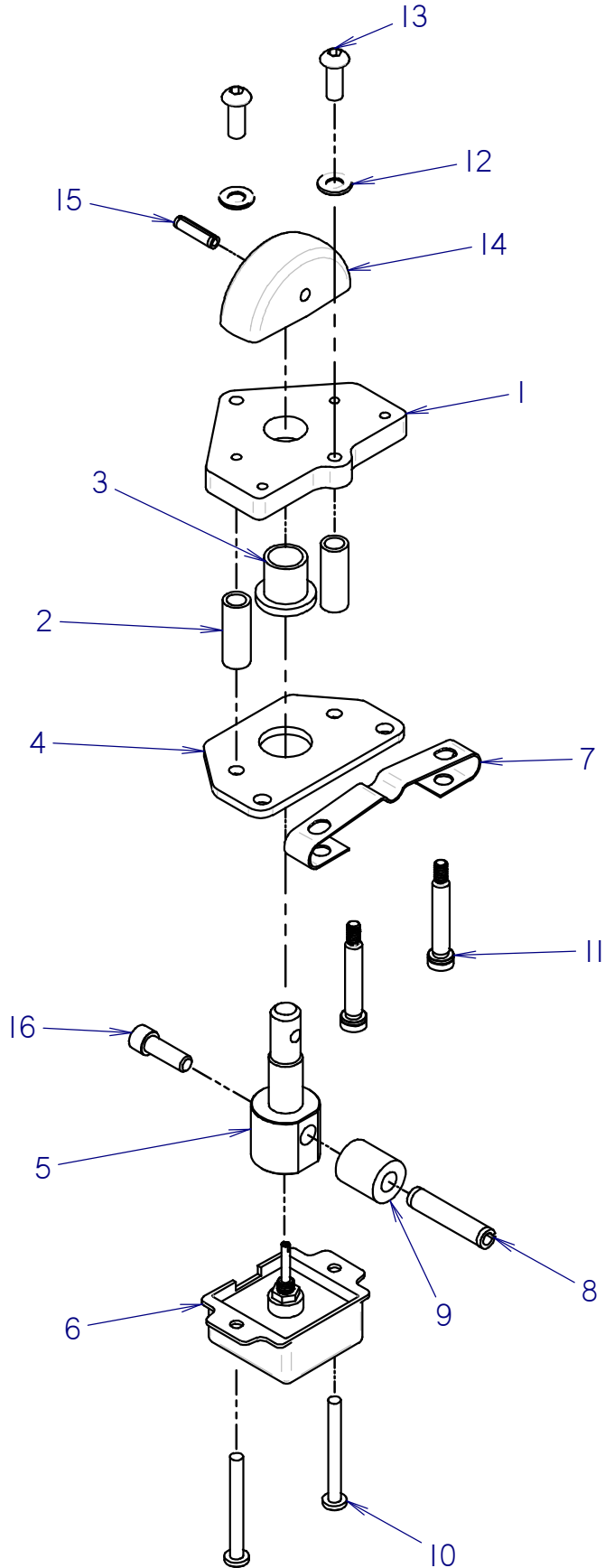
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## FOOTNOTES

1. TANDEM PUMP 152-107 SUPERCEDES PUMP 153-867.
2. ATTACHMENT PUMP 158-194 SUPERCEDES PUMP 158-038.
3. CRUISE CONTROL 220-645 SUPERCEDES CRUISE CONTROL 220-569.

NOTE

# REAR STEER CONTROL KIT



## REAR STEER CONTROL KIT

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS        |
|---------|-------------|-----|--------------------------------|----------------|
| 1       | 318-366     | 1   | MOUNT PLATE                    | SEE FOOTNOTE 1 |
| 2       | 179-416     | 2   | BOSS                           |                |
| 3       | 125-447     | 1   | BUSHING                        |                |
| 4       | 318-367     | 1   | BOTTOM PLATE                   |                |
| 5       | 166-449     | 1   | SHAFT                          |                |
| 6       | 217-273     | 1   | POSITION POTENTIOMETER         |                |
| 7       | 115-598     | 1   | SPRING DETENT                  |                |
| 8       | 105-529     | 1   | ROLL PIN (5/16" X 1-1/2")      |                |
| 9       | 179-418     | 1   | BUSHING                        |                |
| 10      | 106-120     | 2   | SCREW (#10-24 X1-3/4",PAN SLT) | SEE FOOTNOTE 2 |
| 11      | 107-785     | 2   | SHLD BLT(1/4" X 1-1/4",#10-24) | SEE FOOTNOTE 2 |
| 12      | 107-744     | 2   | WASHER (M6)                    |                |
| 13      | 107-193     | 2   | SCREW (M6-1.00 X 16MM,BUT SOC) |                |
| 14      | 117-887     | 1   | KNOB                           |                |
| 15      | 105-522     | 1   | ROLL PIN (3/16" X 3/4")        |                |
| 16      | 105-161     | 1   | BOLT (1/4-NC X 3/4", SOC)      | SEE FOOTNOTE 2 |

NOT SHOWN:

**FOOTNOTES:**

1. P/N 191-221 REAR STEER CONTROL KIT INCLUDES REFERENCE # 1-16
2. USE LOCTITE 242 OR EQUIVALENT

**NOTE:**

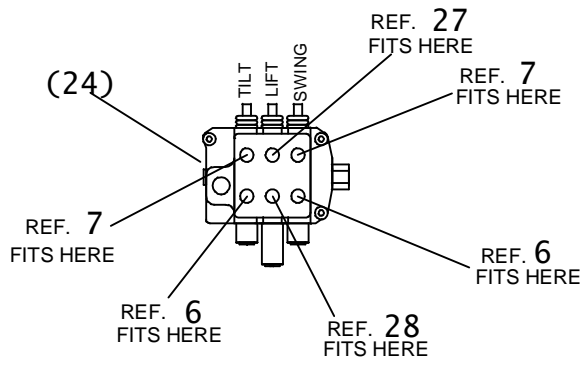
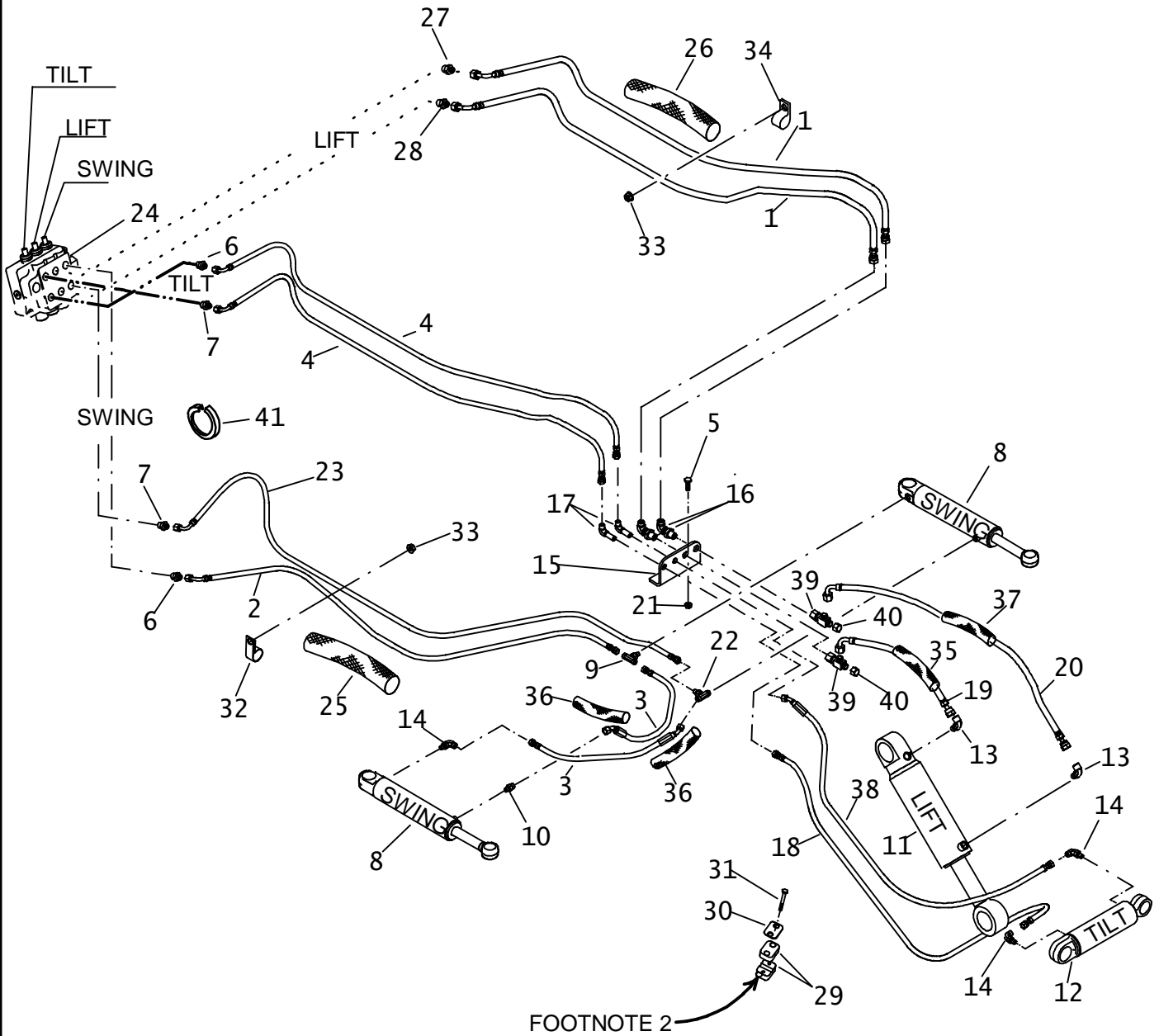
REFER TO INSTALLATION INSTRUCTION 051-319 FOR REAR STEER UPGRADE KIT INFORMATION.  
 191-251 IS THE REAR STEER UPGRADE KIT AND 259-516 IS THE REAR STEER ALIGNMENT (SPECAL TOOL) .  
 REFER TO O-RING CHART (800-301) FOR REPLACEMENT O-RINGS.





# HYDRAULICS

# BACKFILL BLADE HYDRAULICS



## BACKFILL BLADE HYDRAULICS

| REF NO. | PART NUMBER | QTY | DESCRIPTION                   | REMARKS  |
|---------|-------------|-----|-------------------------------|--|
| 1.      | 515-714     | 2   | HOSE (060FX90S-82"-3000)      | LIFT   |
| 2.      | 153-968     | 1   | HOSE (040FX90S-82"-5000)      | SWING  |
| 3.      | 515-310     | 2   | HOSE (040FX45-22"-5000)       | SWING  |
| 4.      | 515-075     | 2   | HOSE (040FX90S-82"-3000)      | TILT   |
| 5.      | 106-327     | 2   | SCREW (M8-1.25 X 30mm)        |  |
| 6.      | 154-261     | 2   | CONNECTOR (040-08S)           |  |
| 7.      | 154-374     | 2   | CONNECTOR (040-08S, ORF)      |  |
| 8.      | 151-057     | 2   | CYL (2" X 1.25" X 8.0")       | SEE FOOTNOTE 1                                 |
| 9.      | 154-293     | 1   | BRANCH TEE (04S-040-040)      |  |
| 10.     | 154-278     | 1   | CONNECTOR (04S-040)           |  |
| 11.     | 151-070     | 1   | CYL (3" X 1.75" X 8")         | SEE FOOTNOTE 1                                 |
| 12.     | 151-202     | 1   | CYL (2" X 1" X 3.38")         | SEE FOOTNOTE 1                                 |
| 13.     | 154-342     | 2   | CONNECTOR (06S-06090)         |  |
| 14.     | 154-252     | 3   | CONNECTOR (04S-04090)         |  |
| 15.     | 307-416     | 1   | BK BRACKET                    |  |
| 16.     | 154-229     | 2   | BK CONNECTOR (060-06090BK)    |  |
| 17.     | 154-355     | 2   | BK CONNECTOR (040-04090BK)    |  |
| 18.     | 154-921     | 1   | HOSE (040FX-54"-3000-AR)      | TILT   |
| 19.     | 154-929     | 1   | HOSE (060FX90-19"-3000)       | LIFT   |
| 20.     | 515-221     | 1   | HOSE (060FX90S-28"-3000)      | LIFT   |
| 21.     | 106-386     | 2   | FLG LOCKNUT (M8-1.25)         |  |
| 22.     | 154-316     | 1   | RUN TEE (04S-040-040)         |  |
| 23.     | 153-967     | 1   | HOSE (040FX90S-90"-5000)      | SWING  |
| 24.     | 158-033     | -   | HYD. CONTROL VALVE (3-SPOOL)  | ENDS WITH S/N_____ . OBSOLETE                  |
|         | 159-809     | -   | HYD. CONTROL VALVE (3-SPOOL)  | BEGINS WITH S/N_____ . USE FLOAT KIT 500-2020. |
| 25.     | 117-691     | 1   | ABRASION SLEEVE (1.25" X 68") |  |
| 26.     | 115-920     | 1   | ABRASION SLEEVE (2.38" X 70") |  |
| 27.     | 514-294     | 1   | CONNECTOR (08S-060, ORF)      |  |
| 28.     | 154-222     | 1   | CONNECTOR (060-08S)           |  |
| 29.     | 110-866     | 2   | CLAMP SET (1/2")              | SEE FOOTNOTE 2                                 |
| 30.     | 110-958     | 2   | BACKUP PLATE                  |  |
| 31.     | 105-818     | 4   | BOLT (1/4-NC X 1-1/2")        |  |
| 32.     | 110-332     | 1   | BOLT-ON CLAMP (1-5/8")        | SEE FOOTNOTE 3                                 |
| 33.     | 105-003     | 2   | FLG LOCKNUT (5/16-NC)         | SEE FOOTNOTE 3                                 |
| 34.     | 110-333     | 1   | BOLT-ON CLAMP (1")            | SEE FOOTNOTE 3                                 |
| 35.     | 117-328     | 1   | ABRASION SLEEVE (1.00" X 18") |  |
| 36.     | 117-672     | 2   | ABRASION SLEEVE (1.00" X 20") |  |
| 37.     | 117-409     | 1   | ABRASION SLEEVE (1.00" X 28") |  |
| 38.     | 153-973     | 1   | HOSE (040FX45-54"-3000 AR)    | TILT   |
| 39.     | 154-344     | 2   | UN RUN TEE (060FX-060-060)    |  |
| 40.     | 154-326     | 2   | CAP (060F)                    |  |
| 41.     | 116-259     | AR  | BULK EDGE (1/2", SOLD PER FT) | USE 1 @ 20" & SEE FOOTNOTE 4                   |

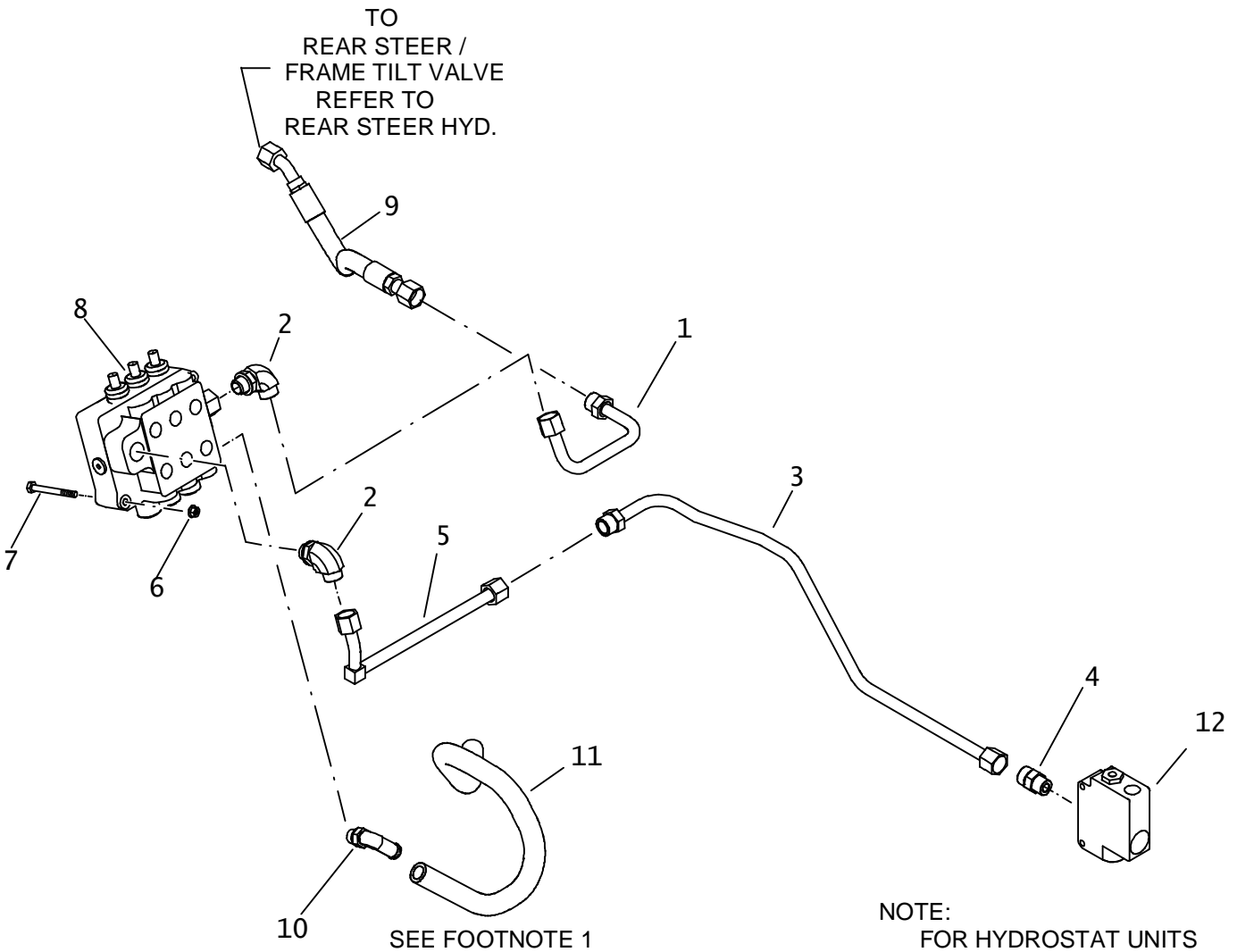
### FOOTNOTES:

1. REFER TO PARTS PAGE "BACKFILL BLADE ASSEMBLY" FOR CYLINDER INSTALLATION HARDWARE.
2. CLAMP SET (110-866) BOLTS ONTO WELD PLATE ON BFB LIFT ARM.
3. #110-333, 105-003 & 110-332 ATTACH TO STUD BOLTS ON FRAME PLATES.
4. USE EDGING ON FRAME WHERE HOSE'S PASS THRU.

### NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# BACKFILL BLADE VALVE RT75/RT95



NOTE:  
FOR HYDROSTAT UNITS  
REFER TO  
AUXILIARY HYD. - HYDROSTAT  
&  
FOR POWER SHIFT UNITS  
REFER  
AUXILIARY HYD. - POWERSHIFT

## BACKFILL BLADE VALVE RT75/RT95

| REF NO. | PART NUMBER    | QTY | DESCRIPTION                   | REMARKS                            |
|---------|----------------|-----|-------------------------------|------------------------------------|
| 1.      | 149-851        | 1   | HYD LINE (-10)                |                                    |
| 2.      | 154-298        | 2   | CONNECTOR (10S-10090)         |                                    |
| 3.      | 149-850        | 1   | HYD LINE (-10)                |                                    |
| 4.      | 154-301        | 1   | CONNECTOR (10S-100)           |                                    |
| 5.      | 157-322        | 1   | HYD LINE (-10)                |                                    |
| 6.      | 105-292        | 3   | SCREW (M8-1.25 X 75mm)        |                                    |
| 7.      | 106-386        | 3   | FLG LOCKNUT (M8-1.25)         |                                    |
| 8.      | <u>158-033</u> | 1   | HYD CONTROL VALVE (3-SPOOL)   | ENDS WITH S/N_____, SEE FOOTNOTE 1 |
|         | 159-809        | 1   | HYD CONTROL VALVE (3-SPOOL)   | BEGINS WITH S/N_____.              |
| 9.      | 153-907        | 1   | HOSE (100FX45-16"-3000)       |                                    |
| 10.     | 154-362        | -   | S/O COUPLER (10S-12H90)       |                                    |
| 11.     | 116-636        | -   | BULK HOSE (3/4", SOLD PER 1') | USE 1 @ 25"                        |
| 12.     | 157-917        | -   | PRIORITY VALVE                |                                    |

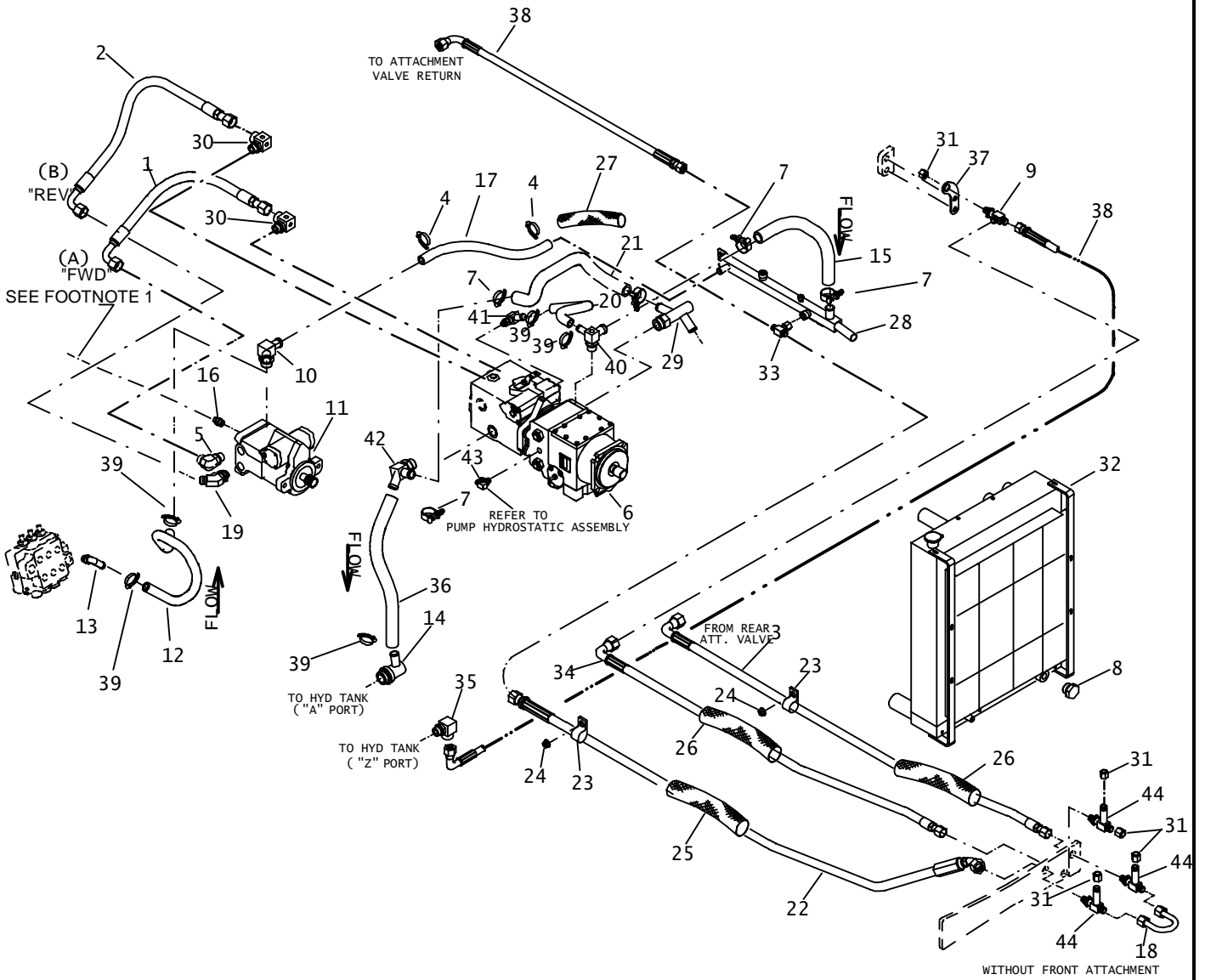
### FOOTNOTES

- FOR BFB VALVE RETURN HOSE'S REFER TO PAGE "PUMP DRIVE HYDRAULICS" FOR HYDROSTATICS OR PAGE "GROUND DRIVE MOTOR HYDRAULICS" FOR POWERSHIFTS.

### NOTE

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# PUMP DRIVE HYDRAULICS



## PUMP DRIVE HYDRAULICS

| REF NO. | PART NUMBER | QTY | DESCRIPTION                       | REMARKS  |
|---------|-------------|-----|-----------------------------------|--|
| 1.      | 153-076     | 1   | HOSE (120FX90S-28"-5000)          | REVERSE  |
| 2.      | 153-077     | 1   | HOSE (120FX90S-32"-5000)          | FORWARD  |
| 3.      | 157-343     | 1   | HOSE (100FX90S-120"-3000)         |  |
| 4.      | 110-353     | 2   | WORM CLAMP (3/4" TO 1-1/2")       |  |
| 5.      | 154-270     | 1   | CONNECTOR (12S-12090)             |  |
| 6.      | 158-048     | -   | TANDEM PUMP                       |  |
| 7.      | 111-027     | 5   | T-BOLT CLAMP (1.25"-1.50")        |  |
| 8.      | 155-184     | 1   | PLUG (16S)                        |  |
| 9.      | 154-319     | 1   | BK RUN TEE (100)                  |  |
| 10.     | 514-307     | 1   | S/O TEE (12S-12H-12H90)           |  |
| 11.     | 153-094     | -   | HYD MOTOR - GRD DRIVE             |  |
|         | 157-358     | -   | HYD MOTOR - GRD DRIVE             | REFER TO "GROUND DRIVE TRANS MOUNT" PAGE USE 1 @ 25" |
| 12.     | 116-636     | AR  | BULK HOSE (3/4", SOLD PER 1')     | USE 1 @ 25"  |
| 13.     | 154-362     | 1   | S/O COUPLER (10S-12H90)           |  |
| 14.     | 153-142     | 1   | S/O COUPLER (20S-16H90)           |  |
| 15.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')       | USE 1 @ 26"  |
| 16.     | 154-278     | 1   | CONNECTOR (04S-040)               | SEE FOOTNOTE 1                                       |
| 17.     | 116-636     | AR  | BULK HOSE (3/4", SOLD PER 1')     | USE 1 @ 25"  |
| 18.     | 149-821     | 1   | HYD. LINE (-10)                   |  |
| 19.     | 154-251     | 1   | CONNECTOR (12S-12045)             |  |
| 20.     | 116-636     | AR  | BULK HOSE (3/4", SOLD PER 1')     | USE 1 @ 12"  |
| 21.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')       | USE 1 @ 20"  |
| 22.     | 157-244     | 1   | HOSE (100FX45-68"-3000)           |  |
| 23.     | 110-333     | 2   | BOLT-ON CLAMP (1")                | SEE FOOTNOTE 2                                       |
| 24.     | 105-003     | 2   | FLG LOCKNUT (5/16-NC)             | SEE FOOTNOTE 2                                       |
| 25.     | 117-764     | 1   | ABRASION SLEEVE (1.59" X 90")     |  |
| 26.     | 117-392     | 2   | ABRASION SLEEVE (1.25" X 60")     |  |
| 27.     | 115-687     | AR  | ABRASION SLEEVE (SOLD PER FOOT)   | USE 1 @ 12" & SEE FOOTNOTE 3                         |
| 28.     | 307-535     | 1   | RETURN MANIFOLD                   |  |
| 29.     | 149-820     | -   | S/O COUPLER (16S-16H90-16H45, XL) |  |
| 30.     | 149-058     | -   | RUN TEE (16S-120-06SF-06SF-06SF)  |  |
| 31.     | 154-324     | 5   | CAP (100F)                        |  |
| 32.     | 306-459     | -   | RADIATOR/OIL COOLER               |  |
| 33.     | 154-325     | 1   | UN BR TEE (100FX-100-100)         |  |
| 34.     | 155-466     | 1   | HOSE (100FX90-74"-2750)           |  |
| 35.     | 514-274     | 1   | CONNECTOR (08S-10090)             |  |
| 36.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')       | USE 1 @ 26"  |
| 37.     | 316-822     | 1   | RETURN BRACKET                    | SEE FOOTNOTE 4                                       |
| 38.     | 153-956     | 2   | HOSE (100FX90-50"-3000)           |  |
| 39.     | 111-011     | 5   | WORM CLAMP (1" TO 1-3/4")         |  |
| 40.     | 155-224     | -   | S/O BR TEE (12S-12H-16H90)        |  |
| 41.     | 155-198     | -   | S/O COUPLER (12S-12H90-06SF)      |  |
| 42.     | 149-819     | -   | S/O COUPLER (16S-16H-16H45)       |  |
| 43.     | 154-230     | -   | BRANCH TEE (06S-040-040)          |  |
| 44.     | 153-984     | 3   | BK RUN TEE (100-100-100L)         |  |

### FOOTNOTES

- FOR DESTINATION OF 154-278 (REF #16) REFER TO PARTS PAGE "MOTOR SHIFT/DIFF LOCK HYDRAULICS" REF #6.
- #110-333 & #105-003 ATTACH TO STUD BOLTS ON LEFT FRAME PLATE.
- ABRASION SLEEVE (REF #27) IS USED TO WRAP HOSE (REF #21) AS IT WRAPS AROUND PUMP.
- RETURN BRACKET (316-822) IS ATTACHED USING CURRENT HARDWARE ON TRANSMISSION MOUNT.

### NOTE

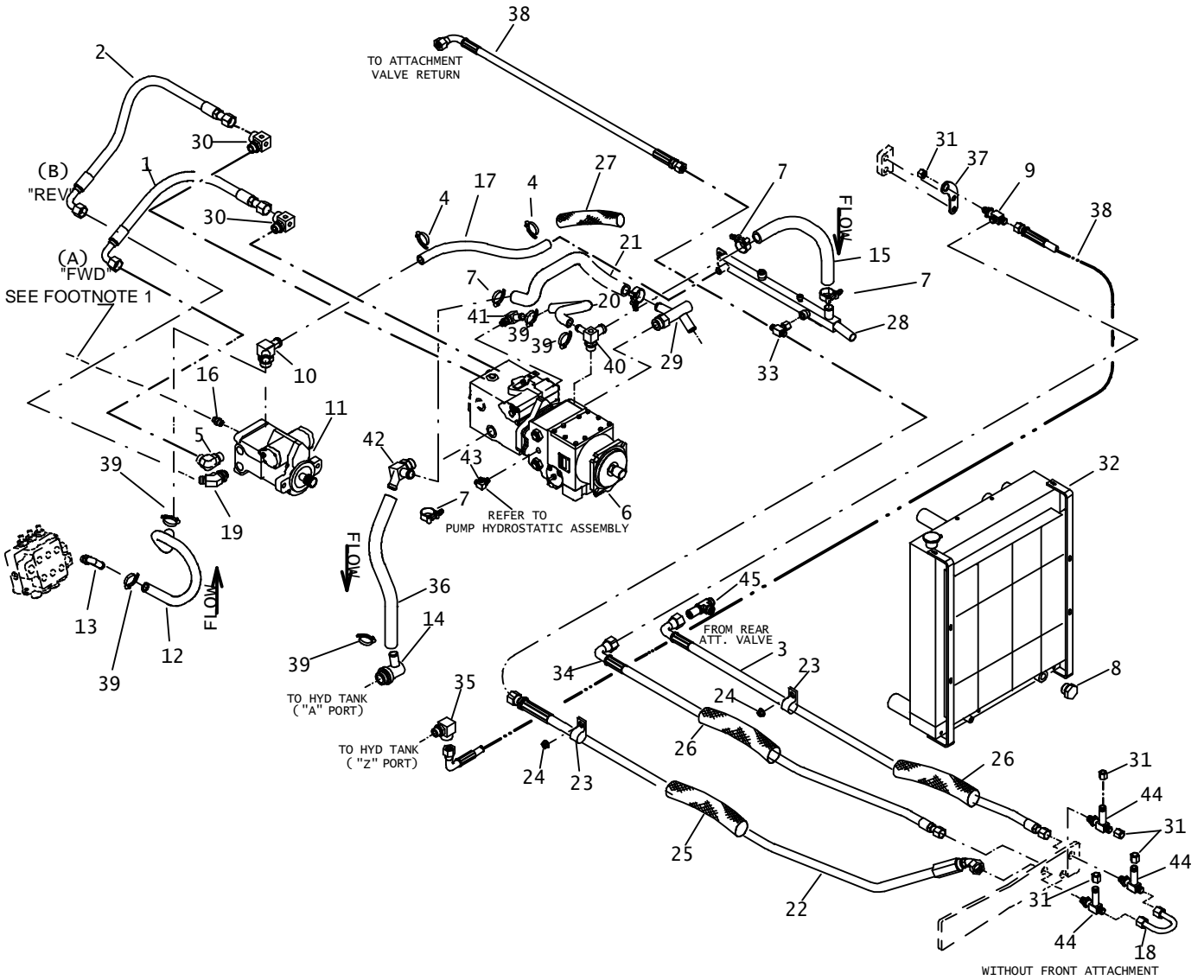
REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.



