



# BROUWER

## *RoboMax*

### ILLUSTRATED PARTS LIST

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#### MODEL:

4132506 ROBOMAX SOD HARVESTER, NEW HOLLAND



*WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.*

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November 2007

**BROUWER**  
EQUIPMENT BUILT FROM EXPERIENCE

4137300 REV C





## STATEMENT OF LIMITED WARRANTY

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**Kesmac and Brouwer Turf** warrants its full line of equipment to be free from defects in material and factory workmanship for a period of 12 months. This warranty begins on the date of sale or use of the equipment to the original purchaser. This statement does not extend or limit engine, tractor or component warranties in which the engine, tractor or component manufacturers may carry extended time periods up to 24 months. Engine, tractor or component warranty claims will be subject to the engine, tractor or components manufacturer's approval.

**Replacement Parts** carry a 90 day replacement warranty and are reimbursed to the dealer. All electrical and hydraulic parts are limited by this policy and will only be covered upon approval by the service department after inspection of the part. The installation and removal of a part will automatically place that part under the replacement parts warranty.

This warranty is limited exclusively to equipment or accessories manufactured or supplied by **Kesmac and Brouwer Turf** and are subject to the inspection and analysis by the company to conclusively identify the nature and cause of failure.

**PRODUCT REGISTRATION FORM** must be completely filled out, signed by the customer at the original date of installation, and returned to **Kesmac and Brouwer Turf** before any claims will be considered.

**Kesmac and Brouwer Turf** reserves the right to incorporate improvements in material and design of its products without notice and is not obligated to make the same improvements to equipment previously manufactured.

**Kesmac and Brouwer Turf** is not obliged under any warranty policy different from the Kesmac Brouwer Turf warranty policy as published above.

### KESMAC AND BROUWER TURF RESPONSIBILITIES

**Kesmac and Brouwer Turf**'s obligation under the terms of this warranty is limited to the repair, replacement or credit, at its option, of the equipment, parts or supply items that conform to its warranty.

**Kesmac and Brouwer Turf** will pay for the parts and the cost of surface transportation for the parts that conform to this warranty.

### DEALER'S RESPONSIBILITIES

1. Only factory-trained service or approved personnel will be permitted to perform warranty service on **Kesmac and Brouwer Turf** equipment.
2. All major warranty claims exceeding \$650.00 (in total including parts and labour) must be authorized by **Kesmac and Brouwer Turf** before work is performed.
3. All replacement parts used in warranty situations must be furnished by **Kesmac and Brouwer Turf** or approved by **Kesmac and Brouwer Turf** personnel. The use of non-recommended oil could nullify warranty.

### OWNERS RESPONSIBILITIES

The owner is obligated to operate and maintain the equipment in accordance with the recommendations published by **Kesmac and Brouwer Turf** in the owners/operators manual for the unit. The owner is responsible for the costs associated with such maintenance and operating adjustments that may be required on a regularly scheduled basis. Where applicable the owner is responsible for transportation to and from the dealership or service calls made by the dealer.

### CONDITIONS THAT VOID WARRANTY

This warranty shall not apply to equipment which:

- 1. Has had repairs or modifications not authorized by **Kesmac and Brouwer Turf**.
- 2. Has been subject to abuse, improper maintenance, or improper application.
- 3. Has been modified from original equipment specifications.

### WARRANTY EXCEPTIONS

This warranty does not apply to the following items:

- 1. Wear items including blades, cutting edges, spark plugs, belts, filters, bearings, sprockets, chains, tires, light bulbs, lubricants and fluids etc. Cost of normal maintenance including replacement of service items.
- 2. Damages to engine/drive systems caused by lack of/ or improper lubricants and/ or fluids.
- 3. Damages arising from accident, misuse or neglect.
- 4. Damages to engine/drive systems caused by improper operation and/ or maintenance.
- 5. **Kesmac and Brouwer Turf** will not be liable for any incidental or consequential damage or injuries, including but not limited to loss of profits, loss of crops, rental of substitute equipment, or other commercial loss or for damage to the equipment in which the Company Product is installed.

### FREIGHT CARRIER DAMAGE

Claims for equipment damaged in transit should be referred to the freight carrier. Visible damage should be reported immediately and concealed damage as soon as possible, in accordance with freight carrier regulations.





**CALIFORNIA  
Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



**WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Californie Proposition 65  
Avertissement**

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.



**AVERTISSEMENT**

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**California Advertencia  
de la Proposicion 65**

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.



**ADVERTENCIA**

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

**CALIFORNIA  
Proposition 65 Warning**

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.  
**WASH HANDS AFTER HANDLING.**



# BROUWER

289 N. Kurzen Rd., P.O. Box 504, Dalton, OH 44618  
Tel. (330) 828-0200 Fax. (330) 828-1008

Date of Purchase: Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

Dealer Name \_\_\_\_\_ Phone \_\_\_\_\_

Serial Number \_\_\_\_\_

Model Number \_\_\_\_\_

*ALWAYS GIVE THE SERIAL NUMBER, MODEL NUMBER AND PART COLOR WHEN  
ORDERING SERVICE PARTS.*



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## IMPORTANT

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Your new **Robomax Turf Harvester** has been designed and built to give many years of outstanding performance. The service and reliability you receive from this product will be affected by the proper maintenance and operation of the machine.

It is important the operator of the machine follows all recommended operating procedures and service schedules, to ensure the safety of the machine, themselves and any bystanders.

It is not possible to list all situations that may effect the safety of the machine or that of the operators, therefore Brouwer Turf cannot identify all precautions that may possibly prevent accidents.

The owner/operator must assume responsibility for their own safety, the safety of others and of the machine.

### BE A QUALIFIED OPERATOR BY ;

Reading and obeying the instructions in this manual and on the safety decals on the machine.

Receiving training on the correct operation of the machine.

Asking your supervisor or equipment dealer to explain anything you do not understand.

Explaining the instructions in the operator's manual and safety decals to user/operators who cannot read or understand them.

### IF YOU DO NOT UNDERSTAND....ASK

Use only genuine Brouwer replacement parts. Parts not supplied by Brouwer may not meet factory specifications or standards of manufacture. The use of non-approved parts may result in component failure and result in an accident to the operator or bystanders.

The Brouwer **Robomax Turf Harvesters** must not be used for any purpose other than that for which they are designed.

Prior to shipping from the manufacturer the machines are inspected to insure that all safety guards, shields and warning/safety/operating decals are correctly positioned and secure.

The machine must not be used if any of the above items are missing or damaged.

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**RoboMax**

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## WARNING

Unauthorized modifications may result in extreme safety hazards to operators and bystanders, and could result in damage to the machine.

Brouwer Turf warns against and strongly rejects and disclaims against any modifications, add-on accessories or product modifications that are not designed, developed, tested, and approved by Brouwer Engineering Department.

Any Brouwer product that is altered or modified in anyway that is not authorized after original manufacture, including after market accessories or component parts that are not approved by Brouwer, will result in the machine warranty be voided.

All liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Brouwer will be considered the responsibility of the individual(s) or company designing and/or making such changes.

Brouwer Turf will vigorously pursue full indemnification and costs from any party responsible for unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.

## CAUTION

To protect both of the Electronic Controllers from potential damage :

**Do not do any welding on the machine until :**

- Both battery cables are disconnected.
- The Plus 1 Micro-controllers are disconnected.

D001-183

**BROUWER**  
EQUIPMENT BUILT FROM EXPERIENCE

BROUWER TURF LTD.  
KESWICK, ONT. CANADA  
PHONE: (905) 476-6222  
FAX: (905) 476-6744

SERIAL NO. \_\_\_\_\_

WEIGHT \_\_\_\_\_ kg.

\_\_\_\_\_ lbs.



This symbol means:  
**ATTENTION!**  
**BECOME ALERT!**

Your safety and the safety of others is involved.

## Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Brouwer machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

## DANGER

**DANGER** indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

## WARNING

**WARNING** indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

## CAUTION

**CAUTION** indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

## CAUTION

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage.

## MODEL NUMBER:

This number appears on sales literature, technical manuals and price lists.

## SERIAL NUMBER:

This number applies only to the machine to which it is allocated.

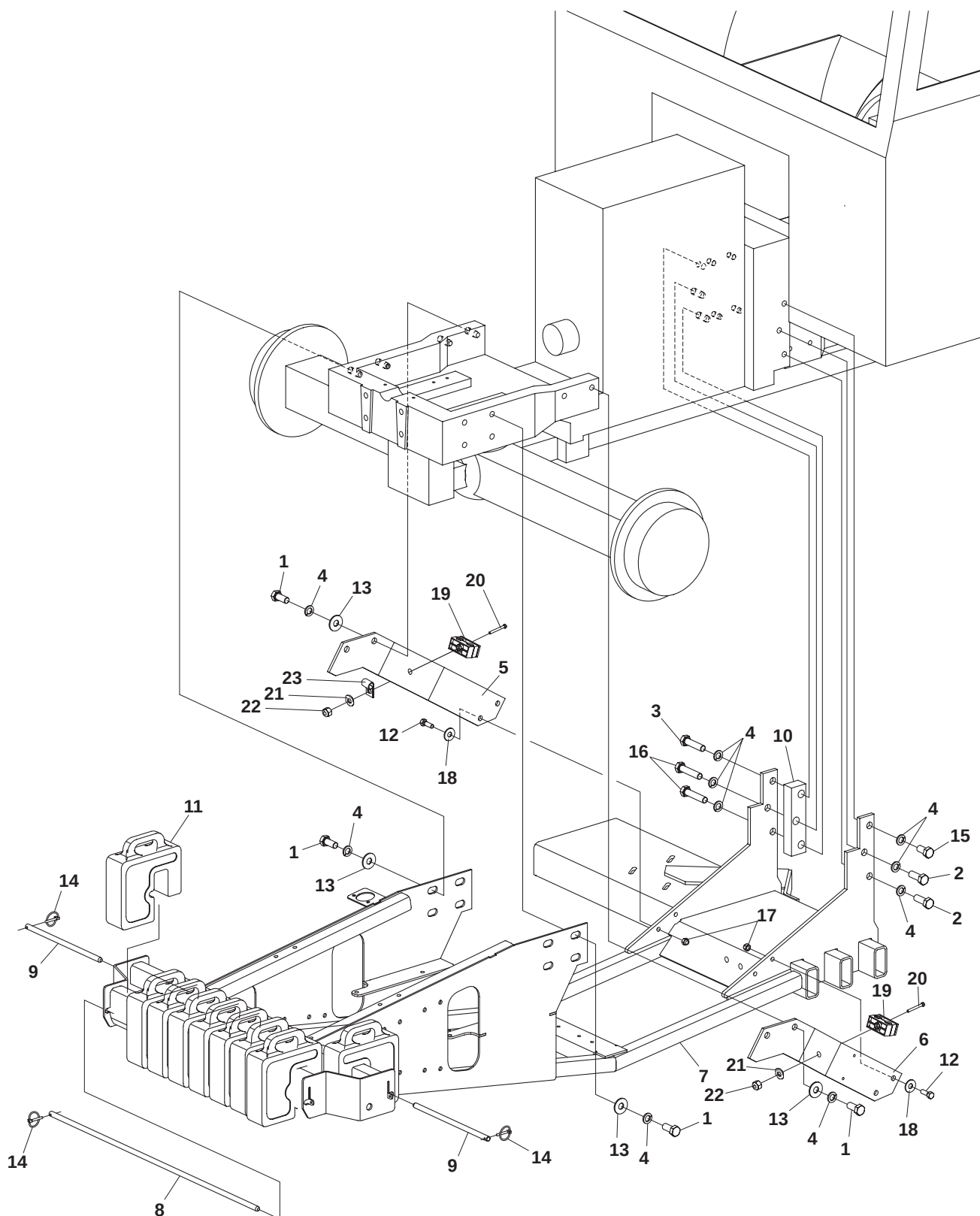
The serial number must be quoted when ordering parts or calling for service or warranty advice.

The serial number plate is located on the Lower Right Hand Door Frame.



# PARTS SECTION

FIGURE 1



**FIGURE 1**

| ITM | PART NO.  | DESCRIPTION             | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|-------------------------|-----|-----|----------|-------------|-----|
| 1   | G0420045  | BOLT-MET M20-2.5X45     | 12  |     |          |             |     |
| 2   | G0420055  | BOLT-MET M20-2.5X55     | 2   |     |          |             |     |
| 3   | G0420080  | BOLT-MET M20-2.5X80     | 1   |     |          |             |     |
| 4   | G312000   | LOCKWASHER, 20MM ZP     | 18  |     |          |             |     |
| 5   | 4136308.7 | PLATE-FORMED-RH         | 1   |     |          |             |     |
| 6   | 4136309.7 | PLATE-FORMED-LH         | 1   |     |          |             |     |
| 7   | 4160306   | MAIN FRAME. UP TO #137A | 1   |     |          |             |     |
|     | 4160569   | MAIN FRAME. FROM #137B  | 1   |     |          |             |     |
| 8   | 4132393   | ROD-WEIGHT STOP LONG    | 1   |     |          |             |     |
| 9   | 4132394   | ROD-WEIGHT STOP SHORT   | 2   |     |          |             |     |
| 10  | 4135065.7 | SPACER-FLAT BAR         | 1   |     |          |             |     |
| 11  | 62-540    | 50# BALLAST WEIGHT      | A/R |     |          |             |     |
| 12  | F040816   | BOLT, 1/2 UNC X 1-3/4   | 4   |     |          |             |     |
| 13  | G3211000  | WASHER                  | 12  |     |          |             |     |
| 14  | KX30020   | QUICK PIN 1/4X1-3/4     | 3   |     |          |             |     |
| 15  | G0420040  | BOLT-MET M20-2.5X40     | 1   |     |          |             |     |
| 16  | G0420090  | BOLT-MET M20-2.5X90     | 2   |     |          |             |     |
| 17  | F210808   | LOCKNUT, 1/2-13 NYLON   | 4   |     |          |             |     |
| 18  | F330808   | FLAT WASHER, 1/2 SAE ZP | 4   |     |          |             |     |
| 19  | 4135022   | CLAMP-3/4 OD HOSE       | 2   |     |          |             |     |
| 20  | F040526   | BLT-HEX 5/16-18X2-3/4   | 2   |     |          |             |     |
| 21  | F330508   | WASHER .328X.75X14      | 2   |     |          |             |     |
| 22  | F210508   | LOCKNUT-NYLON 5/16-18   | 2   |     |          |             |     |
| 23  | 11-057    | CLAMP-1-1/4             | 1   |     |          |             |     |

FIGURE 2

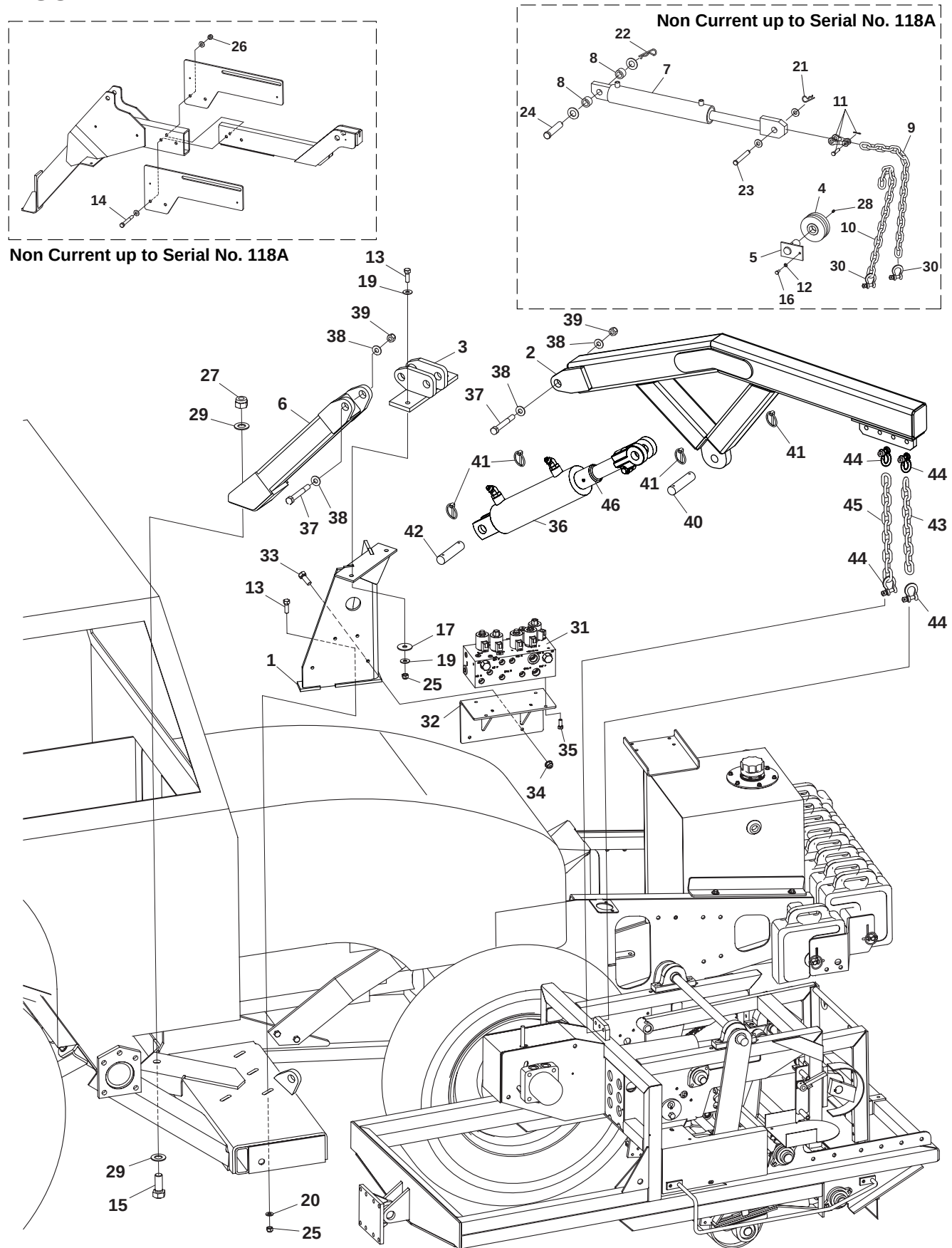


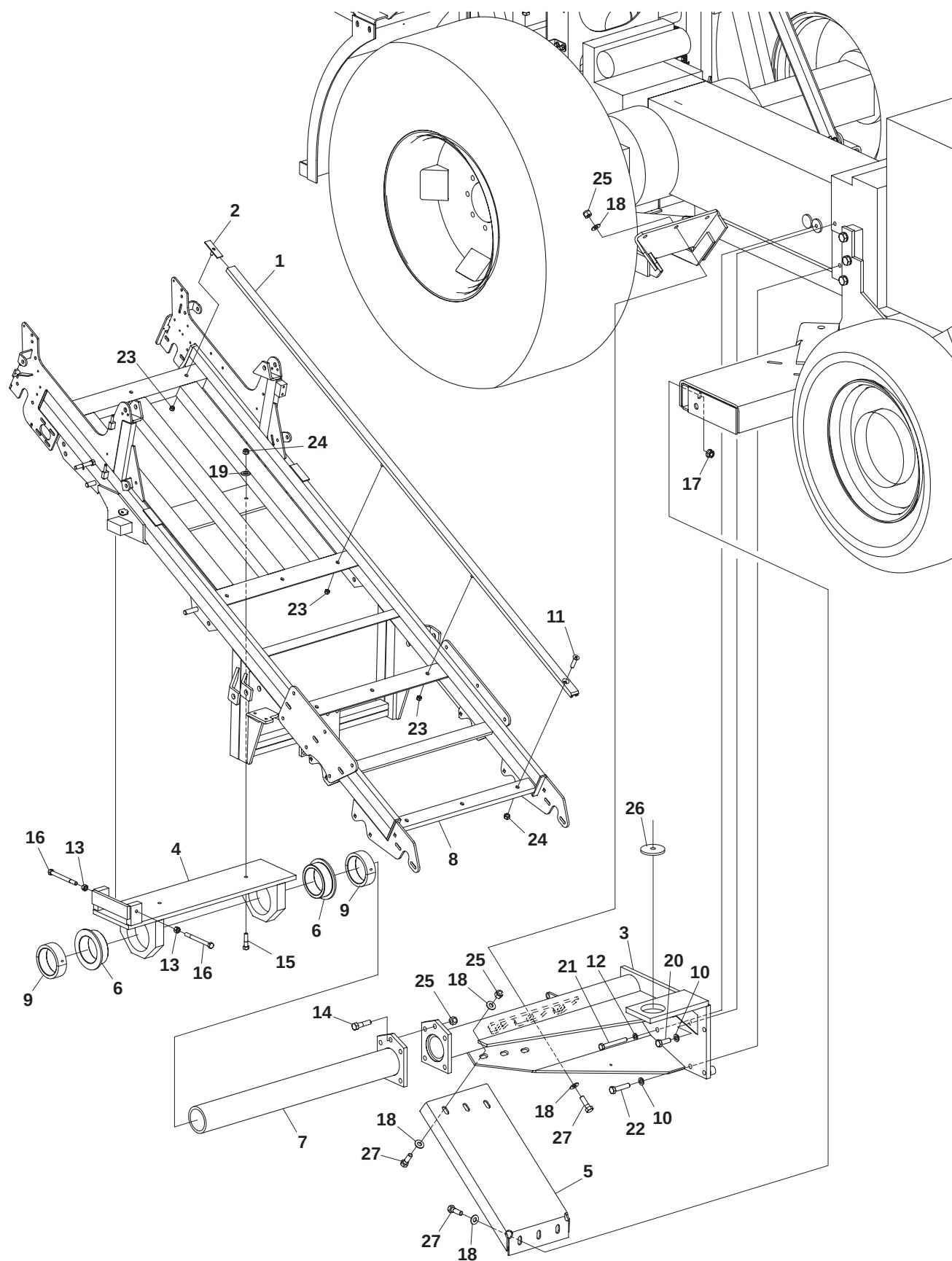
FIGURE 2

| ITM | PART NO.  | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | 4130505   | WLDMT-BRACE, LIFT ARM     | 1   |     |          |             |     |
| 2   | 4160208   | LIFT ARM                  | 1   |     |          |             |     |
| 3   | 4160217   | MOUNT. LIFT ARM           | 1   |     |          |             |     |
| 4   | 4130532   | PULLEY-CHAIN              | 1   |     |          |             |     |
| 5   | 4130534   | WLDMT-PIN, PULLEY         | 1   |     |          |             |     |
| 6   | 4160228   | ANCHOR. LIFT ARM          | 1   |     |          |             |     |
| 7   | KH31005   | CYLINDER-CONVEYOR LIFT    | 1   |     |          |             |     |
| 8   | 4133049   | SPACER-CYLINDER           | 2   |     |          |             |     |
| 9   | H100529   | CHAIN-LIFT, CUTTING HEAD  | 2   |     |          |             |     |
| 10  | 4134866   | CHAIN-SAFETY, CUTTING HD  | 1   |     |          |             |     |
| 11  | 4134875   | CONNECTOR-CHAIN           | 1   |     |          |             |     |
| 12  | 64006-02  | LOCKWASHER-5/16           | 1   |     |          |             |     |
| 13  | F040814   | BOLT-HEX 1/2-13X1-1/2     | 6   |     |          |             |     |
| 14  | 64123-152 | BOLT-HEX 5/8-11X5         | 2   |     |          |             |     |
| 15  | F041624   | BOLT-HEX 1-8X2.5          | 1   |     |          |             |     |
| 16  | 64123-54  | BOLT-HEX 5/16-18X3/4      | 1   |     |          |             |     |
| 17  | F331008   | WASHER 5/8                | 2   |     |          |             |     |
| 18  | F331008   | WASHER 5/8                | 6   |     |          |             |     |
| 19  | F330808   | WASHER 1/2                | 4   |     |          |             |     |
| 20  | F330808   | WASHER 1/2                | 4   |     |          |             |     |
| 21  | 64168-1   | COTTER-HAIRPIN .120X2-3/8 | 1   |     |          |             |     |
| 22  | 64168-5   | COTTER-HAIRPIN .18X3.68   | 1   |     |          |             |     |
| 23  | 64188-56  | PIN-CLEVIS 5/8X4.5        | 1   |     |          |             |     |
| 24  | KX01644   | PIN-CLEVIS 1X4.5          | 1   |     |          |             |     |
| 25  | F210808   | LOCKNUT-1/2-13            | 6   |     |          |             |     |
| 26  | 64229-06  | LOCKNUT-5/8-11            | 2   |     |          |             |     |
| 27  | F211608   | LOCKNUT-1-8               | 1   |     |          |             |     |
| 28  | 85010N    | ZERK-1/4-28 STR SLF THRD  | 1   |     |          |             |     |
| 29  | F321600   | FLAT WASHER-1"            | 4   |     |          |             |     |
| 30  | G8003     | SHACKLE-ANCHOR 3/8"       | 2   |     |          |             |     |
| 31  | 4132956   | MANIFOLD-MAIN CONVEYOR    | 1   |     |          |             |     |
| 32  | 4133570   | WLDMT-CONV. MNFLD BRKT    | 1   |     |          |             |     |
| 33  | F040614   | BOLT-HEX 3/8-16X1-1/2     | 4   |     |          |             |     |
| 34  | F210608   | LOCKNUT-3/8-16            | 4   |     |          |             |     |
| 35  | F870606   | BOLT-WLF 3/8-16X3/4       | 4   |     |          |             |     |
| 36  | H500208   | LIFT CYLINDER ASSEMBLY    | 1   |     |          |             |     |
|     | KH31005   | LIFT CYLINDER             | 1   |     |          |             |     |
|     | KH70038   | SEAL KIT. LIFT CYLINDER   | 1   |     |          |             |     |
| 37  | F041664   | BOLT 1 UNC X 6 1/2 GR.8   | 2   |     |          |             |     |
| 38  | F321600   | WASHER 1 IN.              | 4   |     |          |             |     |
| 39  | F211600   | LOCKNUT 1 IN. UNC         | 2   |     |          |             |     |
| 40  | P100061   | HINGE PIN                 | 1   |     |          |             |     |
| 41  | KX30319   | LYNCH PIN 3/16 X 1 9/16   | 4   |     |          |             |     |
| 42  | H100503   | LOWER PIN. LIFT CYLINDER  | 1   |     |          |             |     |
| 43  | 4160458   | CHAIN. 10 LINK            | 1   |     |          |             |     |
| 44  | KC01006   | SCREW PIN SHACKLE 3/8     | 4   |     |          |             |     |
| 45  | 4160459   | CHAIN. 11 LINK            | 1   |     |          |             |     |
| 46  | H110212   | STROKE LIMITER            | 1   |     |          |             |     |
|     | F660603   | SET SCREW. 3/8 UNC X 3/8  | 1   |     |          |             |     |

### NOTE

ITEMS 4, 5, 7, 8, 9, 10, 11, 12, 14, 16, 21, 22, 23, 26, 28 & 30 ARE NON CURRENT UP TO SERIAL NO. 118A.

FIGURE 3



**FIGURE 3**

| ITM | PART NO.  | DESCRIPTION              | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|--------------------------|-----|-----|----------|-------------|-----|
| 1   | 016361    | SLIDER-1560 CONVEYOR     | 3   |     |          |             |     |
| 2   | 016661    | SLIDER-T-BOLT            | 9   |     |          |             |     |
| 3   | 4129378.7 | WLDMT-CENTER             | 1   |     |          |             |     |
| 4   | 4129386.7 | WLDMT-CONVEYOR PIVOT     | 1   |     |          |             |     |
| 5   | 4130523.7 | SUPPORT-FRONT            | 1   |     |          |             |     |
| 6   | 4130524   | BUSHING-PIVOT            | 2   |     |          |             |     |
| 7   | 4137130   | WLDMT-CONVEYOR-PIVOT     | 1   |     |          |             |     |
| 8   | 4137639   | S-WLDMT-MAIN CONVEYOR    | 1   |     |          |             |     |
| 9   | 4137326   | COLLAR-RETAINER          | 2   |     |          |             |     |
| 10  | 64006-04  | LOCKWASHER-HELICAL 5/8   | 4   |     |          |             |     |
| 11  | F120820   | SCREW-HEX SOC FLAT HD    | 3   |     |          |             |     |
| 12  | 64006-13  | WASHER-9/16              | 1   |     |          |             |     |
| 13  | 64025-40  | NUT-HEX 3/4-10           | 2   |     |          |             |     |
| 14  | 64123-168 | BOLT-HEX 5/8-11X2-1/2    | 5   |     |          |             |     |
| 15  | 64123-24  | BOLT-HEX 1/2-13X2        | 2   |     |          |             |     |
| 16  | 64123-242 | BOLT-3/4-10X4-1/2        | 2   |     |          |             |     |
| 17  | 64141-12  | NUT-WLF 5/8-11           | 3   |     |          |             |     |
| 18  | 64163-16  | WASHER-41/64X1-3/8X12 GA | 15  |     |          |             |     |
| 19  | 64163-19  | WASHER-33/64X1-1/4X12GA  | 2   |     |          |             |     |
| 20  | 64205-067 | BOLT-MET M16-1.5X45      | 2   |     |          |             |     |
| 21  | 64205-071 | BOLT-MET M14-1.5X110     | 1   |     |          |             |     |
| 22  | 64205-072 | BOLT-MET M16-1.5X70      | 2   |     |          |             |     |
| 23  | 64229-03  | LOCKNUT-3/8-16           | 9   |     |          |             |     |
| 24  | F210808   | LOCKNUT-1/2-13           | 5   |     |          |             |     |
| 25  | 64229-06  | LOCKNUT, NYLON 5/8-11    | 11  |     |          |             |     |
| 26  | 4133103.7 | WASHER-SPACER, CAB       | 1   |     |          |             |     |
| 27  | 90-1016   | BOLT-HEX 5/8-11 X 2 NC   | 9   |     |          |             |     |

FIGURE 4

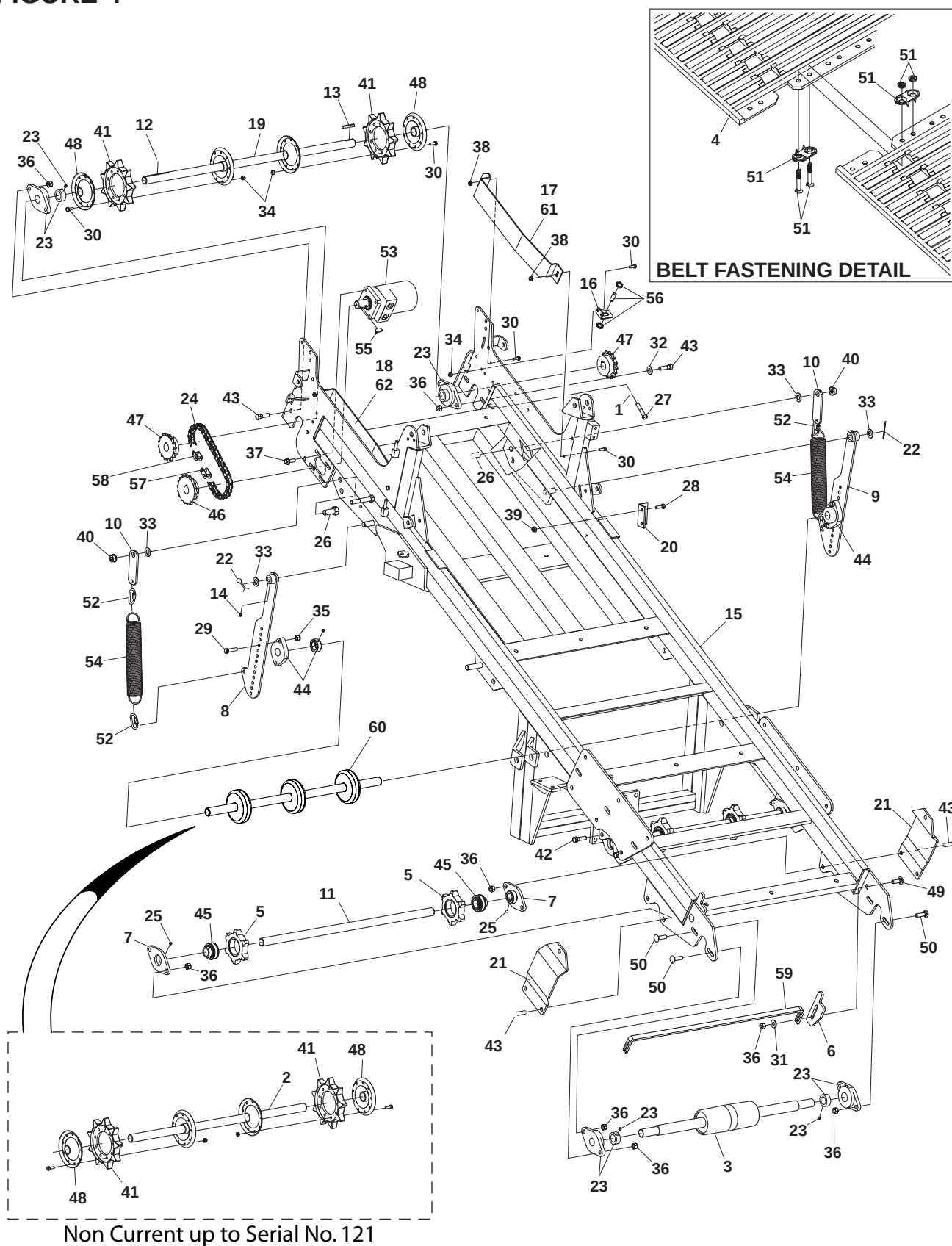




FIGURE 4

| ITM | PART NO.   | DESCRIPTION              | QTY | ITM | PART NO. | DESCRIPTION             | QTY |
|-----|------------|--------------------------|-----|-----|----------|-------------------------|-----|
| 1   | F230608    | NUT-3/8-16 HEX           | 1   | 50  | F020716  | BOLT-CRG 7/16 x 1 3/4   | 4   |
| 2   | 4136960.7  | WLDMT-FRT-INDEX-IDLER    | 1   | 51  | G8008    | MAT SPLICER             | 7   |
| 3   | 002625.7   | CROWN ROLLER-24"         | 1   | 52  | G8084    | QUICK LINK-3/16         | 4   |
| 4   | 002638     | BELT-BROUWER 24" CONV.   | 1   | 53  | H0012    | MOTOR - OBSOLETE        | 1   |
| 5   | 014268     | SPROCKET-CONVEYOR BLT    | 4   |     | KH30007  | MOTOR - SEE NOTE 1      | 1   |
| 6   | 016352.7   | PLATE-ADJUSTER WEDGE     | 2   | 54  | S2003    | SPRING-EXTENSION        | 2   |
| 7   | 016382.7   | FLANGE-SHAFT             | 4   | 55  | G8019    | KEY                     | 1   |
| 8   | 016637.7   | WLDMT-TENSIONER ARM LH   | 1   | 56  | 4132981  | SENSOR-INDUCTIVE        | 1   |
| 9   | 016638.7   | WLDMT-TENSIONER ARM RH   | 1   | 57  | 81-055   | HALF LINK               | 1   |
| 10  | 016640.7   | MOUNT-IDLER SPRING       | 2   | 58  | 81-053   | CONNECTOR LINK          | 1   |
| 11  | 016683     | SHAFT-ROLLUP CONVEYOR    | 2   | 59  | 4160048  | CROWN ROLLER SCRAPER    | 1   |
| 12  | Q0579      | KEY-1/4 X 1/4 X 3-5/8    | 1   | 60  | 4160246  | IDLER SHAFT W/A         | 1   |
| 13  | 64164-10   | KEY-1/4X1/4X1-1/4 SQ END | 1   | 61  | 4160249  | SOD GUIDE - 23 IN. L.H. | 1   |
| 14  | KM11400    | FITTING-GREASE 1/4-28    | 2   | 62  | 4160248  | SOD GUIDE - 23 IN. R.H. | 1   |
| 15  | 4137639    | S-WLDMT-MAIN CONVEYOR    | 1   |     |          |                         |     |
| 16  | 4133815.7  | BRKT-SENSOR, CONVEYOR    | 1   |     |          |                         |     |
| 17  | 4133836.7  | SOD GUIDE - L.H.         | 1   |     |          |                         |     |
| 18  | 4133842.7  | SOD GUIDE - R.H.         | 1   |     |          |                         |     |
| 19  | 4134106.7  | WLDMT-SHAFT, CONVEYOR    | 1   |     |          |                         |     |
| 20  | 4134750.7  | BRKT-HOSE CLAMPS         | 1   |     |          |                         |     |
| 21  | 6115963.7  | BRKT-FLOAT ASSIST LOWER  | 2   |     |          |                         |     |
| 22  | F910514    | COTTER PIN-5/32 X 1-1/2  | 2   |     |          |                         |     |
| 23  | 55-FB23016 | 2-BOLT FLANGE BEARING    | 4   |     |          |                         |     |
| 24  | Q8432      | CHAIN                    | 1   |     |          |                         |     |
| 25  | F140502    | SCREW-SET 5/16-18X1/4    | 4   |     |          |                         |     |
| 26  | F041014    | BOLT-HEX 5/8-11X1-1/2    | 2   |     |          |                         |     |
| 27  | F040620    | BOLT-HEX 3/8-16X2        | 1   |     |          |                         |     |
| 28  | F040510    | BOLT-HEX 5/16-18X1       | 2   |     |          |                         |     |
| 29  | F040614    | BOLT-HEX 3/8-16X1-1/2    | 4   |     |          |                         |     |
| 30  | F040406    | BOLT-HEX 1/4-20X3/4      | 24  |     |          |                         |     |
| 31  | F330708    | WASHER 7/16              | 2   |     |          |                         |     |
| 32  | F330708    | WASHER 7/16              | 2   |     |          |                         |     |
| 33  | F331008    | WASHER 5/8               | 4   |     |          |                         |     |
| 34  | F210408    | LOCKNUT-1/4-20           | 20  |     |          |                         |     |
| 35  | F210608    | LOCKNUT-3/8-16           | 4   |     |          |                         |     |
| 36  | F210708    | LOCKNUT-7/16-14          | 18  |     |          |                         |     |
| 37  | F040610    | BLT-WLF 3/8-16 X 1       | 4   |     |          |                         |     |
| 38  | F210408    | LOCKNUT-1/4-20           | 4   |     |          |                         |     |
| 39  | F210508    | LOCKNUT-5/16-18          | 2   |     |          |                         |     |
| 40  | F210808    | LOCKNUT-1/2-13           | 2   |     |          |                         |     |
| 41  | 83-053     | GEAR                     | 2   |     |          |                         |     |
| 42  | F040712    | BOLT-7/16-14 X 1-1/4 NC  | 4   |     |          |                         |     |
| 43  | F040714    | BOLT-7/16-14 X 1-1/2 NC  | 8   |     |          |                         |     |
| 44  | B0121      | BEARING-2 BOLT FLANGE    | 2   |     |          |                         |     |
| 45  | B2022      | BEARING- BALL            | 4   |     |          |                         |     |
| 46  | KD71110    | SPROCKET #50 X 11T       | 1   |     |          |                         |     |
| 47  | KD71810    | SPROCKET #50 X 16T       | 1   |     |          |                         |     |
| 48  | D8001      | FLANGE, SPROCKET         | 2   |     |          |                         |     |
| 49  | F020720    | BOLT-CRG 7/16-14 x 2     | 2   |     |          |                         |     |