# PUMP DRIVE HYDRAULICS

## HYDROSTATIC RT75H

### BEGINS WITH S/N 5X0465



# PUMP DRIVE HYDRAULICS

## HYDROSTATIC RT75H

### BEGINS WITH S/N 5X0465

| REF NO. | PART NUMBER | QTY | DESCRIPTION                       | REMARKS                                  |
|---------|-------------|-----|-----------------------------------|--|
| 1.      | 153-076     | 1   | HOSE (120FX90S-28"-5000)          | REVERSE                                  |
| 2.      | 153-077     | 1   | HOSE (120FX90S-32"-5000)          | FORWARD                                  |
| 3.      | 157-343     | 1   | HOSE (100FX90S-120"-3000)         |  |
| 4.      | 110-353     | 2   | WORM CLAMP (3/4" TO 1-1/2")       |  |
| 5.      | 154-270     | 1   | CONNECTOR (12S-12090)             |  |
| 6.      | 158-048     | -   | TANDEM PUMP                       |  |
| 7.      | 111-027     | 5   | T-BOLT CLAMP (1.25"-1.50")        |  |
| 8.      | 155-184     | 1   | PLUG (16S)                        |  |
| 9.      | 154-319     | 1   | BK RUN TEE (100)                  |  |
| 10.     | 514-307     | 1   | S/O TEE (12S-12H-12H90)           |  |
| 11.     | 153-094     | -   | HYD MOTOR - GRD DRIVE             |  |
|         | 157-358     | -   | HYD MOTOR - GRD DRIVE             | REFER TO "GROUND DRIVE TRANS MOUNT" PAGE |
| 12.     | 116-636     | AR  | BULK HOSE (3/4", SOLD PER 1')     | USE 1 @ 25"                              |
| 13.     | 154-362     | 1   | S/O COUPLER (10S-12H90)           |  |
| 14.     | 153-142     | 1   | S/O COUPLER (20S-16H90)           |  |
| 15.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')       | USE 1 @ 26"                              |
| 16.     | 154-278     | 1   | CONNECTOR (04S-040)               | SEE FOOTNOTE 1                           |
| 17.     | 116-636     | AR  | BULK HOSE (3/4", SOLD PER 1')     | USE 1 @ 25"                              |
| 18.     | 149-821     | 1   | HYD. LINE (-10)                   |  |
| 19.     | 154-251     | 1   | CONNECTOR (12S-12045)             |  |
| 20.     | 116-636     | AR  | BULK HOSE (3/4", SOLD PER 1')     | USE 1 @ 12"                              |
| 21.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')       | USE 1 @ 20"                              |
| 22.     | 157-244     | 1   | HOSE (100FX45-68"-3000)           |  |
| 23.     | 110-333     | 2   | BOLT-ON CLAMP (1")                | SEE FOOTNOTE 2                           |
| 24.     | 105-003     | 2   | FLG LOCKNUT (5/16-NC)             | SEE FOOTNOTE 2                           |
| 25.     | 117-764     | 1   | ABRASION SLEEVE (1.59" X 90")     |  |
| 26.     | 117-392     | 2   | ABRASION SLEEVE (1.25" X 60")     |  |
| 27.     | 115-687     | AR  | ABRASION SLEEVE (SOLD PER FOOT)   | USE 1 @ 12" & SEE FOOTNOTE 3             |
| 28.     | 307-535     | 1   | RETURN MANIFOLD                   |  |
| 29.     | 149-820     | -   | S/O COUPLER (16S-16H90-16H45, XL) |  |
| 30.     | 149-058     | -   | RUN TEE (16S-120-06SF-06SF-06SF)  |  |
| 31.     | 154-324     | 5   | CAP (100F)                        |  |
| 32.     | 306-459     | -   | RADIATOR/OIL COOLER               |  |
| 33.     | 154-325     | 1   | UN BR TEE (100FX-100-100)         |  |
| 34.     | 155-466     | 1   | HOSE (100FX90-74"-2750)           |  |
| 35.     | 514-274     | 1   | CONNECTOR (08S-10090)             |  |
| 36.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')       | USE 1 @ 24"                              |
| 37.     | 316-822     | 1   | RETURN BRACKET                    | SEE FOOTNOTE 4                           |
| 38.     | 153-956     | 2   | HOSE (100FX90-50"-3000)           |  |
| 39.     | 111-011     | 5   | WORM CLAMP (1" TO 1-3/4")         |  |
| 40.     | 155-224     | -   | S/O BR TEE (12S-12H-16H90)        |  |
| 41.     | 155-198     | -   | S/O COUPLER (12S-12H90-06SF)      |  |
| 42.     | 149-819     | -   | S/O COUPLER (16S-16H-16H45)       |  |
| 43.     | 154-230     | -   | BRANCH TEE (06S-040-040)          |  |
| 44.     | 153-984     | 3   | BK RUN TEE (100-100-100L)         |  |
| 45.     | 154-319     | 1   | BULK RUN TEE (100)                |  |

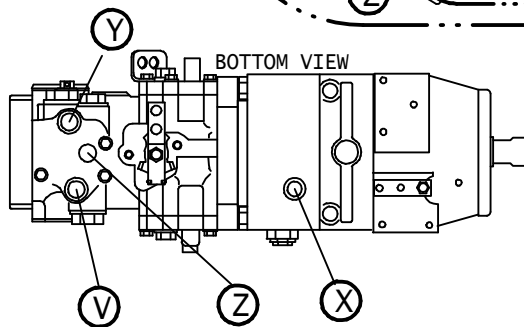
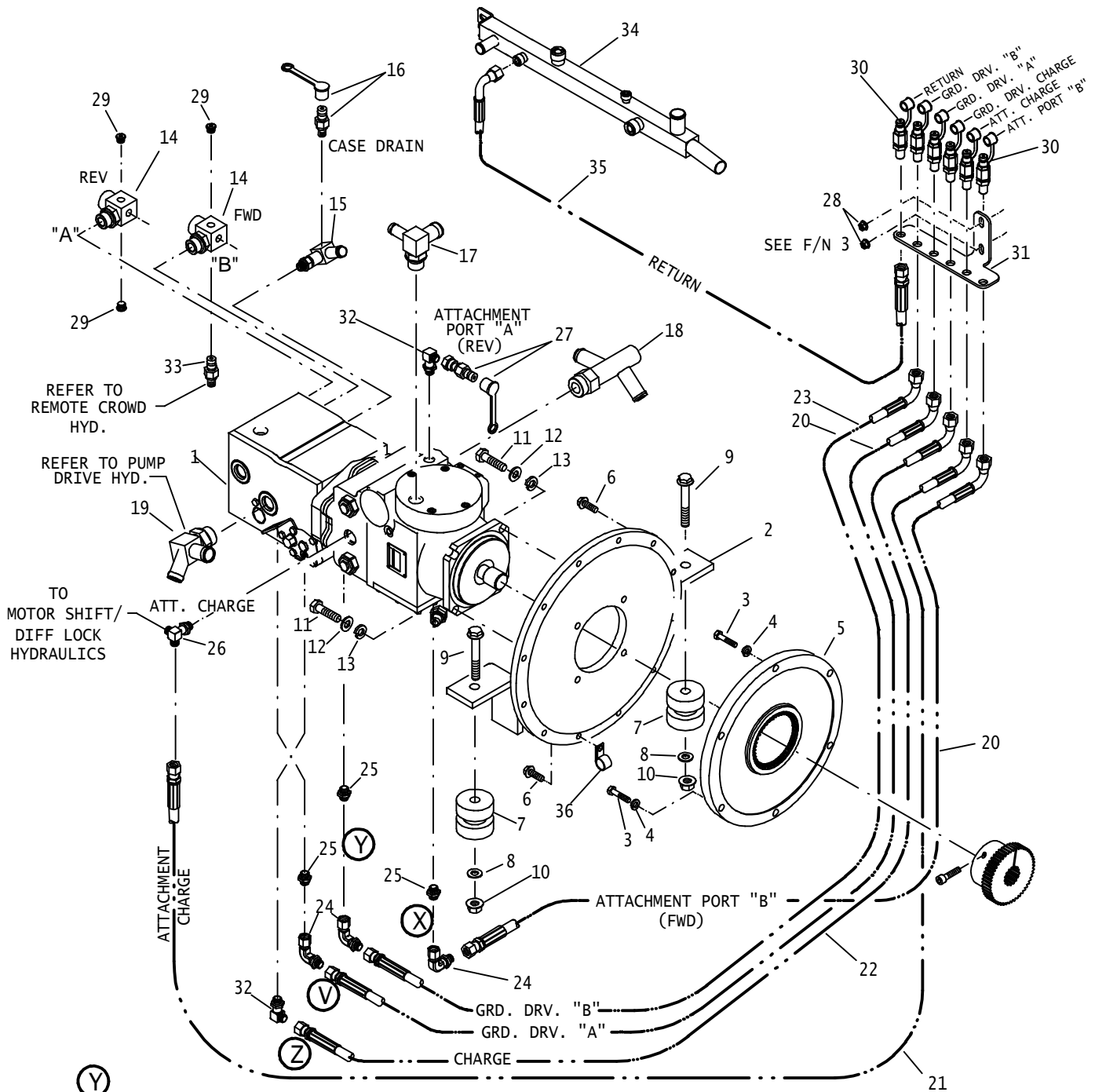
#### FOOTNOTES:

- FOR DESTINATION OF 154-278 (REF #16) REFER TO PARTS PAGE "MOTOR SHIFT/DIFF LOCK HYDRAULICS" REF #6.
- #110-333 & #105-003 ATTACH TO STUD BOLTS ON LEFT FRAME PLATE.
- ABRASION SLEEVE (REF #27) IS USED TO WRAP HOSE (REF #21) AS IT WRAPS AROUND PUMP.
- RETURN BRACKET (316-822) IS ATTACHED USING CURRENT HARDWARE ON TRANSMISSION MOUNT.

#### NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# PUMP HYDROSTATIC ASSEMBLY



- NOTES:
- 1: REFER TO PARTS PAGE "PUMP DRIVE HYDRAULICS" FOR HYDRAULIC HOSE ROUTING INFORMATION.
  - 2: HUB ON PUMP MEASURES 2-3/4" FROM PUMP MOUNTING SURFACE TO CENTER OF SPLINES.

# PUMP HYDROSTATIC ASSEMBLY

| REF NO. | PART NUMBER        | QTY | DESCRIPTION                       | REMARKS  |
|---------|--------------------|-----|-----------------------------------|--|
| 1.      | 158-048            | 1   | TANDEM PUMP                       |  |
|         | 158-039            |     | ATTACHMENT PUMP                   |  |
|         | <del>214-892</del> |     | PRESSURE SWITCH                   | SEE FOOTNOTE 4                                       |
|         | 190-679            |     | SEAL REPAIR KIT                   |  |
|         | 500-763            |     | MULTIFUNCTION VALVE - RELIEF      |  |
|         | 500-764            |     | MULTIFUNCTION VALVE (#1)          |  |
|         | 158-040            |     | GROUND DRIVE PUMP                 |  |
|         | 500-806            |     | SEAL REPAIR KIT                   |  |
|         | 499-448            |     | SERVO COVER                       |  |
|         | 499-447            |     | SERVO COVER (FULL DISPL.)         |  |
|         | 165-728            |     | SERVO GASKET                      |  |
|         | 500-639            |     | NEUTRAL START SWITCH              | SEE FOOTNOTE 5                                       |
| 2.      | 307-330            | 1   | PUMP MOUNT                        |  |
| 3.      | 107-416            | 6   | BOLT (5/16-NC X 1-1/2")           | SEE FOOTNOTE 1                                       |
| 4.      | 105-091            | 6   | LOCKWASHER (5/16")                |  |
| 5.      | 165-889            | 1   | FLYWHEEL COUPLING                 | SEE FOOTNOTE 3                                       |
| 6.      | 106-383            | 12  | FLG LK SCREW (M10-1.50 X 30mm)    | SEE FOOTNOTE 1                                       |
| 7.      | 116-151            | 2   | SHOCK MOUNT                       |  |
| 8.      | 105-475            | 4   | WASHER (1/2")                     |  |
| 9.      | 105-993            | 2   | FLG BOLT (5/8-NC X 4")            |  |
| 10.     | 105-994            | 2   | FLG LOCKNUT (5/8-NC)              |  |
| 11.     | 105-066            | 4   | BOLT (1/2-NC X 1-3/4")            | SEE FOOTNOTE 1 & 6                                   |
| 12.     | 105-244            | 4   | WASHER (1/2")                     |  |
| 13.     | 105-070            | 4   | LOCKWASHER (1/2")                 |  |
| 14.     | 149-058            | 2   | RUN TEE (16S-120-06SF-06SF-06SF)  | REFER TO PUMP DRIVE HYD. PARTS PAGE                  |
| 15.     | 155-198            | 1   | S/O COUPLER (12S-12H90-06SF)      |  |
| 16.     | 159-147            | 1   | QDC ADAPTER (02-06S)              |  |
| 17.     | 155-224            | 1   | S/O BRANCH TEE (12S-12H-16H90)    |  |
| 18.     | 149-820            | 1   | S/O COUPLER (16S-16H90-16H45, XL) |  |
| 19.     | 149-819            | 1   | S/O COUPLER (16S-16H-16H45)       |  |
| 20.     | 153-911            | 2   | HOSE (040FX90-10"-5000-AR)        |  |
| 21.     | 515-462            | 1   | HOSE (040FX90-22"-3000-AR)        |  |
| 22.     | 515-396            | 1   | HOSE (040FX90-8.0"-5000)          |  |
| 23.     | 515-358            | 1   | HOSE (040FX90-11"-5000)           |  |
| 24.     | 154-255            | 3   | UNION (040-040FX90)               |  |
| 25.     | 154-220            | 3   | CONNECTOR (040-06S)               |  |
| 26.     | 154-230            | -   | BRANCH TEE (06S-040-040)          | REFER TO MOTOR SHIFT/DIFF LOCK HYDRAULICS PARTS PAGE |
| 27.     | 159-156            | 1   | QDC ADAPTER (02-040F)             |  |
| 28.     | 105-003            | 2   | FLG LOCKNUT (5/16-NC)             |  |
| 29.     | 154-384            | 3   | PLUG (06S)                        |  |
| 30.     | 155-260            | 6   | BK QDC ADAPTER (02-040BK)         |  |
| 31.     | 310-246            | 1   | TEST PORT BRACKET                 | SEE FOOTNOTE 2                                       |
| 32.     | 154-226            | 2   | CONNECTOR (040-06S90)             |  |
| 33.     | 159-381            | -   | CHECK VALVE (06S-060)             | REFER TO PUMP DRIVE HYD. PARTS PAGE                  |
| 34.     | 307-535            | -   | RETURN MANIFOLD                   |  |
| 35.     | 515-085            | 1   | HOSE (040FX90-8.5"-3000)          |  |
| 36.     | 110-332            | 1   | BOLT-ON CLAMP (1-5/8")            |  |

NOT SHOWN:

FOOTNOTES:

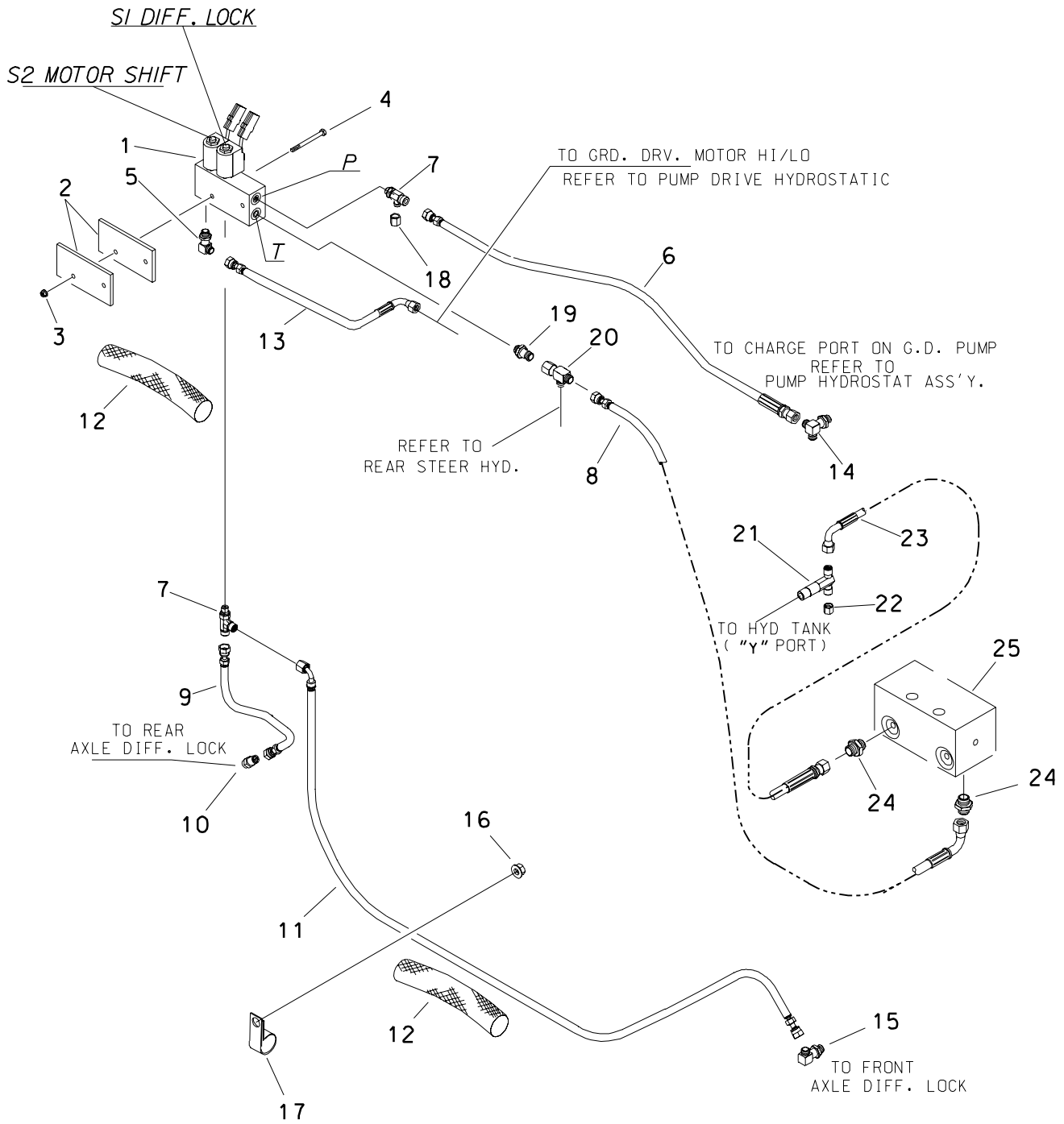
1. USE LOCTITE NO. 242 OR ITS EQUIVALENT
2. TEST PORT BRACKET (REF 31) BOLTS TO .312" STUD BOLTS ON FRAME.
3. TORQUE TO 90 FT-LBS AND USE 242 LOCTITE.
4. ATTACHMENT PUMP (90 SERIES) NEUTRAL SWITCH.
5. G.D. PUMP (M46) NEUTRAL SWITCH; W/O CRUISE CONTROL.
6. TORQUE TO 100 FT-LBS

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# MOTOR SHIFT/DIFF LOCK HYDRAULICS

HYDROSTATIC  
 BEGINS WITH S/N 5X0710.