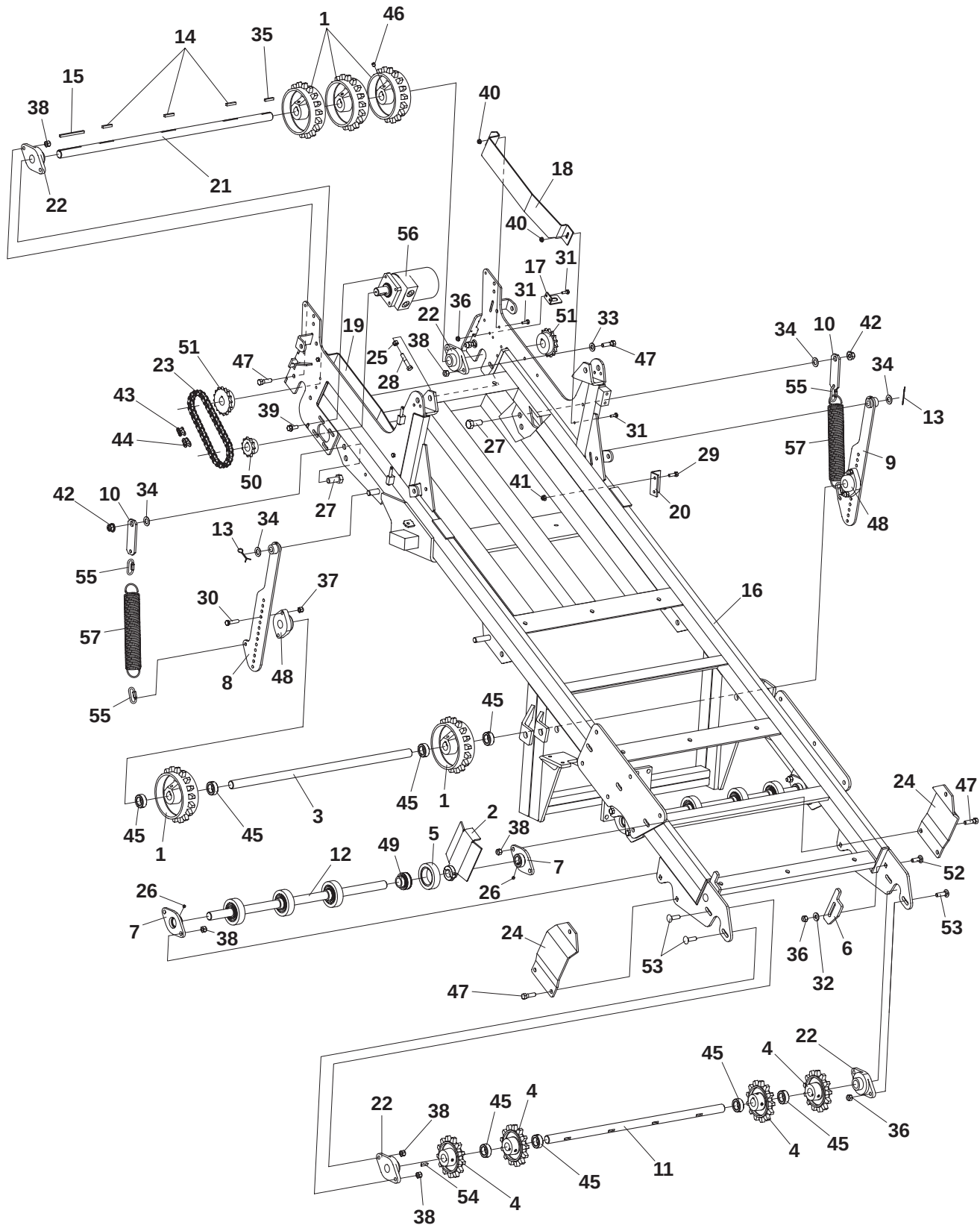
### NOTE 1

ITEM 53 - H0012 IS OBSOLETE  
AND IS REPLACED BY SERIVCE KIT  
4160611. IT INCLUDES:  
MOTOR - KH30007 QTY. 1  
FITTINGS - 8-10-070220. QTY. 2

### NOTE 2

ITEMS 2, 41 & 48 ARE NON CURRENT  
UP TO SERIAL NUBMER 121 AND ARE  
REPLACED BY ITEM 60 - 4160246.

FIGURE 5

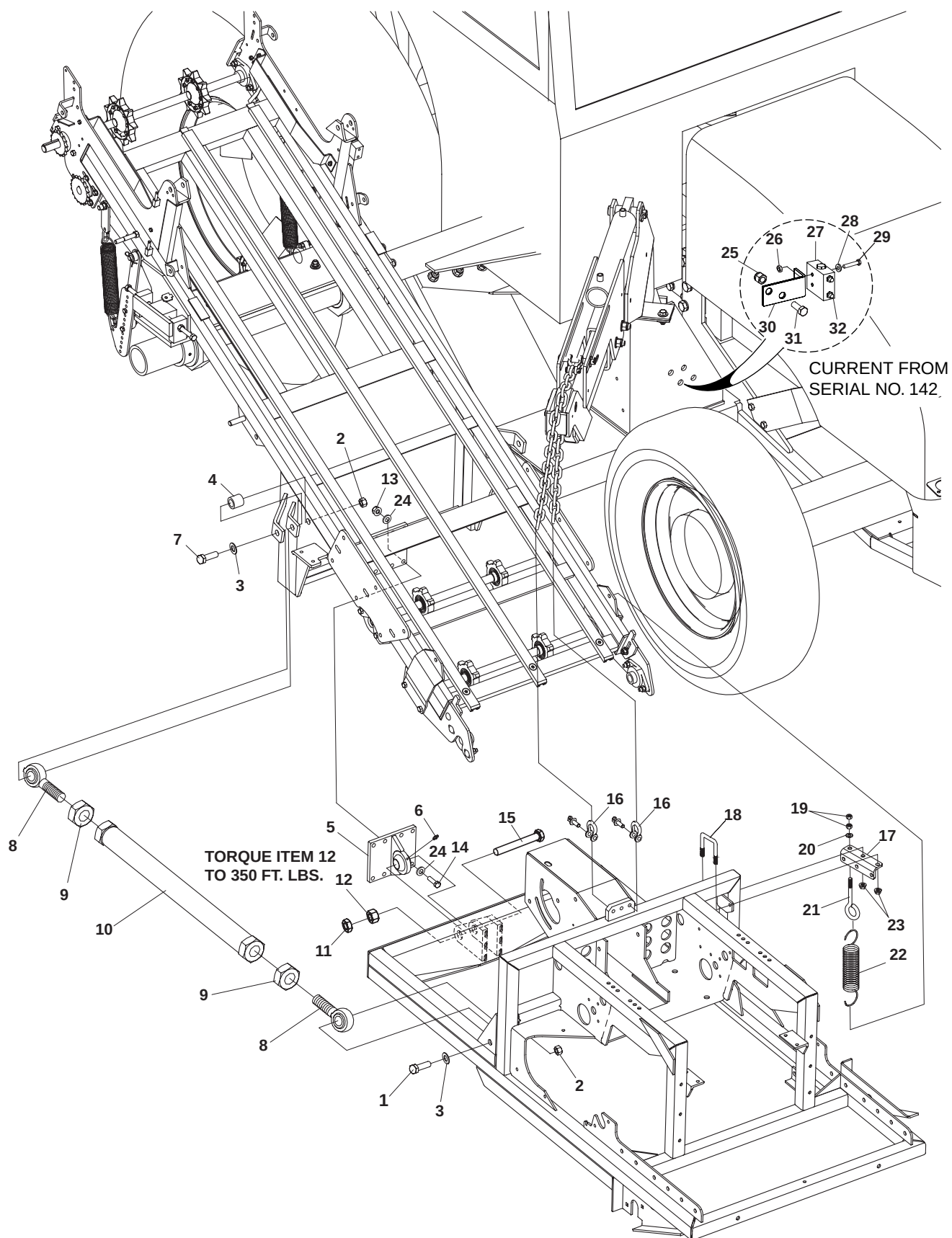


**FIGURE 5**

| ITM | PART NO.   | DESCRIPTION               | QTY | ITM | PART NO.    | DESCRIPTION              | QTY |
|-----|------------|---------------------------|-----|-----|-------------|--------------------------|-----|
| 1   | 001351     | SPROCKET-6" CAST          | 5   | 50  | D1206       | SPROCKET-FIXED           | 1   |
| 2   | 002206.7   | GUIDE-MAT                 | 1   | 51  | D1216       | SPROCKET-FIXED           | 2   |
| 3   | 002615     | SHAFT-IDLER               | 1   | 52  | F4101       | BOLT-CRG 7/16-14 X 1-1/4 | 2   |
| 4   | 014058     | SPROCKET, THIN            | 4   | 53  | F4104       | BOLT-CRG 7/16            | 4   |
| 5   | 014074     | IDLER ROLLER              | 8   | 54  | G8019       | KEY                      | 2   |
| 6   | 016352.7   | PLATE-ADJUSTER WEDGE      | 2   | 55  | G8084       | QUICK LINK-3/16          | 4   |
| 7   | 016382     | FLANGE-SHAFT              | 4   | 56  | MG121310AAA | MOTOR                    | 1   |
| 8   | 016637.7   | TENSIONER ARM LH          | 1   | 57  | S2003       | SPRING-EXTENSION         | 2   |
| 9   | 016638.7   | WLDMT-TENSIONER ARM RH    | 1   | 58* | 001512      | BELT-MINTEX CONVYR 24"   | 1   |
| 10  | 016640.7   | MOUNT-IDLER SPRING        | 2   | 59* | A03484      | ASSY-MAT CONNECTOR 24"   | 1   |
| 11  | 016650     | SHAFT-IDLER               | 1   |     |             |                          |     |
| 12  | 016683     | SHAFT-ROLLUP CONVEYOR     | 2   |     |             |                          |     |
| 13  | 02-CP0512  | COTTER PIN-5/32 X 1-1/2   | 2   |     |             |                          |     |
| 14  | 124422     | KEY-1/4 X 1/4 X 1-3/8     | 3   |     |             |                          |     |
| 15  | 124458     | KEY,1/4 X 1/4 X 3-5/8     | 1   |     |             |                          |     |
| 16  | 4132084.7  | WLDMT-MAIN CONVEYOR       | 1   |     |             |                          |     |
| 17  | 4133815.7  | BRACKET-SENSOR            | 1   |     |             |                          |     |
| 18  | 4133836.7  | SOD GUIDES                | 1   |     |             |                          |     |
| 19  | 4133842.7  | SOD GUIDES                | 1   |     |             |                          |     |
| 20  | 4134750.7  | BRACKET- HOSE CLAMPS      | 1   |     |             |                          |     |
| 21  | 4134912    | SHAFT-CONVEYOR DRIVE      | 1   |     |             |                          |     |
| 22  | 55-FB23016 | 2-BOLT FLANGE BEARING     | 4   |     |             |                          |     |
| 23  | 56-RC50    | CHAIN                     | 1   |     |             |                          |     |
| 24  | 6115963.7  | BRKT-FLOAT ASSIST LOWER   | 2   |     |             |                          |     |
| 25  | 64025-05   | NUT-3/8-16 HEX            | 1   |     |             |                          |     |
| 26  | 64044-6    | SCREW-SET 5/16-18X1/4     | 4   |     |             |                          |     |
| 27  | 64123-109  | BLT-HEX 5/8-11X1-1/2      | 2   |     |             |                          |     |
| 28  | 64123-67   | BLT-HEX 3/8-16X2          | 1   |     |             |                          |     |
| 29  | 64123-68   | BOLT-HEX 5/16-18X1        | 2   |     |             |                          |     |
| 30  | 64123-70   | BOLT-HEX 3/8-16X1-1/2     | 4   |     |             |                          |     |
| 31  | 64123-89   | BOLT-HEX 1/4-20X3/4       | 6   |     |             |                          |     |
| 32  | 64163-43   | WSHR.443/.454X1X11        | 2   |     |             |                          |     |
| 33  | 64163-67   | WASHER-.516X1X12          | 2   |     |             |                          |     |
| 34  | 64163-73   | WASHER                    | 4   |     |             |                          |     |
| 35  | 64164-10   | 1/4X1/4X1-1/4 MACH KEY    | 1   |     |             |                          |     |
| 36  | 64229-01   | LOCKNUT-1/4-20            | 2   |     |             |                          |     |
| 37  | 64229-03   | LOCKNUT-NYLON 3/8-16      | 13  |     |             |                          |     |
| 38  | 64229-04   | S LCK NUT-NYLN 7/16-14    | 18  |     |             |                          |     |
| 39  | 64262-011  | BOLT-FLG HD 3/8-16 X 1    | 4   |     |             |                          |     |
| 40  | 64268-01   | NUT-FL NYLON LOCK 1/4-20  | 4   |     |             |                          |     |
| 41  | 64268-02   | NUT-FL NYLON LOCK 5/16-18 | 2   |     |             |                          |     |
| 42  | 64268-05   | NUT-FL NYLON LOCK 1/2-13  | 2   |     |             |                          |     |
| 43  | 81-053     | CONNECTOR LINK, #50       | 1   |     |             |                          |     |
| 44  | 81-055     | \50 HALF LINK             | 1   |     |             |                          |     |
| 45  | 85-SC16    | SET COLLAR                | 8   |     |             |                          |     |
| 46  | 85-SS14    | SET SCREW, 3/8-16 X 3/8   | 6   |     |             |                          |     |
| 47  | 90-0712    | BOLT-7/16-14 X 1-1/2      | 8   |     |             |                          |     |
| 48  | B0121      | BEARING                   | 2   |     |             |                          |     |
| 49  | B2022      | BEARING                   | 8   |     |             |                          |     |

\* NOT ILLUSTRATED

FIGURE 6



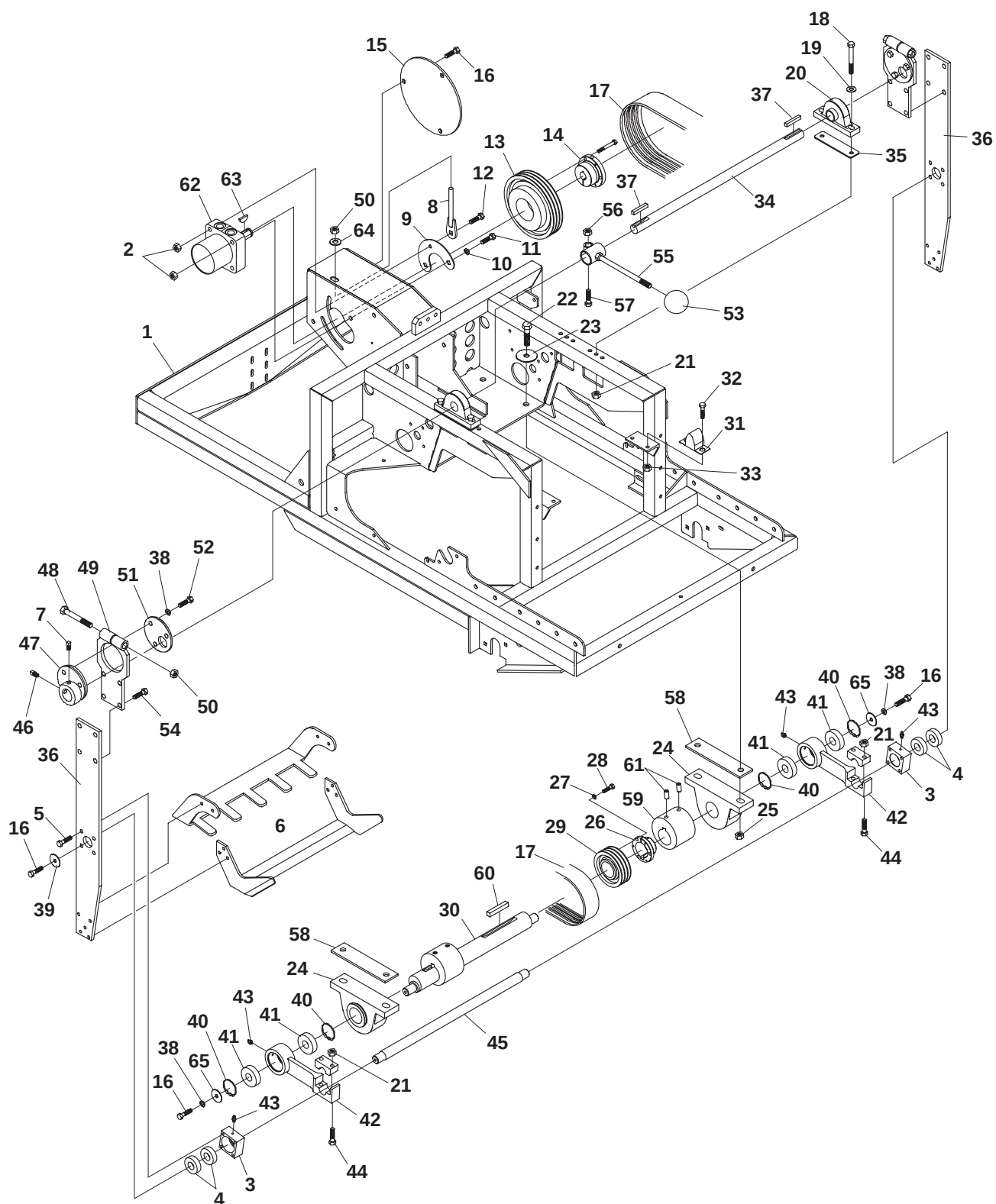
**FIGURE 6**

| ITM | PART NO.    | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-------------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | F041434     | BOLT-3/4-10 X 3-1/2 NC    | 2   |     |          |             |     |
| 2   | F211208     | LOCKNUT-3/4-10            | 4   |     |          |             |     |
| 3   | F331208     | WASHER-.768/.756X1.25X14G | 4   |     |          |             |     |
| 4   | 4112501     | HOUSING-LIFT SHAFT        | 2   |     |          |             |     |
| 5   | 6115771.7   | MOUNT-SWIVEL BALL         | 1   |     |          |             |     |
| 6   | KM11400     | GREASE FITTING-1/4-28 45  | 1   |     |          |             |     |
| 7   | F041254     | BOLT-3/4-10 X 5-1/2 NC    | 2   |     |          |             |     |
| 8   | 43-012      | ROD END-3/4 X 7 - R.H.    | 4   |     |          |             |     |
|     | 43-013      | ROD END-3/4 X 7 - L.H.    | 4   |     |          |             |     |
| 9   | F221800     | JAM NUT-1-1/8" UNC - R.H. | 4   |     |          |             |     |
|     | F221810     | JAM NUT-1-1/8" UNC - L.H. | 4   |     |          |             |     |
| 10  | 4160022     | ARM-LINK                  | 2   |     |          |             |     |
| 11  | 99-E66      | JAM NUT-1-1/4 NC          | 1   |     |          |             |     |
| 12  | 92-20       | NUT-1-1/4 NC              | 1   |     |          |             |     |
| 13  | F840800     | NUT-WLF 1/2-13            | 8   |     |          |             |     |
| 14  | F040814     | BOLT-FLANGE 1/2-13X1-1/2  | 8   |     |          |             |     |
| 15  | F042054     | BOLT-1-1/4X5-1/2 NC       | 1   |     |          |             |     |
| 16  | G8003       | SHACKEL-ANCHOR 3/8"       | 2   |     |          |             |     |
| 17  | 6115962.7   | BRACKET, FLOAT ASSIST     | 2   |     |          |             |     |
| 18  | 99-K49      | U-BOLT                    | 2   |     |          |             |     |
| 19  | 64025-05    | NUT-3/8-16 HEX            | 4   |     |          |             |     |
| 20  | 64163-61    | WSHR .81X.406X16GA        | 2   |     |          |             |     |
| 21  | F050660     | EYE-BOLT. 3/8 X 5         | 2   |     |          |             |     |
| 22  | S2006       | SPRING-EXT                | 2   |     |          |             |     |
| 23  | 64141-4     | NUT-WLF 3/8-16            | 4   |     |          |             |     |
| 24  | F330808     | WASHER 1/2                | 8   |     |          |             |     |
| 25  | F211200     | LOCKNUT 3/4 UNC           | 2   |     |          |             |     |
| 26  | F210400     | LOCKNUT 1/4 UNC           | 2   |     |          |             |     |
| 27  | KH20169     | LOCK VALVE                | 1   |     |          |             |     |
| 28  | F330400     | FLATWASHER 1/4            | 2   |     |          |             |     |
| 29  | F040420     | BOLT 1/4 UNC X 2 GR.8     | 2   |     |          |             |     |
| 30  | 4160616     | MOUNTING BRACKET          | 1   |     |          |             |     |
| 31  | F011216     | BOLT 3/4 UNC X 1 3/4 GR.8 | 2   |     |          |             |     |
| 32  | 8-8-0070220 | FITTING                   | 4   |     |          |             |     |

**NOTE**  
ITEMS 8, 9 & 10 ARE AVAILABLE  
AS ASSEMBLY - 4160023.

**NOTE**  
ITEMS 25, 26, 27, 28, 29, 30, 31  
& 32 ARE AVAILABLE AS  
ASSEMBLY - 4160629.

FIGURE 7





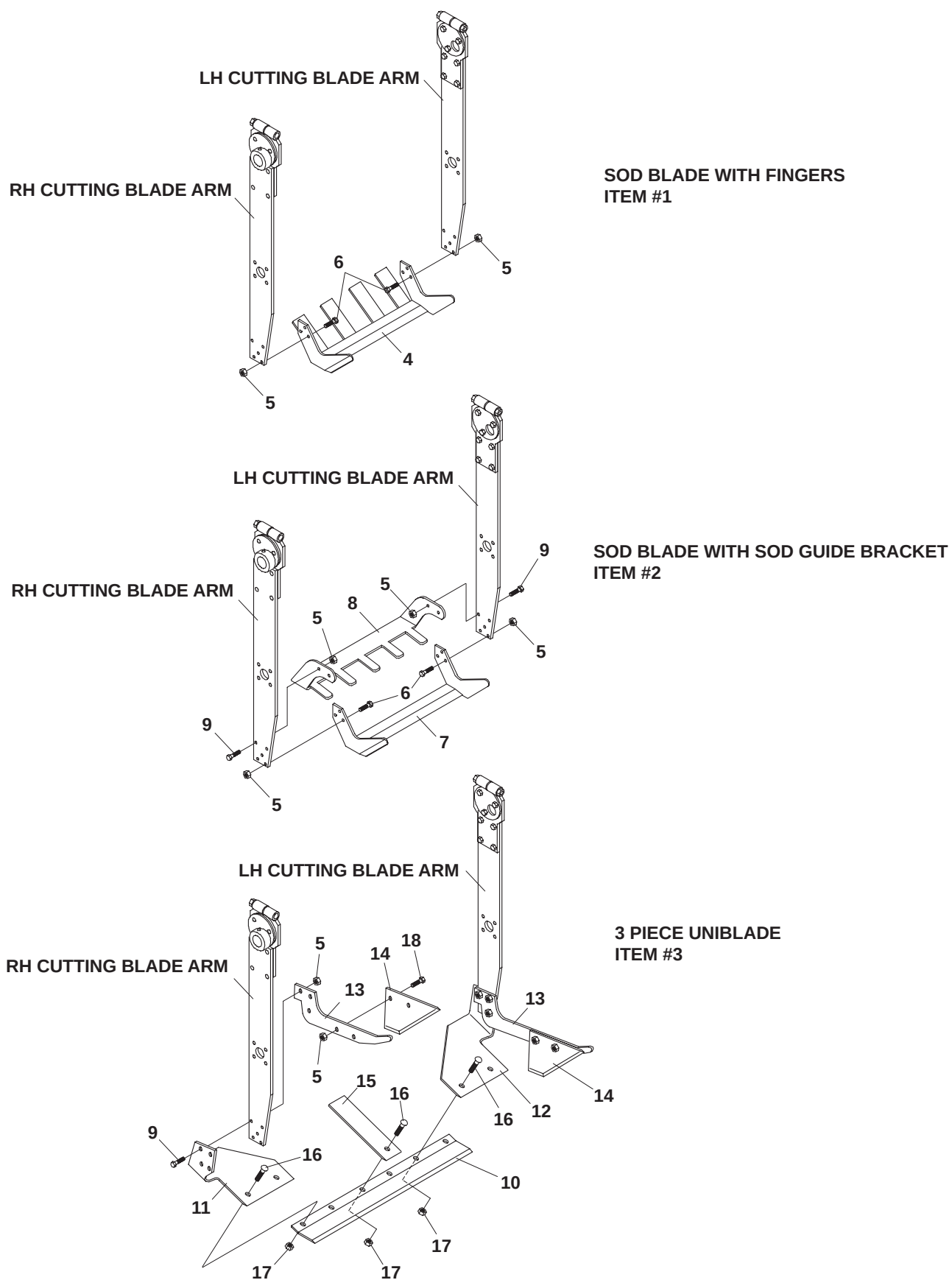
**FIGURE 7**

| ITM | PART NO.            | DESCRIPTION             | QTY | ITM | PART NO.  | DESCRIPTION             | QTY |
|-----|---------------------|-------------------------|-----|-----|-----------|-------------------------|-----|
| 1   | 4137626             | S-24" CUTTING HEAD      | 1   | 43  | KM11400   | GREASE FITTING-1/4-28   | 4   |
| 2   | F230808             | NUT-1/2-13              | 4   | 44  | F040724   | BOLT-HEX 7/16-14X2-1/2  | 4   |
| 3   | 001281.6            | WRISTSHAFT MNTNG BLK    | 2   | 45  | 001527    | SHAFT-WRIST 24"         | 1   |
| 4   | B2014               | BEARING-BALL            | 4   | 46  | F110606   | SET SCREW-3/8-16 X 3/4  | 2   |
| 5   | F040612             | BOLT-WLF 3/8-16X1-1/4   | 8   | 47  | 001318.6  | ECCENTRIC-ADJUSTMENT    | 2   |
| 6   |                     | CUTTING BLADES          | 1   | 48  | F040840   | BOLT-1/2-13 X 4         | 2   |
|     | (REFER TO FIGURE 7) |                         |     | 49  | 90-1317.6 | PLATE-ADJ               | 2   |
| 7   | F110610             | SCREW                   | 2   | 50  | F210808   | LOCKNUT-1/2-13          | 3   |
| 8   | 016296              | TENSIONER-DRIVE MTR     | 1   | 51  | 001320    | ECC ADJ COVER PLATE     | 2   |
| 9   | 016295.7            | SCRAPER-MTR SHEAVE      | 1   | 52  | F040610   | BOLT-HEX 3/8-16X1       | 6   |
| 10  | 94-10               | FLAT WASHER-5/8         | 1   | 53  | M5001     | PLASTIC KNOB            | 1   |
| 11  | F020830             | BOLT-CRG 1/2-13         | 2   | 54  | F040610   | BOLT-WLF 3/8-16 X 1     | 8   |
| 12  | F020830             | BOLT-CRG 1/2-13 X 3     | 1   | 55  | 001321.6  | CUTTING BLADE ADJ       | 1   |
| 13  | D2704               | SHEAVE                  | 1   | 56  | F210608   | LOCKNUT-NYLON 3/8-16    | 1   |
| 14  | D3029               | BUSHING                 | 1   | 57  | F040614   | BOLT-HEX 3/8-16X1-1/2   | 1   |
| 15  | 016228.7            | PLATE-MTR COVER         | 1   | 58  | 4131186.7 | BEARING-SPACER          | 2   |
| 16  | F040604             | BOLT-3/8-16 X 1/2       | 7   | 59  | 4131094   | CAM-COUNTERWEIGHT       | 2   |
| 17  | 81-3VX560           | BELT                    | 1   | 60  | Q0720     | KEY-1/2 X 1/2 X 3       | 2   |
| 18  | F040734             | BOLT-7/16-14 X 3-1/2    | 4   | 61  | F140810   | SCREW-SET 1/2-13 X 1    | 4   |
| 19  | F320708             | WASHER-.453X1.38X7      | 4   | 62  | 21-091    | MOTOR-HYD, CUTTER HEAD  | 1   |
| 20  | B1003               | BEARING                 | 2   | 63  | G8019     | KEY-WOODRUFF 1/4 X 1"   | 1   |
| 21  | F210708             | LOCKNUT-7/16-14         | 8   | 64  | 64163-16  | WASHER-41/64X1-3/8X12GA | 1   |
| 22  | F041024             | BOLT- 5/8-11 X 2-1/2    | 4   | 65  | F340600   | FENDER WASHER-3/8       | 2   |
| 23  | F331008             | WASHER                  | 4   |     |           |                         |     |
| 24  | B1120               | BEARING                 | 2   |     |           |                         |     |
| 25  | F211002             | NUT                     | 4   |     |           |                         |     |
| 26  | D3042               | BUSHING                 | 1   |     |           |                         |     |
| 27  | F310408             | LOCKWASHER-1/4          | 3   |     |           |                         |     |
| 28  | F040420             | BOLT-1/4-20X2           | 3   |     |           |                         |     |
| 29  | D2705               | SHEAVE                  | 1   |     |           |                         |     |
| 30  | 4131799             | CRANKSHAFT-24"          | 1   |     |           |                         |     |
| 31  | 014082              | BUMPER-RUBBER           | 2   |     |           |                         |     |
| 32  | F040606             | BOLT-WLF 3/8-16X3/4     | 4   |     |           |                         |     |
| 33  | F840600             | NUT-WLF 3/8-16          | 4   |     |           |                         |     |
| 34  | 001324              | SHAFT-CUTTER ARM        | 1   |     |           |                         |     |
| 35  | 6115733.7           | PLATE-HEAD BRG SUPT     | 2   |     |           |                         |     |
| 36  | 4131756.6           | ARM-CUTTING BLADE       | 2   |     |           |                         |     |
| 37  | Q0579               | KEY-1/4 X 1/4 X 1-3/8   | 2   |     |           |                         |     |
| 38  | F320608             | WASHER-3/8              | 26  |     |           |                         |     |
| 39  | F320608             | WASHER-13/32IDX1-9/32OD | 2   |     |           |                         |     |
| 40  | G1002               | RETAINING RING-INTRNL   | 4   |     |           |                         |     |
| 41  | B2015               | BEARING                 | 4   |     |           |                         |     |
| 42  | 001692.6            | SPLIT CONNECTING ROD    | 2   |     |           |                         |     |

# CUTTING BLADE OPTIONS

**RoboMax**

FIGURE 8





**FIGURE 8**

| ITM | PART NO.  | DESCRIPTION                                                                                     | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|-------------------------------------------------------------------------------------------------|-----|-----|----------|-------------|-----|
| 1   | A03123    | KIT-SOD BLADE, W/FING, 24" (INCLUDES ITEMS 4-6)                                                 | 1   |     |          |             |     |
| 2   | A03927    | KIT-SOD BLADE, W/BRKT, 24" (INCLUDES ITEMS 5-9)                                                 | 1   |     |          |             |     |
| 3   | A03358    | KIT-UNIBLADE, 3 PIECE, 24" (INCLUDES ITEMS 5, 9-18)                                             | 1   |     |          |             |     |
| 4   | 4132643.7 | CUTTING BLADE COMBO 24"                                                                         | 1   |     |          |             |     |
| 5   | 64025-03  | NUT-HEX 5/16-24<br>(QTY 6 USED ON A03123)<br>(QTY 10 USED ON A03927)<br>(QTY 12 USED ON A03358) |     |     |          |             |     |
| 6   | 515011    | SCREW-.31-24 1.00 ZS HX G8                                                                      | 6   |     |          |             |     |
| 7   | 4132718.7 | BLADE-CUTTING 24" HD                                                                            | 1   |     |          |             |     |
| 8   | 4136538.7 | GUIDE-SOD, 24"                                                                                  | 1   |     |          |             |     |
| 9   | F2717     | SHCS-FLAT<br>(QTY 4 USED ON A03927)<br>(QTY 8 USED ON A03358)                                   |     |     |          |             |     |
| 10  | 002270.7  | BLADE-24" HD 1/4X3"                                                                             | 1   |     |          |             |     |
| 11  | 015180.7  | HOLDER-BLADE, RH                                                                                | 1   |     |          |             |     |
| 12  | 015179.7  | HOLDER-BLADE, LH                                                                                | 1   |     |          |             |     |
| 13  | 015183.7  | HOLDER-SIDE BLADE                                                                               | 2   |     |          |             |     |
| 14  | 001550.7  | BLADE-SIDE CUT .093X3.25                                                                        | 2   |     |          |             |     |
| 15  | 015184.7  | SOD GUIDE, CENTER                                                                               | 2   |     |          |             |     |
| 16  | F3701     | BOLT-PLOW, G5                                                                                   | 6   |     |          |             |     |
| 17  | F3013     | NUT-FLANGED STOVER LCK                                                                          | 6   |     |          |             |     |
| 18  | 64123-01  | BOLT-HEX 5/16-24X3/4                                                                            | 4   |     |          |             |     |