# MOTOR SHIFT/DIFF LOCK HYDRAULICS

## HYDROSTATIC

BEGINS WITH S/N 5X0710.

| REF NO. | PART NUMBER | QTY | DESCRIPTION                   | REMARKS                                 |
|---------|-------------|-----|-------------------------------|---|
| 1.      | 157-246     | 1   | MANIFOLD (2-SP)               | SEE FOOTNOTE 2                          |
|         | 214-491     |     | COIL, 12V                     |   |
|         | 499-446     |     | SOLENOID (3 WAY-2 POS VALVE)  |   |
| 2.      | 306-885     | 2   | MOUNT PLATE                   | SEE FOOTNOTE 3                          |
| 3.      | 106-385     | 2   | FLG LOCKNUT (M6-1.00)         |   |
| 4.      | 106-566     | 2   | SCREW (M6-1.00 X 70mm)        |   |
| 5.      | 154-252     | 1   | CONNECTOR (04S-04090)         |   |
| 6.      | 515-249     | 1   | HOSE (040FX-26"-3000)         |   |
| 7.      | 154-316     | 2   | RUN TEE (04S-040-040)         | DIFF. LOCK                              |
| 8.      | 515-716     | 1   | HOSE (060FX90-42"-3000)       |   |
| 9.      | 154-743     | 1   | HOSE (040FX90S-23"-3000)      |   |
| 10.     | 154-220     | 1   | CONNECTOR (040-06S)           |   |
| 11.     | 515-174     | 1   | HOSE (040FX90-74"-3000)       |   |
| 12.     | 117-611     | 2   | ABRASION SLEEVE (1.00" X 22") |   |
| 13.     | 154-726     | 1   | HOSE (040FX90-15"-3000)       |   |
| 14.     | 154-230     | 1   | BRANCH TEE (06S-040-040)      |   |
| 15.     | 154-226     | 1   | CONNECTOR (040-06S90)         |   |
| 16.     | 105-003     | 1   | FLG LOCKNUT (5/16-NC)         | SEE FOOTNOTE 1                          |
| 17.     | 110-333     | 1   | BOLT-ON CLAMP (1")            | SEE FOOTNOTE 1                          |
| 18.     | 154-296     | 1   | CAP (040F)                    |   |
| 19.     | 154-411     | 1   | CONNECTOR (04S-060)           |   |
| 20.     | 154-344     | 1   | UN RU TEE (060FX-060-060)     |   |
| 21.     | 159-643     | 1   | TEE (08N-060-060 X 2.375")    |   |
| 22.     | 154-326     | 1   | CAP (060F)                    |   |
| 23.     | 157-899     | -   | HOSE (060FX90S-11"-3000)      | REFER TO PAGE "REMOTE CROWD HYDRAULICS" |
| 24.     | 154-221     | -   | CONNECTOR (06S-060)           |   |
| 25.     | 159-218     | -   | HYD. MANIFOLD (4-PORT)        |   |

### FOOTNOTES

- #105-003 & #110-333 ATTACH TO STUD BOLTS ON FRAME PLATE.
- EARLY PRODUCTION MANIFOLDS HAVE A CAVITY PLUG WHERE THE RELIEF VALVE WAS LOCATED.
- WHEN "FRAME TILT" OPTION IS USED TWO MOUNT PLATES (306-885) IS REQUIRED, ONE ON EITHER SIDE OF FRAME. WITH NO FRAME TILT ONLY ONE MOUNT PLATE (306-885) IS USED ON OUTSIDE OF FRAME.

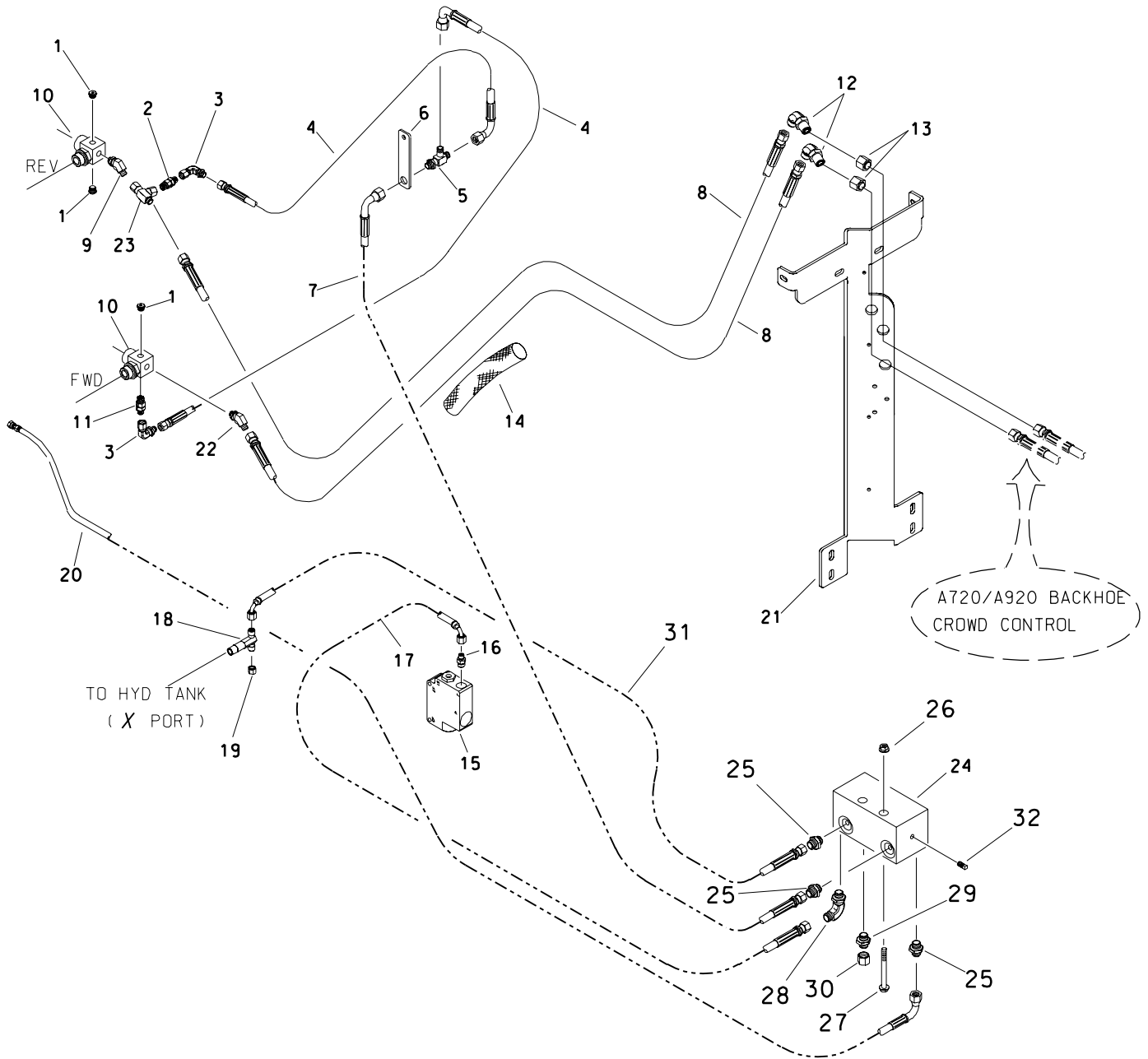
### NOTE

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

# REMOTE CROWD HYDRAULICS

BEGINS WITH S/N 5X0465 RT70/RT75

BEGINS WITH S/N 5X0710 RT90/RT95/RT115



# REMOTE CROWD HYDRAULICS

BEGINS WITH S/N 5X0465 RT70/RT75

BEGINS WITH S/N 5X0710 RT90/RT95/RT115

| REF NO. | PART NUMBER | QTY | DESCRIPTION                      | REMARKS   |
|---------|-------------|-----|----------------------------------|---|
| 1.      | 154-384     | -   | PLUG (06S)                       |   |
| 2.      | 149-871     | 1   | FLOW CHECK VALVE (060-060)       |   |
| 3.      | 154-228     | 2   | UNION (060-060FX90)              |   |
| 4.      | 149-826     | 2   | HOSE (060FX90L-12"-3000)         |   |
| 5.      | 154-400     | 1   | BK RUN TEE (060-060-060BK)       |   |
| 6.      | 318-606     | 1   | BULKHEAD BRACKET                 |   |
| 7.      | 154-887     | 1   | HOSE (060FX45-23"-3000)          |   |
| 8.      | 157-263     | 2   | HOSE (040FX-102"-5000)           |   |
| 9.      | 154-224     | 1   | CONNECTOR (06S-06045)            |   |
| 10.     | 149-058     | -   | RUN TEE (16S-120-06SF-06SF-06SF) |   |
| 11.     | 159-381     | 1   | CHECK VALVE (06S-060)            |   |
| 12.     | 154-355     | 2   | BK CONNECTOR (040-04090BK)       |   |
| 13.     | 154-296     | 2   | CAP (040F)                       |   |
| 14.     | 115-934     | 1   | ABRASION SLEEVE (1.75" X 100")   |   |
| 15.     | 157-917     | -   | PRIORITY VALVE                   |   |
| 16.     | 154-278     | -   | CONNECTOR (04S-040)              |   |
| 17.     | 154-743     | -   | HOSE (040FX90S-23"-3000)         |   |
| 18.     | 159-643     | -   | TEE (08N-060-060 X 2.375")       |   |
| 19.     | 154-326     | -   | CAP (060F)                       |   |
| 20.     | 515-716     | -   | HOSE (060FX90-42"-3000)          |   |
| 21.     | 307-909     | -   | FRONT HOOD SUPPORT               |   |
| 22.     | 154-250     | 1   | CONNECTOR (040-06S45)            |   |
| 23.     | 157-264     | 1   | TEE (040-060F-060F)              |   |
| 24.     | 159-218     | 1   | HYD. MANIFOLD (4-PORT)           |   |
| 25.     | 154-221     | 3   | CONNECTOR (06S-060)              |   |
| 26.     | 106-386     | 2   | FLG LOCKNUT (M8-1.25)            |   |
| 27.     | 105-665     | 2   | FLG SCREW (M8-1.25 X 55mm)       |   |
| 28.     | 154-226     | 1   | CONNECTOR (040-06S90)            |   |
| 29.     | 154-220     | 1   | CONNECTOR (040-06S)              |   |
| 30.     | 154-296     | 1   | CAP (040F)                       | REFER TO "GEARBOX & VIBRATOR DRV HYD" H752/H952 |
| 31.     | 157-899     | 1   | HOSE (060FX90S-11"-3000)         |   |
| 32.     | 110-264     | 1   | EXPANDER PLUG (.275")            |   |

## FOOTNOTES

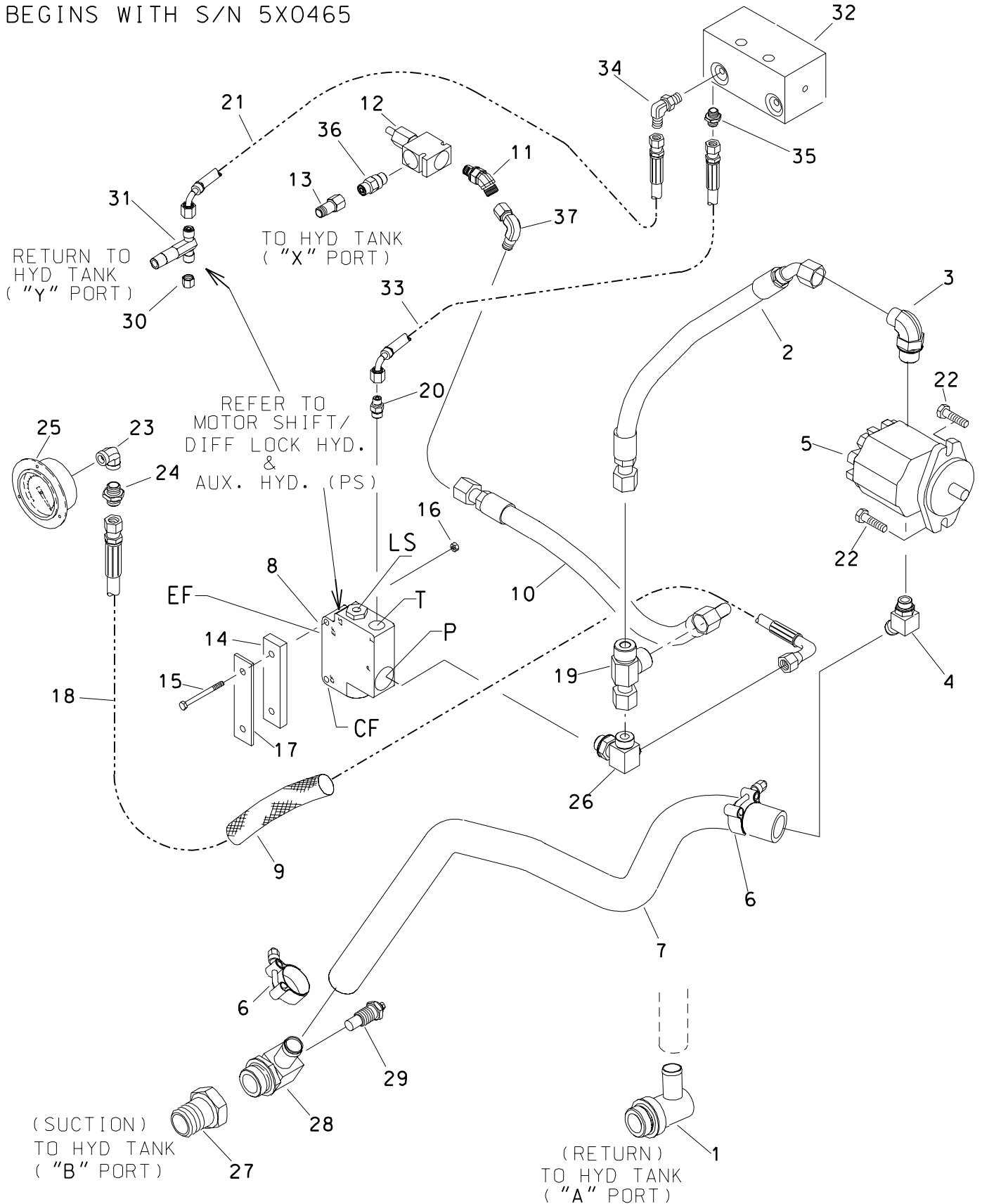
## NOTE

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.