# CUT OFF BLADE ASSEMBLY

**RoboMax**

FIGURE 9

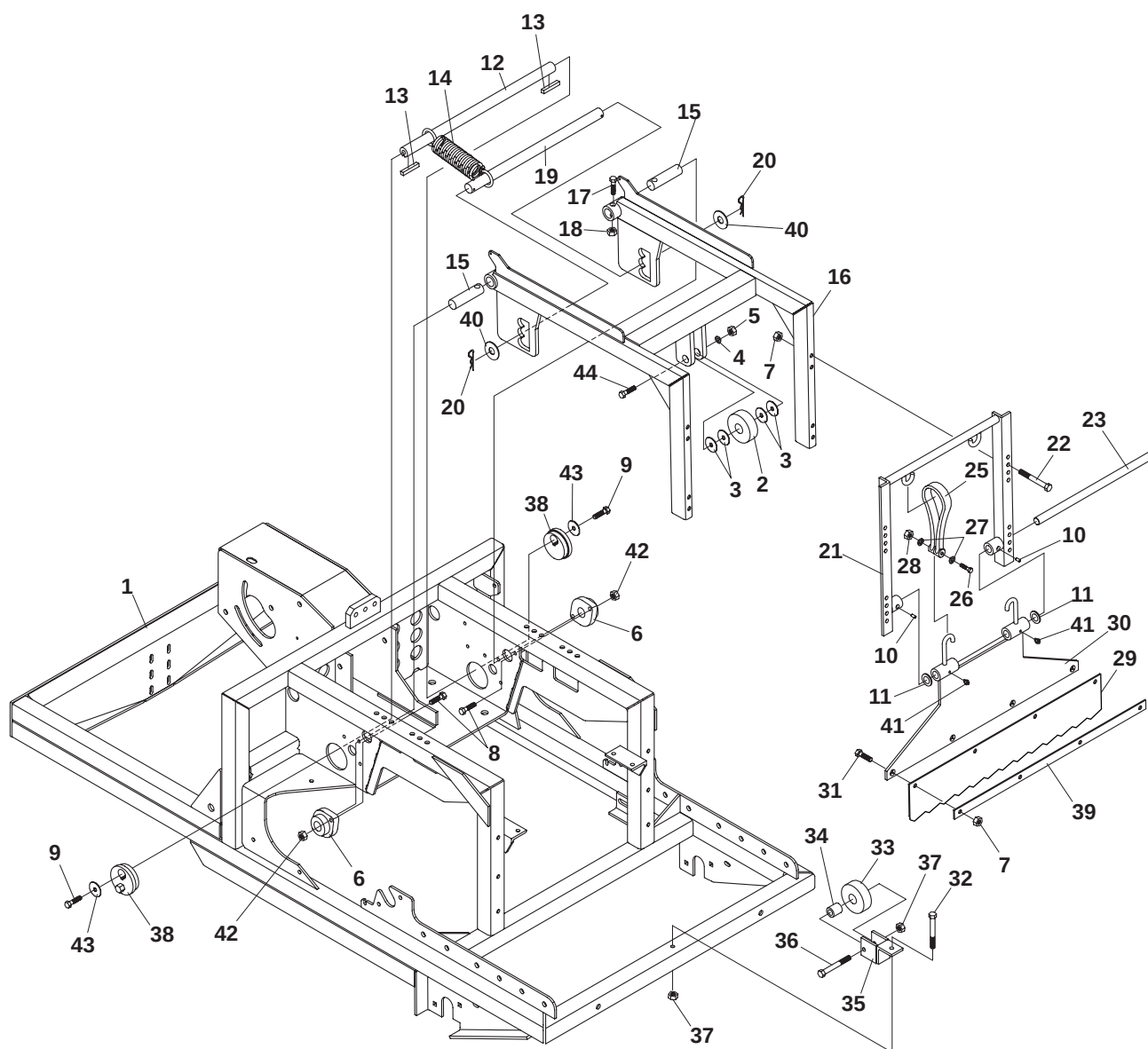


FIGURE 9

| ITM | PART NO.  | DESCRIPTION                                   | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|-----------------------------------------------|-----|-----|----------|-------------|-----|
| 1   | 4137626   | S-24" CUTTING HEAD                            | 1   |     |          |             |     |
| 2   | B8002     | BEARING                                       | 1   |     |          |             |     |
| 3   | F321200   | WASHER 3/4 GR.8                               | 4   |     |          |             |     |
| 4   | G312000   | LOCKWASHER-20MM                               | 1   |     |          |             |     |
| 5   | F231208   | NUT 3/4 UNC GR.8                              | 1   |     |          |             |     |
| 6   | 55-117    | BEARING                                       | 2   |     |          |             |     |
| 7   | F840600   | NUT-WLF 3/8-16                                | 8   |     |          |             |     |
| 8   | F040512   | BOLT-5/16-18 X 1-1/4                          | 4   |     |          |             |     |
| 9   | F040806   | BOLT-FLANGE 1/2-13 X 3/4                      | 2   |     |          |             |     |
| 10  | F140604   | SET SCREW 3/8 X 1/2                           | 2   |     |          |             |     |
| 11  | F331208   | WASHER-.768/.756X1.25X14G                     | 2   |     |          |             |     |
| 12  | 6115595.7 | SHAFT-SPRING 24"                              | 1   |     |          |             |     |
| 13  | F924410   | KEY-1/4X1/4X1                                 | 2   |     |          |             |     |
| 14  | S2006     | SPRING                                        | 7   |     |          |             |     |
| 15  | 6115395   | SHAFT                                         | 2   |     |          |             |     |
| 16  | 4137638   | S-FRAME, CUT OFF 24"                          | 1   |     |          |             |     |
| 17  | F040824   | BOLT-HEX 1/2-13X2-1/2                         | 2   |     |          |             |     |
| 18  | F210808   | LOCKNUT-1/2-13                                | 2   |     |          |             |     |
| 19  | 6115596.7 | SHAFT-SPRING 24"                              | 1   |     |          |             |     |
| 20  | F940229   | PIN-HITCH CLIP                                | 2   |     |          |             |     |
| 21  | 001445.6  | FRAME-CUTOFF BLADE                            | 1   |     |          |             |     |
| 22  | F040630   | BOLT-3/8-16X3                                 | 4   |     |          |             |     |
| 23  | 001418    | PIN-BLADE PIVOT                               | 1   |     |          |             |     |
| 24* | 001452    | SPRING-CUT OFF ASSY<br>(INCLUDES ITEMS 25-28) | 2   |     |          |             |     |
| 25  | S8001     | STRAP-15"                                     | 2   |     |          |             |     |
| 26  | F040420   | BOLT-1/4-20X2                                 | 2   |     |          |             |     |
| 27  | F320408   | FLATWASHER-1/4                                | 4   |     |          |             |     |
| 28  | F210408   | LOCKNUT-1/4-20                                | 2   |     |          |             |     |
| 29  | 001677    | BLADE-CUTOFF - 24" WIDE                       | 1   |     |          |             |     |
| 30  | 001447.6  | MOUNT-CUTOFF BLADE                            | 1   |     |          |             |     |
| 31  | F470610   | BOLT-PLOW GR 5                                | 4   |     |          |             |     |
| 32  | F040626   | BOLT-3/8-16X2-3/4                             | 1   |     |          |             |     |
| 33  | 001507    | BUMPER-RUBBER                                 | 1   |     |          |             |     |
| 34  | 001764    | BUSHING-RUBBER BUMPER                         | 1   |     |          |             |     |
| 35  | 6115437.7 | BRACKET                                       | 1   |     |          |             |     |
| 36  | F040622   | BOLT-3/8-16X2-1/4                             | 1   |     |          |             |     |
| 37  | F210608   | LOCKNUT-3/8-16                                | 2   |     |          |             |     |
| 38  | 6115667.7 | ECCENTRIC SPRING CAM                          | 2   |     |          |             |     |
| 39  | 001424.6  | CLAMP-CUTOFF BLADE                            | 1   |     |          |             |     |
| 40  | F310608   | LOCKWASHER 3/8                                | 2   |     |          |             |     |
| 41  | 29-010    | GREASE FITTING                                | 2   |     |          |             |     |
| 42  | F230508   | NUT-5/16-18                                   | 4   |     |          |             |     |
| 43  | F320808   | WASHER-41/64 X 1-3/8 X 12                     | 4   |     |          |             |     |
| 44  | F041230   | SCREW 3/4 X 3 GR.8                            | 1   |     |          |             |     |

\* NOT ILLUSTRATED

FIGURE 10

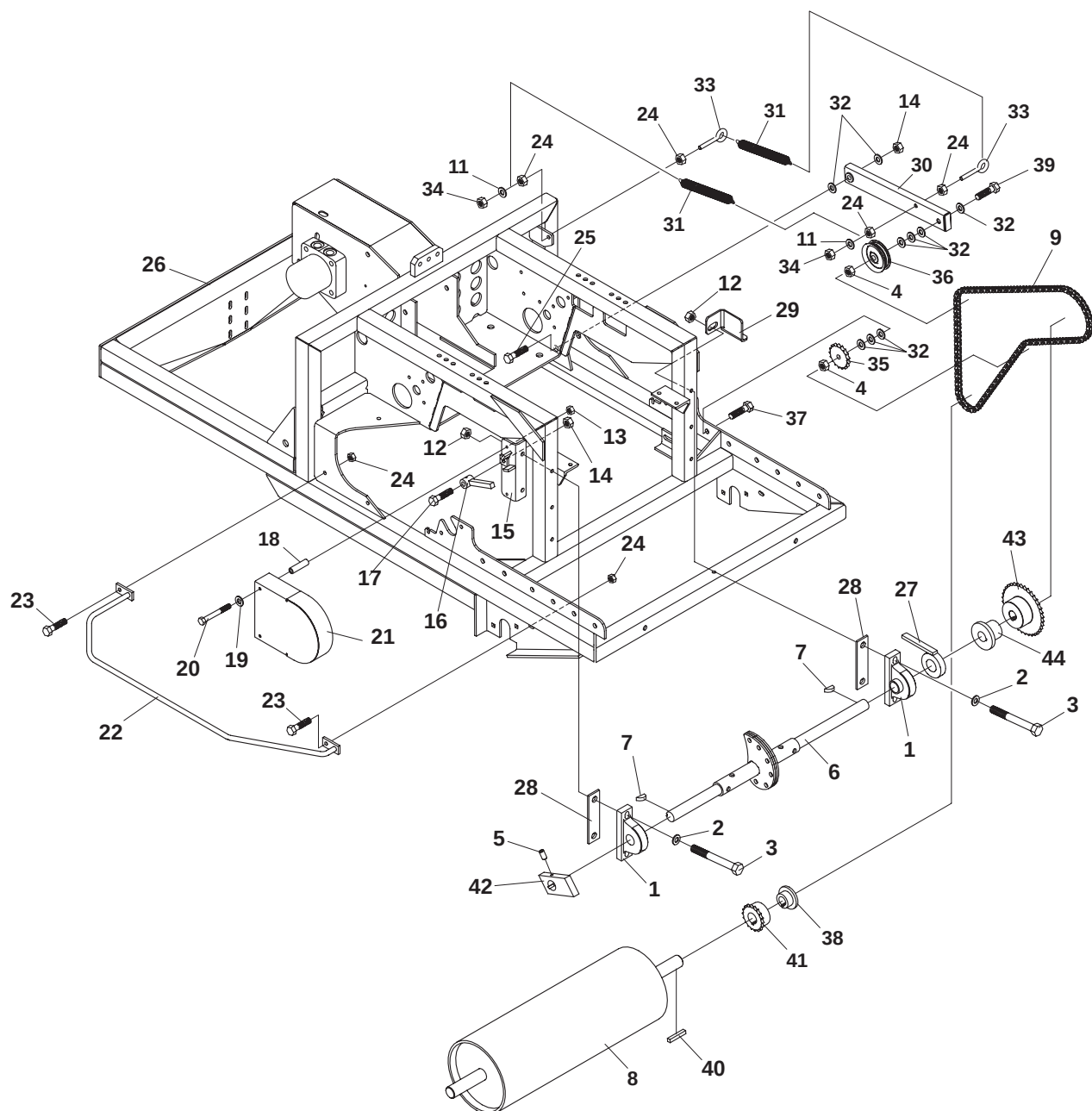


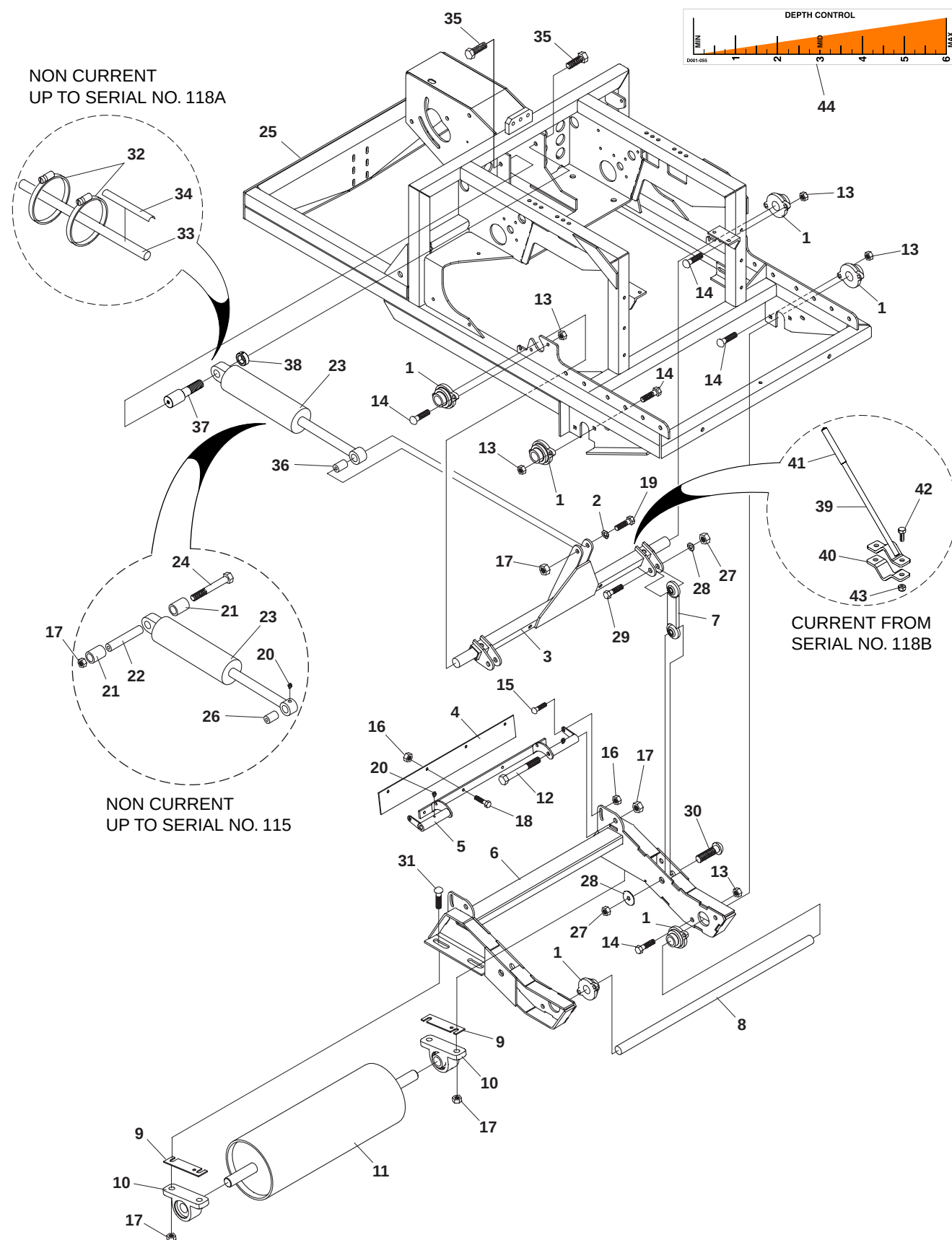
FIGURE 10

| ITM | PART NO.   | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION           | QTY |
|-----|------------|---------------------------|-----|-----|----------|-----------------------|-----|
| 1   | B1003      | BEARING-24"               | 2   | 39  | 64123-31 | BOLT-1/2-13X3         | 1   |
| 2   | F320708    | WASHER-1-1/32ODX15/32ID   | 4   | 40  | Q0579    | KEY-1/4 X 1/4 X 1-3/8 | 1   |
| 3   | F040740    | BOLT-7/16-14X4            | 4   | 41  | KD71812  | ROLLER SPROCKET 18T   | 1   |
| 4   | F840800    | NUT-WLF 1/2-13            | 2   |     |          | (USED ON 54" ONLY)    |     |
| 5   | F110606    | SET SCREW-3/8-16 X 3/4    | 1   |     | KD72212  | ROLLER SPROCKET 22T   | 1   |
| 6   | 4136472.6  | 24" CUT-OFF CAM FAST LIFT | 1   |     |          | (USED ON 60" ONLY)    |     |
| 7   | F924410    | KEY-1/4X1/4X1             | 2   |     |          |                       |     |
| 8   | 015995     | ROLLER-8" DIA. 12"        | 1   | 42  | 001789   | RETURN CAM            | 1   |
|     | 015996     | ROLLER-8" DIA. 15"        | 1   | 43  | KD80036  | CAMSHAFT SPROCKET 36T | 1   |
|     | 4160686    | ROLLER-8" DIA. 15.38" SP  | 1   | 43  | KD80037  | CAMSHAFT SPROCKET 37T | 1   |
|     | 015997     | ROLLER-8" DIA. 16"        | 1   | 43  | KD80038  | CAMSHAFT SPROCKET 38T | 1   |
|     | 015998     | ROLLER-8" DIA. 18"        | 1   |     |          | (USED ON 54" ONLY)    |     |
|     | 015999     | ROLLER-8" DIA. 24"        | 1   |     | KD80049  | CAMSHAFT SPROCKET 49T | 1   |
| 9   | 56-RC40    | CHAIN-ROLLER, #40         | 1   |     | KD80050  | CAMSHAFT SPROCKET 50T | 1   |
| 10* | 81-056     | CONNECTOR LINK-#40        | 1   |     |          | (USED ON 60" ONLY)    |     |
| 11  | F320608    | WASHER-.81X.406X16GA      | 2   |     |          |                       |     |
| 12  | F210708    | LOCKNUT-7/16-14           | 4   | 44  | 83-P118  | CAMSHAFT BUSHING      | 1   |
| 13  | F230408    | NUT-WLF 1/4-20            | 2   |     |          |                       |     |
| 14  | F210808    | LOCKNUT-1/2-13            | 2   |     |          |                       |     |
| 15  | 001558.7   | PLATE-RET CAM STOP MNT    | 1   |     |          |                       |     |
| 16  | 001557.7   | RETURN CAM STOP           | 1   |     |          |                       |     |
| 17  | F040924    | BOLT-HEX 1/2-13X2-1/2     | 1   |     |          |                       |     |
| 18  | 6115697    | TUBE-SHIELD STANDOFF      | 2   |     |          |                       |     |
| 19  | F320408    | WASHER-.256IDX.62ODX18    | 2   |     |          |                       |     |
| 20  | F040430    | BOLT-1/4 UNC X 3          | 2   |     |          |                       |     |
| 21  | 6115686.6  | SHIELD-CAM STOP           | 1   |     |          |                       |     |
| 22  | 6115676.6  | TOE GUARD                 | 1   |     |          |                       |     |
| 23  | F040610    | BOLT-WLF 3/8-16 X 1       | 2   |     |          |                       |     |
| 24  | F840600    | NUT-WLF 3/8-16            | 6   |     |          |                       |     |
| 25  | F040830    | BOLT-1/2-13 X 3           |     |     |          |                       |     |
| 26  | 4137626    | S-24" CUTTING HEAD        | 1   |     |          |                       |     |
| 27  | 001836.7   | INDICATOR-FULL LENGTH     | 1   |     |          |                       |     |
| 28  | 015761.7   | SHIM-CAMSHAFT 1/8"        | A/R |     |          |                       |     |
|     | 002653.7   | SHIM-CAMSHAFT 1/4"        | A/R |     |          |                       |     |
| 29  | 6115994.7  | TAB-INDICATOR             | 1   |     |          |                       |     |
| 30  | 6115877.7  | IDLER ARM                 | 1   |     |          |                       |     |
| 31  | S2003      | SPRING-EXTENSION          | 2   |     |          |                       |     |
| 32  | F320808    | WASHER-.516X1X12GA        | A/R |     |          |                       |     |
| 33  | F050640    | EYE-BOLT-3/8 X 3-7/8      | 2   |     |          |                       |     |
| 34  | F210608    | LOCKNUT-3/8-16            | 2   |     |          |                       |     |
| 35  | 83-4017E08 | IDLER                     | 1   |     |          |                       |     |
| 36  | D2902      | SHEAVE                    | 1   |     |          |                       |     |
| 37  | F040820    | BOLT-FLANGE 1/2-13 X 2    | 1   |     |          |                       |     |
| 38  | 83-H20     | BUSHING                   | 1   |     |          |                       |     |

# DEPTH CONTROL ASSEMBLY

**RoboMax**

**FIGURE 11**



**FIGURE 11**

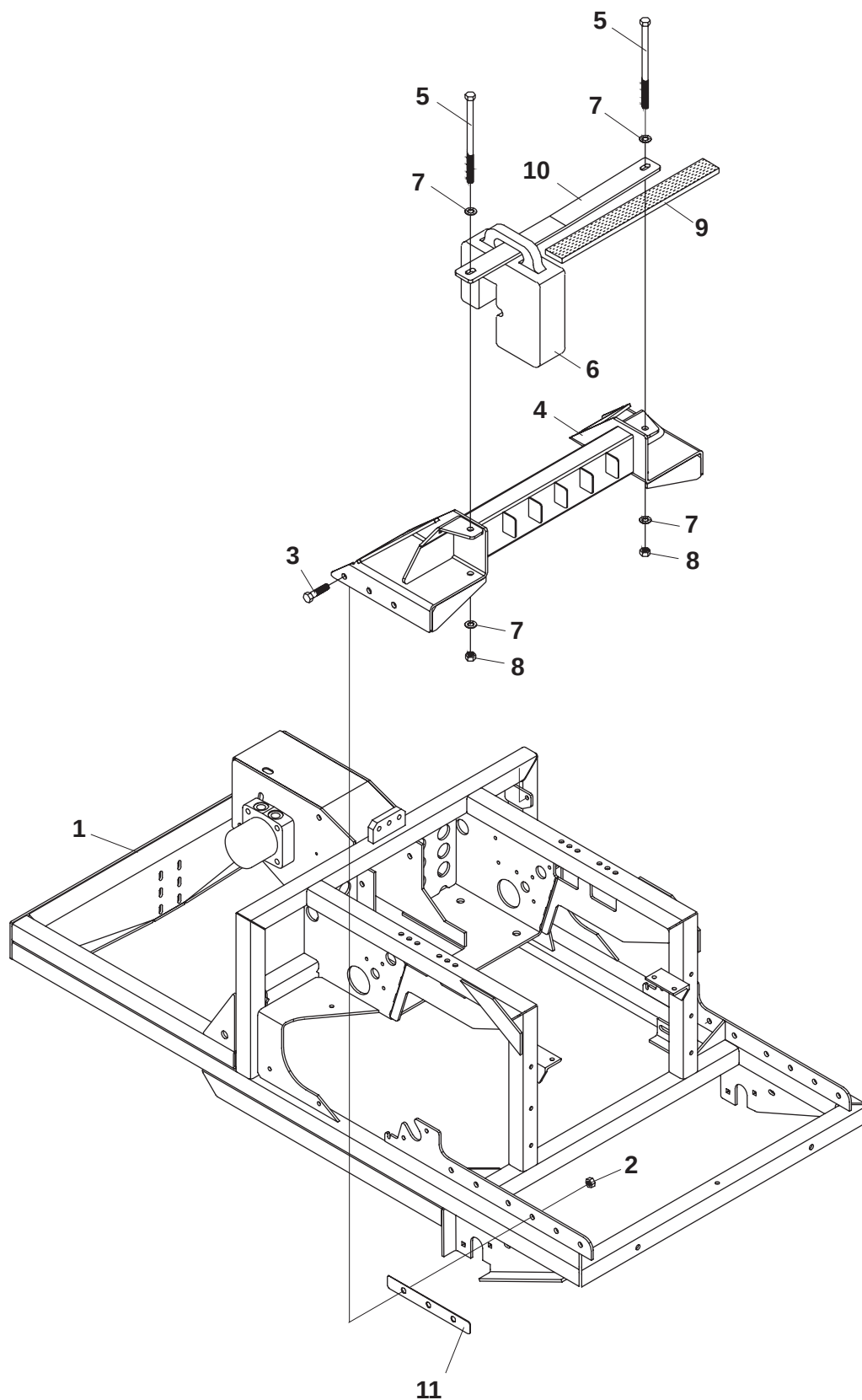
| ITM | PART NO. | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION               | QTY |
|-----|----------|---------------------------|-----|-----|----------|---------------------------|-----|
| 1   | B0122    | BEARING                   | 6   | 41  | 47-138   | HANDLE GRIP               | 1   |
| 2   | F310800  | LOCKWASHER-HELICAL 1/2    | 1   | 42  | F040612  | BOLT 3/8 UNC X 1 1/4 GR.8 | 2   |
| 3   | 6115975  | ROLLER DEPTH CRANK        | 1   | 43  | F210608  | LOCKNUT 3/8 UNC           | 2   |
| 4   | 4160687  | BLADE-SCRAPER 15.5" SP    | 1   | 44  | D001-055 | DECAL. DEPTH INDICATOR    | 1   |
|     | 001326   | BLADE-SCRAPER 16"         | 1   |     |          |                           |     |
|     | 001327   | BLADE-SCRAPER 18"         | 1   |     |          |                           |     |
|     | 001328   | BLADE-SCRAPER 24"         | 1   |     |          |                           |     |
| 5   | 6115509  | FRAME-SCRAPER             | 1   |     |          |                           |     |
| 6   | 6115888  | FRAME-ROLLER MOUNTING     | 1   |     |          |                           |     |
| 7   | 6115104  | LIFT LINK                 | 2   |     |          |                           |     |
| 8   | 6115477  | SHAFT-ROLLER MOUNT 24"    | 1   |     |          |                           |     |
| 9   | 002295   | SHIM-10GA.                | A/R |     |          |                           |     |
|     | 002296   | SHIM-16GA.                | A/R |     |          |                           |     |
| 10  | B1111    | BEARING                   | 2   |     |          |                           |     |
| 11  | 015995   | ROLLER-8" DIA. 12"        | 1   |     |          |                           |     |
|     | 015996   | ROLLER-8" DIA. 15"        | 1   |     |          |                           |     |
|     | 4160686  | ROLLER-8" DIA. 15.38" SP  | 1   |     |          |                           |     |
|     | 015997   | ROLLER-8" DIA. 16"        | 1   |     |          |                           |     |
|     | 015998   | ROLLER-8" DIA. 18"        | 1   |     |          |                           |     |
|     | 015999   | ROLLER-8" DIA. 24"        | 1   |     |          |                           |     |
| 12  | F040854  | BLT-HEX 1/2-13X5-1/2      | 2   |     |          |                           |     |
| 13  | F840600  | NUT-WLF 3/8-16            | 16  |     |          |                           |     |
| 14  | F020612  | BOLT-CRG 3/8-16X1-1/4     | 12  |     |          |                           |     |
| 15  | F020506  | BOLT-CRG 5/16-18 X 3/4    | 2   |     |          |                           |     |
| 16  | F230508  | NUT-5/16-18               | 7   |     |          |                           |     |
| 17  | F840800  | NUT-WLF 1/2-13            | 8   |     |          |                           |     |
| 18  | F040506  | BOLT-HEX 5/16-18X3/4      | 5   |     |          |                           |     |
| 19  | F040826  | BOLT-HEX 1/2-13X2-3/4     | 1   |     |          |                           |     |
| 20  | 29-010   | GREASE FITTING            | 3   |     |          |                           |     |
| 21  | 6115508  | TUBE                      | 2   |     |          |                           |     |
| 22  | 6109613  | PIVOT-CYLINDER, TUBE      | 1   |     |          |                           |     |
| 23  | 23-178   | CYLINDER-HYDRAULIC 3X8    | 1   |     |          |                           |     |
| 24  | 90-0856  | BOLT-/2-13X7 NC           | 1   |     |          |                           |     |
| 25  | 4137626  | S-24" CUTTING HEAD        | 1   |     |          |                           |     |
| 26  | 6115979  | SPACER                    | 1   |     |          |                           |     |
| 27  | F211008  | LOCKNUT-5/8-11            | 4   |     |          |                           |     |
| 28  | F321008  | WASHER-41/64 X 1-3/8 X 12 | 4   |     |          |                           |     |
| 29  | F041022  | BOLT-HEX 5/8-11 X 2-1/4   | 2   |     |          |                           |     |
| 30  | 99-K98   | BOLT-BHSCS 5/8-11 X 2-1/4 | 2   |     |          |                           |     |
| 31  | F020824  | BOLT-CARRIAGE             | 4   |     |          |                           |     |
| 32  | 11-020   | STAINLESS CLAMP           | 2   |     |          |                           |     |
| 33  | 002447   | ROD-DEPTH INDICATOR       | 1   |     |          |                           |     |
| 34  | 00-267   | LABEL-CUTTERHEAD DEPTH    | 1   |     |          |                           |     |
| 35  | F040810  | BOLT 1/2 UNC X 1 GR.8     | 2   |     |          |                           |     |
| 36  | 4160031  | SPACER                    | 1   |     |          |                           |     |
| 37  | 4160033  | PIN. CYLINDER PIVOT       | 1   |     |          |                           |     |
| 38  | 85-SC16  | SET COLLAR                | 1   |     |          |                           |     |
| 39  | 4160441  | DEPTH INDICATOR           | 1   |     |          |                           |     |
| 40  | 4160439  | BRACKET. DEPTH INDICATOR  | 1   |     |          |                           |     |

**NOTE**  
ITEMS 17, 20, 21, 22, 24 & 26 ARE  
NON CURRENT UP TO SERIAL  
NO. 115 AND ARE REPLACED BY  
ITEMS 35, 36, 37 & 38.

**NOTE**  
ITEMS 32, 33 & 34 ARE NON CURRENT  
UP TO SERIAL NO. 118A AND ARE  
REPLACED BY ITEMS 39, 40, 41,  
42, 43 & 44.

**NOTE**  
ITEMS 39, 40, 41, 42 & 43 ARE  
AVAILABLE AS DEPTH INDICATOR  
ASSEMBLY - 4160442.

FIGURE 12





**FIGURE 12**

| ITM | PART NO.  | DESCRIPTION              | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|--------------------------|-----|-----|----------|-------------|-----|
| 1   | 4137626   | S-24" CUTTING HEAD       | 1   |     |          |             |     |
| 2   | F840800   | NUT-WLF 1/2-13           | 6   |     |          |             |     |
| 3   | F040812   | BOLT-FLANGE 1/2-13X1-1/4 | 6   |     |          |             |     |
| 4   | 6115992.6 | WEIGHT BAR-24" HEAD      | 1   |     |          |             |     |
| 5   | 90-0868   | BOLT-HEX 1/2 X 8-1/2     | 2   |     |          |             |     |
| 6   | 62-540.7  | WEIGHT                   | 6   |     |          |             |     |
| 7   | 64163-67  | WASHER-.516X1X12GA       | 4   |     |          |             |     |
| 8   | 64229-05  | LOCKNUT-1/2-13           | 2   |     |          |             |     |
| 9   | Q7475     | WEATHERSTRIP-1/2 X 2 19" | 1   |     |          |             |     |
| 10  | 6115990.6 | BAR-HOLD DOWN            | 1   |     |          |             |     |
| 11  | 6109602.7 | SHIM-WEIGHT BAR          | A/R |     |          |             |     |

FIGURE 13

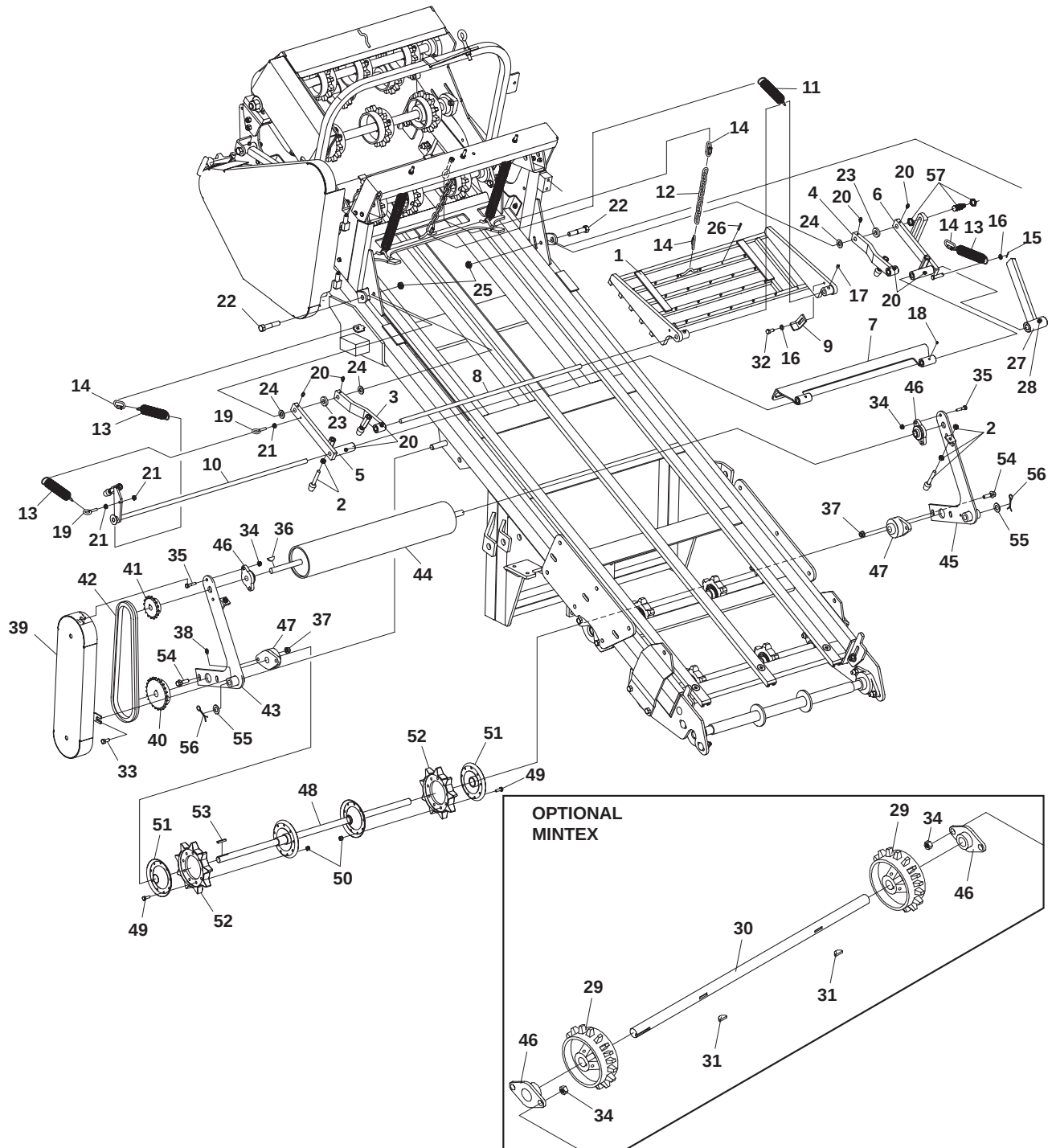
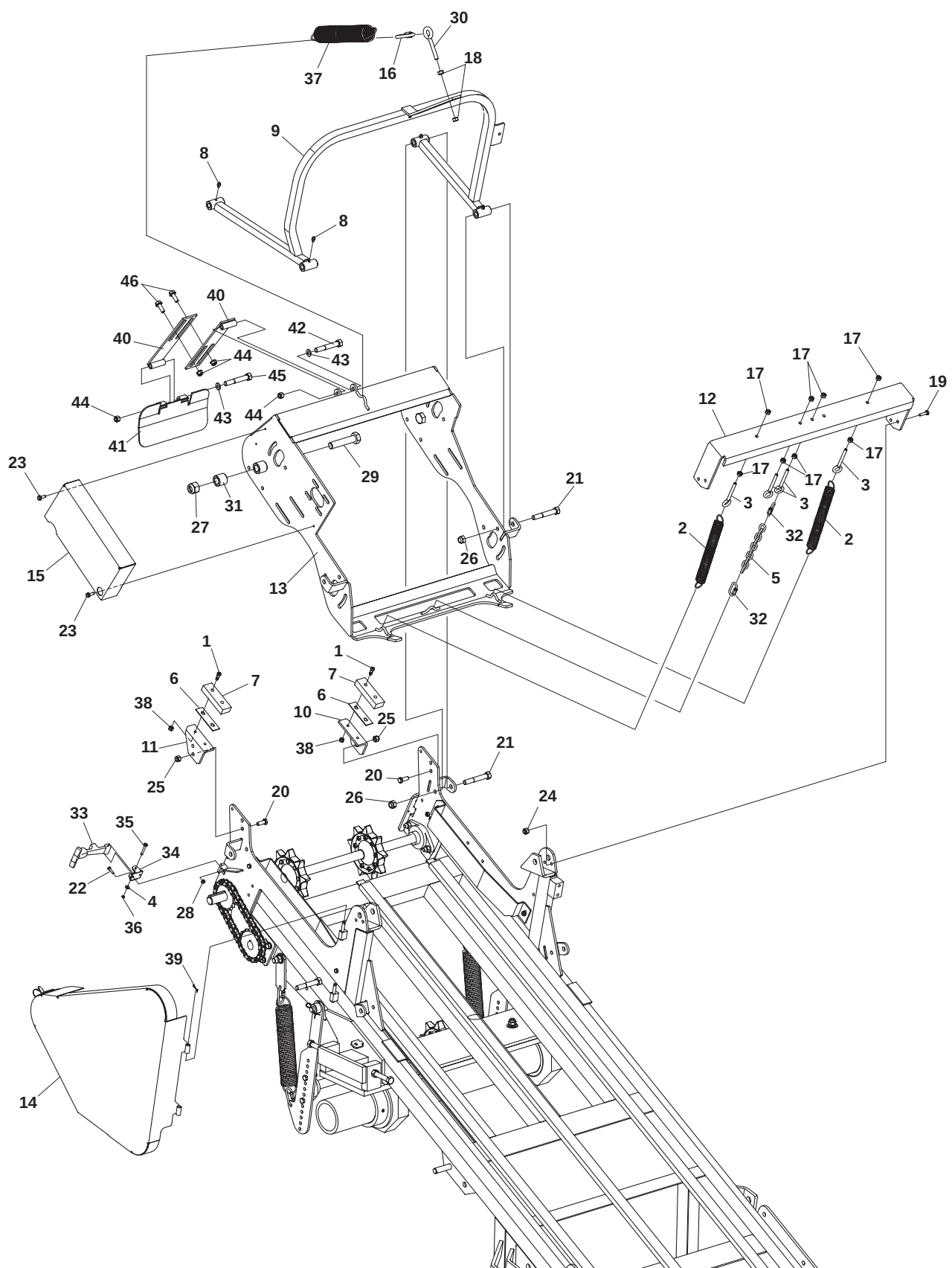