# AUXILIARY HYDRAULICS

HYDROSTATIC  
 BEGINS WITH S/N 5X0465



## AUXILIARY HYDRAULICS

## HYDROSTATIC

BEGINS WITH S/N 5X0465

| REF NO. | PART NUMBER | QTY | DESCRIPTION                   | REMARKS                        |
|---------|-------------|-----|-------------------------------|--------------------------------|
| 1.      | 153-142     | 1   | S/O COUPLER (20S-16H90)       |                                |
| 2.      | 515-734     | 1   | HOSE (100FX45-28"-3000)       |                                |
| 3.      | 154-298     | 1   | CONNECTOR (10S-10090)         |                                |
| 4.      | 155-230     | 1   | S/O COUPLER (16S-16H45)       |                                |
| 5.      | 153-807     | 1   | HYDRAULIC PUMP (AUX)          |                                |
|         | 500-966     | 1   | SEAL REPAIR KIT               |                                |
| 6.      | 111-027     | 2   | T-BOLT CLAMP (1.25" - 1.50")  |                                |
| 7.      | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')   | USE 1 @ 54"                    |
| 8.      | 157-917     | 1   | PRIORITY VALVE                |                                |
| 9.      | 117-218     | 1   | ABRASION SLEEVE (1.00" X 52") |                                |
| 10.     | 155-491     | 1   | HOSE (100FX90L-12"-3000)      |                                |
| 11.     | 154-391     | 1   | CONNECTOR (08S-100)           |                                |
| 12.     | 158-681     | 1   | RELIEF VALVE (AUXILIARY)      | PRE SET TO 2500 PSI            |
| 13.     | 153-995     | 1   | CONNECTOR (08S-08SF)          |                                |
| 14.     | 306-886     | 1   | SPACER                        | USED ON INSIDE OF FRAME PLATE  |
| 15.     | 107-054     | 2   | SCREW (M6-1.00 X 90mm)        |                                |
| 16.     | 106-385     | 2   | FLG LOCKNUT (M6-1.00)         |                                |
| 17.     | 309-817     | 1   | SPACER PLATE                  | USED ON OUTSIDE OF FRAME PLATE |
| 18.     | 515-075     | 1   | HOSE (040FX90S-82"-3000)      |                                |
| 19.     | 154-488     | 1   | UN RUN TEE (100FX-100-100)    |                                |
| 20.     | 154-278     | 1   | CONNECTOR (04S-040)           |                                |
| 21.     | 515-188     | 1   | HOSE (060FX90S-23"-3000)      |                                |
| 22.     | 105-876     | 2   | SCREW (M10-1.50 X 35mm)       |                                |
| 23.     | 149-896     | 1   | STREET ELBOW (04NF-04NF90)    |                                |
| 24.     | 154-339     | 1   | CONNECTOR (04N-040)           |                                |
| 25.     | 217-551     | 1   | PRESSURE GAUGE (3000 PSI)     | SEE FOOTNOTE 1                 |
| 26.     | 153-787     | 1   | TEE (100-10S-040)             |                                |
| 27.     | 514-446     | -   | REDUCER (24S-20SF)            |                                |
| 28.     | 157-987     | 1   | S/O COUPLER (20S-16H90, 04NF) |                                |
| 29.     | 214-854     | 1   | TEMPERATURE SWITCH            |                                |
| 30.     | 154-326     | -   | CAP (060F)                    |                                |
| 31.     | 159-643     | -   | TEE (08N-060-060, X 2.375")   |                                |
| 32.     | 159-218     | -   | HYD. MANIFOLD (4-PORT)        |                                |
| 33.     | 515-437     | -   | HOSE (040FX90-21"-3000)       |                                |
| 34.     | 154-342     | -   | CONNECTOR (06S-06090)         |                                |
| 35.     | 154-220     | -   | CONNECTOR (040-06S)           |                                |
| 36.     | 154-466     | 1   | CONNECTOR (08S-08S)           |                                |
| 37.     | 154-315     | 1   | UNION (100-100FX90)           |                                |

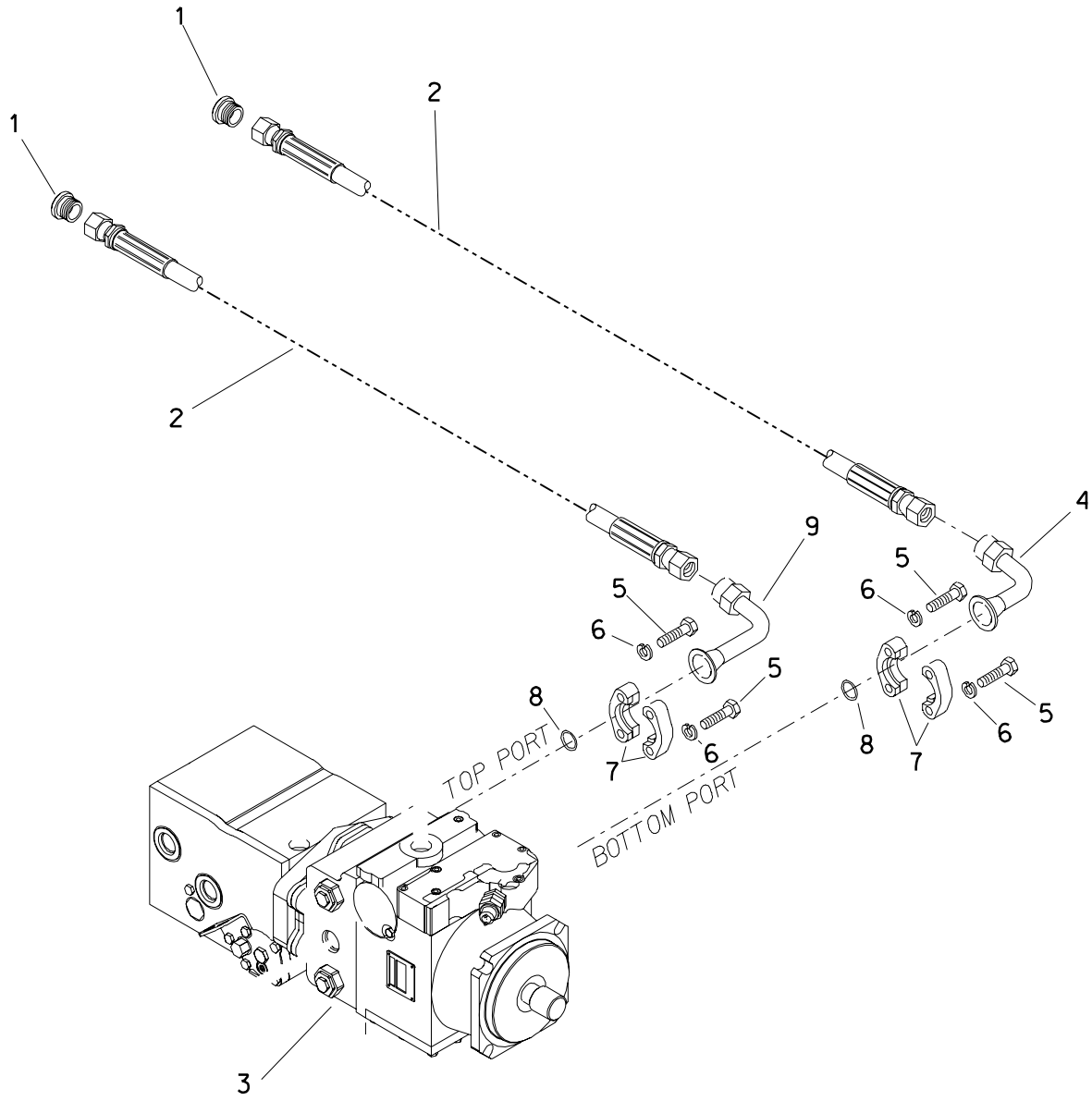
## FOOTNOTES

1. REFER #25 (217-551) IS DEPICTED WITH FACE OF GAUGE SHOWING. ACTUALLY IT FITS INSIDE THE FENDER AND FACES THE OPERATOR.

## NOTE

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# HYDROSTATIC PUMP ATTACHMENT HYDRAULICS

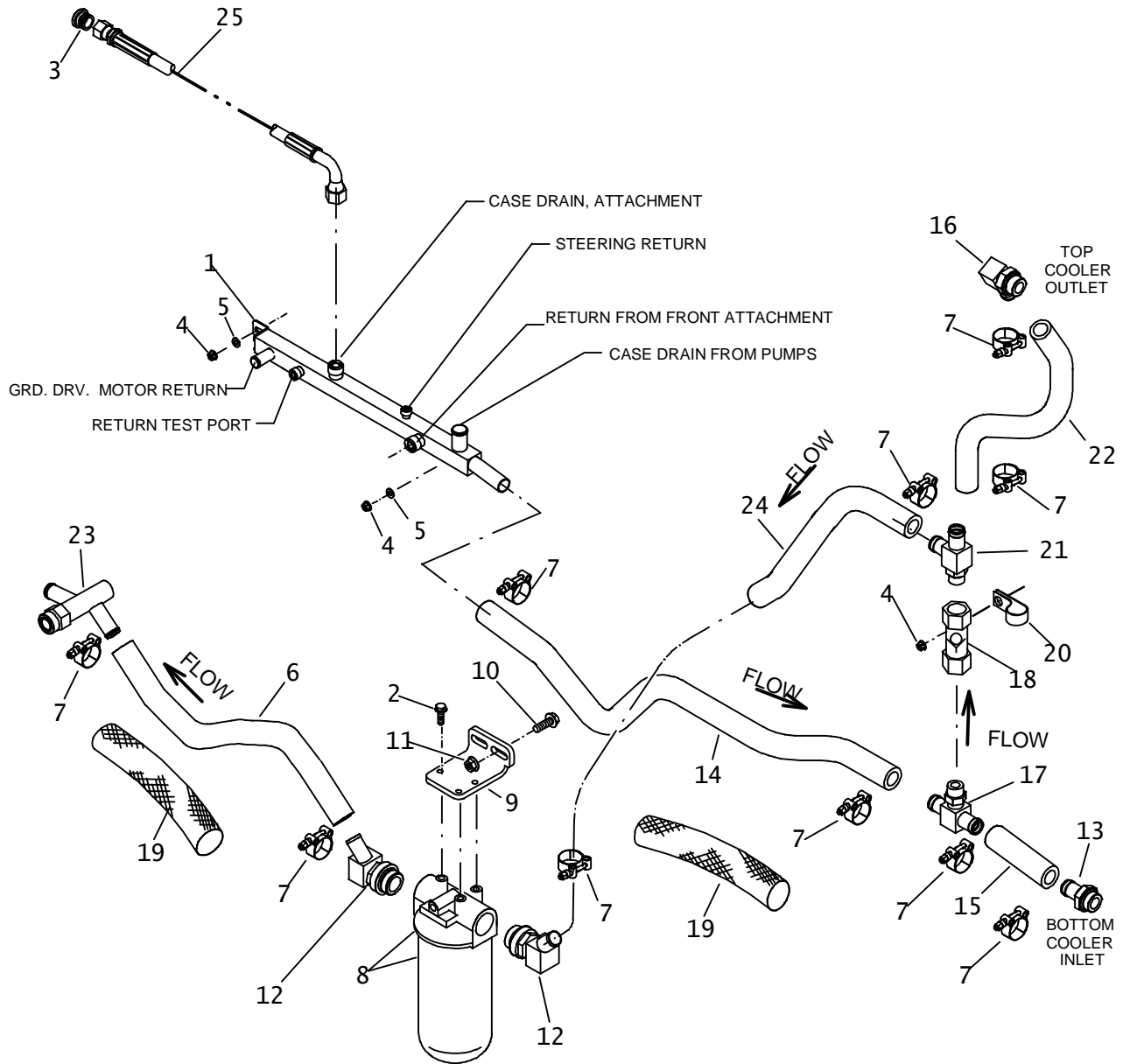


# HYDROSTATIC PUMP ATTACHMENT HYDRAULICS

| REF NO. | PART NUMBER | QTY | DESCRIPTION                | REMARKS |
|---------|-------------|-----|----------------------------|---------|
| 1.      | 154-334     | 2   | PLUG (160)                 |         |
| 2.      | 515-621     | 2   | HOSE (160FX-50"-6000)      |         |
| 3.      | 158-048     | -   | TANDEM PUMP                |         |
| 4.      | 154-404     | 1   | CONNECTOR (160-16FL90)     |         |
| 5.      | 105-222     | 8   | BOLT (7/16-NC X 1-3/4")    |         |
| 6.      | 105-073     | 8   | LOCK WASHER (7/16")        |         |
| 7.      | 159-077     | 2   | SPLIT FLANGE (16SFL)       |         |
| 8.      | 157-029     | 2   | O-RING (219 D90)           |         |
| 9.      | 153-929     | 1   | CONNECTOR (160-16FL90, XL) |         |

FOOTNOTES

# HYDRAULIC FILTER HYDROSTATIC RT75



# HYDRAULIC FILTER HYDROSTATIC RT75

| REF NO. | PART NUMBER | QTY | DESCRIPTION                     | REMARKS                        |
|---------|-------------|-----|---------------------------------|--------------------------------|
| 1.      | 307-535     | 1   | RETURN MANIFOLD                 |                                |
| 2.      | 105-826     | 3   | FLG LK BOLT (3/8-NC X 1")       |                                |
| 3.      | 154-331     | 1   | PLUG (080)                      |                                |
| 4.      | 105-003     | 3   | FLG LOCKNUT (5/16-NC)           |                                |
| 5.      | 105-881     | 2   | WASHER (5/16")                  |                                |
| 6.      | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')     | USE 1 @ 11.5" & SEE FOOTNOTE 3 |
| 7.      | 111-027     | 10  | T-BOLT CLAMP (1.25" - 1.50")    |                                |
| 8.      | 157-345     | 1   | HYD OIL FILTER (20SF-20SF)      | SEE FOOTNOTE 1                 |
|         | 153-792     |     | FILTER ELEMENT (10 MICRON)      |                                |
|         | 153-791     |     | FILTER ELEMENT (5 MICRON)       | SEE FOOTNOTE 2                 |
|         | 217-765     |     | INDICATOR SWITCH                |                                |
| 9.      | 306-862     | 1   | BRACKET                         |                                |
| 10.     | 107-003     | 2   | FLG LK SCREW (M12-1.75 X 35mm)  |                                |
| 11.     | 106-709     | 2   | FLG LK NUT (M12-1.75)           |                                |
| 12.     | 153-110     | 2   | S/O COUPLER (20S-16H45)         |                                |
| 13.     | 514-088     | 1   | S/O COUPLER (16S-16H)           |                                |
| 14.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')     | USE 1 @ 44"                    |
| 15.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')     | USE 1 @ 5.5"                   |
| 16.     | 154-188     | 1   | S/O COUPLER (16S-16H90)         |                                |
| 17.     | 155-231     | 1   | S/O BR TEE (16S-16H-16H)        |                                |
| 18.     | 153-888     | 1   | CHECK VALVE (16SF-16SF, 25 PSI) |                                |
| 19.     | 115-733     | AR  | ABRASION SLEEVE (SOLD PER FOOT) | USE 2 @ 12"                    |
| 20.     | 110-332     | 1   | BOLT-ON CLAMP (1-5/8")          |                                |
| 21.     | 149-908     | 1   | RUN TEE (16S-16H-16H)           |                                |
| 22.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')     | USE 1 @ 18"                    |
| 23.     | 149-820     | -   | S/O CPLR (16S-16H90-16H45XL)    |                                |
| 24.     | 116-460     | AR  | BULK HOSE (1", SOLD PER 1')     | USE 1 @ 28"                    |
| 25.     | 515-025     | 1   | HOSE (080FX90-40"-3000)         |                                |

## NOT SHOWN:

115-687 AR ABRASION SLEEVE(SOLD PER FOOT) USE 1 @ 26" & SEE FOOTNOTE 4

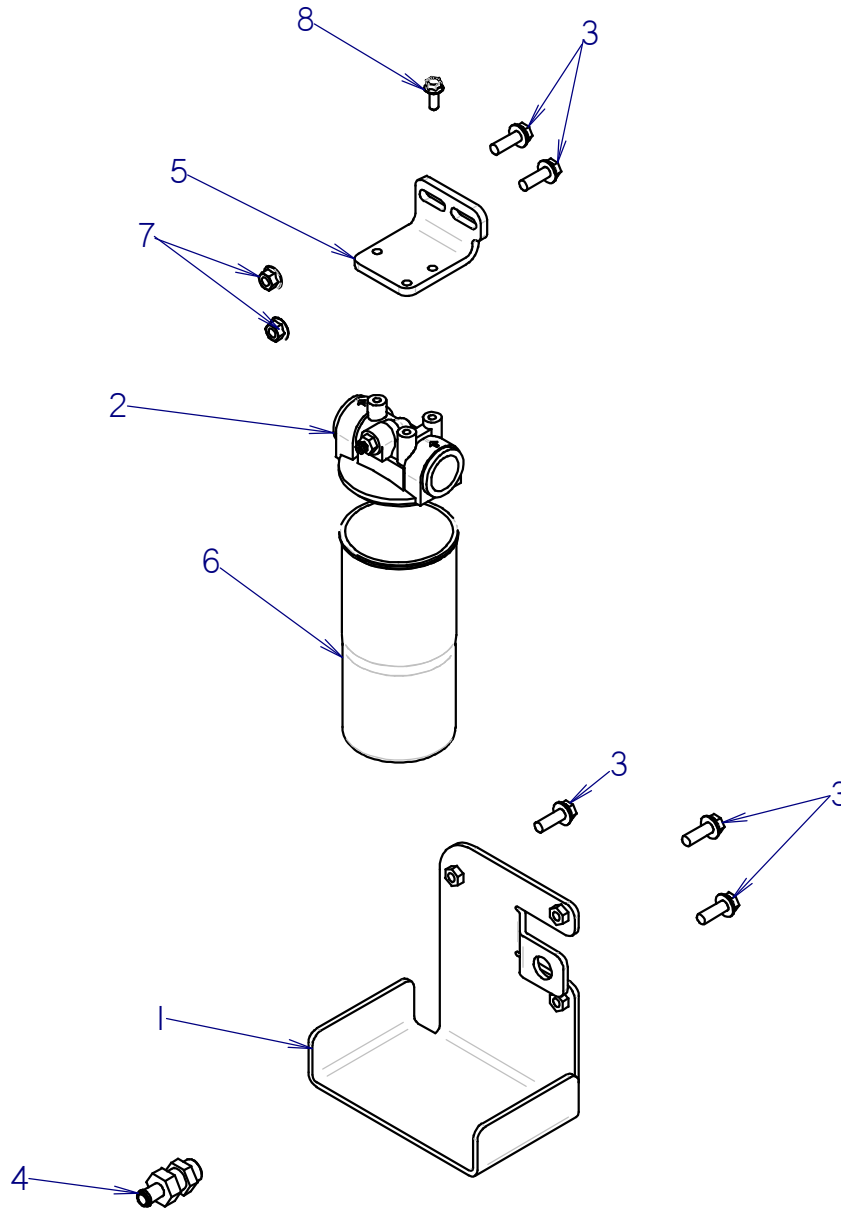
## FOOTNOTES:

1. 157-345 IS THE FILTER HEAD AND REGULAR FILTER ELEMENT 153-792.
2. IF THE HYDRAULIC SYSTEM IS EXPOSED TO CONTAMINATES, A NEW BREAK-IN FILTER 153-791 IS INSTALLED FOR 50 HOURS.
3. "FOR DEALERSHIP USE" WHEN INSTALLING A REAR SUPPORT MOUNT FOR EARTH SAW HOSE 116-460 NEEDS TO BE 14".
4. PLACE 115-687 OVER REFERENCE 24, HOSE 116-460

## NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# HYDRAULIC FILTER GUARD



# HYDRAULIC FILTER GUARD

REF PART  
NO. NUMBER QTY DESCRIPTION REMARKS

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS             |
|---------|-------------|-----|--------------------------------|---------------------|
| 1       | 322-662     | 1   | HYD FILTER GUARD               |                     |
| 2       | 157-345     | 1   | FILTER HEAD                    | REFER TO FOOTNOTE 1 |
| 3       | 107-003     | 5   | FLG LK SCREW (M12-1.75 X 35MM) | REFER TO FOOTNOTE 1 |
| 4       | 149-624     | 1   | BK S/O COUPLER (100-10H)       | REFER TO FOOTNOTE 1 |
| 5       | 306-862     | 1   | BRACKET                        | REFER TO FOOTNOTE 1 |
| 6       | 153-792     | 1   | FILTER ELEMENT (10 MICRON)     | REFER TO FOOTNOTE 1 |
| 7       | 106-709     | 2   | FLG LK NUT (M12-1.75)          | REFER TO FOOTNOTE 1 |
| 8       | 105-826     | 3   | FLG LK BOLT (3/8-NC X 1")      | REFER TO FOOTNOTE 1 |

#### FOOTNOTES

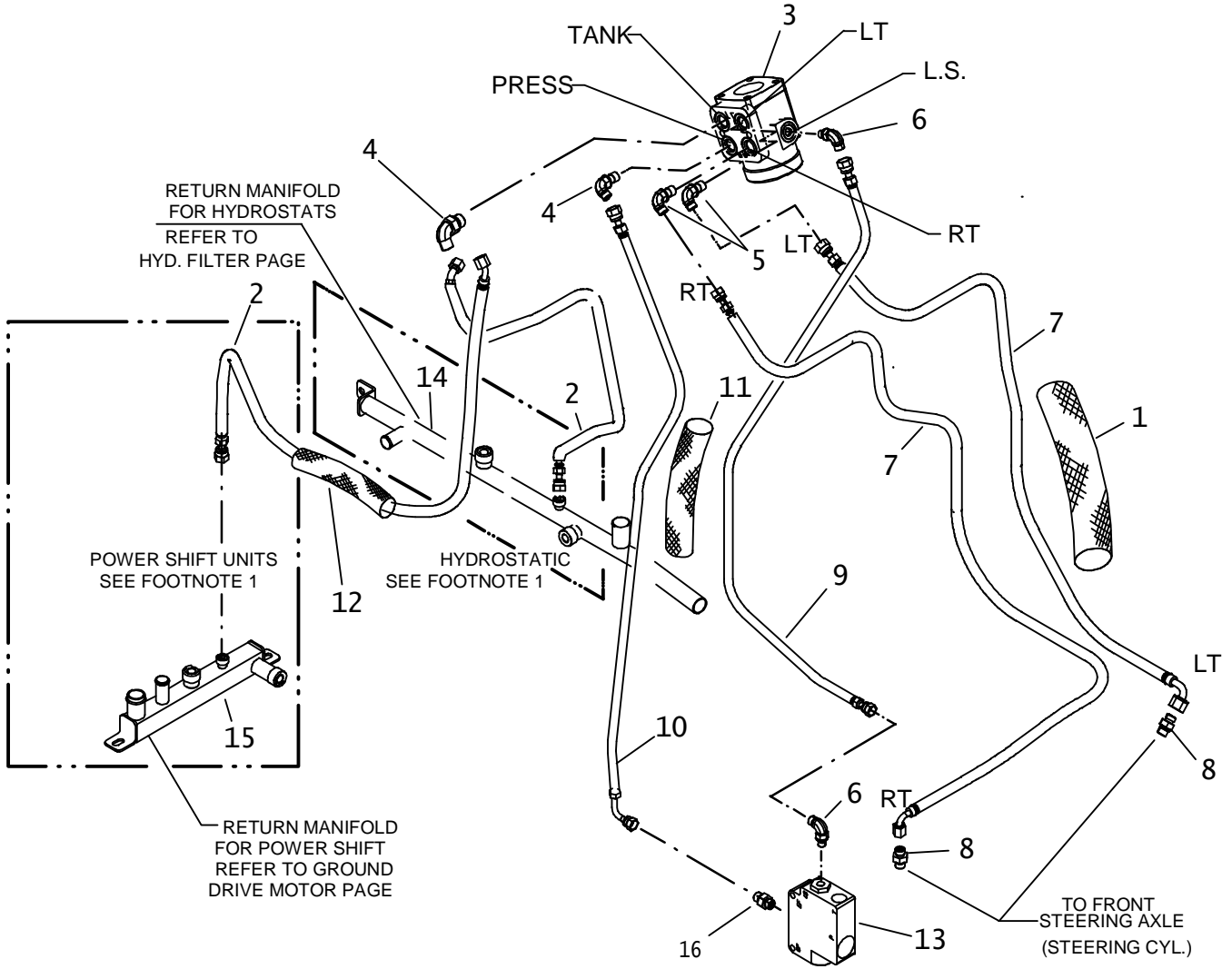
1. FOR MORE DETAILS ON REF NO:S 2 THRU 8 REFER TO PARTS PAGE "HYDRAULIC FILTER".

#### NOTE:

HYDRAULIC FILTER GUARD KIT #191-342 CONSIST OF 1X REF #1 AND 3X REF #3.



# POWER STEERING VALVE HYD



## POWER STEERING VALVE HYD

| REF NO. | PART NUMBER | QTY | DESCRIPTION                   | REMARKS                                 |
|---------|-------------|-----|-------------------------------|---|
| 1.      | 117-214     | 1   | ABRASION SLEEVE (1.25" X 40") |   |
| 2.      | 515-222     | 1   | HOSE (060FX45-46"-3000)       | HYDROSTAT UNITS ONLY & SEE FOOTNOTE 1   |
|         | 149-358     | 1   | HOSE (060FX45-55"-3000)       | POWER SHIFT UNITS ONLY & SEE FOOTNOTE 1 |
| 3.      | 158-900     | 1   | POWER STEERING VALVE          |   |
|         | 190-913     | 1   | SEAL REPAIR KIT               |   |
| 4.      | 154-227     | 2   | CONNECTOR (060-08S90)         |   |
| 5.      | 154-276     | 2   | CONNECTOR (040-08S90)         |   |
| 6.      | 154-252     | 2   | CONNECTOR (04S-04090)         |   |
| 7.      | 154-705     | 2   | HOSE (040FX90-60"-3000)       |   |
| 8.      | 152-146     | 2   | CONNECTOR (040-08S) SHORT     |   |
| 9.      | 154-695     | 1   | HOSE (040FX-38"-3000)         |   |
| 10.     | 153-315     | 1   | HOSE (060FX90S-36"-3000)      |   |
| 11.     | 117-396     | 1   | ABRASION SLEEVE (1.25" X 28") |   |
| 12.     | 117-387     | 1   | ABRASION SLEEVE (1.00" X 42") |   |
| 13.     | 158-901     | -   | PRIORITY VALVE                |   |
| 14.     | 307-535     | -   | RETURN MANIFOLD               |   |
| 15.     | 153-210     | -   | MANIFOLD (5-PORT)             |   |
| 16.     | 154-222     | 1   | CONNECTOR (060-08S)           |   |

NOT SHOWN:

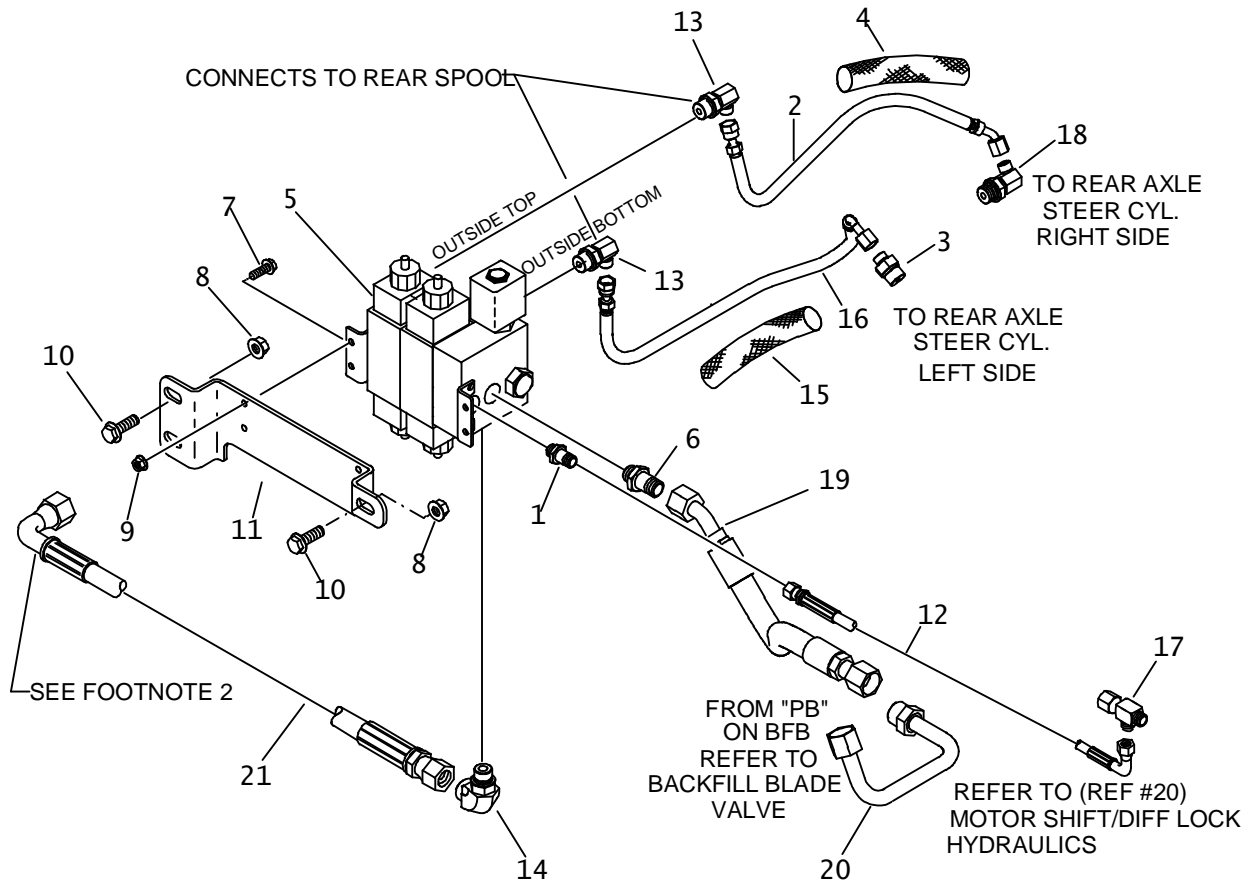
### FOOTNOTES:

- AS INDICATED BY THE GRAPHICS, "RETURN TO TANK" ON HYDROSTATIC UNITS RETURNS TO RETURN MANIFOLD ON SIDE OF LEFT FRAME PLATE. "RETURN TO TANK" ON POWER SHIFT UNITS RETURNS TO RETURN MANIFOLD ON CROSSMEMBER OF FRAME.

### NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF SAE AND ORS O-RINGS.

# REAR STEER HYDRAULICS



## REAR STEER HYDRAULICS

| REF NO. | PART NUMBER | QTY | DESCRIPTION                         | REMARKS  |
|---------|-------------|-----|-------------------------------------|--|
| 1.      | 154-222     | 1   | CONNECTOR (060-08S)                 |  |
| 2.      | 154-934     | 1   | HOSE (040FX45-18"-3000)             |  |
| 3.      | 152-146     | 1   | CONNECTOR (040-08S) SHORT           |  |
| 4.      | 117-608     | 1   | ABRASION SLEEVE (1.00" X 15")       |  |
| 5.      | 153-785     | 1   | HYDRAULIC VALVE (SGL SPOOL)         |  |
|         | 153-786     | 1   | HYDRAULIC VALVE (2-SPOOL)           | SEE FOOTNOTE 1                                       |
|         | 159-505     | -   | SOLENOID TUBE                       |  |
|         | 149-616     | -   | CAP NUT                             |  |
| 6.      | 154-391     | 1   | CONNECTOR (08S-100)                 |  |
| 7.      | 106-379     | 4   | FLG LK SCREW (M6-1.00 X 20mm)       |  |
| 8.      | 106-354     | 3   | FLANGE NUT (M12-1.75)               |  |
| 9.      | 106-385     | 4   | FLG LOCKNUT (M6-1.00)               |  |
| 10.     | 106-632     | 3   | FLG LK SCREW (M12-1.75 X 35mm, SER) |  |
| 11.     | 307-074     | 1   | BRACKET                             |  |
| 12.     | 153-320     | 1   | HOSE (060FX90L-17"-3000)            |  |
| 13.     | 157-334     | 2   | CONNECTOR (040-06S90, ORF)          |  |
| 14.     | 154-298     | 1   | CONNECTOR (10S-10090)               |  |
| 15.     | 117-328     | 1   | ABRASION SLEEVE (1.00" X 18")       |  |
| 16.     | 515-462     | 1   | HOSE (040FX90-22"-3000 AR)          |  |
| 17.     | 154-344     | -   | UN RUN TEE (060FX-060-060)          | REFER TO "MOTOR SHIFT/DIFF LOCK HYD" FOR DESTINATION |
| 18.     | 154-276     | 1   | CONNECTOR (040-08S90)               |  |
| 19.     | 153-907     | -   | HOSE (100FX45-16"-3000)             |  |
| 20.     | 149-851     | -   | HYD. LINE (-10)                     |  |
| 21.     | 515-129     | -   | HOSE (100FX90-30"-3000)             | SEE FOOTNOTE 2                                       |

NOT SHOWN

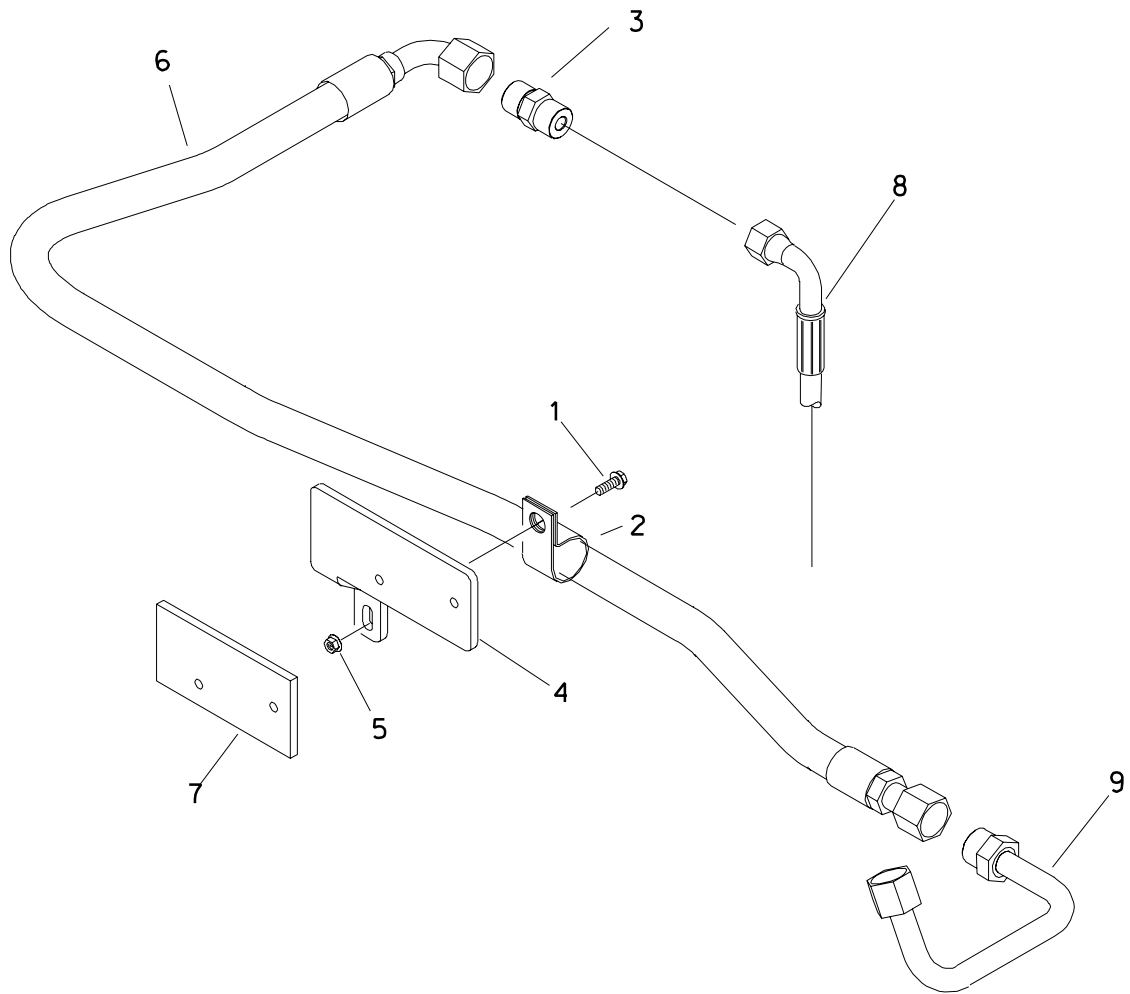
### FOOTNOTES

1. 153-786 (2 SPOOL VALVE) IS USED WHEN FRAME TILT & REAR STEER OPTIONS ARE BOTH USED.
2. REFERENCE #3 FROM "PUMP DRIVE HYD" WILL ATTACH HERE UNTIL A REAR ATTACHMENT IS ATTACHED ON TRACTOR.