FIGURE 13

| ITM | PART NO.  | DESCRIPTION              | QTY | ITM | PART NO.  | DESCRIPTION                | QTY |
|-----|-----------|--------------------------|-----|-----|-----------|----------------------------|-----|
| 1   | 4160255   | STARTER TRAY-24". 4 BAR  | 1   | 47  | B0105     | BEARING                    | 2   |
|     | 4133514   | STARTER TRAY-24". 5 BAR  | 1   | 48  | 002611.7  | SHAFT-IDLER 24" ROLLER     | 1   |
| 2   | F3748     | BOLT-RUBBER HEAD 3/8-16  | 7   | 49  | 64123-89  | BOLT-HEX 1/4-20X3/4        | 18  |
| 3   | 6115859   | WLDMT-OFFSET LINK ARM    | 1   | 50  | F210408   | LOCKNUT-NYLON 1/4-20       | 18  |
| 4   | 6115860   | WLDMT-OFFSET LINK ARM    | 1   | 51  | D8001     | FLANGE, SPROCKET           | 2   |
| 5   | 6115857   | WLDMT-LINK ARM (RH)      | 1   | 52  | 83-053    | GEAR                       | 2   |
| 6   | 4139946   | WLDMT-LINK ARM (LH)      | 1   | 53  | Q0570     | KEY-3/16X3/16X1-1/4 SQ     | 1   |
| 7   | 6115825   | STARTER GATE-16 & 18"    | 1   | 54  | 64262-013 | BOLT-FLG HD 3/8-16 X 1-1/2 | 4   |
|     | 6115826   | STARTER GATE-24"         | 1   | 55  | F321000   | WASHER-.625X1.12X.062 PL   | 2   |
| 8   | 6115892   | ROD-STARTER TRAY, 24"    | 1   | 56  | F910514   | COTTER PIN-5/32 X 1-1/2    | 2   |
| 9   | 6115861.7 | STOP-STARTER TRAY        | 2   | 57  | 4132983   | SENSOR-INDUCTIVE 8MM       | 1   |
| 10  | 4139954.7 | WLDMT-24" PIVOT ROD      | 1   |     |           |                            |     |
| 11  | 001277    | SPRING-STARTER TRAY      | 1   |     |           |                            |     |
| 12  | Q8402     | CHAIN-STARTER TRAY       | 1   |     |           |                            |     |
| 13  | 001279    | SPRING-SCRAPER BLADE     | 3   |     |           |                            |     |
| 14  | G8084     | QUICK LINK-3/16 ZP       | 4   |     |           |                            |     |
| 15  | F910310   | COTTER PIN-3/32 X 1      | 1   |     |           |                            |     |
| 16  | F320608   | WASHER 3/8               | 3   |     |           |                            |     |
| 17  | 64044-2   | SET SCREW-5/16-18        | 2   |     |           |                            |     |
| 18  | 64044-13  | SCREW-SET 1/4-28 X 1/4   | 2   |     |           |                            |     |
| 19  | F050420   | EYE BOLT-1/4 X 2 W/9/16  | 2   |     |           |                            |     |
| 20  | KM11400   | GREASE FITTING-1/4-28    | 8   |     |           |                            |     |
| 21  | F840824   | NUT-WLF 1/4-20           | 3   |     |           |                            |     |
| 22  | F040824   | BOLT-HEX 1/2-13X2-1/2    | 2   |     |           |                            |     |
| 23  | 99-B12    | SPACER                   | 2   |     |           |                            |     |
| 24  | F320808   | WASHER-.516X1X12GA       | 4   |     |           |                            |     |
| 25  | F220800   | NUT-JAM NYLON INSERT     | 2   |     |           |                            |     |
| 26  | F940312   | PIN-SPRING TENSION       | 24  |     |           |                            |     |
| 27  | 4139958.7 | WLDMT-ROLL UP FLAG       | 1   |     |           |                            |     |
| 28  | F110610   | SCREW                    | 1   |     |           |                            |     |
| 29  | 001576    | SPROCKET, 4" CAST        | 2   |     |           |                            |     |
| 30  | 001407    | SHAFT, DRIVE- 4" ROLLER  | 1   |     |           |                            |     |
| 31  | 64164-19  | KEY WOODRUFF             | 2   |     |           |                            |     |
| 32  | F040506   | BOLT-HEX 5/16-18X3/4     | 3   |     |           |                            |     |
| 33  | F320500   | WASHER 5/16              | 3   |     |           |                            |     |
| 34  | F210508   | NUT-FL NYLON LOCK 1/4-20 | 4   |     |           |                            |     |
| 35  | F040412   | BOLT-HEX 1/4-20X1-1/4    | 4   |     |           |                            |     |
| 36  | F900310   | KEY-WOODRUFF #608        | 1   |     |           |                            |     |
| 37  | F840600   | NUT-FL NYLON LOCK 3/8-16 | 4   |     |           |                            |     |
| 38  | F910208   | COTTER PIN 1/8 X 1       | 2   |     |           |                            |     |
| 39  | 6115895.6 | GUARD-4" ROLLER DRIVE    | 1   |     |           |                            |     |
| 40  | KD72406   | SPROCKET-#40 X 24T X 3/4 | 1   |     |           |                            |     |
| 41  | KD71605   | SPROCKET-#40 X 16T X 3/8 | 1   |     |           |                            |     |
| 42  | Q8430     | CHAIN                    | 1   |     |           |                            |     |
|     | 81-056    | CONNECTOR LINK           | 1   |     |           |                            |     |
|     | 81-076    | HALF LINK                | 1   |     |           |                            |     |
| 43  | 001404.7  | 4" ROLLER ARM BASIC      | 1   |     |           |                            |     |
| 44  | 001437.7  | 4" ROLLER 24" MACHINE    | 1   |     |           |                            |     |
| 45  | 001405.7  | 4" L.H. ROLLER ARM       | 1   |     |           |                            |     |
| 46  | B0002     | 2-BOLT FLANGED BRG-5/8"  | 2   |     |           |                            |     |

FIGURE 14



**FIGURE 14**

| ITM | PART NO.  | DESCRIPTION              | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|--------------------------|-----|-----|----------|-------------|-----|
| 1   | F500503   | BOLT-SHOULDER 5/16X3/8   | 4   |     |          |             |     |
| 2   | 001279    | SPRING-SCRAPER BLADE     | 2   |     |          |             |     |
| 3   | 002102    | EYEBOLT-STARTER TRAY     | 4   |     |          |             |     |
| 4   | F320200   | WASHER-FLAT #10 SAE      | 1   |     |          |             |     |
| 5   | Q8402     | CHAIN-STARTER TRAY       | 1   |     |          |             |     |
| 6   | 016961    | SHIM-16 GA X 1 X 3-1/2   | 2   |     |          |             |     |
| 7   | 05-041    | BUMPER                   | 2   |     |          |             |     |
| 8   | KM11400   | GREASE FITTING-1/4-28    | 4   |     |          |             |     |
| 9   | 4129625.7 | WLDMT-ROLLUP TRAY        | 1   |     |          |             |     |
| 10  | 4129779.7 | ANGLE-ROLLUP             | 1   |     |          |             |     |
| 11  | 4129787.7 | ANGLE-ROLLUP             | 1   |     |          |             |     |
| 12  | 4137495   | S-BAR                    | 1   |     |          |             |     |
| 13  | 4137514   | S-WLDMT- ROLL-UP TRAY    | 1   |     |          |             |     |
| 14  | 4134747.6 | WLDMT-GUARD ROLL UP      | 1   |     |          |             |     |
| 15  | 4134758.6 | GUARD-ROLL UP            | 1   |     |          |             |     |
| 16  | 4134811   | LINK-QUICK 5/16          | 1   |     |          |             |     |
| 17  | F230558   | NUT-HEX 5/16-18          | 8   |     |          |             |     |
| 18  | F230608   | NUT-HEX 3/8-16           | 2   |     |          |             |     |
| 19  | F040410   | BOLT-HEX 1/4-20X1        | 4   |     |          |             |     |
| 20  | F230610   | BOLT-HEX 3/8-16X1        | 4   |     |          |             |     |
| 21  | F040832   | BOLT-HEX 1/2-13X3-1/4    | 4   |     |          |             |     |
| 22  | F540206   | MACH SCREW-10-24X3/4     | 2   |     |          |             |     |
| 23  | F840410   | BOLT-FLANGE 1/4-20X1     | 3   |     |          |             |     |
| 24  | F210408   | LOCKNUT-1/4-20           | 4   |     |          |             |     |
| 25  | F210608   | LOCKNUT-3/8-16           | 4   |     |          |             |     |
| 26  | F210808   | LOCKNUT-1/2-13           | 4   |     |          |             |     |
| 27  | F211208   | LOCKNUT-3/4-10           | 2   |     |          |             |     |
| 28  | F210200   | NUT-#10-24               | 2   |     |          |             |     |
| 29  | F091234   | BOLT-.75 X 3.50          | 2   |     |          |             |     |
| 30  | F050644   | EYE BOLT                 | 1   |     |          |             |     |
| 31  | 4135837   | BUSHING-NYLON            | 2   |     |          |             |     |
| 32  | G8084     | QUICK LINK-3/16 ZP       | 2   |     |          |             |     |
| 33  | G8115     | HANDLE                   | 1   |     |          |             |     |
| 34  | G8116     | BRACKET                  | 1   |     |          |             |     |
| 35  | G8117     | STUD                     | 1   |     |          |             |     |
| 36  | G8119     | RETAINER                 | 1   |     |          |             |     |
| 37  | S2003     | SPRING-EXTENSION         | 1   |     |          |             |     |
| 38  | F840400   | NUT-WLF 1/4-20           | 4   |     |          |             |     |
| 39  | F910112   | COTTER-HAIRPIN.08X1.19   | 2   |     |          |             |     |
| 40  | 4136095.7 | WLDMT-BRKT, END OF ROLL  | 2   |     |          |             |     |
| 41  | 4136092.7 | WLDMT-FLAP, END OF ROLL  | 1   |     |          |             |     |
| 42  | F040632   | BOLT-HEX 3/8-16X3-1/4    | 1   |     |          |             |     |
| 43  | F320608   | WASHER-.81X.406X16GA     | 2   |     |          |             |     |
| 44  | F210608   | NUT-FL NYLON LOCK 3/8-16 | 4   |     |          |             |     |
| 45  | F040650   | BOLT-HEX 3/8-16X5        | 1   |     |          |             |     |
| 46  | F850610   | BOLT-FLG HD 3/8-16 X 1   | 2   |     |          |             |     |

FIGURE 15

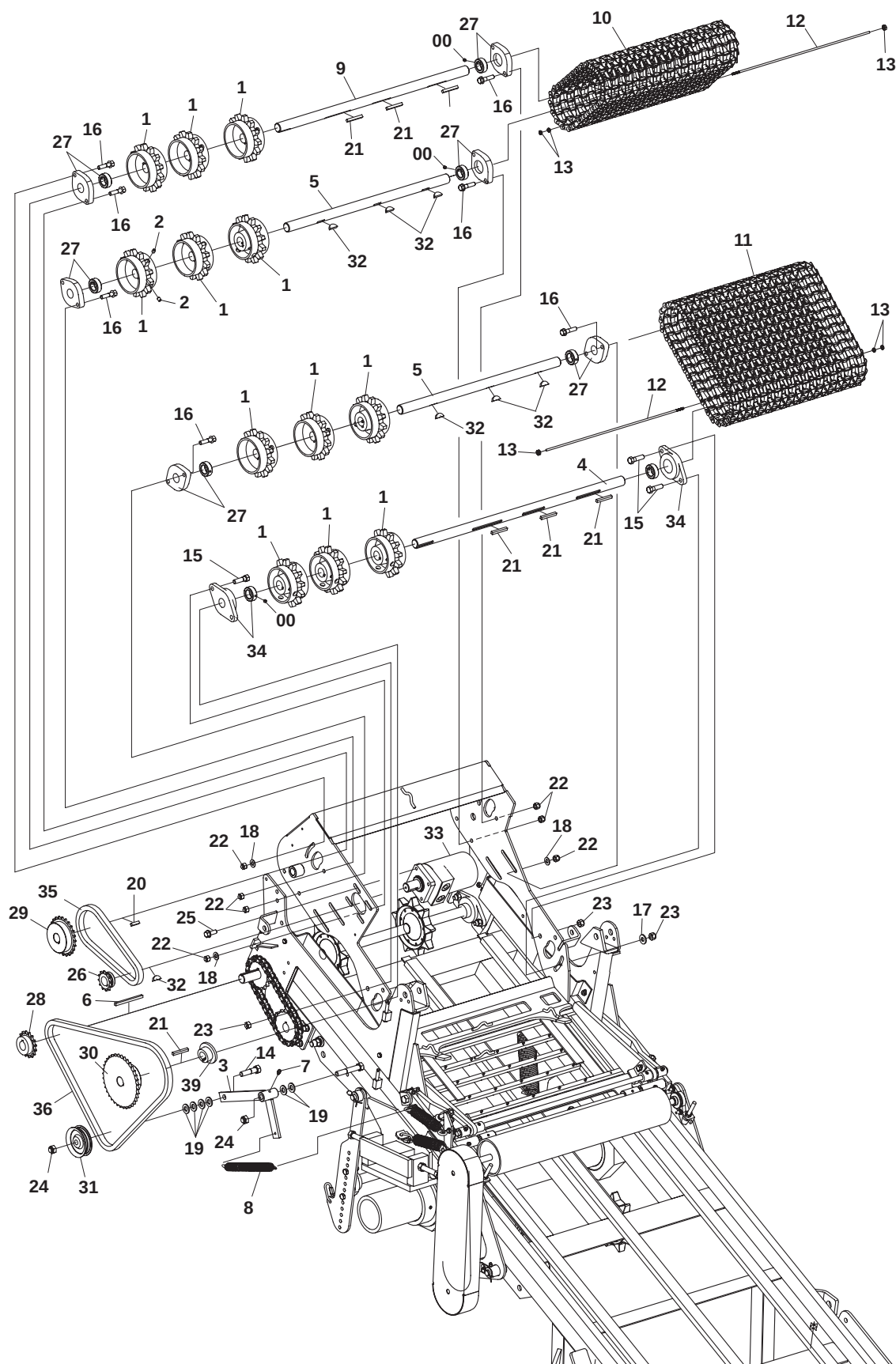


FIGURE 15

| ITM | PART NO.   | DESCRIPTION                                 | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|------------|---------------------------------------------|-----|-----|----------|-------------|-----|
| 1   | 001348     | GEAR<br>(INCLUDES ITEM 2)                   | 12  |     |          |             |     |
| 2   | F140503    | SCREW-SET 5/16-18X3/8                       | 24  |     |          |             |     |
| 3   | 001375.7   | IDLER ARM-ROLLUP DRIVE                      | 1   |     |          |             |     |
| 4   | 001390     | DRIVESHAFT-ROLL UP                          | 1   |     |          |             |     |
| 5   | 016720     | SHAFT-CONVEYOR DRIVE                        | 2   |     |          |             |     |
| 6   | Q0579      | KEY-1/4 X 1/4 X 3-5/8                       | 1   |     |          |             |     |
| 7   | KM11400    | GREASE FITTING-1/4-28                       | 1   |     |          |             |     |
| 8   | 41-047     | SPRING                                      | 1   |     |          |             |     |
| 9   | 4129654    | SHAFT-VERTICAL DRIVE                        | 1   |     |          |             |     |
| 10  | 4134808    | BELT-MINTEX 18"<br>(INCLUDES ITEMS 12 & 13) | 1   |     |          |             |     |
| 11  | 4134809    | BELT-MINTEX 18"<br>(INCLUDES ITEMS 12 & 13) | 1   |     |          |             |     |
| 12  | 001465     | CONNECTOR-18" MINTEX                        | 2   |     |          |             |     |
| 13  | F230200    | NUT-HEX-#10-24                              | 6   |     |          |             |     |
| 14  | F040822    | BOLT-HEX 1/2-13X2-1/4                       | 1   |     |          |             |     |
| 15  | F040714    | BOLT-HEX 7/16-14X1-1/2                      | 4   |     |          |             |     |
| 16  | F040604    | BOLT-WLF 3/8-16 X 1/2                       | 12  |     |          |             |     |
| 17  | F330708    | WASHER-.443/.454X1X11GA                     | 2   |     |          |             |     |
| 18  | F330608    | WSHR .81X.406X16                            | 6   |     |          |             |     |
| 19  | F320808    | WASHER-.516X1X12GA                          | 6   |     |          |             |     |
| 20  | F924410    | KEY-1/4X1/4X1 SQ                            | 1   |     |          |             |     |
| 21  | F924420    | KEY-1/4X1/4X2 SQ                            | 7   |     |          |             |     |
| 22  | F210608    | LOCKNUT-3/8-16                              | 12  |     |          |             |     |
| 23  | F210707    | LOCKNUT-7/16-14                             | 4   |     |          |             |     |
| 24  | F210808    | LOCKNUT-1/2-13                              | 2   |     |          |             |     |
| 25  | F040610    | BOLT-WLF 3/8-16X1                           | 4   |     |          |             |     |
| 26  | KD71210    | SPROCKET-#40 12-TOOTH                       | 1   |     |          |             |     |
| 27  | B0121      | BEARING-2 BOLT FLANGE                       | 6   |     |          |             |     |
| 28  | KD80016    | DRIVESHAFT SPROCKET                         | 1   |     |          |             |     |
| 29  | KD80024    | SPROCKET-#40 X 24T                          | 1   |     |          |             |     |
| 30  | KD80036    | ROLL UP SPROCKET                            | 1   |     |          |             |     |
| 31  | D2902      | SHEAVE-BELT IDLER                           | 1   |     |          |             |     |
| 32  | F924410    | KEY - 1/4 X 1/4 X 1"                        | 7   |     |          |             |     |
| 33  | H0012      | MOTOR - OBSOLETE                            | 1   |     |          |             |     |
|     | KH30007    | MOTOR - SEE NOTE 1                          | 1   |     |          |             |     |
| 34  | 55-FB23016 | BEARING-2 BOLT FLANGE                       | 2   |     |          |             |     |
| 35  | Q8430      | CHAIN-CUT OFF LENGTH 24"                    | 1   |     |          |             |     |
| 36  | Q8430      | CHAIN-CUT OFF LENGTH 51.6"                  | 1   |     |          |             |     |
| 37* | 81-056     | LINK-CONNECTOR #40                          | 2   |     |          |             |     |
| 38* | 81-076     | HALF LINK #40                               | 2   |     |          |             |     |
| 39  | 83-P116    | BUSHING                                     | 1   |     |          |             |     |

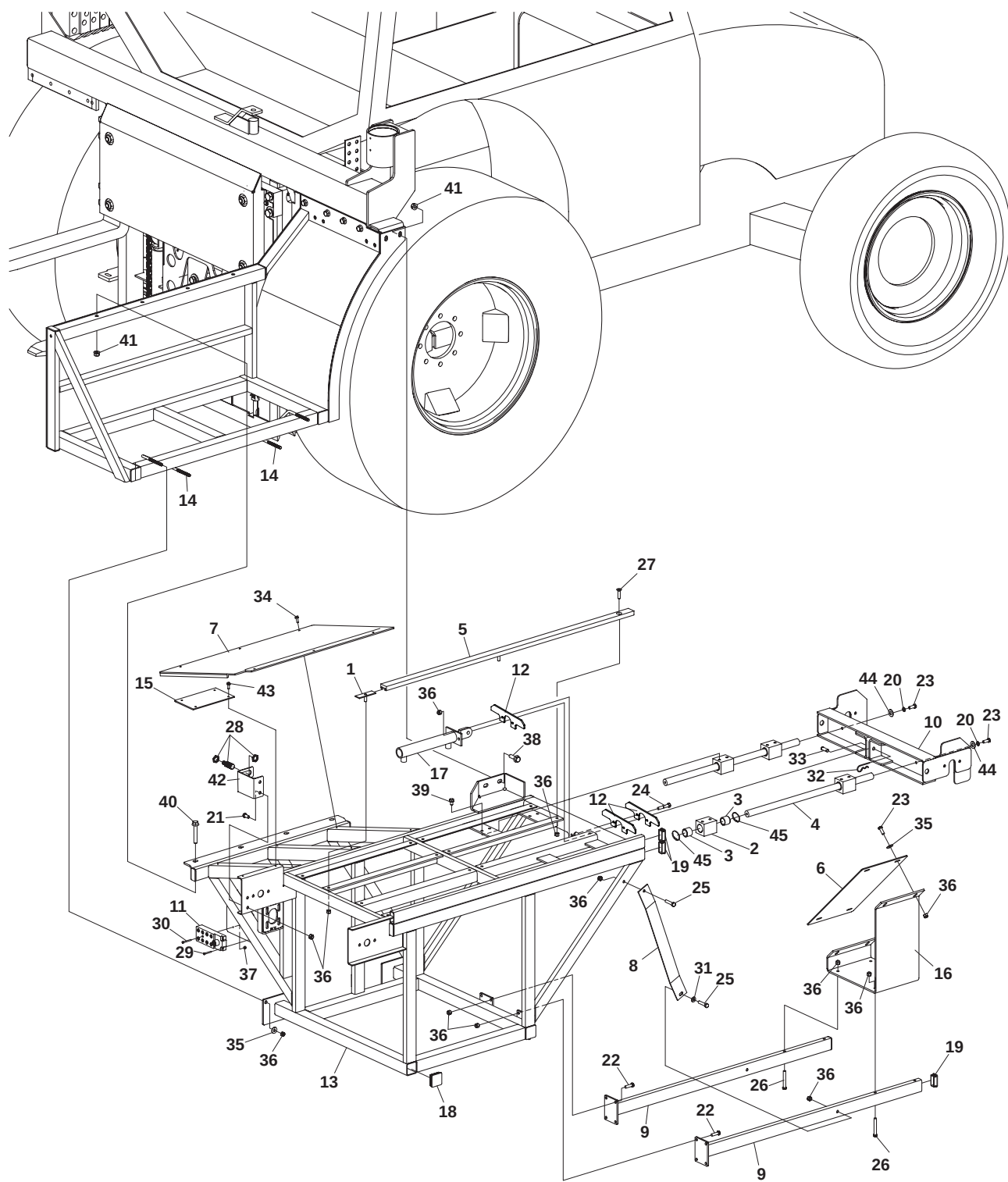
**NOTE 1**

ITEM 33 - H0012 IS OBSOLETE  
AND IS REPLACED BY SERVICE KIT  
4160611. IT INCLUDES:  
MOTOR - KH30007 QTY. 1  
FITTINGS - 8-10-070220. QTY. 2

**\*NOT ILLUSTRATED**



FIGURE 16





**FIGURE 16**

| ITM | PART NO.  | DESCRIPTION                | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|----------------------------|-----|-----|----------|-------------|-----|
| 1   | 016661    | SLIDER-T-BOLT              | 8   |     |          |             |     |
| 2   | 4128917   | BLOCK-GUIDE                | 4   |     |          |             |     |
| 3   | 4128942   | BEARING-SLEEVE             | 8   |     |          |             |     |
| 4   | 4129177   | SHAFT-GUIDE                | 2   |     |          |             |     |
| 5   | 4129323   | SLIDER-INDEX CONVEYOR      | 4   |     |          |             |     |
| 6   | 4135608.7 | PLATE-BAD ROLL SLIDE       | 1   |     |          |             |     |
| 7   | 4160406   | GUARD                      | 1   |     |          |             |     |
| 8   | 4129996.7 | BRACE-INDEX CONVEYOR       | 1   |     |          |             |     |
| 9   | 4130022.7 | WLDMT-SOD DEFLECTOR        | 2   |     |          |             |     |
| 10  | 4137493   | S-WLDMT-BRKT BAD ROLL      | 1   |     |          |             |     |
| 11  | 4131970   | JUNCTION BOX-8 PORT        | 1   |     |          |             |     |
| 12  | 4160493   | BRACKET-SPACER             | 3   |     |          |             |     |
| 13  | 4160400   | S-WLDMT-INDEX CONVEYOR     | 1   |     |          |             |     |
| 14  | 4132982   | U-BOLT                     | 2   |     |          |             |     |
| 15  | 4160420   | GUARD-MOTOR                | 1   |     |          |             |     |
| 16  | 4129438.7 | BRACKET-TURF-DEFLECTOR     | 1   |     |          |             |     |
| 17  | 4131860   | CYLINDER-1.25X.625X8.0     | 1   |     |          |             |     |
| 18  | 4134550   | CAPPLUGS-2 X 2             | 2   |     |          |             |     |
| 19  | 4134551   | CAPPLUGS-1 X 2             | 8   |     |          |             |     |
| 20  | F310608   | WASHER-3/8 HELICAL LOCK    | 2   |     |          |             |     |
| 21  | F040606   | BOLT-3/8-16X3/4 HEX        | 21  |     |          |             |     |
| 22  | F040612   | BOLT-HEX 3/8-16X1-1/4      | 8   |     |          |             |     |
| 23  | F040610   | BOLT-HEX 3/8-16X1          | 6   |     |          |             |     |
| 24  | F040620   | BOLT-HEX 3/8-16X2          | 2   |     |          |             |     |
| 25  | F040616   | BOLT-HEX 3/8-16X1-3/4      | 2   |     |          |             |     |
| 26  | F040626   | BOLT-HEX 3/8-16X2-3/4      | 4   |     |          |             |     |
| 27  | F120614   | FLT-HEX SCR 3/8-16 1-1/2   | 4   |     |          |             |     |
| 28  | 4132983   | SENSOR-INDUCTIVE 8MM       | 1   |     |          |             |     |
| 29  | F180112   | 8-32 X 1-1/4 HEX SOC SCR   | 2   |     |          |             |     |
| 30  | F180114   | 8-32 X 1-1/2 HEX SOC SCR   | 1   |     |          |             |     |
| 31  | F330608   | WASHER-.81X.406X16GA       | 1   |     |          |             |     |
| 32  | F910224   | COTTER-HAIRPIN 1/8x1 1/2   | 1   |     |          |             |     |
| 33  | KX00814   | PIN-CLEVIS 1/2X1-1/2       | 1   |     |          |             |     |
| 34  | F870406   | BLT-TDFM 1/4-20X3/4        | 6   |     |          |             |     |
| 35  | F330608   | WASHER-25/64X1X12          | 8   |     |          |             |     |
| 36  | F210608   | LOCKNUT-NYLON 3/8-16       | 40  |     |          |             |     |
| 37  | F210100   | LOCKNUT-NYLON INS #8-32    | 3   |     |          |             |     |
| 38  | F870814   | BOLT-FLG HD 1/2-13 X 1-1/2 | 2   |     |          |             |     |
| 39  | F870604   | BOLT-FLG HD 3/8-16 X 1/2   | 8   |     |          |             |     |
| 40  | F870830   | BOLT-FLG HD 1/2-13 X 3     | 4   |     |          |             |     |
| 41  | F840800   | NUT-FL NYLON LOCK 1/2-13   | 6   |     |          |             |     |
| 42  | 4131986.7 | BRACKET-SENSOR, MOTOR      | 1   |     |          |             |     |
| 43  | F870406   | BOLT-WLF 1/4-20X3/4        | 4   |     |          |             |     |
|     | 04-009    | INSERT, 1/4-20             | 4   |     |          |             |     |
| 44  | F330608   | WASHER                     | 2   |     |          |             |     |
| 45  | F815125   | INTERNAL RETAINING RING    | 8   |     |          |             |     |
| 46  | 4160280   | DUST SHIELD. OIL COOLER    | 1   |     |          |             |     |
| 47  | F040614   | BOLT 3/8 UNC X 1 1/2 GR.8  | 4   |     |          |             |     |

FIGURE 17

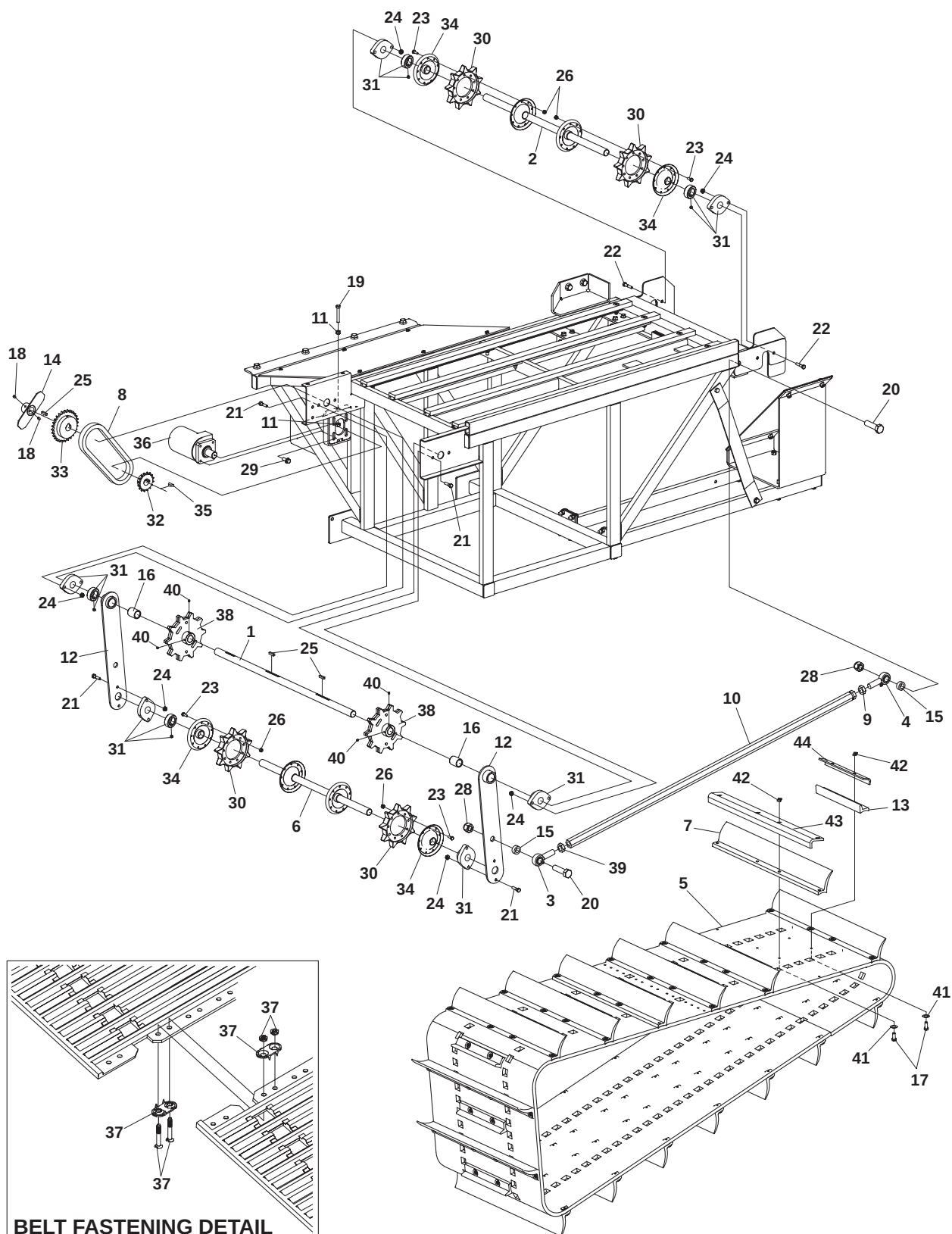


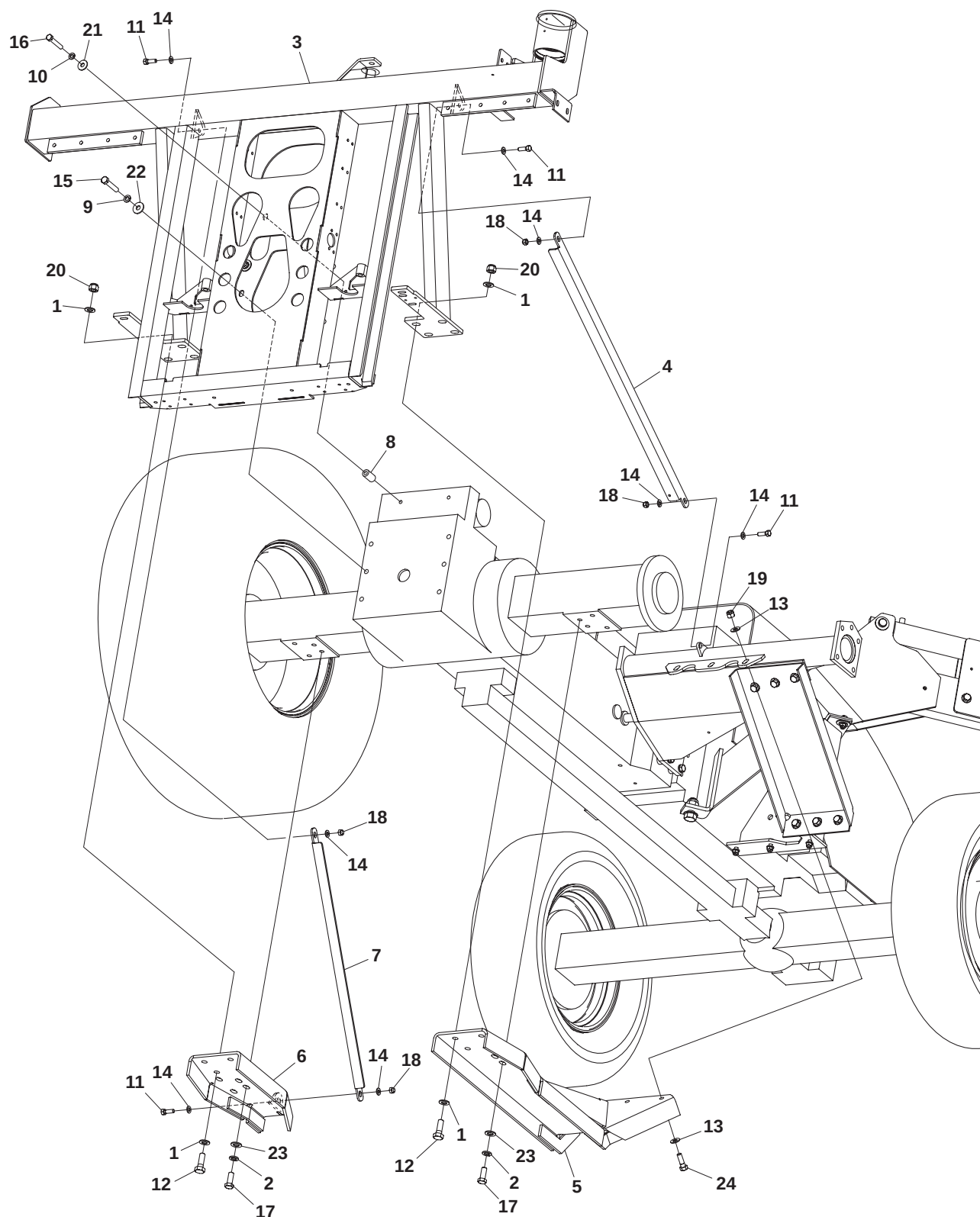
FIGURE 17

| ITM | PART NO.   | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|------------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | 4137005    | SHAFT-INDEX CON. DRIVE    | 1   |     |          |             |     |
| 2   | 4136960.7  | WLDMT-IDLER FRONT         | 1   |     |          |             |     |
| 3   | 2188142-03 | ROD-END 3/4               | 2   |     |          |             |     |
| 4   | 2188142-04 | ROD-END 3/4 LH            | 2   |     |          |             |     |
| 5   | 4129322    | BELT-CONVEYOR, 24" INDEX  | 1   |     |          |             |     |
| 6   | 4136926.7  | WLDMT-REAR INDEX IDLER    | 1   |     |          |             |     |
| 7   | 4131919    | CLEAT-RUBBER              | 16  |     |          |             |     |
| 8   | G8430      | CHAIN-INDEX CONVEYOR      | 1   |     |          |             |     |
| 9   | F221218    | NUT-HEX JAM 3/4-16 LH     | 2   |     |          |             |     |
| 10  | 4131990.6  | LINKAGE-TIE               | 2   |     |          |             |     |
| 11  | 64141-4    | NUT-WLF 3/8-16            | 2   |     |          |             |     |
| 12  | 4133218.7  | WLDMT-TENSION ARM IDLER   | 2   |     |          |             |     |
| 13  | 4133515    | CLEAT-RUBBER              | 16  |     |          |             |     |
| 14  | 4134059.7  | WLDMT-SENSOR FLAG         | 1   |     |          |             |     |
| 15  | 4134399    | SPACER                    | 4   |     |          |             |     |
| 16  | 4134452    | BEARING-SLEEVE            | 2   |     |          |             |     |
| 17  | F040414    | BOLT-1/4-20X1-1/2         | 96  |     |          |             |     |
| 18  | F040503    | SET SCREW-5/16-18         | 2   |     |          |             |     |
| 19  | F040624    | BOLT-HEX 3/8-16X2-1/2     | 1   |     |          |             |     |
| 20  | F041226    | BOLT-HEX 3/4-10X2-3/4     | 4   |     |          |             |     |
| 21  | F040614    | BOLT-HEX 3/8-16X1-1/2     | 8   |     |          |             |     |
| 22  | F040614    | BOLT-HEX 3/8-16X1-1/2     | 4   |     |          |             |     |
| 23  | F040406    | BOLT-HEX 1/4-20X3/4       | 36  |     |          |             |     |
| 24  | F840600    | NUT-WLF 3/8-16            | 12  |     |          |             |     |
| 25  | F924410    | KEY-1/4X1/4X1 SQ END      | 1   |     |          |             |     |
| 26  | F210408    | LOCKNUT-1/4-20            | 36  |     |          |             |     |
| 27  | F210608    | LOCKNUT-3/8-16            | 30  |     |          |             |     |
| 28  | F211258    | LOCKNUT-3/4-10            | 4   |     |          |             |     |
| 29  | F870610    | BLT-WLF 3/8-16 X 1        | 4   |     |          |             |     |
| 30  | 83-053     | GEAR                      | 4   |     |          |             |     |
| 31  | B0121      | BEARING-1", 2 BOLT FLANGE | 6   |     |          |             |     |
| 32  | D1103      | SPROCKET-#40 X 15T        | 1   |     |          |             |     |
| 33  | D1116      | SPROCKET-#40 X 28T X 1"   | 1   |     |          |             |     |
| 34  | D8001      | FLANGE-SPROCKET           | 4   |     |          |             |     |
| 35  | G8019      | KEY-WOODRUFF 1/4 X 1"     | 1   |     |          |             |     |
| 36  | H0012      | MOTOR - OBSOLETE          | 1   |     |          |             |     |
|     | KH30007    | MOTOR - SEE NOTE 1        | 1   |     |          |             |     |
| 37  | G8008      | MAT SPLICER               | 7   |     |          |             |     |
| 38  | 4135600.7  | WLDMT-10 TOOTH SPRCKT     | 26  |     |          |             |     |
| 39  | F221200    | NUT-HEX JAM 3/4-16        | 46  |     |          |             |     |
| 40  | F140403    | SCREW-SET 1/4-20X3/8      | 46  |     |          |             |     |
| 41  | F330400    | WASHER                    | 96  |     |          |             |     |
| 42  | 64229-01   | LOCKNUT-1/4-20            | 9   |     |          |             |     |
| 43  | 4140214    | METAL STRIP-CLEAT         | 1   |     |          |             |     |
| 44  | 4140215    | METAL STRIP-CLEAT         | 1   |     |          |             |     |

**NOTE 1**

ITEM 36 - H0012 IS OBSOLETE  
AND IS REPLACED BY SERIVCE KIT  
4160611. IT INCLUDES:  
MOTOR - KH30007 QTY. 1  
FITTINGS - 8-10-070220. QTY. 2

FIGURE 18



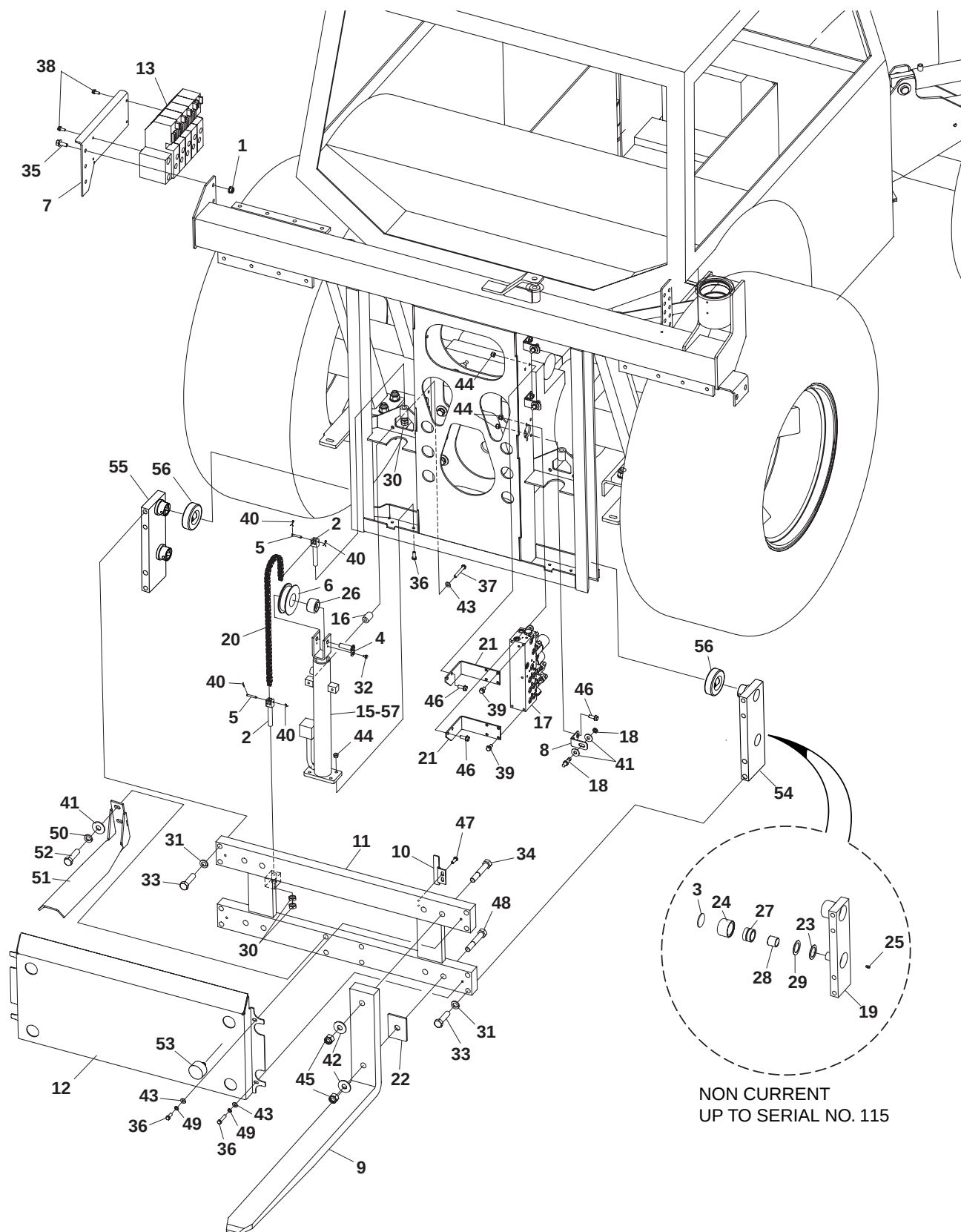
**FIGURE 18**

| ITM | PART NO.  | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | F331208   | FLAT WASHER-3/4 SAE       | 16  |     |          |             |     |
| 2   | G312000   | LOCKWASHER-20MM           | 8   |     |          |             |     |
| 3   | 4129220.7 | WLDMT-MOUNT ROBOMAX       | 1   |     |          |             |     |
| 4   | 4130529.7 | BAR-TRACKING              | 1   |     |          |             |     |
| 5   | 4132366.7 | WLDMT-SUPPORT REAR        | 1   |     |          |             |     |
| 6   | 4132432.7 | WLDMT-SUPPORT REAR        | 1   |     |          |             |     |
| 7   | 4132444.7 | BAR-TRACKING              | 1   |     |          |             |     |
| 8   | 4132943   | SPACER-1-1/16"ODX1/4"X1.8 | 2   |     |          |             |     |
| 9   | F311008   | LOCKWASHER-HELICAL 5/8    | 6   |     |          |             |     |
| 10  | F310908   | LOCKWASHER-HELICAL 9/16   | 2   |     |          |             |     |
| 11  | F040814   | BOLT-HEX 1/2-13X1-1/2     | 4   |     |          |             |     |
| 12  | F041222   | BOLT-HEX 3/4-10X2-1/4     | 8   |     |          |             |     |
| 13  | F331008   | WASHER-41/64X1-3/8X12GA   | 6   |     |          |             |     |
| 14  | F330808   | WASHER-.516X1X12GA        | 8   |     |          |             |     |
| 15  | G0816080  | BOLT-MET M16-1.5X80       | 6   |     |          |             |     |
| 16  | G0814080  | BOLT-MET M14-1.5X80       | 2   |     |          |             |     |
| 17  | G0818045  | BOLT-MET M18-1.5X45       | 8   |     |          |             |     |
| 18  | F210808   | LOCKNUT-1/2-13            | 4   |     |          |             |     |
| 19  | F211008   | LOCKNUT-5/8-11            | 3   |     |          |             |     |
| 20  | F211212   | FLANGED NUT-3/4-10        | 8   |     |          |             |     |
| 21  | G321400   | WASHER-FLAT M14           | 2   |     |          |             |     |
| 22  | G321600   | WASHER-FLAT M16           | 6   |     |          |             |     |
| 23  | G3211000  | WASHER-FLAT M20           | 8   |     |          |             |     |
| 24  | F041020   | BOLT-HEX 5/8-11 X 2 NC    | 3   |     |          |             |     |

**NOTE**

ITEM 3 - IF REPLACING ON UNITS  
PRIOR TO SERIAL NO. 116 THE  
FOLLOWING PARTS MUST BE  
ORDERED: 4160103 - SUPPORT L.H.  
4140104 - SUPPORT R.H.  
KB10001 - COMBINATION  
BEARING  
(SEE PAGE 42 ITEMS 54, 55 & 56.)

FIGURE 19



NON CURRENT  
UP TO SERIAL NO. 115

## FIGURE 19

| ITM | PART NO.    | DESCRIPTION              | QTY | ITM | PART NO.  | DESCRIPTION                 | QTY |
|-----|-------------|--------------------------|-----|-----|-----------|-----------------------------|-----|
| 1   | F210805     | NUT-FL NYLON LOCK 1/2-13 | 3   | 41  | F330808   | WASHER-33/64X1-1/4X12GA     | 10  |
| 2   | 4160117     | BOLT-CHAIN ANCHOR        | 4   | 42  | 64163-57  | WASHER                      | 4   |
| 3   | 202769      | FROST PLUG               | 4   | 43  | F330608   | WASHER-.81X.406X16GA        | 10  |
| 4   | 202771      | WLDMT-SHAFT LIFT SHEAVE  | 2   | 44  | F210600   | LOCKNUT-3/8-16              | 18  |
| 5   | 202779      | CLEVIS PIN-LIFT CHAIN    | 4   | 45  | F211212   | FLANGED NUT-3/4-10          | 4   |
| 6   | 4129416     | SHEAVE                   | 2   | 46  | F870610   | BOLT-FLG HD 3/8-16 X 1      | 10  |
| 7   | 4129425     | S-BRKT-VALVE MOUNT       | 1   | 47  | F870606   | BOLT-WLF 3/8-16X3/4         | 2   |
| 8   | 4129705.7   | BRKT-PROXIMITY SENSOR    | 3   | 48  | F041250   | BOLT-3/4-10 X 5-1/2         | 2   |
| 9   | 4139411     | FORKS                    | 2   | 49  | F310608   | WASHER-HELICAL LOCK, 3/8    | 4   |
| 10  | 4130663.7   | FLAG                     | 1   | 50  | F310808   | LOCKWSHR-HELICAL 1/2        | 4   |
| 11  | 4130668.7   | WLDMT-MOUNT FORKS        | 1   | 51  | 4137205.7 | WLDMT-CENTERING BARS        | 2   |
| 12  | 4140748.6   | COVER-FORKS              | 1   | 52  | F040814   | BOLT-HEX 1/2-13X1-1/2       | 4   |
| 13  | 4131610     | VALVE-PROPORTIONAL       | 1   | 53  | 05-042    | ISOLATOR. RUBBER            | 1   |
| 14  | 4132178.7   | WLDMT-ROLLER PLATE, LH   | 1   | 54  | 4160103   | ROLLER PLATE. RH            | 1   |
| 15  | 4132569     | CYLINDER-PALLET LIFT     | 2   |     |           | CURRENT FROM SERIAL NO. 116 |     |
| 16  | 4132663     | SPACER-BUSHING           | 4   | 55  | 4160104   | ROLLER PLATE. LH            | 1   |
| 17  | 4134062     | MANIFOLD-GRIPPER/PALLET  | 1   |     |           | CURRENT FROM SERIAL NO. 116 |     |
| 18  | 4132981     | SENSOR-INDUCTIVE 4MM     | 3   | 56  | KB10001   | COMBINATION BEARING         | 4   |
| 19  | 4133011.7   | WLDMT-ROLLER PLATE, RH   | 1   | 57  | 4160105   | REPAIR KIT. PALLET CYL.     | 1   |
| 20  | 4133017     | CHAIN-28.12" PALLET LIFT | 2   |     |           |                             |     |
| 21  | 4138809.7   | BRKT-GRIPPER MANIFOLD    | 2   |     |           |                             |     |
| 22  | 4134962.7   | SHIM-FORK                | A/R |     |           |                             |     |
| 23  | 99-B31      | WASHER-MACH 1-1/2ID 14GA | 4   |     |           |                             |     |
| 24  | 5202768     | RING-RAIL BEARING        | 4   |     |           |                             |     |
| 25  | 29-010      | GREASE FITTING-1/4-28    | 4   |     |           |                             |     |
| 26  | 55-CYR-2-S  | BEARING-2 OD X 5/8 ID    | 2   |     |           |                             |     |
| 27  | 55-GR-22    | BEARING-ROLLER 1-3/8     | 4   |     |           |                             |     |
| 28  | 55-MI-18    | BEARING-INNER RING 1-1/8 | 4   |     |           |                             |     |
| 29  | 55-TRC-2435 | WASHER-THRUST            | 4   |     |           |                             |     |
| 30  | F221000     | NUT-HEX JAM,5/8-18       | 8   |     |           |                             |     |
| 31  | F311200     | WASHER-HELICAL LOCK, 3/4 | 8   |     |           |                             |     |
| 32  | F090403     | BOLT-HEX 1/4-20X3/8      | 2   |     |           |                             |     |
| 33  | F041226     | BOLT-HEX 3/4-10X2-3/4    | 8   |     |           |                             |     |
| 34  | F041244     | BLT-HEX 3/4-10 X 5       | 2   |     |           |                             |     |
| 35  | F040834     | BOLT-HEX 1/2-13X1-1/4    | 3   |     |           |                             |     |
| 36  | F040610     | BOLT-HEX 3/8-16X1        | 16  |     |           |                             |     |
| 37  | F040626     | BOLT-HEX 3/8-16X2-3/4    | 4   |     |           |                             |     |
| 38  | F040506     | BOLT-WLF 5/16-18X3/4     | 4   |     |           |                             |     |
| 39  | F040606     | BOLT-WLF 3/8-16X3/4      | 4   |     |           |                             |     |
| 40  | F910104     | COTTER PIN-1/16X1/2      | 8   |     |           |                             |     |

### NOTE

ITEMS 3, 14, 19, 23, 24, 25, 27, 28 & 29 ARE NON CURRENT UP TO SERIAL NO. 115 AND ARE REPLACED BY ITEMS 54, 55 & 56.



FIGURE 20

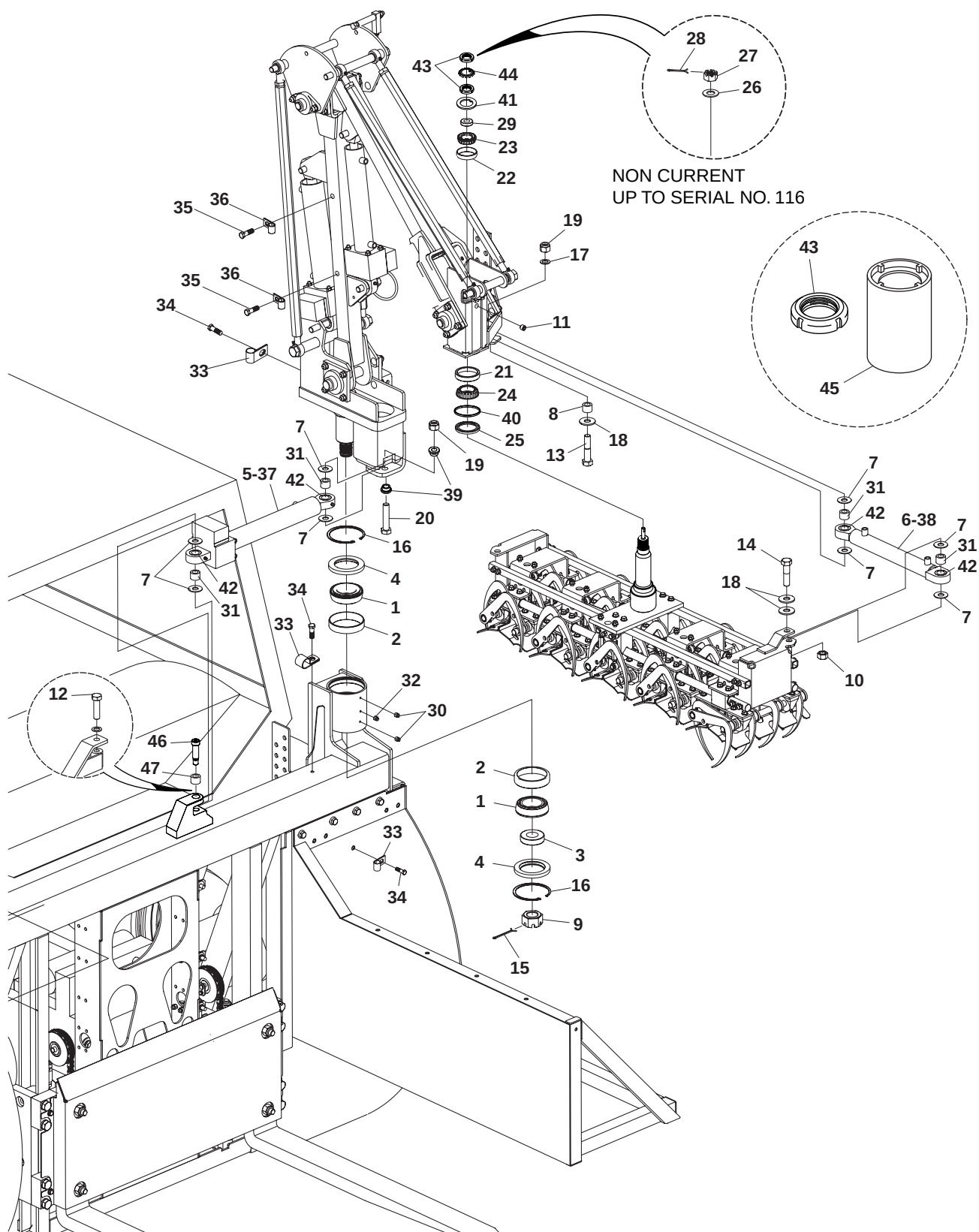




FIGURE 20

| ITM | PART NO. | DESCRIPTION                      | QTY | ITM | PART NO. | DESCRIPTION              | QTY |
|-----|----------|----------------------------------|-----|-----|----------|--------------------------|-----|
| 1   | 4131551  | CONE-INNER BEARING               | 2   | 41  | 4160108  | TONGUED WASHER           | 1   |
| 2   | 4131552  | CUP-BEARING                      | 2   | 42  | 4160136  | NEEDLE BEARING 1"ID      | 2   |
| 3   | 4132497  | SPACER                           | 1   | 43  | 4160106  | LOCKNUT                  | 1   |
| 4   | 4132501  | SEAL-4.505X3.0X.438              | 2   | 44  | 4160107  | LOCKWASHER               | 1   |
| 5   | 4132965  | CYLINDER-2" BORE, 1" ROD         | 1   | 45  | 4160624  | SPINDLE NUT SOCKET       | A/R |
|     |          | NON CURRENT UP TO SERIAL NO. 116 |     | 46  | F501230  | SHOULDER BOLT. FROM #143 | 1   |
|     | 4160013  | CYLINDER-2" BORE, 1" ROD         | 1   | 47  | KB12815  | INNER BEARING. FROM #143 | 1   |
|     |          | CURRENT FROM SERIAL NO. 117      |     |     |          |                          |     |
| 6   | 4132971  | CYLINDER-1.5" BORE, 1" ROD       | 1   |     |          |                          |     |
| 7   | 4134564  | BEARING-THRUST                   | 4   |     |          |                          |     |
| 8   | 4134565  | SPACER                           | 1   |     |          |                          |     |
| 9   | KX20039  | NUT-SLOTTED HEX 1-1/2-12         | 1   |     |          |                          |     |
| 10  | F231208  | NUT-HEX 3/4-10                   | 1   |     |          |                          |     |
| 11  | F141004  | SCREW-SET 5/8-18 X .50           | 1   |     |          |                          |     |
| 12  | F041226  | BOLT-HEX 3/4. UP TO #142         | 1   |     |          |                          |     |
| 13  | F041234  | BOLT-HEX 3/4-10X3-1/2            | 1   |     |          |                          |     |
| 14  | F041230  | BOLT-HEX 3/4-10X3                | 1   |     |          |                          |     |
| 15  | F910434  | COTTER PIN-1/4X3-1/2             | 1   |     |          |                          |     |
| 16  | 64144-41 | SNAP RING-4.5" INTERNAL          | 2   |     |          |                          |     |
| 17  | F331208  | WASHER- 3/4                      | 2   |     |          |                          |     |
| 18  | F331208  | WASHER- 3/4                      | 3   |     |          |                          |     |
| 19  | F211250  | LOCKNUT 3/4 UNC                  | 2   |     |          |                          |     |
| 20  | F041244  | BOLT 3/4 UNC X 4 1/2 GR.8        | 1   |     |          |                          |     |
| 21  | B4017    | BEARING-CUP                      | 1   |     |          |                          |     |
| 22  | B4018    | BEARING-CUP                      | 1   |     |          |                          |     |
| 23  | B4511    | BEARING-CONE                     | 1   |     |          |                          |     |
| 24  | B4514    | BEARING-CONE                     | 1   |     |          |                          |     |
| 25  | 4132788  | SEAL-3.061X2X.25                 | 1   |     |          |                          |     |
|     |          | NON CURRENT UP TO SERIAL NO. 117 |     |     |          |                          |     |
|     | 4160123  | SEAL-3.061X2.25X.25              | 1   |     |          |                          |     |
|     |          | CURRENT FROM SERIAL NO. 118      |     |     |          |                          |     |
| 26  | 64163-25 | 1-1/32X2X11GA WASHER             | 1   |     |          |                          |     |
| 27  | 64025-39 | NUT-SLOTTED HEX 1-14             | 1   |     |          |                          |     |
| 28  | 64140-15 | COTTER PIN-1/4-2                 | 1   |     |          |                          |     |
| 29  | 4132789  | SEAL-26ODX10X7MM                 | 1   |     |          |                          |     |
| 30  | KM11400  | GREASE FITTING-1/8               | 2   |     |          |                          |     |
| 31  | 4133645  | INNER SLEEVE                     | 4   |     |          |                          |     |
| 32  | 4136256  | FITTING-RELIEF GREASE            | 1   |     |          |                          |     |
| 33  | KH68007  | CLAMP-3/4 CLIP                   | 3   |     |          |                          |     |
| 34  | F870904  | BLT-TDFM 3/8-16X1/2              | 3   |     |          |                          |     |
| 35  | F870406  | BLT-TDFM 1/4-20X3/4              | 2   |     |          |                          |     |
| 36  | KH68040  | CABLE CLIP-INSULATED             | 2   |     |          |                          |     |
| 37  | 4160118  | REPAIR KIT. CYLINDER             | 1   |     |          |                          |     |
|     |          | CYLINDER 4132965 - NON CURRENT   |     |     |          |                          |     |
|     | 4160133  | REPAIR KIT. CYLINDER             | 1   |     |          |                          |     |
|     |          | CYLINDER 4160013 - CURRENT       |     |     |          |                          |     |
| 38  | 4160xxx  | REPAIR KIT. CYLINDER             | 1   |     |          |                          |     |
| 39  | 4160055  | BUSHING - <b>SEE NOTE 1</b>      | 2   |     |          |                          |     |
| 40  | 4160109  | SPACER                           | 1   |     |          |                          |     |
|     |          | CURRENT FROM SERIAL NO. 118      |     |     |          |                          |     |

**NOTE 1**

ITEM 39 IS NON CURRENT FROM  
SERIAL NO. 115 TO 125.

**NOTE 2**

ITEMS 26, 27 & 28 ARE NON  
CURRENT UP TO SERIAL NO. 116.  
REPLACED BY ITEMS 41, 43 & 44.

FIGURE 21

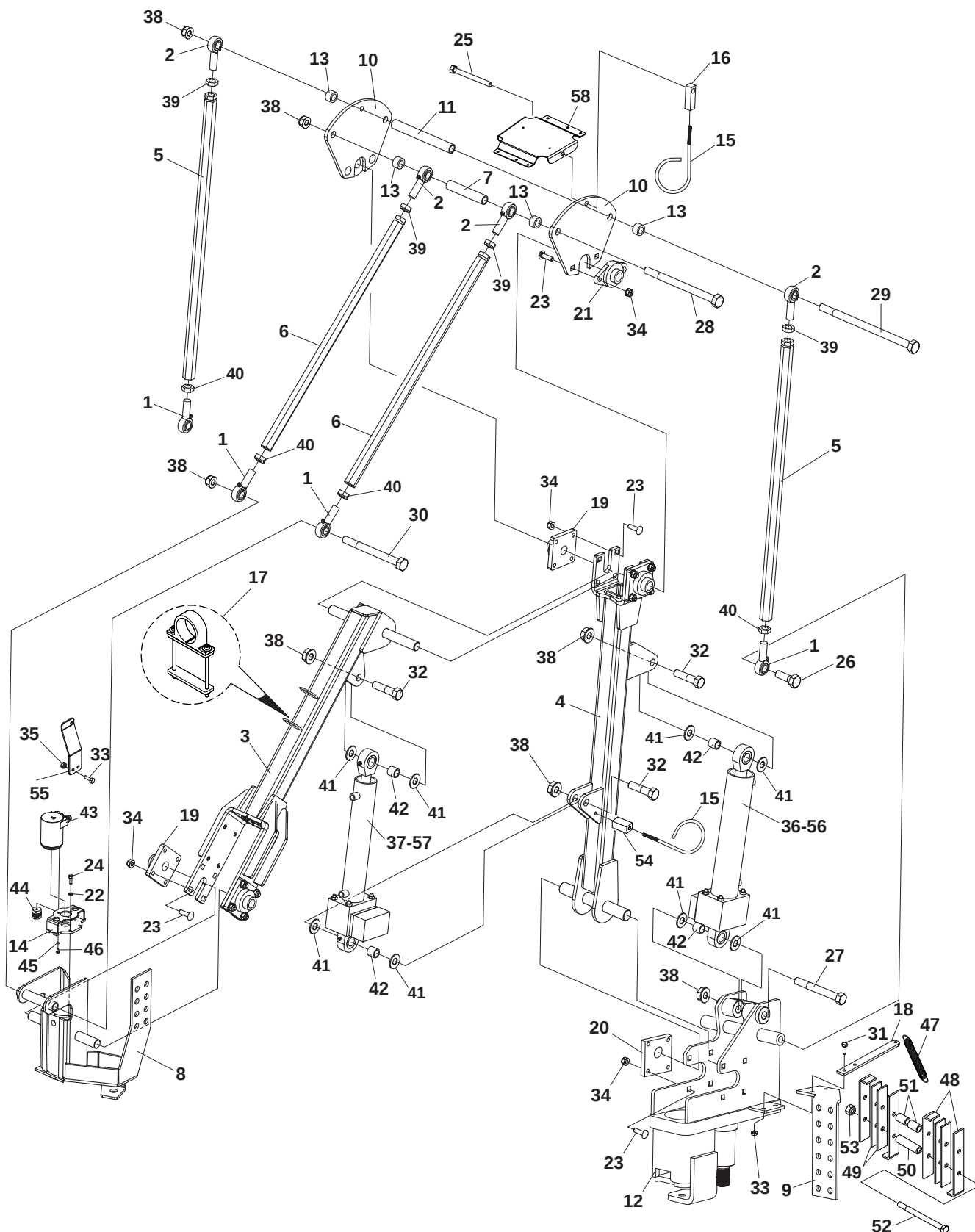


FIGURE 21

| ITM | PART NO.    | DESCRIPTION                      | QTY | ITM | PART NO.   | DESCRIPTION               | QTY |
|-----|-------------|----------------------------------|-----|-----|------------|---------------------------|-----|
| 1   | 2188142-03  | ROD-END 3/4                      | 4   | 41  | 4134564    | BEARING-THRUST            | 8   |
| 2   | 2188142-04  | ROD-END 3/4 LH                   | 4   | 42  | 4133645    | BEARING-NEEDLE ROLLER     | 4   |
| 3   | 4139823     | WLDMT-ARM REACH                  | 1   | 43* | 4140874    | ENCODER-ABSOLUTE          | 1   |
| 4   | 4139824     | WLDMT-ARM LIFT                   | 1   | 44  | 4131770    | COUPLING                  | 1   |
| 5   | 4129668     | LINKAGE-LIFT                     | 2   | 45  | G320400    | WASHER                    | 3   |
| 6   | 4129669     | LINKAGE-LIFT                     | 2   | 46  | G0104008   | BOLT-MET M4-.7X8          | 3   |
| 7   | 4136040     | SPACER                           | 1   | 47  | 4113746    | SPRING                    | 1   |
| 8   | 4129778     | WLDMT-PIVOT HEAD                 | 1   | 48  | 4134934    | HOSE BRACKET              | 4   |
| 9   | 4129447     | BRKT-HOSE                        | 1   | 49  | 4134940    | RUBBER PAD                | 4   |
| 10  | 4131229     | PIVOT-LINKAGE ELBOW              | 2   | 50  | 6115697    | SPACER                    | 1   |
| 11  | 4131291     | SPACER-LINKAGE LIFT              | 1   | 51  | 2183071-03 | SPACER                    | 2   |
| 12  | 4138595     | MAIN PIVOT ARM - <b>SEE NOTE</b> | 1   | 52  | F040550    | BOLT 5/16-18 UNC X 5 GR.8 | 2   |
| 13  | 4131903     | SPACER LINKAGE                   | 4   | 53  | F210508    | LOCKNUT 5/16 UNC          | 2   |
| 14  | 4131997     | WLDMT-ENCODER MOUNT              | 1   | 54  | 4160124    | STAND OFF BLOCK           | 1   |
| 15  | 4134914     | WIREFORM-4" DIA                  | 2   | 55  | 4153737    | BRKT. HRNS. STRAIN RELIEF | 1   |
| 16  | 4134916     | BAR                              | 1   | 56  | 4160135    | REPAIR KIT. CYL. 4132790  | 1   |
| 17  | 4160418     | CABLE GUIDE ASSEMBLY             | 1   |     | 4160134    | REPAIR KIT. CYL. 4160014  | 1   |
| 18  | 4134993     | STRAP-SPRING                     | 1   | 57  | 4160118    | REPAIR KIT. CYL. 4132793  | 1   |
| 19  | 55-FB22016  | BEARING-4-BOLT, 1"               | 4   |     | 4160133    | REPAIR KIT. CYL. 4160015  | 1   |
| 20  | 55-FB22020S | BEARING-4-BOLT, 1-1/4"           | 2   | 58  | 4160415    | BRACKET. CAN BUS JUNC.    | 1   |
| 21  | 55-FB23016  | BEARING-2-BOLT, 1"               | 2   |     |            |                           |     |
| 22  | F310408     | LOCKWASHER-1/4                   | 6   |     |            |                           |     |
| 23  | F020714     | BOLT-CRG 7/16-14X1-1/2           | 28  |     |            |                           |     |
| 24  | F040406     | BOLT-HEX 1/4-28X3/4              | 6   |     |            |                           |     |
| 25  | F040850     | BOLT-HEX 1/2-13X5                | 1   |     |            |                           |     |
| 26  | F041222     | BOLT-HEX 3/4-10X2-1/4            | 2   |     |            |                           |     |
| 27  | F041270     | FINISHED HEX BOLTS               | 1   |     |            |                           |     |
| 28  | F041200     | BOLT-HEX 3/4-10X10               | 1   |     |            |                           |     |
| 29  | F041230     | BOLT-HEX 3/4-10X13               | 1   |     |            |                           |     |
| 30  | F041280     | BOLT-HEX 3/4-10X8                | 1   |     |            |                           |     |
| 31  | F040510     | BOLT-HEX 5/16-18X1               | 2   |     |            |                           |     |
| 32  | F041230     | BOLT-HEX 3/4-10X3                | 3   |     |            |                           |     |
| 33  | F850405     | BOLT 1/4 UNC X 5/8 FLG HD.       | 2   |     |            |                           |     |
| 34  | F210705     | LOCKNUT-FL NYLON 7/16-14         | 28  |     |            |                           |     |
| 35  | F210408     | LOCKNUT 1/4 UNC                  | 2   |     |            |                           |     |
| 36  | 4132790     | CYLINDER-2.5"BORE,1.25"RD        | 1   |     |            |                           |     |
|     |             | NON CURRENT UP TO SERIAL NO. 116 |     |     |            |                           |     |
|     | 4160014     | CYLINDER-2.5"BORE,1.25"RD        | 1   |     |            |                           |     |
|     |             | CURRENT FROM SERIAL NO. 117      |     |     |            |                           |     |
| 37  | 4132793     | CYLINDER-2" BORE, 1" ROD         | 1   |     |            |                           |     |
|     |             | NON CURRENT UP TO SERIAL NO. 116 |     |     |            |                           |     |
|     | 4160015     | CYLINDER-2" BORE, 1" ROD         | 1   |     |            |                           |     |
|     |             | CURRENT FROM SERIAL NO. 117      |     |     |            |                           |     |
| 38  | F211208     | LOCKNUT-3/4-10                   | 7   |     |            |                           |     |
| 39  | F221218     | NUT-HEX JAM 3/4-16 LH            | 4   |     |            |                           |     |
| 40  | F221200     | NUT-HEX JAM 3/4-16 RH            | 4   |     |            |                           |     |

### NOTE

UP TO SERIAL NO. 115 THE FOLLOWING PARTS MUST BE ORDERED WHEN ORDERING ITEM 12 - MAIN PIVOT ARM:  
4160055 - SHOULDER BUSHING  
F041244 - BOLT 3/4 UNC X 4 1/2  
F211250 - LOCKNUT 3/4 UNC

### NOTE

ITEMS 17 - CABLE GUIDE ASSEMBLY INCLUDES:  
1 - 4160416 - STRAP. FULL LOOP  
2 - 4160417 - STRAP CLAMP  
2 - F210250 - LOCKNUT 10-32 UNC  
2 - F880238 - SCREW 10-32 X 3 1/2  
2 - F320200 - FLATWASHER #10