### NOTE

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

NO FRAME TILT / NO REAR STEER OPTION



# NO FRAME TILT / NO REAR STEER OPTION

| REF NO. | PART NUMBER | QTY | DESCRIPTION                   | REMARKS        |
|---------|-------------|-----|-------------------------------|----------------|
| 1.      | 106-988     | 1   | FLG LK SCREW (M6-1.00 X 20mm) |                |
| 2.      | 110-333     | 1   | BOLT-ON CLAMP (1")            |                |
| 3.      | 154-464     | 1   | CONNECTOR (100-100)           |                |
| 4.      | 315-176     | 1   | SPACER BRACKET                | SEE FOOTNOTE 1 |
| 5.      | 106-385     | 1   | FLG LOCKNUT (M6-1.00)         |                |
| 6.      | 154-939     | 1   | HOSE (100FX90S-50"-3000)      |                |
| 7.      | 306-885     | -   | MOUNT PLATE                   |                |
| 8.      | 157-343     | -   | HOSE (100FX90S-120"-3000)     |                |
| 9.      | 149-851     | -   | HYD LINE (-10)                |                |

### FOOTNOTES

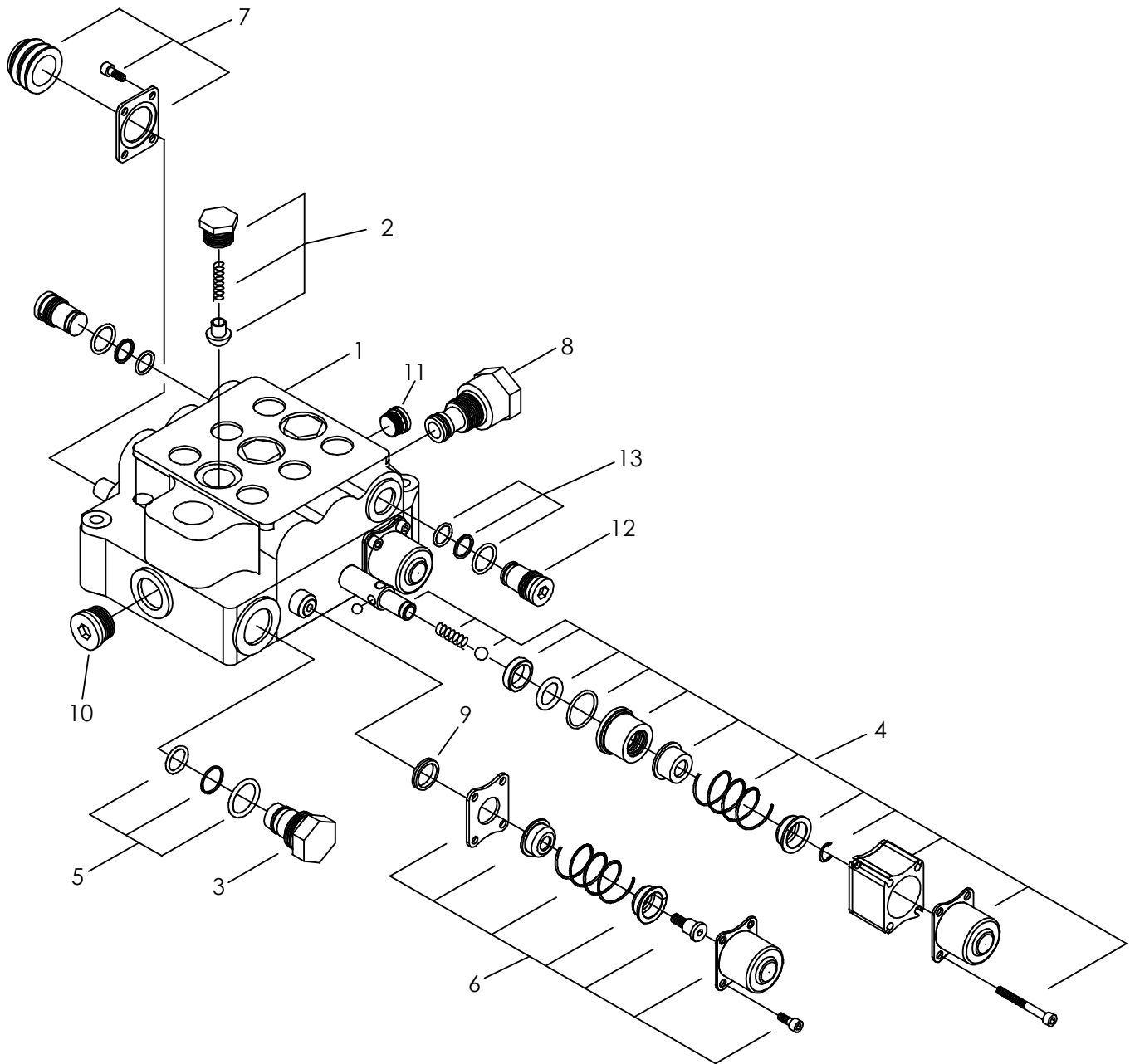
1. REFERENCE #4 (315-176) WILL REPLACE (1X) REFERENCE #2 ON PARTS PAGE "MOTOR SHIFT/DIFF LOCK HYD" WHEN "NO FRAME TILT/NO REAR STEER" IS USED.

### NOTE

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

# HYDRAULIC CONTROL VALVE

## 3 SPOOL UPPER VALVE



## HYDRAULIC CONTROL VALVE 3 SPOOL UPPER VALVE

| REF NO. | PART NUMBER | QTY | DESCRIPTION                 | REMARKS                                      |
|---------|-------------|-----|-----------------------------|--|
| 1.      | 158-033     | 1   | HYD CONTROL VALVE (3-SPOOL) | ENDS WITH S/N_____. OBSOLETE                 |
|         | 159-809     | 1   | HYD CONTROL VALVE (3-SPOOL) | BEGINS WITH S/N_____. USE FLOAT KIT 500-2020 |
| 2.      | 500-933     | 3   | LOAD CHECK PLUG KIT         |  |
| 3.      | 599-278     | 1   | NR PLUG KIT                 |  |
| 4.      | 500-935     | 1   | FLOAT POSITIONER KIT        |  |
| 5.      | 191-149     | 1   | PLUG SEAL KIT               |  |
| 6.      | 500-934     | 2   | SPOOL POSITIONER KIT        |  |
| 7.      | 191-153     | 3   | SPOOL BOOT KIT              |  |
| 8.      | 191-157     | 1   | POWER BEYOND SLEEVE         |  |
| 9.      | 191-151     | 6   | SPOOL LIP SEAL KIT          |  |
| 10.     | 155-179     | 1   | PLUG (10S, SOC)             |  |
| 11.     | 154-384     | 1   | PLUG (06S)                  |  |
| 12.     | 599-279     | 2   | WORK PORT NR PLUG KIT       |  |
| 13.     | 500-928     | 2   | SEAL REPAIR KIT             |  |

NOT SHOWN:

FOOTNOTES:

1. EARLY PRODUCTION VALVES HAVE A MACHINED WORK PORT WITH A PLUG INSTALLED, FUTURE PRODUCTION VALVES WILL NOT HAVE A MACHINED WORK PORT.

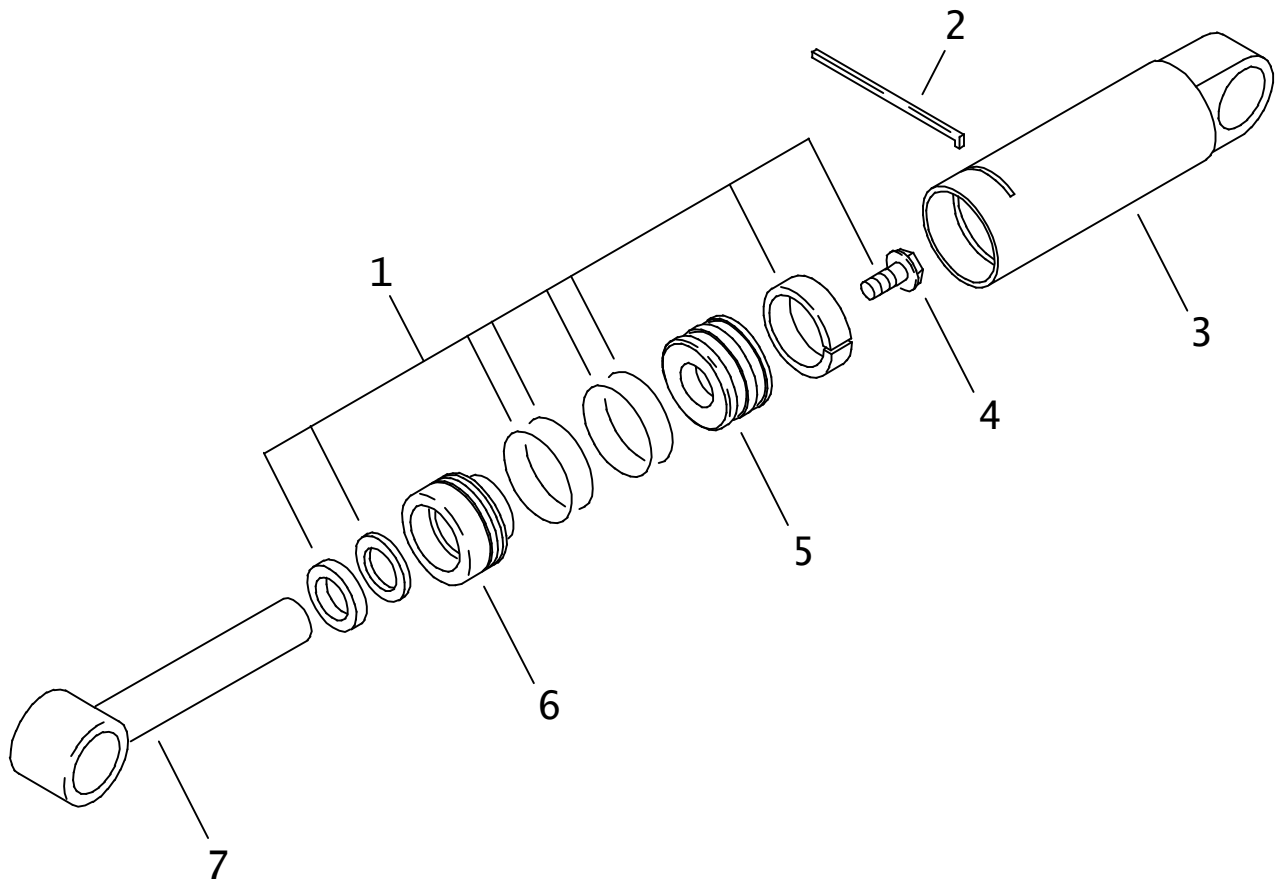
NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.



# HYDRAULIC CYLINDER

2.0" X 1.00" X 3.38"



# HYDRAULIC CYLINDER

## 2.0" X 1.00" X 3.38"

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                    |
|---------|-------------|-----|--------------------------------|----------------------------|
|         | 151-202     |     | HYD CYL (2" X 1" X 3.38")      | INCLUDES REF NO'S 1 THRU 7 |
| 1.      | 190-165     | 1   | SEAL REPAIR KIT (2" X 1")      |                            |
| 2.      | 150-778     | 1   | LOCK RING (2")                 |                            |
| 3.      | 150-700     | 1   | CYLINDER BARREL                |                            |
| 4.      | 106-096     | 1   | FLG BOLT (1/2-NC X 1-3/4",GD8) | SEE FOOTNOTE 1             |
| 5.      | 150-775     | 1   | CYLINDER PISTON (2" X 1")      |                            |
| 6.      | 150-772     | 1   | CYLINDER HEAD (2" X 1")        |                            |
| 7.      | 150-698     | 1   | CYLINDER ROD                   |                            |

### NOT SHOWN:

|         |                              |
|---------|------------------------------|
| 259-100 | U-SEAL INSTALLER (1"-1.499") |
| 259-188 | CYL HEAD SPANNER - TWO PIN   |
| 259-239 | WIPER SEAL INSTALLER (2")    |
| 259-241 | PISTON INSTALLER (2")        |

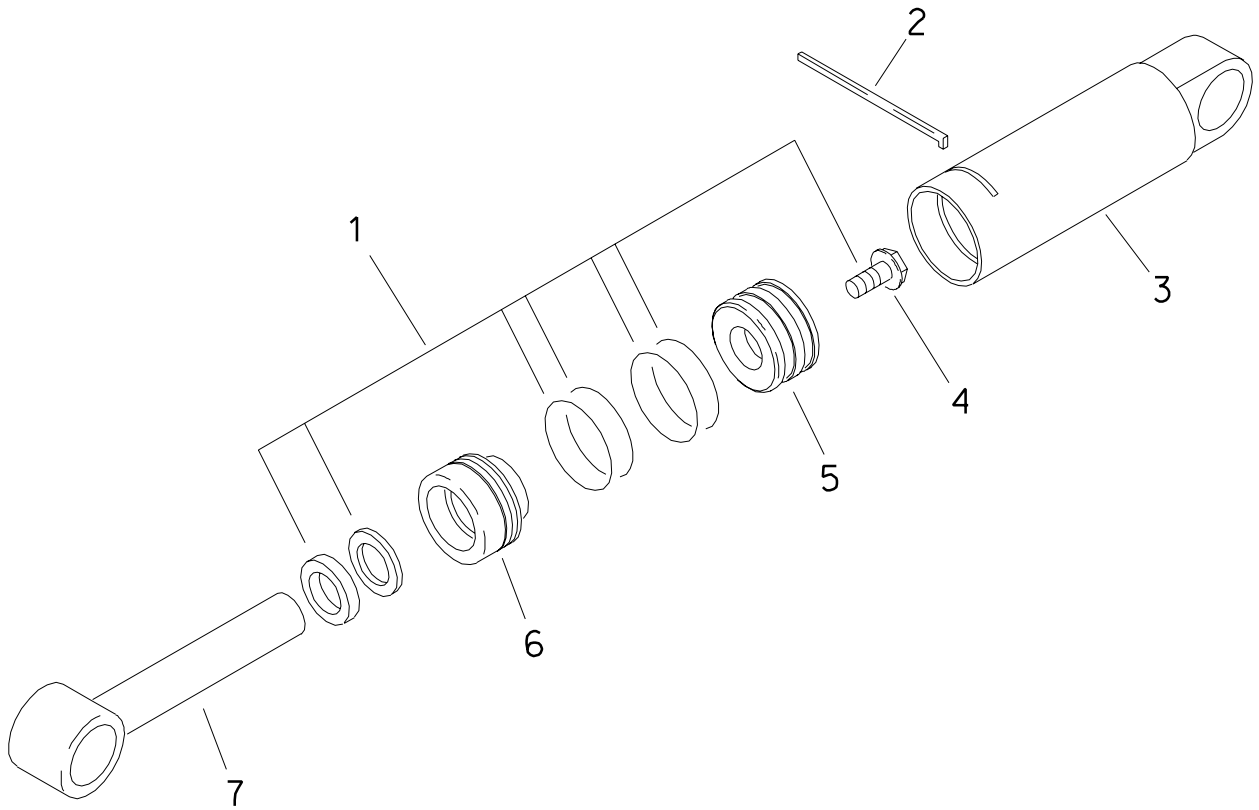
### FOOTNOTES

1. APPLY LOCTITE 271 OR 277. TORQUE TO 90-100 FT-LBS (120-135 N.M.)

### NOTE:

# HYDRAULIC CYLINDER

2" X 1.25" X 8"



# HYDRAULIC CYLINDER

2" X 1.25" X 8"

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                 |
|---------|-------------|-----|--------------------------------|-------------------------|
|         | 151-057     |     | HYD CYLINDER (2" X 1.25" X 8") | INCL REF NO.'S 1 THRU 7 |
| 1.      | 190-169     | 1   | SEAL REPAIR KIT (2.0" X 1.25") |                         |
| 2.      | 150-778     | 1   | LOCK RING (2.0")               |                         |
| 3.      | 150-285     | 1   | CYLINDER BARREL (2")           |                         |
| 4.      | 106-097     | 1   | FLG BOLT (5/8-NC X 1-3/4",GD8) | SEE FOOTNOTE 1          |
| 5.      | 150-771     | 1   | CYLINDER PISTON (2" X 1.25")   | SEE FOOTNOTE 2          |
| 6.      | 150-770     | 1   | CYLINDER HEAD (2" X 1.25")     |                         |
| 7.      | 150-427     | 1   | CYLINDER ROD                   |                         |