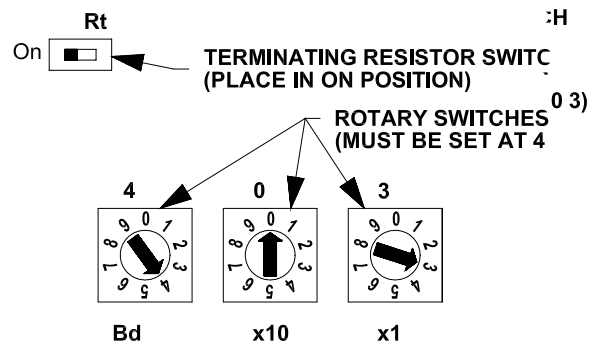


FIGURE 22

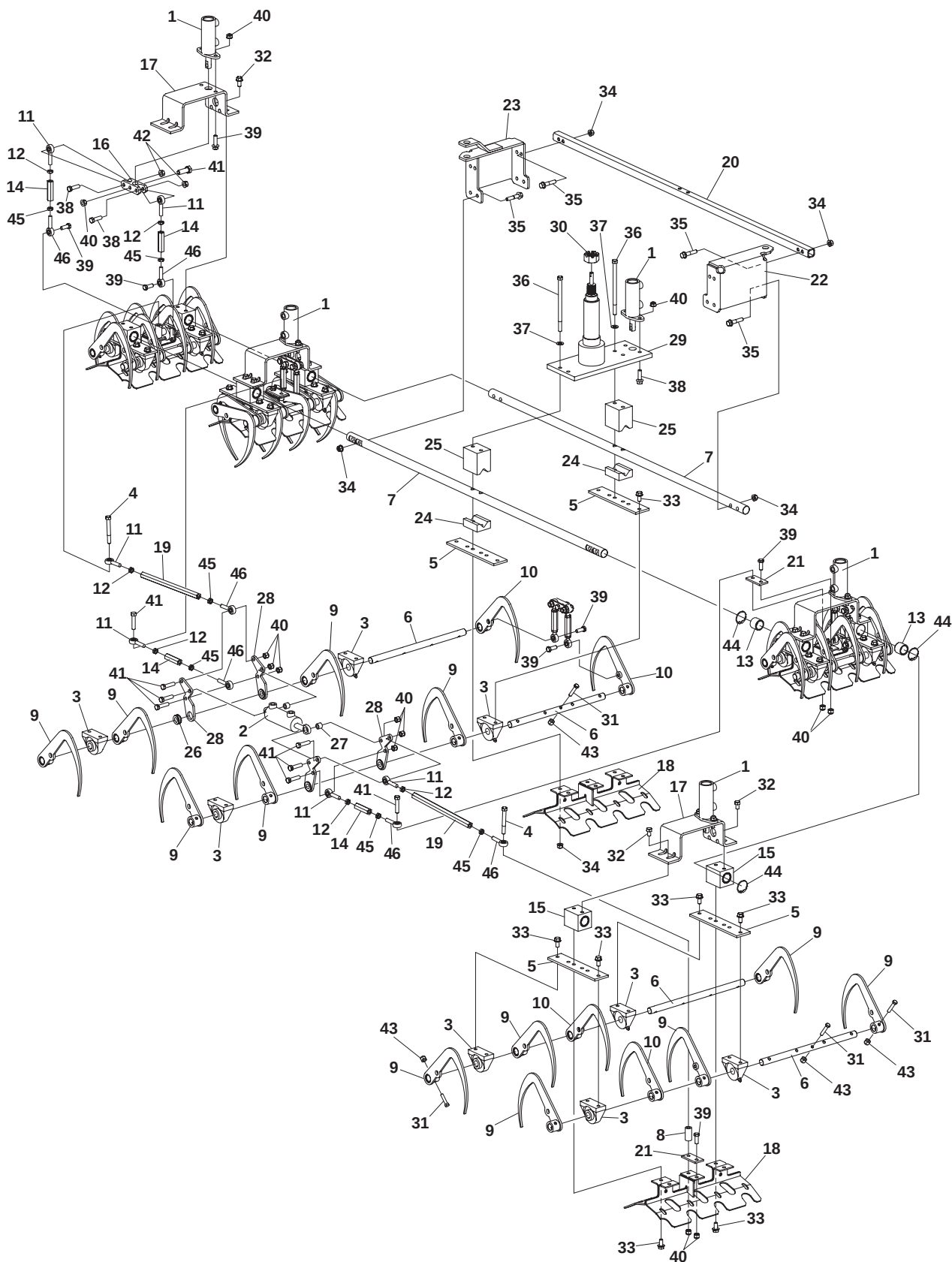


FIGURE 22

| ITM | PART NO. | DESCRIPTION                  | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|------------------------------|-----|-----|----------|-------------|-----|
| 1   | 4128723  | CYLINDER-FACE MOUNT          | 5   |     |          |             |     |
| 2   | 4128874  | CYLINDER-HYDRAULIC           | 1   |     |          |             |     |
| 3   | 4128914  | PILLOW BLOCK                 | 20  |     |          |             |     |
| 4   | F040630  | BOLT-HEX 3/8-16X3            | 2   |     |          |             |     |
| 5   | 4129300  | PLATE-FRAME                  | 10  |     |          |             |     |
| 6   | 4128968  | SHAFT-PIVOT                  | 10  |     |          |             |     |
| 7   | 4129259  | SHAFT-GUIDE                  | 2   |     |          |             |     |
| 8   | 4129241  | SPACER-0.750X0.406X1.51      | 2   |     |          |             |     |
| 9   | 4135961  | WLDMT-GRASPING TONG          | 30  |     |          |             |     |
| 10  | 4135960  | WLDMT-GRSPNG TONG/NUT        | 10  |     |          |             |     |
| 11  | 4128925  | ROD END-3/8" MALE R.H.       | 14  |     |          |             |     |
| 12  | F220600  | NUT-JAM 3/8 UNC R.H.         | 14  |     |          |             |     |
| 13  | 4128942  | BEARING-SLEEVE               | 16  |     |          |             |     |
| 14  | 4160364  | LINK-HEX, 5/8                | 12  |     |          |             |     |
| 15  | 4128917  | BLOCK-GUIDE                  | 8   |     |          |             |     |
| 16  | 4142710  | BRKT-PIVOT. GRIPPER          | 5   |     |          |             |     |
| 17  | 4129294  | BRKT-CYLINDER MOUNT          | 4   |     |          |             |     |
| 18  | 4132920  | WLDMT-ROLL BRKT              | 5   |     |          |             |     |
| 19  | 4160365  | LINK-HEX, 5/8                | 2   |     |          |             |     |
| 20  | 4160053  | TUBE-FRAME                   | 2   |     |          |             |     |
| 21  | 4132724  | PLATE-LINK                   | 4   |     |          |             |     |
| 22  | 4137484  | S-WLDMT-BRKT GRIPR HEAD      | 1   |     |          |             |     |
| 23  | 4137483  | S-WLDMT-CYLINDER MOUNT       | 1   |     |          |             |     |
| 24  | 4128981  | BLOCK-V-LOWER                | 2   |     |          |             |     |
| 25  | 4128982  | BLOCK-V-UPPER                | 2   |     |          |             |     |
| 26  | 38304-04 | BEARING-FLANGED PLASTIC      | 4   |     |          |             |     |
| 27  | 4129317  | SPACER-.625 X .385 X .50     | 2   |     |          |             |     |
| 28  | 4129315  | PLATE-CYLINDER LINK          | 4   |     |          |             |     |
| 29  | 4132819  | HEAD PLATE - <b>SEE NOTE</b> | 1   |     |          |             |     |
| 30  | KX20032  | NUT-SLOTTED HEX 1-14 NF      | 1   |     |          |             |     |
| 31  | F040420  | BOLT 1/4 UNC X 2 GR.8        | 50  |     |          |             |     |
| 32  | F870904  | BOLT-FLG HD 3/8-16 X 1/2     | 16  |     |          |             |     |
| 33  | F870606  | BOLT-FLG HD 3/8-16 X 3/4     | 56  |     |          |             |     |
| 34  | F210605  | NUT-FL NYLON LOCK 3/8-16     | 20  |     |          |             |     |
| 35  | F870816  | BOLT-FLG HD 3/8-16 X 1-3/4   | 16  |     |          |             |     |
| 36  | F040664  | BOLT-3/8-16 X 6-1/2          | 4   |     |          |             |     |
| 37  | F330608  | WASHER-25/64X1X12            | 4   |     |          |             |     |
| 38  | F040612  | BOLT-HEX 3/8-16X1-1/4        | 12  |     |          |             |     |
| 39  | F040610  | BOLT-HEX 3/8-16X1            | 22  |     |          |             |     |
| 40  | F210608  | LOCKNUT-3/8-16               | 29  |     |          |             |     |
| 41  | F040614  | BOLT-HEX 3/8-16X1-1/2        | 13  |     |          |             |     |
| 42  | F840600  | NUT-WLF 3/8-16               | 10  |     |          |             |     |
| 43  | F210408  | LOCKNUT 1/4 UNC              | 50  |     |          |             |     |
| 44  | F815125  | INTERNAL RETAINING RING      | 16  |     |          |             |     |
| 45  | F220660  | JAM NUT 3/8 UNC L.H.         | 14  |     |          |             |     |
| 46  | 4160363  | ROD END 3/8 MALE L.H.        | 14  |     |          |             |     |

**NOTE**

ITEMS 11, 12, 14, 45 & 46 ARE  
AVAILABLE AS -  
ADJUSTING LINK ASSEMBLY  
GRASPING TONG - 4160589

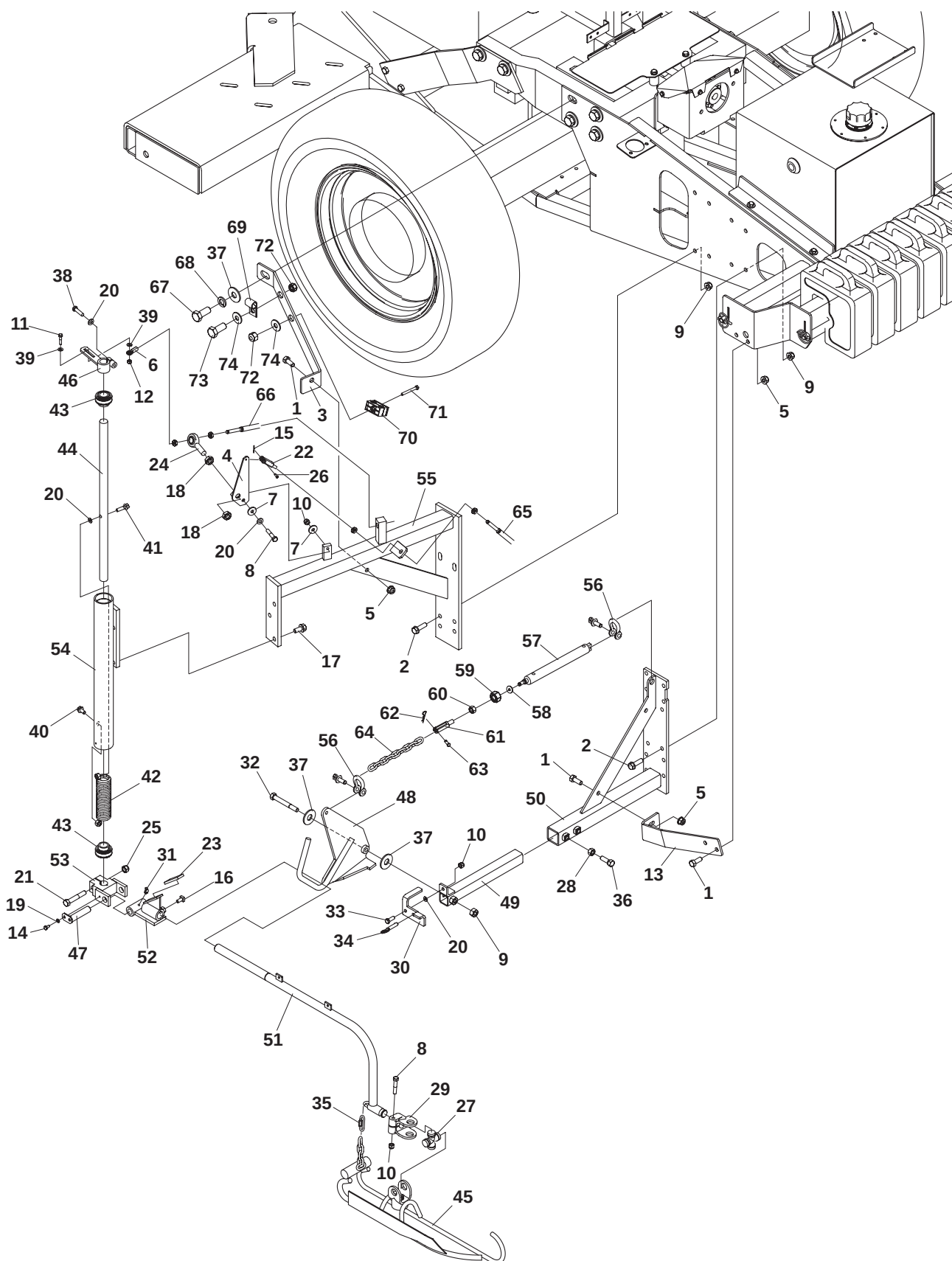
**NOTE**

ITEMS 11, 12, 19, 45 & 46 ARE  
AVAILABLE AS -  
ADJUSTING LINK ASSEMBLY  
GRIPPER SQUEEZE - 4160588

**NOTE**

UP TO SERIAL NO. 116 THE  
FOLLOWING PARTS MUST  
BE ORDERED WHEN ORDERING  
ITEM 29 - HEAD PLATE:  
4160106 - LOCKNUT  
4160107 - LOCKWASHER  
4160108 - TONGUED WASHER  
4160123 - SEAL  
4160109 - SPACER

FIGURE 23



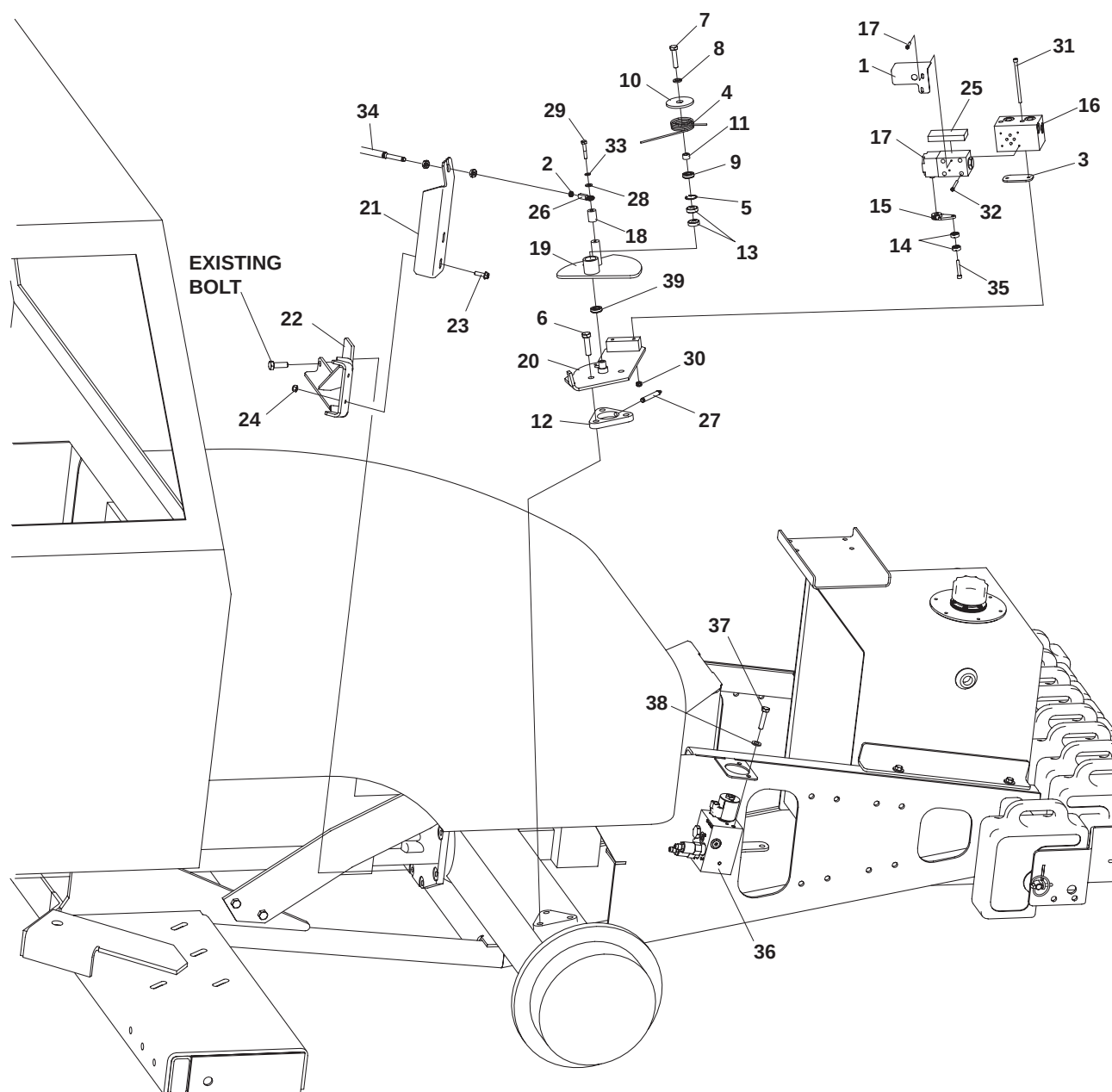


**FIGURE 23**

| ITM | PART NO.  | DESCRIPTION                | QTY | ITM | PART NO.   | DESCRIPTION             | QTY |
|-----|-----------|----------------------------|-----|-----|------------|-------------------------|-----|
| 1   | 64123-39  | BOLT-HEX 1/2-13X1-1/4      | 4   | 41  | 99-K61     | BOLT, FLANGE 3/8-16X1/2 | 1   |
| 2   | 64262-016 | BOLT-FLG HD 1/2-13 X 1-1/2 | 8   | 42  | 015099     | SPRING-SHOE COLUMN      | 1   |
| 3   | 4137040.7 | BRACE-STIFFENER            | 1   | 43  | B2022      | BEARING-BALL 1"         | 2   |
| 4   | 016530.6  | CABLE-ARM                  | 1   | 44  | 015095     | SHOE-COLUMN SHAFT       | 1   |
| 5   | 64268-05  | NUT-FL NYLON LOCK 1/2-13   | 4   | 45  | 200706.6   | SHOE-AUTOSTEER          | 1   |
| 6   | 43-004A   | ROD END-1/4" (ALL STEEL)   | 1   | 46  | 016469.7   | ARM-TOP LINKAGE         | 1   |
| 7   | 301691    | FRICTION WASHER            | 2   | 47  | 015059     | PIN-SHOE ARM PIVOT      | 1   |
| 8   | 64123-67  | BOLT-HEX 3/8-16X2          | 2   | 48  | 6109803.6  | ARM-AUTOSTEER LIFT      | 1   |
| 9   | 64141-13  | NUT-WLF 1/2-13             | 9   | 49  | 6109806.7  | ADJUSTER-AUTOSTEER LIFT | 1   |
| 10  | 64229-03  | LOCKNUT-NYLON 3/8-16       | 3   | 50  | 4134074.7  | WLDMT-AUTOSTEER LIFT    | 1   |
| 11  | 64123-80  | BOLT-HEX 1/4-20X1-1/4      | 1   | 51  | 015110.6   | WLDMT-SHOE ARM          | 1   |
| 12  | 64229-01  | LOCKNUT-NYLON 1/4-20       | 1   | 52  | 015061.7   | SHOE-ARM-SUPPORT        | 1   |
| 13  | 4135125.7 | BRACE-STIFFENER            | 1   | 53  | 015102.7   | PIVOT-SHOE-ARM          | 1   |
| 14  | 64123-49  | BOLT-HEX 1/4-20X1/2        | 1   | 54  | 4137641    | S-SHOE COLUMN BDY ASSY  | 1   |
| 15  | 64140-2   | COTTER PIN-1/16X1/2        | 1   | 55  | 4134077.7  | WLDMT-AUTOSTEER ARM     | 1   |
| 16  | F3603     | SET SCREW-3/8-16 X 3/4     | 2   | 56  | G8048      | SHACKLE-ANCHOR          | 2   |
| 17  | 64139-22  | BOLT-WLF 1/2-13X1          | 3   | 57  | 23-199     | CYLINDER-AUTOSTEER      | 1   |
| 18  | 99-E11    | JAM NUT-5/8-18 NF ZP       | 2   | 58  | E8024      | SEAL-ROD WIPER          | 1   |
| 19  | 64006-01  | LOCKWASHER-1/4             | 1   | 59  | 016310     | NUT                     | 1   |
| 20  | 64163-61  | WASHER-.81X.406X16GA       | 4   | 60  | F1006      | NUT-JAM                 | 1   |
| 21  | 64123-31  | BOLT-1/2-13X3 HEX          | 1   | 61  | 43-Y0404F  | YOKE END                | 1   |
| 22  | 43-Y0303F | YOKE-CLEVIS 10-32 THRD     | 1   | 62  | G2510      | PIN-HITCH CLIP          | 1   |
| 23  | 016657    | BUMPER-RUBBER              | 1   | 63  | 64188-06   | PIN-CLEVIS              | 1   |
| 24  | M0302     | BALL END-RH                | 1   | 64  | 6109811    | CHAIN-AUTOSTEER         | 1   |
| 25  | 64229-05  | LOCKNUT-1/2-13             | 1   | 65  | 4134398    | CABLE-AUTOSTEER ADJ     | 1   |
| 26  | 03-0305   | CLEVIS PIN-3/16 X 5/8 ZP   | 1   | 66  | M5270      | CABLE-PUSH/PULL         | 1   |
| 27  | D0008     | BEARING-BALL 1/4IDX3/4OD   | 1   | 67  | 07-2025045 | BOLT-MET M20-2.5X45     | 1   |
| 28  | 64025-09  | NUT-HEX 1/2-13             | 2   | 68  | 07-C20     | LOCKWASHER, 20MM ZP     | 1   |
| 29  | D0004     | YOKE-ROUND HOLE            | 1   | 69  | 11-057     | CLAMP-1-1/4             | 1   |
| 30  | 6109799.7 | STOP-AUTOSTEER TRANSPT     | 1   | 70  | 4135022    | CLAMP-3/4 OD HOSE       | 1   |
| 31  | 29-045    | GREASE FITTING, 1/4-28 45  | 1   | 71  | 64123-12   | BLT-HEX 5/16-18X2-1/2   | 1   |
| 32  | 90-0832   | BOLT-1/2-13X4 NC           | 1   | 72  | 64229-02   | LOCKNUT-NYLON 5/16-18   | 2   |
| 33  | 64123-50  | BOLT-HEX 3/8-16X1          | 1   | 73  | 64123-68   | BOLT-HEX 5/16-18X1      | 1   |
| 34  | 03-020    | PIN-QUICK RELEASE 3/8"     | 1   | 74  | 64163-55   | WASHER .328X.75X14      | 2   |
| 35  | G8084     | QUICK LINK-3/16 ZP         | 1   |     |            |                         |     |
| 36  | 64123-117 | BOLT-HEX 1/2-13X1-1/2      | 2   |     |            |                         |     |
| 37  | 64163-57  | WASHER                     | 3   |     |            |                         |     |
| 38  | 64123-70  | BOLT-HEX 3/8-16X1-1/2      | 1   |     |            |                         |     |
| 39  | 453023    | FLATWASHER, 1/4            | 2   |     |            |                         |     |
| 40  | 64262-010 | BOLT-FLG HD 3/8-16 X 3/4   | 1   |     |            |                         |     |

**NOTE**  
See pages 120 to 125 for the Auto-Steer current from Serial No. 118B.

FIGURE 24





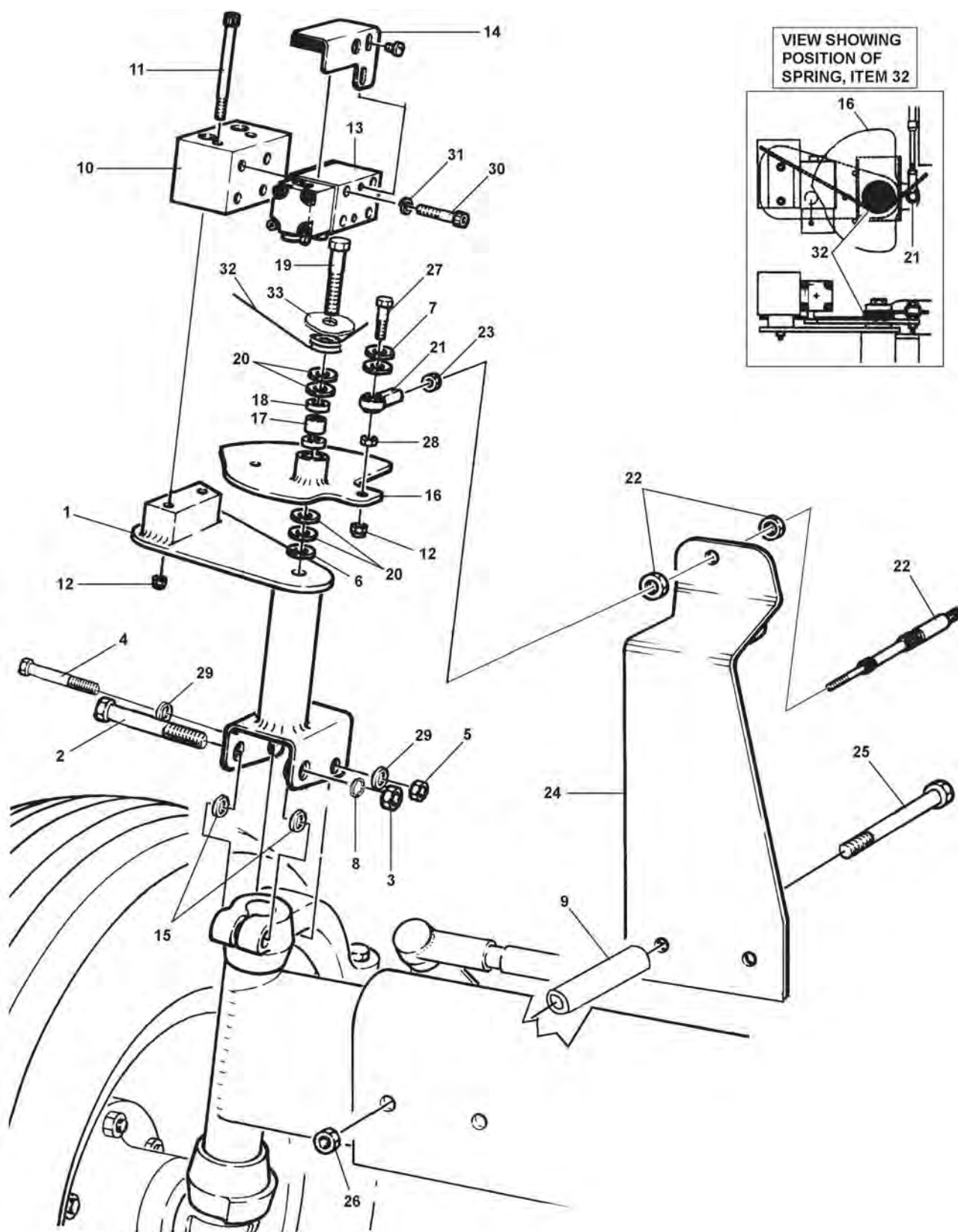
**FIGURE 24**

| ITM | PART NO.  | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | 016535.7  | VALVE COVER               | 1   |     |          |             |     |
| 2   | F1006     | NUT-JAM 1/4-28 UNF        | 1   |     |          |             |     |
| 3   | 016440.7  | SHIM-.134 THICK           | 1   |     |          |             |     |
| 4   | 4134863   | SPRING-TORSION            | 1   |     |          |             |     |
| 5   | 64144-40  | SNAP RING-26MM INTERNAL   | 1   |     |          |             |     |
| 6   | 64205-073 | BOLT-MET M12-1.25X45      | 3   |     |          |             |     |
| 7   | 64205-034 | BOLT-MET M10-1.50X45      | 1   |     |          |             |     |
| 8   | 64006-06  | LOCKWASHER-7/16           | 1   |     |          |             |     |
| 9   | 4128000   | SEAL-16 X 26 X 7          | 1   |     |          |             |     |
| 10  | 64163-17  | WASHER-25/64 X 2 X 11GA   | 1   |     |          |             |     |
| 11  | 4134864   | SPACER                    | 1   |     |          |             |     |
| 12  | 4135004.7 | SPACER-SELECTOR MOUNT     | 1   |     |          |             |     |
| 13  | 4128004   | BEARING-BALL 10X26X8      | 2   |     |          |             |     |
| 14  | 55-106    | BEARING-BALL 1/4IDX3/4OD  | 2   |     |          |             |     |
| 15  | 002633.7  | AUTOSTEER TRIP ARM        | 1   |     |          |             |     |
| 16  | H4085     | STEERING MANIFOLD         | 1   |     |          |             |     |
| 17  | 23-142    | VALVE-AUTOSTEER SENSOR    | 1   |     |          |             |     |
| 18  | 6115428   | SPACER-4WD AUTOSTEER      | 1   |     |          |             |     |
| 19  | 4133950.7 | WLDMT-AUTOSTEER CAM       | 1   |     |          |             |     |
| 20  | 4133868.7 | WLDMT-MNT CAM AUTOSTR     | 1   |     |          |             |     |
| 21  | 4133981.7 | BRKT-AUTOSTEER CABLE      | 1   |     |          |             |     |
| 22  | 4135222.7 | WLMT-MNT AUTOSTR CABLE    | 1   |     |          |             |     |
| 23  | 64262-007 | BOLT-FLG HD 5/16-18X1     | 2   |     |          |             |     |
| 24  | 64229-02  | LOCKNUT-5/16-18           | 2   |     |          |             |     |
| 25  | 016663    | SEAL-FOAM                 | 1   |     |          |             |     |
| 26  | 43-004A   | ROD END-1/4" (ALL STEEL)  | 1   |     |          |             |     |
| 27  | 4135005   | ZERK-EXT. 1/8 PTF         | 1   |     |          |             |     |
| 28  | 453023    | FLATWASHER-1/4            | 1   |     |          |             |     |
| 29  | 64123-60  | BOLT-HEX 1/4-20X2         | 1   |     |          |             |     |
| 30  | 64229-01  | LOCKNUT-NYLON 1/4-20      | 2   |     |          |             |     |
| 31  | F1735     | SCREW-SHCS                | 2   |     |          |             |     |
| 32  | 99-24     | BOLT-10-24 X 1-1/4 SHCS   | 4   |     |          |             |     |
| 33  | 64006-01  | LOCKWASHER-1/4            | 1   |     |          |             |     |
| 34  | M5270     | CABLE-PUSH/PULL           | 1   |     |          |             |     |
| 35  | 99-K96    | BOLT-1/4-20X7/8 BUTTON HD | 1   |     |          |             |     |
| 36  | 4134547   | MANIFOLD-AUTOSTR SLND     | 1   |     |          |             |     |
| 37  | 64123-15  | BOLT-HEX 3/8-16X3/4       | 2   |     |          |             |     |
| 38  | F3076     | WASHER-DISC LOCK-3/8"     | 2   |     |          |             |     |
| 39  | 4127999   | SEAL-16 X 24 X 7          | 1   |     |          |             |     |

**NOTE**

See pages 120 to 125 for the Auto-Steer current from Serial No. 118B.

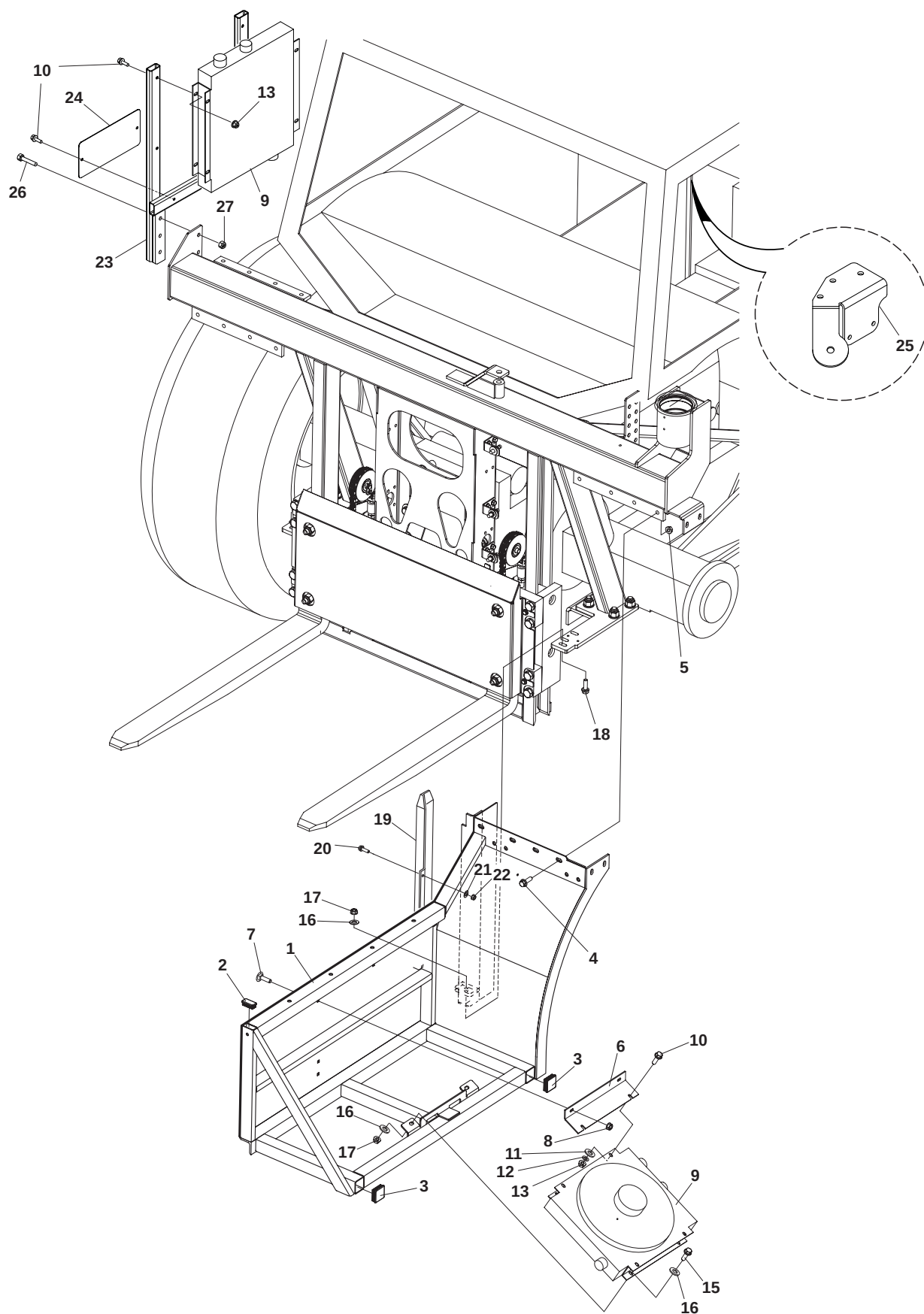
FIGURE 25



**FIGURE 25**

| ITM   | PART NO.  | DESCRIPTION            | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-------|-----------|------------------------|-----|-----|----------|-------------|-----|
| 25-1  | 002073.7  | SENSOR VALVE MOUNT     | 1   |     |          |             |     |
| 25-2  | 90-0932   | BOLT-9/16-12 X 4       | 1   |     |          |             |     |
| 25-3  | 99-E54    | NUT-9/16-12            | 1   |     |          |             |     |
| 25-4  | 90-0732   | BOLT-7/16-14 X 4       | 1   |     |          |             |     |
| 25-5  | 64229-04  | S LCK NUT-NYLN 7/16-14 | 1   |     |          |             |     |
| 25-6  | 64163-67  | WASHER-.516X1X12       | A/R |     |          |             |     |
| 25-7  | 453023    | FLATWASHER, 1/4        | 2   |     |          |             |     |
| 25-8  | 64006-13  | WASHER-9/16            | 1   |     |          |             |     |
| 25-9  | 002060    | SPACER, AXLE TUBE      | 2   |     |          |             |     |
| 25-10 | H4085     | STEERING MANIFOLD      | 1   |     |          |             |     |
| 25-11 | F1735     | SCREW-HEX              | 2   |     |          |             |     |
| 25-12 | 64229-01  | LOCKNUT-1/4-20         | 3   |     |          |             |     |
| 25-13 | 23-142    | VLV-AUTOSTEER SENSOR   | 1   |     |          |             |     |
| 25-14 | 016535.7  | COVER, VALVE           | 1   |     |          |             |     |
|       | Q7475     | SEAL, FOAM             | 1   |     |          |             |     |
| 25-15 | F6051     | WASHER, FLAT 5/8"      | A/R |     |          |             |     |
| 25-16 | 016483.7  | CAM, AUTOSTEER         | 1   |     |          |             |     |
| 25-17 | 015256    | SPACER, SENSOR PIVOT   | 1   |     |          |             |     |
| 25-18 | B2010     | BEARING                | 2   |     |          |             |     |
| 25-19 | 64123-72  | BLT-HEX 1/2-13X2-1/2   | 1   |     |          |             |     |
| 25-20 | 99-B59    | WASHER                 | 4   |     |          |             |     |
| 25-21 | 43-004A   | ROD END                | 1   |     |          |             |     |
| 25-22 | M5270     | CABLE,PUSH/PULL        | 1   |     |          |             |     |
| 25-23 | F1006     | NUT, JAM 1/4-28        | 1   |     |          |             |     |
| 25-24 | 002082.7  | ANCHOR BRACKET         | 1   |     |          |             |     |
| 25-25 | 64123-242 | BOLT-3/4-10X4-1/2      | 2   |     |          |             |     |
| 25-26 | 64229-07  | LOCKNUT-NYLON 3/4-10   | 2   |     |          |             |     |
| 25-27 | 64123-07  | BOLT, 1/4-20X1-1/2     | 1   |     |          |             |     |
| 25-28 | 64025-01  | NUT-1/4-20             | 1   |     |          |             |     |
| 25-29 | 64229-01  | LOCKNUT-1/4-20 NYLON   | 2   |     |          |             |     |
| 25-30 | 99-24     | BOLT, 10-24 X 1-1/4    | 4   |     |          |             |     |
| 25-31 | 120052    | LOCKWASHER             | 4   |     |          |             |     |
| 25-32 | 016796    | SPRING                 | 1   |     |          |             |     |
| 25-33 | F6053     | WASHER                 | 1   |     |          |             |     |

FIGURE 26

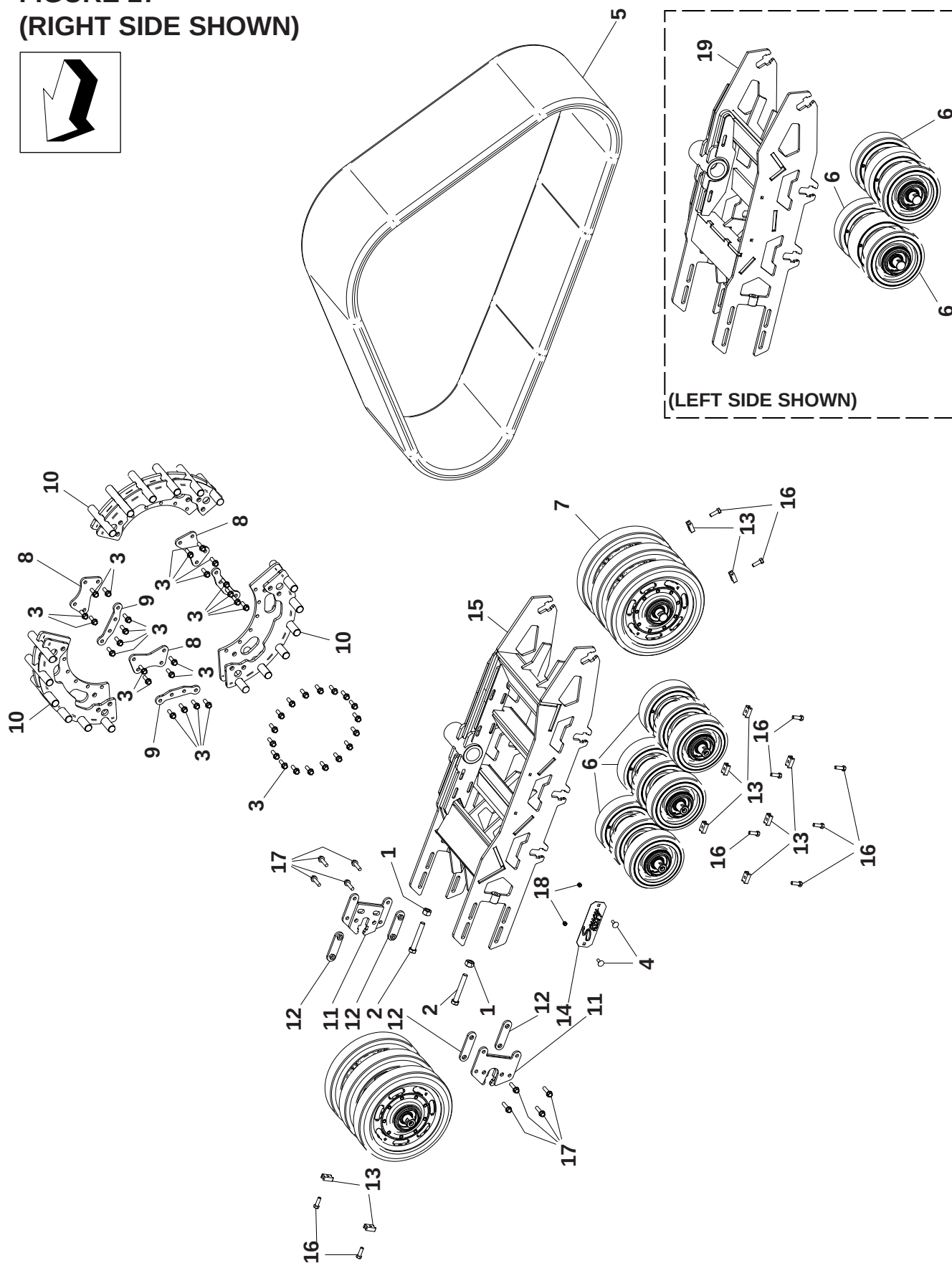
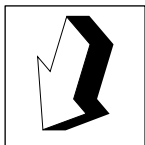


**FIGURE 26**

| ITM | PART NO.               | DESCRIPTION                | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|------------------------|----------------------------|-----|-----|----------|-------------|-----|
| 1   | 4132801.7              | WELDMENT-FENDER, RIGHT     | 1   |     |          |             |     |
| 2   | 4134551                | CAPPLUGS-1X2               | 1   |     |          |             |     |
| 3   | 4134550                | CAPPLUGS-2X2               | 2   |     |          |             |     |
| 4   | F870814                | BOLT-FLG HD 1/2-13X1-1/2   | 4   |     |          |             |     |
| 5   | F840800                | NUT-WLF 1/2-13             | 4   |     |          |             |     |
| 6   | 4136172.7              | BRKT-MOUNT, OIL COOLER     | 1   |     |          |             |     |
| 7   | F020506                | BOLT-CRG 5/16-18X3/4       | 2   |     |          |             |     |
| 8   | F210500                | LOCKNUT-5/16-18            | 2   |     |          |             |     |
| 9   | 4136036                | OIL COOLER ASSEMBLY        | 1   |     |          |             |     |
|     | (INCLUDES ITEMS 10-13) |                            |     |     |          |             |     |
|     | 4160656                | THRML. TRNSFR. COOLER      | 1   |     |          |             |     |
|     | 4142912                | S-FAN-OIL COOLER           | 1   |     |          |             |     |
|     | (SERVICE ONLY)         |                            |     |     |          |             |     |
| 10  | F040610                | BOLT                       | 8   |     |          |             |     |
| 11  | F330608                | WASHER                     | 8   |     |          |             |     |
| 12  | F310608                | LOCKWASHER                 | 8   |     |          |             |     |
| 13  | F230608                | NUT                        | 8   |     |          |             |     |
| 14  |                        | ITEM 14 NOT USED           |     |     |          |             |     |
| 15  | F040610                | BOLT-HEX 3/8-16X1          | 2   |     |          |             |     |
| 16  | F330608                | WSHR .81X.406X16           | 5   |     |          |             |     |
| 17  | F210608                | LOCKNUT-NYLON 3/8-16       | 3   |     |          |             |     |
| 18  | F870614                | BLT-WLF 3/8-16 X 1-1/2     | 1   |     |          |             |     |
| 19  | 4140175                | BRACKET. HOSE COVER        | 1   |     |          |             |     |
| 20  | F040510                | BOLT 5/16 UNC X 1 GR.8     | 2   |     |          |             |     |
| 21  | F320500                | FLATWASHER 5/16            | 2   |     |          |             |     |
| 22  | F210500                | LOCKNUT 5/16 UNC           | 2   |     |          |             |     |
| 23  | 4160001                | COOLER BRACKET             | 1   |     |          |             |     |
| 24  | 4160019                | DECAL PLATE                | 1   |     |          |             |     |
| 25  | 4135163                | LIGHT BRACKET. up to #137A | 1   |     |          |             |     |
|     | 4160582                | LIGHT BRACKET. from #137B  | 1   |     |          |             |     |

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# RoboMax

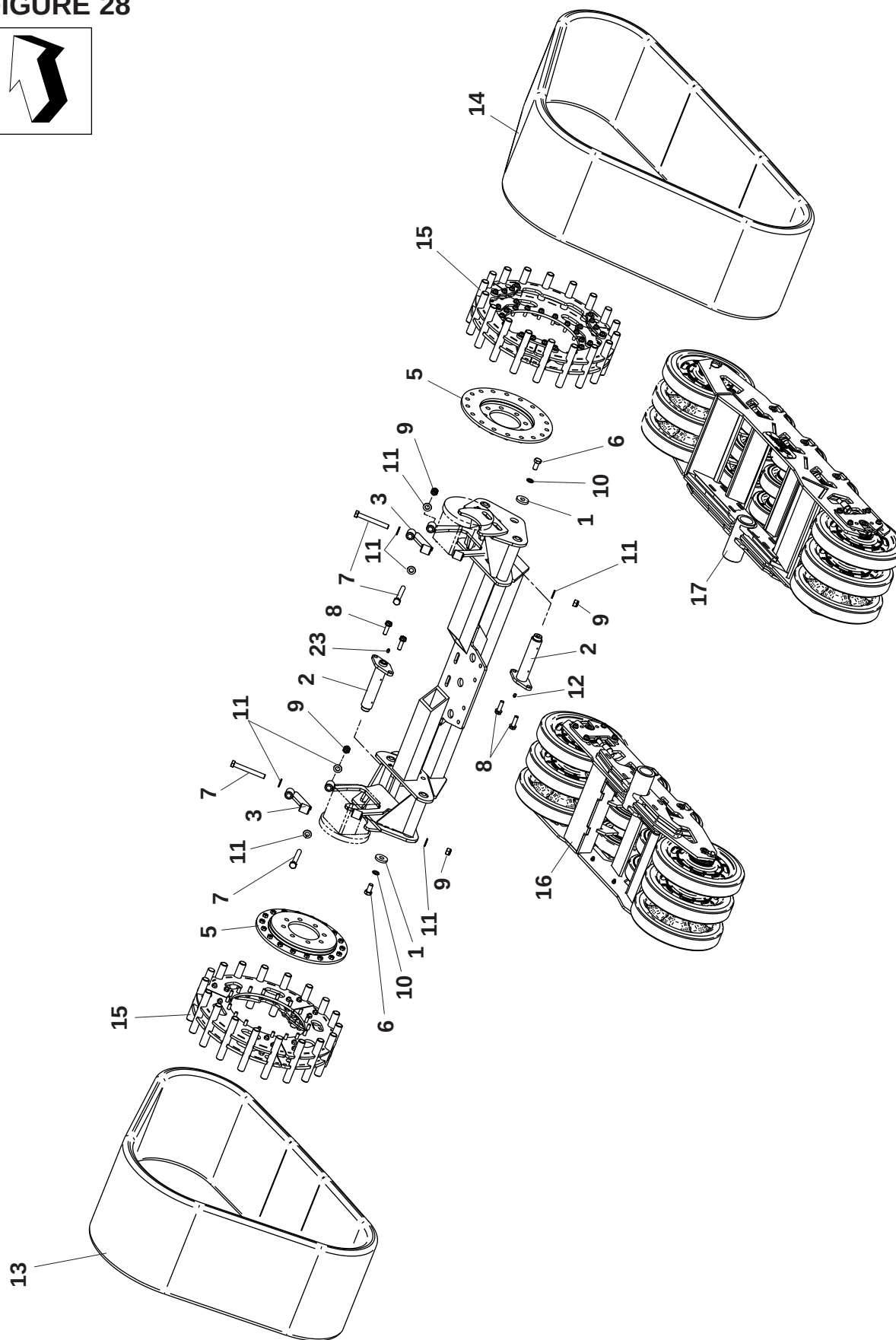
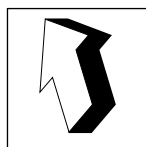


**FIGURE 27**

| ITM | PART NO. | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | F231200  | NUT 3/4 UNC               | 2   |     |          |             |     |
| 2   | F041250  | BOLT 3/4 UNC X 5 GR.8     | 2   |     |          |             |     |
| 3   | 4160200  | BOLT. FLANGE 1/2 X 1 1/2  | 42  |     |          |             |     |
| 4   | F020614  | CARRIAGE BOLT 3/8 X 1 1/4 | 2   |     |          |             |     |
| 5   | 4160181  | TRACK. RIGHT - 36 PITCH   | 1   |     |          |             |     |
|     | 4160180  | TRACK. LEFT - 32 PITCH    | 1   |     |          |             |     |
| 6   | 4160197  | WHEEL ASSEMBLY 3" X 10"   | 3   |     |          |             |     |
| 7   | 4160198  | WHEEL ASSEMBLY 3" X 17"   | 2   |     |          |             |     |
| 8   | 4160184  | INNER SPROCKET LINK       | 3   |     |          |             |     |
| 9   | 4160185  | OUTER SPROCKET LINK       | 3   |     |          |             |     |
| 10  | 4160183  | SPROCKET THIRD. 6 TEETH   | 3   |     |          |             |     |
| 11  | 4160193  | TRACK TENSIONER           | 2   |     |          |             |     |
| 12  | 4160194  | TENSIONER CLAMP PLATE     | 4   |     |          |             |     |
| 13  | 4160195  | AXLE LOCK 5/8"            | 10  |     |          |             |     |
| 14  | 4160196  | TRACK PLATE               | 1   |     |          |             |     |
| 15  | 4160192  | RIGHT REAR FRAME          | 1   |     |          |             |     |
| 16  | F040814  | BOLT 1/2 UNC X 1 1/2 GR.8 | 10  |     |          |             |     |
| 17  | 4160201  | BOLT. FLANGE 1/2 X 2      | 8   |     |          |             |     |
| 18  | F210600  | LOCKNUT 3/8 UNC           | 2   |     |          |             |     |
| 19  | 4160191  | LEFT REAR FRAME           | 1   |     |          |             |     |



FIGURE 28

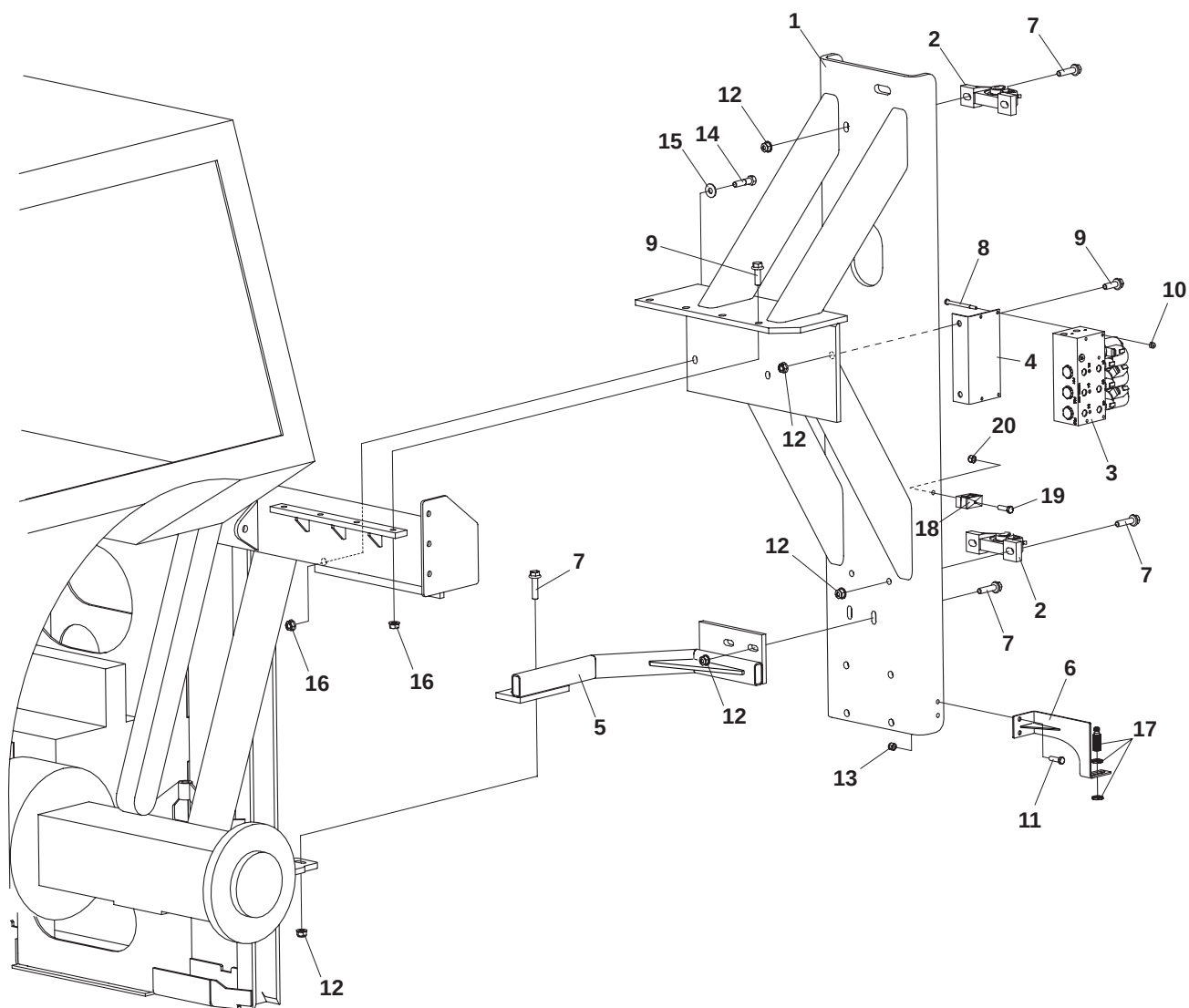




**FIGURE 28**

| ITM | PART NO. | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | F321200  | FLATWASHER 3/4            | 2   |     |          |             |     |
| 2   | 4160199  | PIVOT AXLE                | 2   |     |          |             |     |
| 3   | 4160188  | TOP SUPPORT ASSEMBLY      | 2   |     |          |             |     |
| 4   | 4160187  | REAR FRAME ATTACHMENT     | 1   |     |          |             |     |
| 5   | 4160186  | SPROCKET ATTACHEMENT      | 2   |     |          |             |     |
| 6   | F041214  | BOLT 3/4 UNC X 1 1/2 GR.8 | 2   |     |          |             |     |
| 7   | F041260  | BOLT 3/4 UNC X 6 GR.8     | 4   |     |          |             |     |
| 8   | 4160202  | BOLT. FLANGE 5/8 UNC X 2  | 4   |     |          |             |     |
| 9   | F211200  | LOCKNUT 3/4 UNC           | 4   |     |          |             |     |
| 10  | F311200  | LOCKWASHER 3/4            | 2   |     |          |             |     |
| 11  | F351200  | FLATWASHER 3/4 O.D. 1 1/2 | 8   |     |          |             |     |
| 12  | KM11494  | GREASE FITTING 1/8 X 7/16 | 2   |     |          |             |     |
| 13  | 4160180  | TRACK. LEFT - 32 PITCH    | 1   |     |          |             |     |
| 14  | 4160181  | TRACK. RIGHT - 36 PITCH   | 1   |     |          |             |     |
| 15  | 4160182  | FRONT SPRCKT 18 TEETH     | 2   |     |          |             |     |
| 16  | 4160189  | TRACK FRAME ASSY. LEFT    | 1   |     |          |             |     |
| 17  | 4160190  | TRACK FRAME ASSY. RIGHT   | 1   |     |          |             |     |

FIGURE 29



**FIGURE 29**

| ITM | PART NO.  | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | 4139139.7 | MNT-PALLET DISPENSER      | 1   |     |          |             |     |
| 2   | 4133659   | BEARING                   | 2   |     |          |             |     |
| 3   | 4136313   | MANIFOLD-PALLET DISP      | 1   |     |          |             |     |
| 4   | 4136866.7 | BRKT-PALLET MANIFOLD      | 1   |     |          |             |     |
| 5   | 4138840.7 | MNT PALLET DISP           | 1   |     |          |             |     |
| 6   | 4139128.7 | BRKT-SENSOR PALLET DISP   | 1   |     |          |             |     |
| 7   | F870818   | BOLT-FLANGE 1/2-13 X 2    | 6   |     |          |             |     |
| 8   | F040434   | BLT-HEX 1/4-20 X 3-1/2    | 4   |     |          |             |     |
| 9   | F040816   | BLT-FLG HD 1/2-13 X 1-1/2 | 6   |     |          |             |     |
| 10  | F210408   | LOCKNUT-1/4-20            | 4   |     |          |             |     |
| 11  | F040612   | BLT-HEX 3/8-16X1-1/4      | 2   |     |          |             |     |
| 12  | F210812   | LOCKNUT-1/2-13            | 8   |     |          |             |     |
| 13  | F210608   | LOCKNUT-3/8-16            | 2   |     |          |             |     |
| 14  | F040820   | BLT-HEX 1/2-13X2          | 2   |     |          |             |     |
| 15  | F330808   | WASHER-33/64X1-1/4X12     | 2   |     |          |             |     |
| 16  | F210802   | NUT-WLF 1/2-13            | 6   |     |          |             |     |
| 17  | 4132983   | SENSOR                    | 1   |     |          |             |     |
| 18  | 4135022   | CLAMP-3/4 OD HOSE         | 1   |     |          |             |     |
| 19  | F040524   | BLT-HEX 5/16-18X2-1/2     | 1   |     |          |             |     |
| 20  | F210508   | LOCKNUT-NYLON 5/16-18     | 1   |     |          |             |     |

FIGURE 30

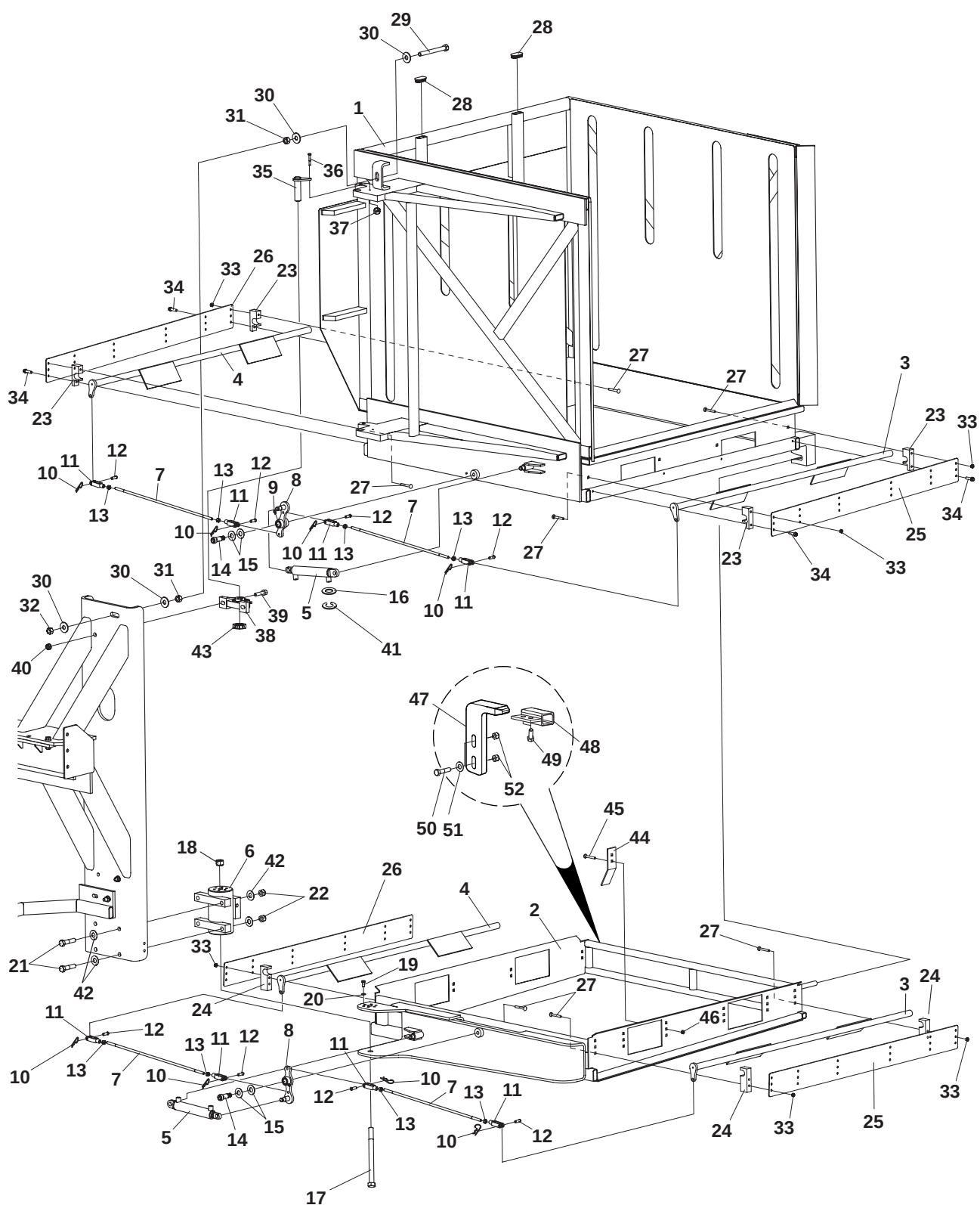
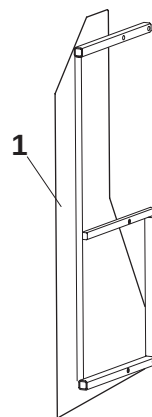
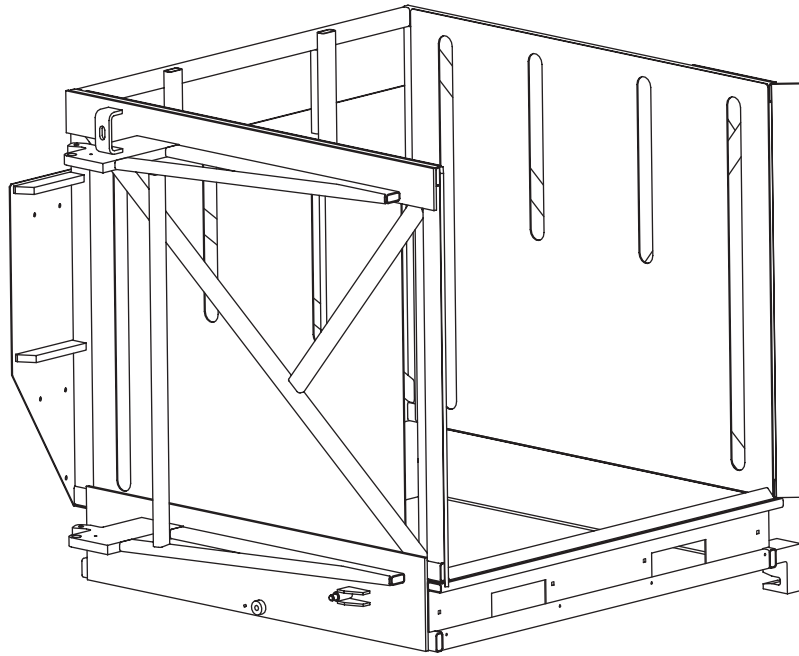


FIGURE 30

| ITM | PART NO. | DESCRIPTION                          | QTY | ITM | PART NO. | DESCRIPTION               | QTY |
|-----|----------|--------------------------------------|-----|-----|----------|---------------------------|-----|
| 1   | 4160426  | S-WLDMT-PALLET DISPNSR               | 1   | 41  | 64144-36 | SNAP RING                 | 4   |
| 2   | 4139140  | S-WLDMT-PALLET DISPNSR               | 1   | 42  | F331008  | WASHER                    | 8   |
| 3   | 4138353  | WLDMT-DISP PADDLES                   | 2   | 43  | 4138481  | COLLAR-CLAMP              | 2   |
| 4   | 4138354  | WLDMT-DISP PADDLES                   | 2   | 44  | 4139860  | BRKT-PALLET SLIDE         | 2   |
| 5   | 4134118  | CYLINDER                             | 2   | 45  | F020520  | BLT-CRG 5/16-18X2-1/2     | 4   |
| 6   | 4133657  | ACTUATOR-ROTARY HYD                  | 1   | 46  | F210508  | LOCKNUT-NYLON 5/16-18     | 4   |
| 7   | 4133802  | LINK-ARM, ACTUATOR                   | 4   | 47  | 4160283  | LATCH - SECONDARY         | 1   |
| 8   | 4136786  | WLDMT-BELLCRANK                      | 2   | 48  | 4160307  | RCVR. LATCH - SECONDARY   | 1   |
|     | 4136835  | BEARING BUSHING<br>(INCLUDES ITEM 9) | 2   | 49  | F140606  | SCREW 3/8 UNC X 3/4 SOC.  | 2   |
| 9   | 85010N   | ZERK                                 | 2   | 50  | F040632  | BOLT 3/8 UNC X 1 1/4 GR.8 | 2   |
| 10  | F910110  | COTTER PIN                           | 8   | 51  | F320600  | FLATWASHER 3/8            | 8   |
| 11  | 38020-01 | CLEVIS YOKE                          | 8   | 52  | F210600  | LOCKNUT 3/8 UNC           | 4   |
| 12  | KX00622  | S PIN-CLEVIS                         | 8   |     |          |                           |     |
| 13  | F230608  | NUT-3/8-24                           | 8   |     |          |                           |     |
| 14  | 4136870  | SHOULDER SCREW                       | 2   |     |          |                           |     |
| 15  | F331208  | WASHER                               | 4   |     |          |                           |     |
| 16  | F330908  | WASHER                               | 4   |     |          |                           |     |
| 17  | F041210  | BOLT-3/4 X 9 1/2                     | 1   |     |          |                           |     |
| 18  | F211208  | LOCKNUT-3/4-10                       | 1   |     |          |                           |     |
| 19  | F040612  | BOLT-HEX 3/8-16X1                    | 6   |     |          |                           |     |
| 20  | F310608  | LOCKWASHER-3/8                       | 6   |     |          |                           |     |
| 21  | F041026  | BOLT,5/8-11 X 3-1/2                  | 4   |     |          |                           |     |
| 22  | F211008  | LOCKNUT-5/8-11                       | 4   |     |          |                           |     |
| 23  | 4136042  | BLOCK-BAR SUPPORT                    | 8   |     |          |                           |     |
| 24  | 4136043  | BLOCK-BAR SUPPORT                    | 8   |     |          |                           |     |
| 25  | 4137551  | S-PLATE-SMOOTH SURFACE               | 2   |     |          |                           |     |
| 26  | 4137552  | PLATE-PALLET SOD GUIDE               | 2   |     |          |                           |     |
| 27  | F020516  | BOLT-CRG 5/16-18 X 1-3/4             | 20  |     |          |                           |     |
| 28  | 4134551  | CAPPLUGS- 1 X 2                      | 2   |     |          |                           |     |
| 29  | F041060  | BOLT-5/8-11X6.00                     | 1   |     |          |                           |     |
| 30  | F331008  | WASHER                               | 4   |     |          |                           |     |
| 31  | F231008  | NUT-HEX 5/8-11                       | 2   |     |          |                           |     |
| 32  | F211008  | LOCKNUT-5/8-11                       | 1   |     |          |                           |     |
| 33  | 64273-01 | NUT-LOW PROFILE CMTAINR              | 20  |     |          |                           |     |
| 34  | 64152-65 | SCREW-5/16-18 X 1 1/4                | 8   |     |          |                           |     |
| 35  | 4133793  | WLDMT-PIVOT PIN                      | 2   |     |          |                           |     |
| 36  | F040416  | BOLT-1/4-20 X 1-3/4                  | 2   |     |          |                           |     |
| 37  | F210408  | LOCKNUT-1/4-20                       | 2   |     |          |                           |     |
| 38  | 4133659  | BEARING-HOUSED                       | 2   |     |          |                           |     |
| 39  | F870818  | BOLT-FLANGE 1/2-13 X 2               | 4   |     |          |                           |     |
| 40  | F210808  | LOCKNUT-1/2-13                       | 4   |     |          |                           |     |

\* NOT ILLUSTRATED

FIGURE 31



| ITM | PART NO. | DESCRIPTION            | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|------------------------|-----|-----|----------|-------------|-----|
| 1   | 4160149  | WLDMT-PILING WALL EXT. | 1   |     |          |             |     |