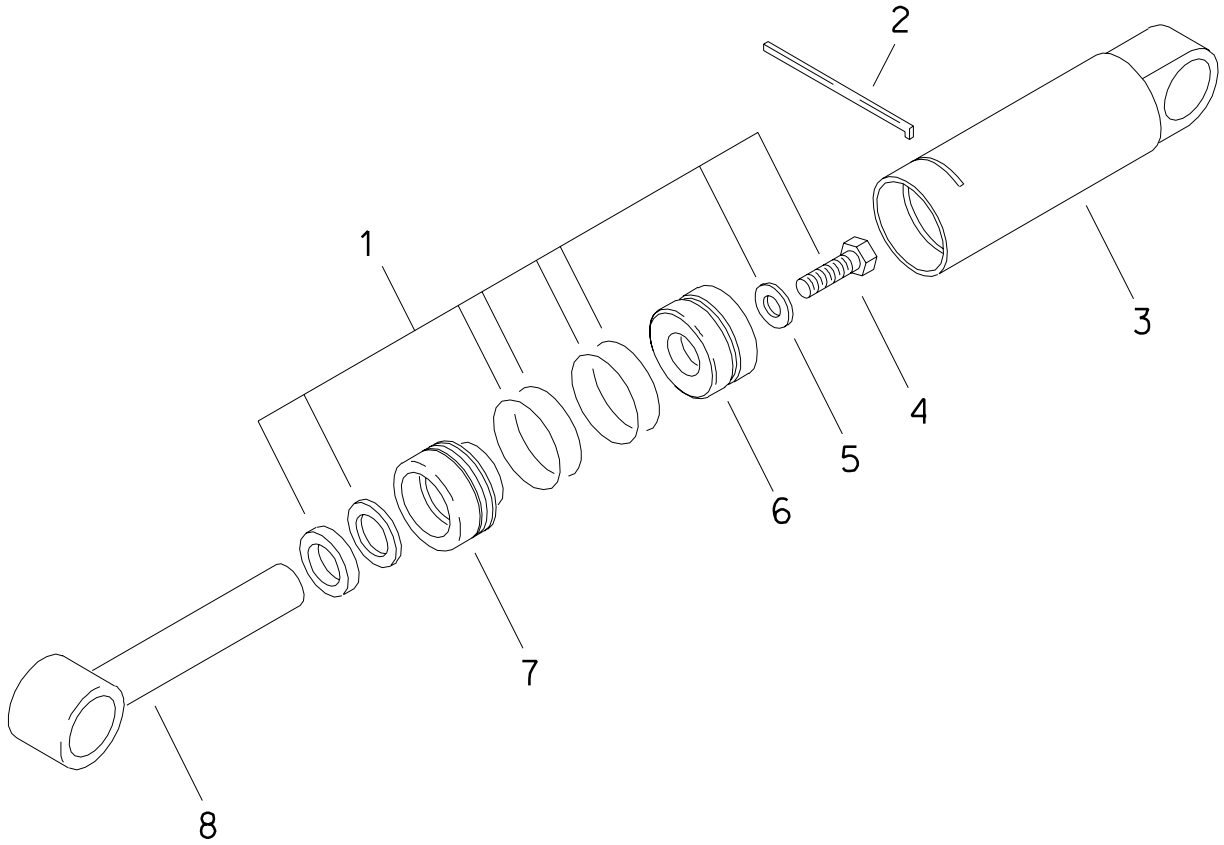
NOT SHOWN:

|         |                                 |
|---------|---------------------------------|
| 259-100 | U-SEAL INSTALLER (1"-1.499")    |
| 259-236 | WIPER INSTALLER (1.25")         |
| 259-239 | WIPER/SEAL INSTALLER (2")       |
| 259-241 | PISTON INSTALLER (2")           |
| 259-188 | CYLINDER HEAD SPANNER - TWO PIN |

- FOOTNOTES
1. USE LOCTITE 277, AND TORQUE TO 180-200 FT-LBS (245-270 N.M)
  2. INCLUDES MOLDED-ON WEAR RING, H.P. SEAL, AND O-RING.

# HYDRAULIC CYLINDER

3" X 1.75" X 8"



# HYDRAULIC CYLINDER

3" X 1.75" X 8"

| REF NO. | PART NUMBER | QTY | DESCRIPTION                    | REMARKS                  |
|---------|-------------|-----|--------------------------------|--------------------------|
|         | 151-070     |     | CYL (3.0" X 1.75" X 8.0")      | INCL REF NO.'S 1 THRU 7  |
| 1.      | 190-172     | 1   | SEAL REPAIR KIT (3.0" X 1.75") | INCL REF NO.'S 4 THRU 5  |
| 2.      | 150-911     | 1   | LOCK RING (3")                 |                          |
| 3.      | 152-014     | 1   | CYLINDER BARREL (3")           |                          |
| 4.      | 106-122     | 1   | BOLT (7/8-NC X 2-1/4", GD8)    | SEE FOOTNOTE 1           |
| 5.      | 105-363     | 1   | WASHER (7/8")                  |                          |
| 6.      | 150-765     | 1   | CYLINDER PISTON (3" X 1.75")   | INCL MOLDED-ON WEAR RING |
| 7.      | 150-763     | 1   | CYLINDER HEAD (3" X 1.75")     |                          |
| 8.      | 150-436     | 1   | CYLINDER ROD (1.75")           |                          |

NOT SHOWN:

- 259-040 U-SEAL INSTALLER (1.5" - UP)
- 259-238 WIPER INSTALLER (1.75")
- 259-065 PISTON SEAL INSTALLER (3")
- 259-066 PISTON INSTALLER (3")
- 259-188 CYL HEAD SPANNER - TWO PIN

FOOTNOTES

1. CLEAN & DRY THREADS. APPLY RED LOCTITE (RC 271 OR RC 272). TORQUE TO 410-460 FT-LBS (560-625 N.M.)



# **ELECTRICAL**

**SEE TECHNICAL SUPPLEMENT FOR FURTHER  
ELECTRICAL INFORMATION**





# MISCELLANEOUS

# SAE Bolt and Nut Torque Value Chart

## Grade 5: UNC or UNF Thread

| Size  | Hex nut, or bolt tapped into hex nut, or d&t hole |      | Hex top deformed locknut |      | Flange nut, locknut, or bolt tapped into flange nut or d&t* hole |      |
|-------|---|------|--------------------------|------|--|------|
|       | ft•lb   | N•m  | ft•lb                    | N•m  | ft•lb  | N•m  |
| 1/4   | 12  | 16   | 8                        | 11   | 20   | 27   |
| 5/16  | 25  | 34   | 15                       | 20   | 45   | 60   |
| 3/8   | 40  | 54   | 25                       | 34   | 75   | 100  |
| 7/16  | 65  | 90   | 40                       | 55   | 125  | 170  |
| 1/2   | 100   | 135  | 60                       | 80   | 190  | 260  |
| 9/16  | 150   | 200  | 90                       | 125  | 270  | 370  |
| 5/8   | 200   | 270  | 120                      | 165  | 370  | 500  |
| 3/4   | 350   | 475  | 210                      | 285  | 650  | 880  |
| 7/8   | 560   | 760  | 340                      | 460  | 1250   | 1425 |
| 1     | 840   | 1140 | 500                      | 680  | 1580   | 2145 |
| 1-1/8 | 1030  | 1400 | 320                      | 840  | 1950   | 3645 |
| 1-1/4 | 1460  | 1980 | 880                      | 1195 | 2760   | 3475 |

## Grade 8: UNC or UNF Thread

| Size  | Hex nut, or bolt tapped into hex nut, or d&t hole |      | Hex top deformed locknut |      | Flange nut, locknut, or bolt tapped into flange nut or d&t* hole |      |
|-------|---|------|--------------------------|------|--|------|
|       | ft•lb   | N•m  | ft•lb                    | N•m  | ft•lb  | N•m  |
| 1/4   | 14  | 19   | 10                       | 14   | 24   | 33   |
| 5/16  | 30  | 40   | 18                       | 25   | 50   | 70   |
| 3/8   | 55  | 73   | 35                       | 50   | 90   | 125  |
| 7/16  | 85  | 115  | 50                       | 70   | 140  | 190  |
| 1/2   | 130   | 175  | 80                       | 110  | 220  | 300  |
| 9/16  | 190   | 260  | 110                      | 150  | 310  | 420  |
| 5/8   | 260   | 355  | 160                      | 245  | 430  | 585  |
| 3/4   | 450   | 610  | 270                      | 365  | 750  | 1015 |
| 7/8   | 730   | 990  | 440                      | 600  | 1210   | 1640 |
| 1     | 1090  | 1480 | 650                      | 880  | 1320   | 2465 |
| 1-1/8 | 1550  | 2100 | 930                      | 1260 | 2580   | 3500 |
| 1-1/4 | 2180  | 2955 | 1310                     | 1780 | 3640   | 4935 |

\*drilled and tapped

# Metric Bolt and Cap Screw Torque Values

| Size | Class 4.8  |       |      |       | Class 8.8 and 9.8 |       |      |       | Class 10.9 |       |      |       | Class 12.9 |       |      |       |
|------|------------|-------|------|-------|-------------------|-------|------|-------|------------|-------|------|-------|------------|-------|------|-------|
|      | Lubricated |       | Dry  |       | Lubricated        |       | Dry  |       | Lubricated |       | Dry  |       | Lubricated |       | Dry  |       |
|      | N•m        | ft•lb | N•m  | ft•lb | N•m               | ft•lb | N•m  | ft•lb | N•m        | ft•lb | N•m  | ft•lb | N•m        | ft•lb | N•m  | ft•lb |
| M6   | 4.8        | 3.5   | 6    | 4.5   | 9                 | 6.5   | 11   | 8.5   | 13         | 9.5   | 17   | 12    | 15         | 11.5  | 19   | 14.5  |
| M8   | 12         | 8.5   | 15   | 11    | 22                | 16    | 28   | 20    | 32         | 24    | 40   | 30    | 37         | 28    | 47   | 35    |
| M10  | 23         | 17    | 29   | 21    | 43                | 32    | 55   | 40    | 63         | 47    | 80   | 60    | 75         | 55    | 95   | 70    |
| M12  | 40         | 29    | 50   | 37    | 75                | 55    | 95   | 70    | 110        | 80    | 140  | 105   | 130        | 95    | 165  | 120   |
| M14  | 63         | 47    | 80   | 60    | 120               | 88    | 150  | 110   | 175        | 130   | 225  | 165   | 205        | 150   | 260  | 190   |
| M16  | 100        | 73    | 125  | 92    | 190               | 140   | 240  | 175   | 275        | 200   | 350  | 225   | 320        | 240   | 400  | 300   |
| M18  | 135        | 100   | 175  | 125   | 260               | 195   | 330  | 250   | 375        | 275   | 475  | 350   | 440        | 325   | 560  | 410   |
| M20  | 190        | 140   | 240  | 180   | 375               | 275   | 475  | 350   | 530        | 400   | 675  | 500   | 625        | 460   | 800  | 580   |
| M22  | 260        | 190   | 330  | 250   | 510               | 375   | 650  | 475   | 725        | 540   | 925  | 675   | 850        | 625   | 1075 | 800   |
| M24  | 330        | 250   | 425  | 310   | 650               | 475   | 825  | 600   | 925        | 675   | 1150 | 850   | 1075       | 800   | 1350 | 1000  |
| M27  | 490        | 360   | 625  | 450   | 950               | 700   | 1200 | 875   | 1350       | 1000  | 1700 | 1250  | 1600       | 1150  | 2000 | 1500  |
| M30  | 675        | 490   | 850  | 625   | 1600              | 950   | 1650 | 1200  | 1850       | 1350  | 2300 | 1700  | 2150       | 1600  | 2700 | 2000  |
| M33  | 900        | 675   | 1150 | 850   | 1750              | 1300  | 2200 | 1650  | 2500       | 1850  | 3150 | 2350  | 2900       | 2150  | 3700 | 2750  |
| M36  | 1150       | 850   | 1450 | 1075  | 2250              | 1650  | 2850 | 2100  | 3200       | 2350  | 4050 | 3000  | 3750       | 2750  | 4750 | 3500  |

Do not use these values if a different torque value or tightening procedure is given for specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class fasteners.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to strength of original.

Make sure fastener threads are clean and that the threads are properly started. This will prevent them from cross threading or galling when tightened.

Tighten plastic insert or crimped type steel locknuts to approximately 50% of dry torque indicated on chart. Apply torque to the nut - not the bolt head. Tighten toothed or serrated type locknuts to full torque value.

LUBRICATED means coated with lubricant. DRY means plain or zinc plated without any type of lubricant.

## Hydraulic Cylinder Bolt Torque Chart

| Bolt Size (inch) | Bolt Part No. | Cylinder Repair Kit Part No. | Torque (ft•lb) | Torque (N•m) |
|------------------|---------------|------------------------------|----------------|--------------|
| 1/2              | 106-096       | 190-165                      | 90-100         | 120-135      |
| 5/8              | 106-097       | 190-166 & 190-169            | 180-200        | 245-270      |
| 3/4              | 106-098       | 190-167 & 190-170            | 290-325        | 395-440      |
| 7/8              | 106-122       | 190-172 & 190-174            | 410-640        | 550-625      |
| 1                | 106-145       | 190-175 & 190-189            | 630-700        | 855-950      |
| 1-1/8            | 106-146       | 190-177                      | 770-850        | 1045-1170    |

As a general rule:

- 1/2-inch bolts are used in cylinders with 1-inch rods
- 5/8-inch bolts are used in cylinders with 1 1/4-inch rods
- 3/4-inch bolts are used in cylinders with 1 1/2-inch rods
- 7/8-inch bolts are used in cylinders with 1 3/4-inch rods
- 1-inch bolts are used in cylinders with 2-inch rods (one with 1 3/4-inch)
- 1-1/8-inch bolts are used in cylinders with 2-1/4-inch rods

**IMPORTANT:** Do not reuse cylinder piston bolts when rebuilding a hydraulic cylinder. Each cylinder repair kit contains a new bolt. Use it. Lubricate lightly and torque to value shown on chart.

# SAE & ORS Hydraulic Fitting Replacement O-Ring Chart

| Fraction Size | Dash Size | SAE (Port Seal O-Ring) |            | ORS (Face Seal O-Ring) |            |
|---------------|-----------|------------------------|------------|------------------------|------------|
|               |           | Thread Size            | O-Ring P/N | Thread Size            | O-Ring P/N |
| 1/16          | 1         | NA                     | NA         | NA                     | NA         |
| 1/8           | 2         | 5/16 - 24              | NA         | NA                     | NA         |
| 3/16          | 3         | 3/8 - 24               | NA         | NA                     | NA         |
| 1/4           | 4         | 7/16 - 20              | 155-760    | 9/16 - 18              | 157-037    |
| 5/16          | 5         | 1/2 - 20               | NA         | NA                     | NA         |
| 3/8           | 6         | 9/16 - 18              | 155-705    | 11/16 - 16             | 157-038    |
| 1/2           | 8         | 3/4 - 16               | 155-706    | 13/16 - 16             | 157-039    |
| 5/8           | 10        | 7/8 - 14               | 155-707    | 1 - 14                 | 157-040    |
| 3/4           | 12        | 1-1/16 - 12            | 155-709    | 1-3/16 - 12            | 157-017    |
| 7/8           | 14        | 1-3/16 - 12            | 155-747    | NA                     | NA         |
| 1             | 16        | 1-5/16 - 12            | 155-748    | 1-7/16 - 12            | 155-714    |
| 1-1/4         | 20        | 1-5/8 - 12             | 155-702    | 1-11/16 - 12           | NA         |
| 1-1/2         | 24        | 1-7/8 - 12             | 157-001    | 2 - 12                 | NA         |
| 2             | 32        | 2-1/2 - 12             | NA         | NA                     | NA         |
| 2-1/2         | 40        | 3 - 12                 | NA         | NA                     | NA         |
| 3             | 48        | 3-1/2 - 12             | NA         | NA                     | NA         |

Thread size indicates the diameter of the threaded area in fractions of an inch and number of threads per inch.

NA = not a current CMW part numbered o-ring, or dash size does not occur in current CMW applications

SAE = straight thread fitting that seals by sandwiching a hard o-ring between a shoulder on the male part and an angular surface at the mouth of the female port.

ORS = o-ring face seal; a type of fitting that seals by compressing a hard, captive o-ring between two flat parallel faces, one grooved for the o-ring and the other plain to act as the sealing surface

# RT75H

## Related Publications

|                           | <b>Component</b>                                    | <b>Ass'y</b> | <b>P/N</b> |
|---------------------------|---|--------------|------------|
| <b><u>Model:</u></b>      |   |              |            |
|                           | RT75 ..... Parts Manual .....                       |              | 053-121    |
|                           | RT75 ..... Operators Manual .....                   |              | 054-125    |
|                           | RT75 ..... Repair Guide (Service Manual) .....      |              | N/A        |
|                           | RT75 ..... Technical Supplement .....               |              | 053-127    |
|                           | RT75 ..... Special Tools Guide .....                |              | 052-901    |
| <br><b><u>Engine:</u></b> |   |              |            |
|                           | John Deere ..... Operators Manual – 4045DF270 ..... | 194-512 .... | 054-087    |

## Filters

|                              |  |  |         |
|------------------------------|--|--|---------|
| <b><u>Engine:</u></b>        |  |  |         |
|                              | Air Filter Parts Ass'y .....                               |  | 197-762 |
|                              | Element (primary) .....                                    |  | 197-763 |
|                              | Element (secondary) .....                                  |  | 197-764 |
|                              | Oil Filter Element (spin-on) - John Deere .....            |  | 194-478 |
|                              | Fuel Strainer (04H).....                                   |  | 156-268 |
|                              | Primary Filter Sediment Bowl .....                         |  | 194-493 |
|                              | Fuel Filter Element-John Deere (Primary) .....             |  | 194-    |
| 588                          | Fuel Filter Element-John Deere (Secondary) .....           |  | 159-255 |
| <br><b><u>Hydraulic:</u></b> |  |  |         |
|                              | Oil Filter Element (1-1/2-UNF, spin-on, Replacement) ..... |  | 153-792 |
|                              | Element (1-1/2-UNF, spin-on, Break-In) .....               |  | 153-791 |

## Optional Kits

|   |         |
|---|---------|
| O-ring Repair Kit - FLG, ORS & SAE (15 different O-rings) ..... | 190-051 |
| O-ring Repair Kit - Field Service (46 different O-rings) .....  | 190-052 |



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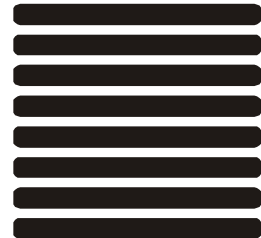
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