FIGURE 32

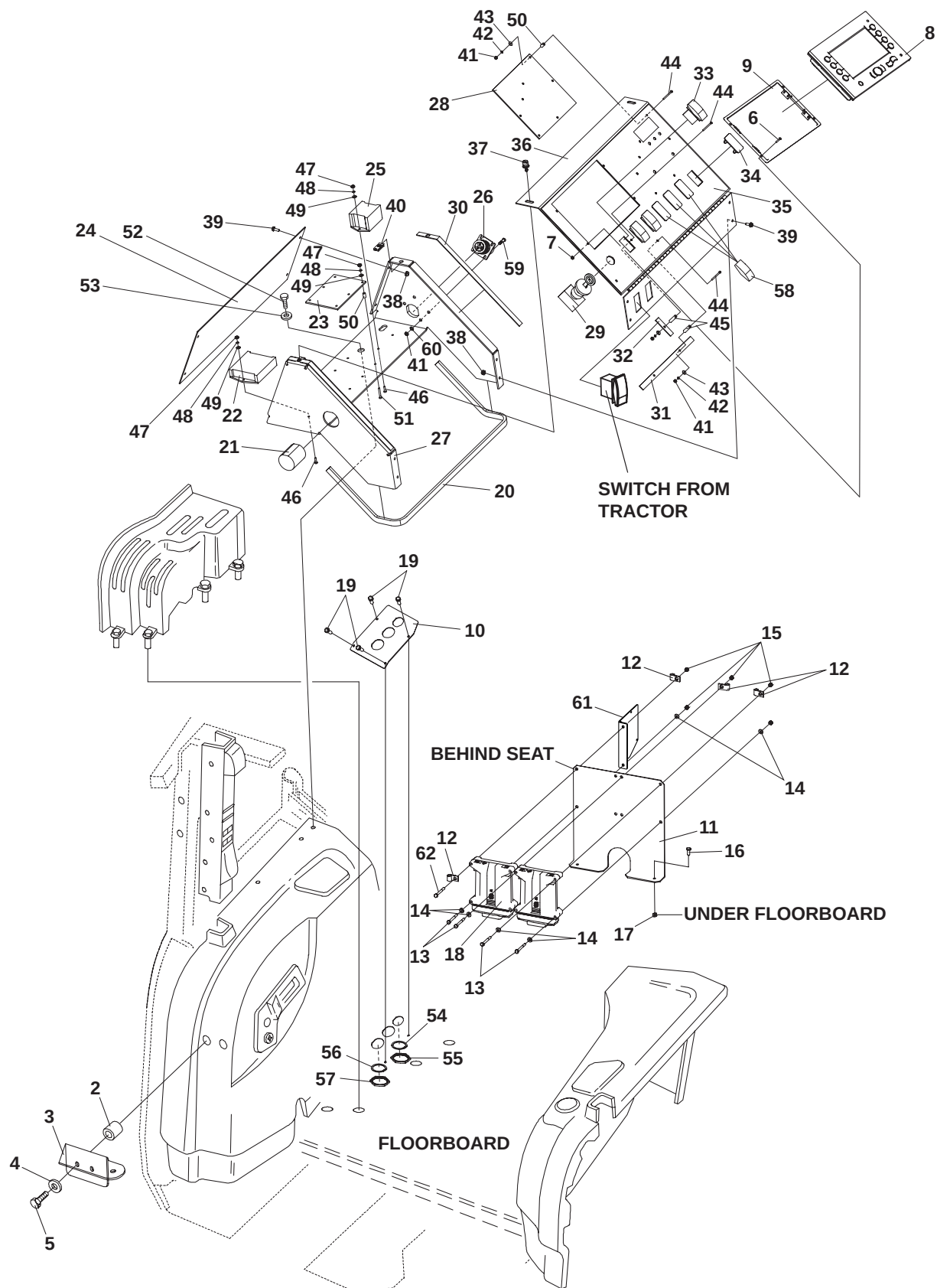




FIGURE 32

| ITM | PART NO.   | DESCRIPTION                                     | QTY | ITM | PART NO.   | DESCRIPTION               | QTY |
|-----|------------|-------------------------------------------------|-----|-----|------------|---------------------------|-----|
| 1   | 4134149    | ASSY- CONTROL PANEL<br>(INCLUDES ITEMS 20 - 53) | 1   | 35  | 4136074    | LABEL-CONTROL PANEL       | 1   |
| 2   | 4129241    | SPACER                                          | 2   | 36  | 4136073    | WLDMT-PANEL CONTROL       | 1   |
| 3   | 4137513    | S-BRKT-MNT AUTOSTR ADJ                          | 1   | 37  | 4134149-11 | KNURLED SLOTTED STUD      | 2   |
| 4   | 64006-06   | LOCKWASHER-7/16                                 | 2   | 38  | 64229-10   | NUT-NYLON INS #10-24      | 8   |
| 5   | 64205-009  | BLT-MET M10-1.5X65                              | 2   | 39  | 64152-46   | SCREW-SLT HH 10-24X1/2    | 8   |
| 6   | 64152-57   | SCREW-MACH #8-32X3/8                            | 4   | 40  | 4134149-12 | CLIP ON RECEPTACLE        | 2   |
| 7   | 64229-09   | LOCKNUT-NYLON INS #8-32                         | 4   | 41  | 4134149-24 | #4-40 HEX MACHINE NUT     | 17  |
| 8   | 4133998    | DISPLAY UNIT                                    | 1   | 42  | 4134149-22 | LOCKWASHER-#4 DIA.        | 15  |
| 9   | 4133993    | MOUNTING PANEL                                  | 1   | 43  | 4134149-21 | WASHER-#4 DIA. TYPE "B"   | 12  |
| 10  | 4129899.7  | PLATE-BULKHEAD MOUNT                            | 1   | 44  | 4134149-25 | #4-40 X 1 HSBHCS          | 12  |
| 11  | 4129635    | WLDMT-RLR PLATE LIFT RH                         | 1   | 45  | 4134149-26 | STANDOFF-LONG             | 5   |
| 12  | 48228A     | CABLE CLIP-INSULATED                            | 4   | 46  | 4134149-20 | #6-32 X 1/2 PH SCREW      | 4   |
| 13  | 64123-98   | BLT-HEX 1/4-20X2-1/2                            | 8   | 47  | 4134149-18 | #6-32 HEX MACHINE NUT     | 10  |
| 14  | 453023     | FLATWASHER-1/4                                  | 12  | 48  | 4134149-17 | LOCKWASHER-#6 DIA.        | 10  |
| 15  | 64229-01   | LOCKNUT-1/4-20 NYLON                            | 8   | 49  | 4134149-16 | WASHER-#6 DIA. TYPE "A"   | 10  |
| 16  | 64123-54   | BOLT-5/16-18X3/4 HEX                            | 2   | 50  | 4134149-15 | STANDOFF-SHORT            | 13  |
| 17  | 64229-02   | LOCKNUT-NYLON 5/16-18                           | 2   | 51  | 4134149-19 | #6-32 X 1 PH SCREW        | 6   |
| 18  | 4133992    | CONTROLLER                                      | 2   | 52  | 4134149-13 | BOLT                      | 3   |
| 19  |            | BOLTS<br>(INCLUDED WITH TRACTOR)                | 4   | 53  | 4134149-23 | WASHER                    | 3   |
| 20  | 4134149-14 | TRIM                                            | 1   | 54  | 4138952    | LOCKWASHER                | 2   |
| 21  | 4134149-6  | DEUTSCH CONN                                    | 1   | 55  | 4138953    | NUT                       | 2   |
| 22  | 4134149-7  | DUAL PWM CNTRL MOD                              | 1   | 56  | 4138954    | LOCKWASHER                | 1   |
| 23  | 4134149-8  | FUSE PANEL PCB                                  | 1   | 57  | 4138955    | NUT                       | 1   |
| *   | 4134149-28 | FUSE-3 AMP                                      | 3   | 58  | 4138301    | SWITCH-ROCKER             | 3   |
| *   | 4134149-29 | FUSE-10 AMP                                     | 1   | 59  | 64152-30   | SCREW                     | 4   |
| *   | 4134149-30 | FUSE-20 AMP                                     | 1   | 60  | 01-039     | LOCKWASHER                | 4   |
| 24  | 4134162    | COVER PLATE-CNTRL PNL                           | 1   | 61  | 4160166    | BRACKET. CAN BUS JUNC.    | 1   |
| 25  | 4134149-9  | 12V TO 24V CONVERTER                            | 1   | 62  | F040428    | BOLT 1/4 UNC X 2 3/4 GR.8 | 1   |
| 26  | 4134149-10 | DEUTSCH CONN                                    | 1   |     |            |                           |     |
| 27  | 4132624    | BASE-INSTRUMENT PNL                             | 1   |     |            |                           |     |
| 28  | 4134149-5  | COUNTER-PCB                                     | 1   |     |            |                           |     |
| 29  | 4134149-2  | E-STOP SWITCH                                   | 1   |     |            |                           |     |
| 30  | 4134152    | STRIP-FOAM RUBBER                               | 2   |     |            |                           |     |
| 31  | 4134149-4  | LED BACKLIGHT PCB LONG                          | 1   |     |            |                           |     |
| 32  | 4134149-3  | LED BACKLIGHT PCB SHORT                         | 3   |     |            |                           |     |
| 33  | 4134149-1  | CARLING SWITCH                                  | 3   |     |            |                           |     |
| 34  | 4134149-27 | PLUG-CARLING SWITCH                             | 4   |     |            |                           |     |

\* NOT ILLUSTRATED  
SEE FIGURE 49

FIGURE 33

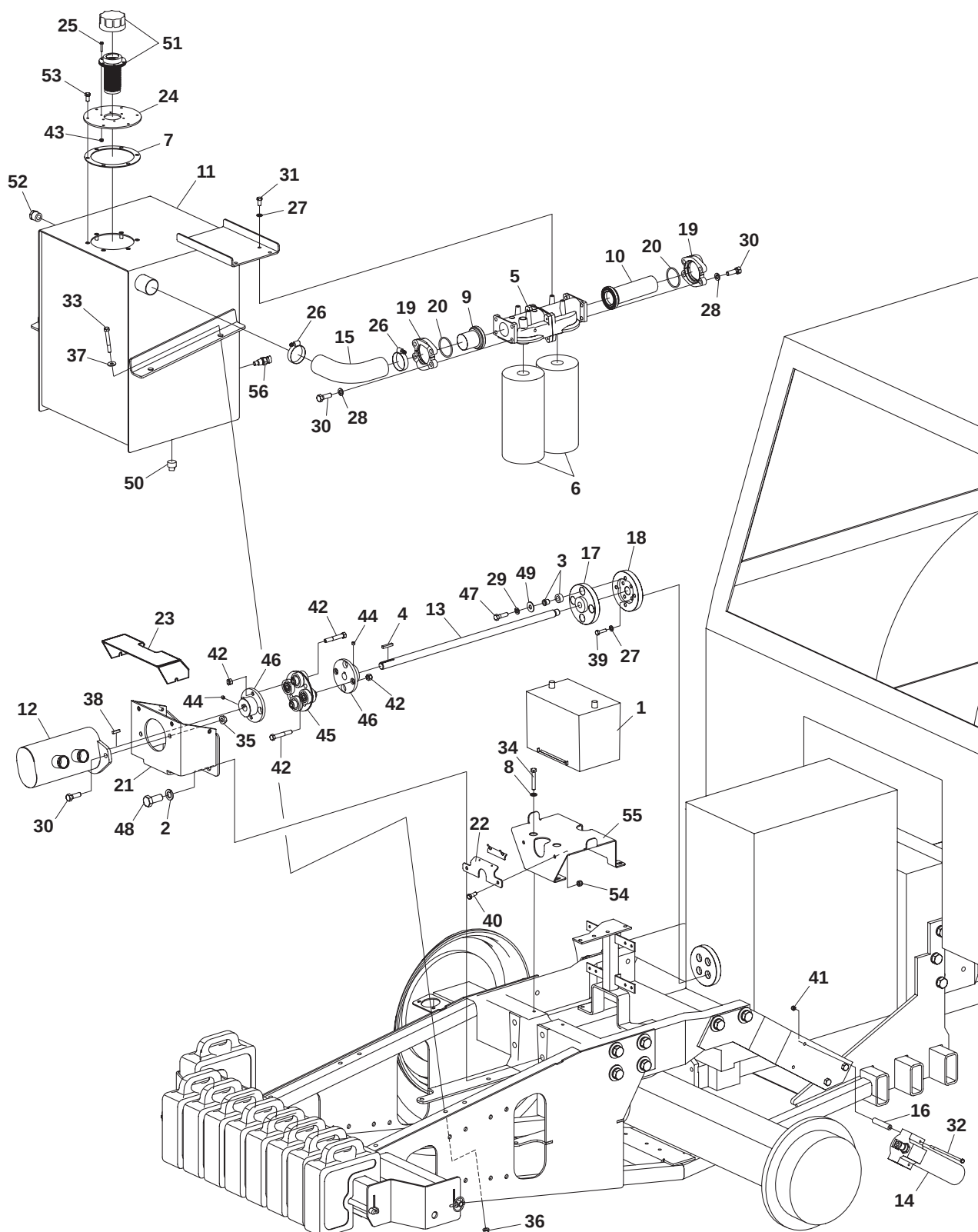


FIGURE 33

| ITM | PART NO.           | DESCRIPTION                   | QTY | ITM                           | PART NO.  | DESCRIPTION              | QTY |
|-----|--------------------|-------------------------------|-----|-------------------------------|-----------|--------------------------|-----|
| 1   | 4160018            | BATTERY                       | 1   | 37                            | F330608   | WASHER-25/64X1X12        | 4   |
| 2   | G311200            | LOCKWASHER-20MM               | 4   | 38                            | Q0579     | KEY-1/4X1/4X1 SQ END     | 1   |
| 3   | 001425             | BUSHING-PUMP FLANGE           | 4   | 39                            | G0108030  | BOLT-MET M8-1.25X30      | 4   |
| 4   | Q0579              | KEY-1/4" X 1/4" X 1-1/2"      | 1   | 40                            | F040610   | BOLT-HEX 3/8-16X1        | 4   |
| 5   | KH40049            | FILTER HEAD MODULE            | 1   | 41                            | F210408   | LOCKNUT-1/4-20           | 2   |
| 6   | KH40048            | FILTER-SPIN ON                | 2   | 42                            | 87-201    | BOLT SET-502             | 1   |
| 7   | 202662             | GASKET-HYD. TANK COVER        | 1   | (INCLUDES 4 BOLTS AND 4 NUTS) |           |                          |     |
| 8   | F330400            | FLATWASHER-1/4                | 2   | 43                            | F210200   | NUT-NYLON INS #10-24 UNC | 6   |
| 9   | 4128638            | TUBE-FILTER HEAD              | 1   | 44                            | F110604   | SET SCREW-3/8-16 X 1/2   | 2   |
| 10  | 4128642.7          | MANIFOLD-INLET                | 1   | 45                            | 87-202    | COUPLING-502 CENTER      | 1   |
| 11  | 4160159            | S-TANK-HYDRAULIC              | 1   | 46                            | 87-203    | COUPLER-MORFLEX FLANGE   | 2   |
|     | 4137556            | OIL-5GAL FLOMITE 579          |     | 47                            | F040714   | BOLT-7/16-14 X 1-1/2 NC  | 4   |
| 12  | 4131272            | PUMP-3 SECTION                | 1   | 48                            | G0420045  | BOLT-MET M20-2.5X45      | 4   |
| 13  | 4160586            | SHAFT-PUMP DRIVE. up to #137A | 1   | 49                            | F330708   | FLAT WASHER-7/16 SAE ZP  | 4   |
|     | 4160586            | SHAFT-PUMP DRIVE. from #137B  | 1   | 50                            | H8011     | PLUG-MAGNETIC            | 1   |
| 14  | 4131669            | FILTER-HIGH PRESSURE          | 1   | 51                            | KH40003   | PRESSURE FILLER BRTHR    | 1   |
|     | 4131669-01         | FILTER-REPL HI PRESSURE       | 1   | 52                            | KH10005   | FITTING-SIGHT GLASS      | 1   |
|     | KO00138            | 'O' RING-FILTER CANNISTER     | 1   | 53                            | F850410   | BOLT, FLANGE 1/4-20 X 1  | 6   |
| 15  | 4139831            | HOSE-90 DEG                   | 1   | 54                            | F210608   | LOCKNUT-NYLON 3/8-16     | 4   |
| 16  | 4132690            | SPACER-BUSHING                | 2   | 55                            | 4137236.7 | TRAY-BATTERY             | 1   |
| 17  | 4136050            | FLANGE-PUMP DRIVE             | 1   | 56                            | 4134628   | SENSOR- LIQUID TEMP      | 1   |
| 18  | 4136045            | ADAPTOR-CRANKSHAFT            | 1   |                               |           |                          |     |
| 19  | 4133660            | FLANGE-SPLIT HALF 2"          | 2   |                               |           |                          |     |
|     | (INCLUDES ITEM 20) |                               |     |                               |           |                          |     |
| 20  | 158061-05          | O-RING                        | 2   |                               |           |                          |     |
| 21  | 4136361.7          | WLDMT-MOUNT, HYD PUMP         | 1   |                               |           |                          |     |
| 22  | 4137237.7          | CLAMP-REAR BATTERY            | 2   |                               |           |                          |     |
| 23  | 4136364            | SHIELD-PUMP DRIVE SHAFT       | 1   |                               |           |                          |     |
| 24  | 6115846.7          | COVER-HYDRAULIC TANK          | 1   |                               |           |                          |     |
| 25  | F540210            | SCREW-MACHINE 10-24 X 1       | 6   |                               |           |                          |     |
| 26  | 108094-09          | CLAMP-HOSE SAE36              | 2   |                               |           |                          |     |
| 27  | 64006-03           | LOCKWASHER-3/8                | 8   |                               |           |                          |     |
| 28  | 64006-05           | LOCKWASHER-1/2                | 8   |                               |           |                          |     |
| 29  | F210708            | LOCKWASHER-7/16               | 4   |                               |           |                          |     |
| 30  | 64123-117          | BOLT-HEX 1/2-13X1-1/2         | 10  |                               |           |                          |     |
| 31  | 64123-15           | BOLT-HEX 3/8-16X3/4           | 4   |                               |           |                          |     |
| 32  | F040460            | BOLT-HEX 1/4-20X6             | 2   |                               |           |                          |     |
| 33  | F040630            | BOLT-HEX 3/8-16X3             | 4   |                               |           |                          |     |
| 34  | F040406            | BOLT-HEX 1/4-20X3/4           | 2   |                               |           |                          |     |
| 35  | F210805            | NUT-WLF 1/2-13                | 2   |                               |           |                          |     |
| 36  | F210605            | NUT-WLF 3/8-16                | 4   |                               |           |                          |     |

FIGURE 34

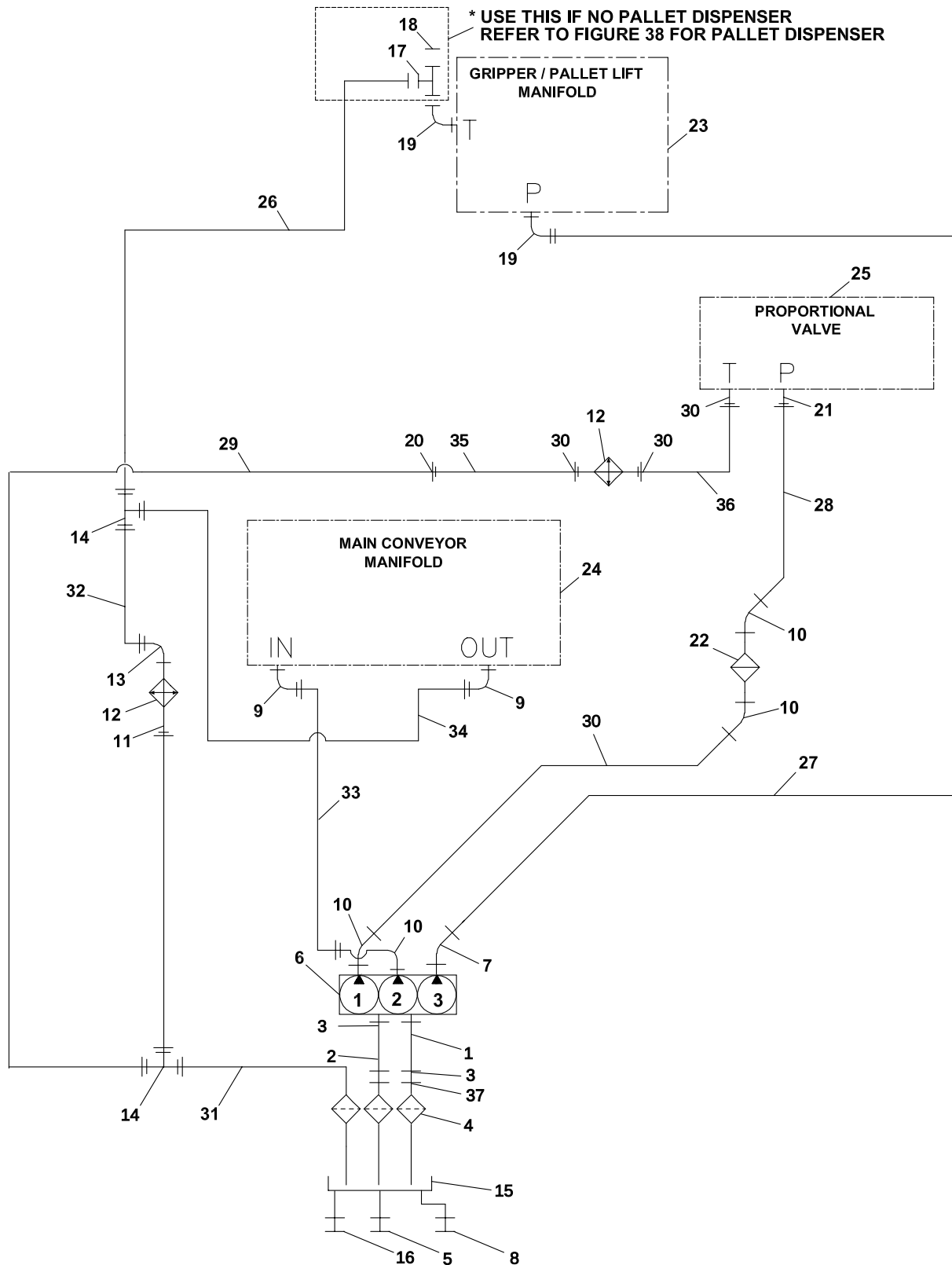


FIGURE 34

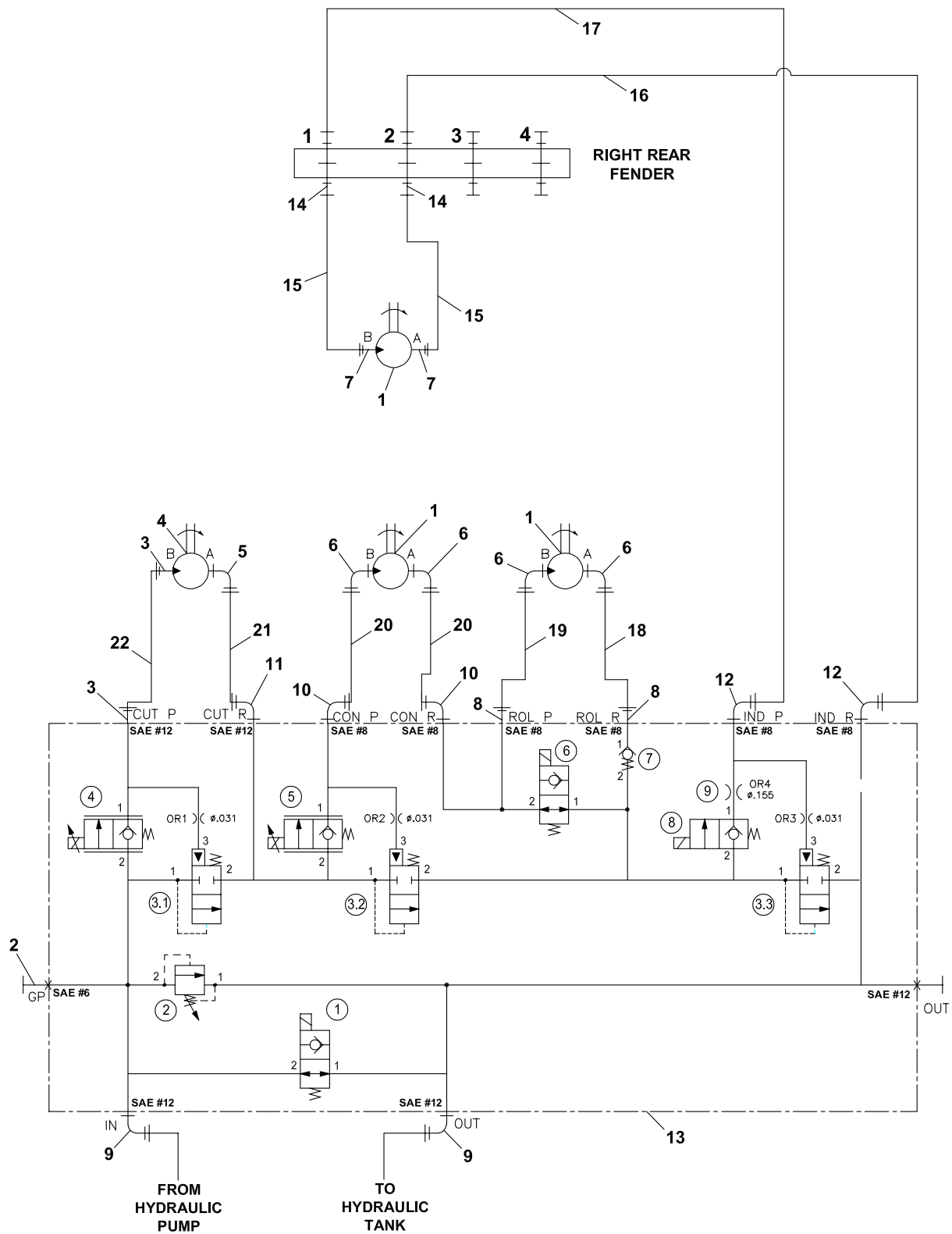
| ITM | PART NO.        | DESCRIPTION                      | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------------|----------------------------------|-----|-----|----------|-------------|-----|
| 1   | 4160634         | HOSE ASSEMBLY - 28 IN. LG.       | 1   |     |          |             |     |
| 2   | 4160633         | HOSE ASSEMBLY - 23 IN. LG.       | 1   |     |          |             |     |
| 3   | KH60008         | HOSE CLAMP                       | 4   |     |          |             |     |
| 4   | KH40020         | SUCTION STRAINER                 | 3   |     |          |             |     |
| 5   | H8011           | PLUG-MAGNETIC                    | 1   |     |          |             |     |
| 6   | 4131272         | PUMP-HYDRAULIC                   | 1   |     |          |             |     |
| 7   | 8-10-070320     | ELBOW-MALE 45 8X10               | 1   |     |          |             |     |
| 8   | 4136961         | SIGHT-RESERVOIR                  | 1   |     |          |             |     |
| 9   | 12-12-070220    | FIT-90 -12MORB/-12MJIC           | 3   |     |          |             |     |
| 10  | 12-12-070320    | FIT-45 -12MORB X -12MJIC         | 3   |     |          |             |     |
| 11  | 16-16-070102    | FIT-STR -16M ORB/-16MJIC         | 1   |     |          |             |     |
| 12  | 4136036         | COOLER-OIL                       | 2   |     |          |             |     |
| 13  | 16-16-070220    | FIT-90 -16 MJIC X -16 MORB       | 1   |     |          |             |     |
| 14  | 16-16-16-070432 | FIT-UNION TEE -16 MJIC           | 1   |     |          |             |     |
| 15  | 4160519         | WLDMT-HYDRAULIC TANK             | 1   |     |          |             |     |
| 16  | 4134628         | SENSOR-LIQUID TEMP               | 1   |     |          |             |     |
| 17  | 8-8-8-070401    | FIT-TEE -8 FJIC/ 2)-8 MJIC       | 1   |     |          |             |     |
| 18  | 8-070112        | CAP- -8 FEM JIC                  | 1   |     |          |             |     |
|     |                 | (NOT USED WITH PALLET DISPENSER) |     |     |          |             |     |
| 19  | 6-8-070220      | FIT-90 -6 M ORB X -8 M JIC       | 2   |     |          |             |     |
| 20  | 12-12-070101    | FIT-STR -12 MORB/ -12 MJIC       | 1   |     |          |             |     |
| 21  | 10-12-070120    | FIT-STR -10 M ORB/-12 MJIC       | 1   |     |          |             |     |
| 22  | 4131669         | FILTER - HIGH PRESSURE           | 1   |     |          |             |     |
| 23  | 4134062         | MANIFOLD-GRIPPER/PALLET          | 1   |     |          |             |     |
| 24  | 4132956         | MANIFOLD-MAIN CONVEYOR           | 1   |     |          |             |     |
| 25  | 4142690         | VALVE-PROPORTIONAL               | 1   |     |          |             |     |
| 26  | 2692319-01      | HOSE-#8 JIC/#12 JIC X 37         | 1   |     |          |             |     |
| 27  | 2692305-06      | HOSE-#8 JIC/90S JIC X 154        | 1   |     |          |             |     |
| 28  | 2692321-03      | HOSE-#12 JIC/JIC X 120           | 1   |     |          |             |     |
| 29  | 2692318-02      | HOSE-#16 JIC/#12 JIC X 87        | 1   |     |          |             |     |
| 30  | 2692321-01      | HOSE-#12 JIC/JIC X 89            | 1   |     |          |             |     |
| 31  | 2692317-02      | HOSE-#16 JIC/JIC X 222           | 1   |     |          |             |     |
| 32  | 2692317-01      | HOSE-#16 JIC/JIC X 61            | 1   |     |          |             |     |
| 33  | 2692321-02      | HOSE-#12 JIC/JIC X 73            | 1   |     |          |             |     |
| 34  | 2692318-01      | HOSE-#16 JIC/#12 JIC X 47        | 1   |     |          |             |     |
| 35  | 2692400-01      | HOSE ASSEMBLY                    | 1   |     |          |             |     |
| 36  | 2692400-02      | HOSE ASSEMBLY                    | 1   |     |          |             |     |
| 37  | 24-24-430292    | FITTING-90 DEG ELBOW #24         | 2   |     |          |             |     |

**NOTE**

HOSE KIT. MAIN - 4160058.

\* USE THIS IF NO PALLET DISPENSER  
REFER TO FIGURE 40 FOR PALLET  
DISPENSER

FIGURE 35



**FIGURE 35**

| ITM | PART NO.     | DESCRIPTION                  | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|--------------|------------------------------|-----|-----|----------|-------------|-----|
| 1   | H0012        | MOTOR - OBSOLETE             | 3   |     |          |             |     |
|     | KH30007      | MOTOR - SEE NOTE 1           | 3   |     |          |             |     |
| 2   | 2690043      | FITTING-TEST PORT            | 1   |     |          |             |     |
| 3   | 10-10-070120 | FIT-STR -10 M ORB/-10 MJIC   | 2   |     |          |             |     |
| 4   | 21-091       | MOTOR-HYD CUTTERHEAD         | 1   |     |          |             |     |
| 5   | 10-10-070220 | FIT-90 -10 M ORB/-10 M JIC   | 1   |     |          |             |     |
| 6   | 8-8-070120   | FIT-90 -8 MPT X -8 M JIC     | 4   |     |          |             |     |
| 7   | 6-8-070120   | FIT-STR -8 MPT X -6 MJIC     | 2   |     |          |             |     |
| 8   | 8-8-070601   | FIT-STRAIGHT 8 ORB X 8 JIC   | 2   |     |          |             |     |
| 9   | 12-12-070220 | FIT-90 -12 M ORB/-12 M JIC   | 2   |     |          |             |     |
| 10  | 8-8-070220   | FIT-90 -8 M ORB X -8 M JIC   | 2   |     |          |             |     |
| 11  | 10-12-070220 | FIT-90 -12 M ORB/-10 M JIC   | 1   |     |          |             |     |
| 12  | 6-8-070220   | FIT-90 -8 M ORB X -6 M JIC   | 2   |     |          |             |     |
| 13  | 4132956      | MANIFOLD-MAIN CONVEYOR       | 1   |     |          |             |     |
| 14  | 6-6-070801   | FIT-BH 45 EL #6 MJIC/#6 MJIC | 2   |     |          |             |     |
| 15  | 2692308-01   | HOSE-#6 JIC/45 JICX46        | 2   |     |          |             |     |
| 16  | 2692304-03   | HOSE-#6 JIC/90S JICX96.50    | 1   |     |          |             |     |
| 17  | 2692304-04   | HOSE-#6 JIC/90L JICX96.50    | 1   |     |          |             |     |
| 18  | 2692305-05   | HOSE-#8 JIC/90L JICX151      | 1   |     |          |             |     |
| 19  | 2692305-04   | HOSE-#8 JIC/90S JICX147      | 1   |     |          |             |     |
| 20  | 2692305-03   | HOSE-#8 JIC/90S JICX109      | 2   |     |          |             |     |
| 21  | 2692306-01   | HOSE-#10 JIC/90S JICX102.50  | 1   |     |          |             |     |
| 22  | 2692316-01   | HOSE-#12 JIC/#10 JICX95.50   | 1   |     |          |             |     |

**NOTE 1**

ITEM 1 - H0012 IS OBSOLETE  
AND IS REPLACED BY SERVICE KIT  
4160611. IT INCLUDES:  
MOTOR - KH30007 QTY. 1  
FITTINGS - 8-10-070220. QTY. 2

**NOTE 2**

HOSE KIT. MAIN CONVEYOR  
MANIFOLD - 4160059.

FIGURE 36

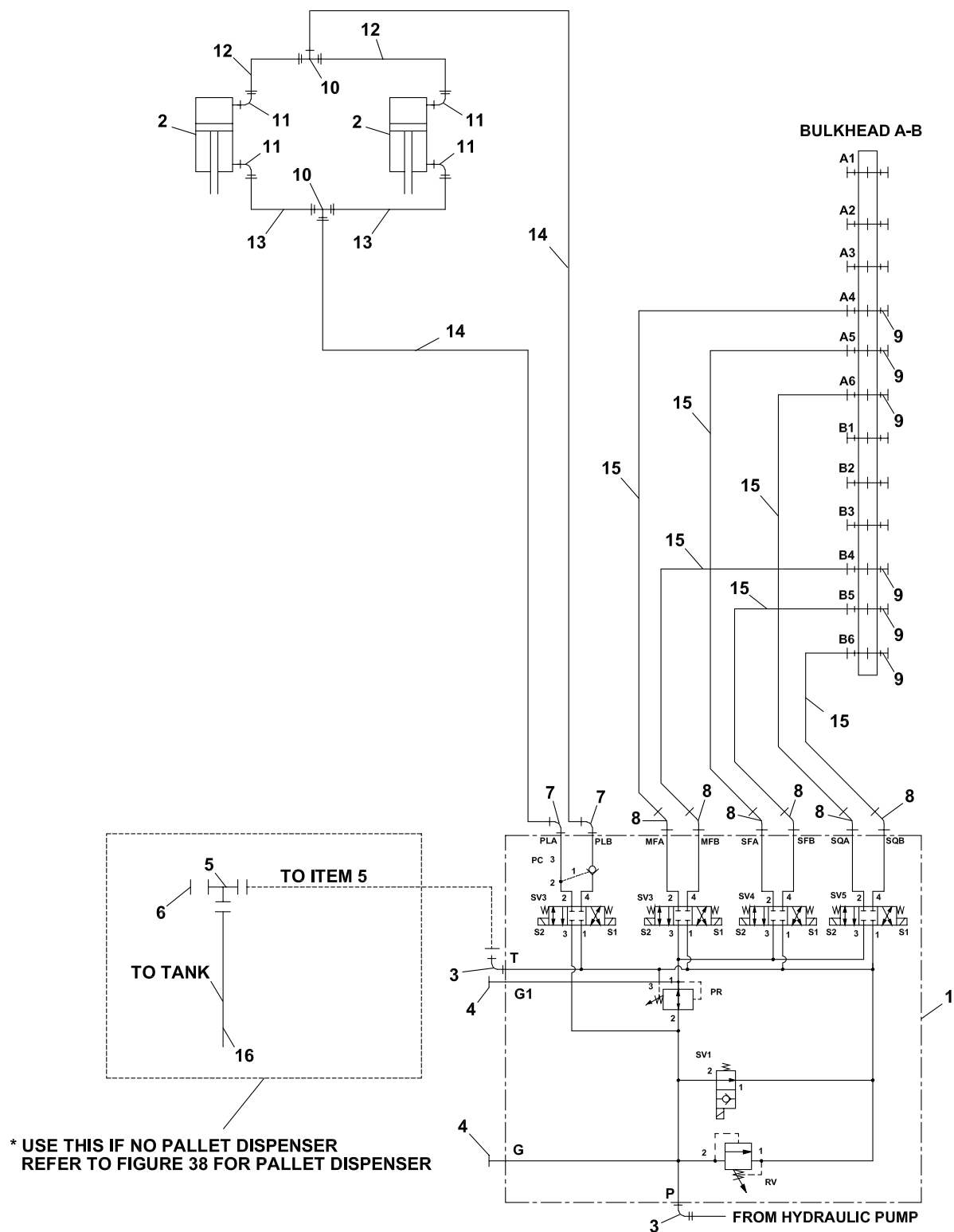




FIGURE 36

| ITM | PART NO.     | DESCRIPTION                      | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|--------------|----------------------------------|-----|-----|----------|-------------|-----|
| 1   | 4134062      | MANIFOLD-GRIPPER/PALLET          | 1   |     |          |             |     |
| 2   | 4132569      | CYLINDER-PALLET LIFT             | 2   |     |          |             |     |
| 3   | 6-8-070220   | FIT-90 -6 M ORB X -8 M JIC       | 2   |     |          |             |     |
| 4   | 2690043      | FIT-TEST PORT                    | 2   |     |          |             |     |
| 5   | 8-8-070401   | FIT-TEE -8 FJIC/ 2)-8 MJIC       | 1   |     |          |             |     |
| 6   | 8-070112     | CAP, -8 FEM JIC                  | 1   |     |          |             |     |
|     |              | (NOT USED WITH PALLET DISPENSER) |     |     |          |             |     |
| 7   | 6-6-070220   | FIT-90 -6 M ORB X -6 M JIC       | 2   |     |          |             |     |
| 8   | 6-6-070320   | FIT-45 -6 M ORB X -6 M JIC       | 6   |     |          |             |     |
| 9   | 6-6-070801   | FIT-BH 45 EL#6 MJIC/#6 MJIC      | 6   |     |          |             |     |
| 10  | 6-6-6-070432 | FIT-UNION TEE -6 M JIC (3)       | 2   |     |          |             |     |
| 11  | 6-8-070220   | FIT-90 -8 M ORB X -6 M JIC       | 4   |     |          |             |     |
| 12  | 2692301-08   | HOSE-#6 JIC/JICX35.00            | 2   |     |          |             |     |
| 13  | 2692301-09   | HOSE-#6 JIC/JICX26.00            | 2   |     |          |             |     |
| 14  | 2692301-07   | HOSE-#6 JIC/JICX30.00            | 2   |     |          |             |     |
| 15  | 2692301-06   | HOSE-#6 JIC/JICX28.00            | 6   |     |          |             |     |
| 16  | 2692319-01   | HOSE-#8 JIC/#12 JIC X 37.00      | 1   |     |          |             |     |

\* USE THIS IF NO PALLET DISPENSER  
REFER TO FIGURE 40 FOR PALLET  
DISPENSER

**NOTE**

HOSE KIT. GRIPPER/PALLET LIFT  
MANIFOLD - 4160060.

FIGURE 37

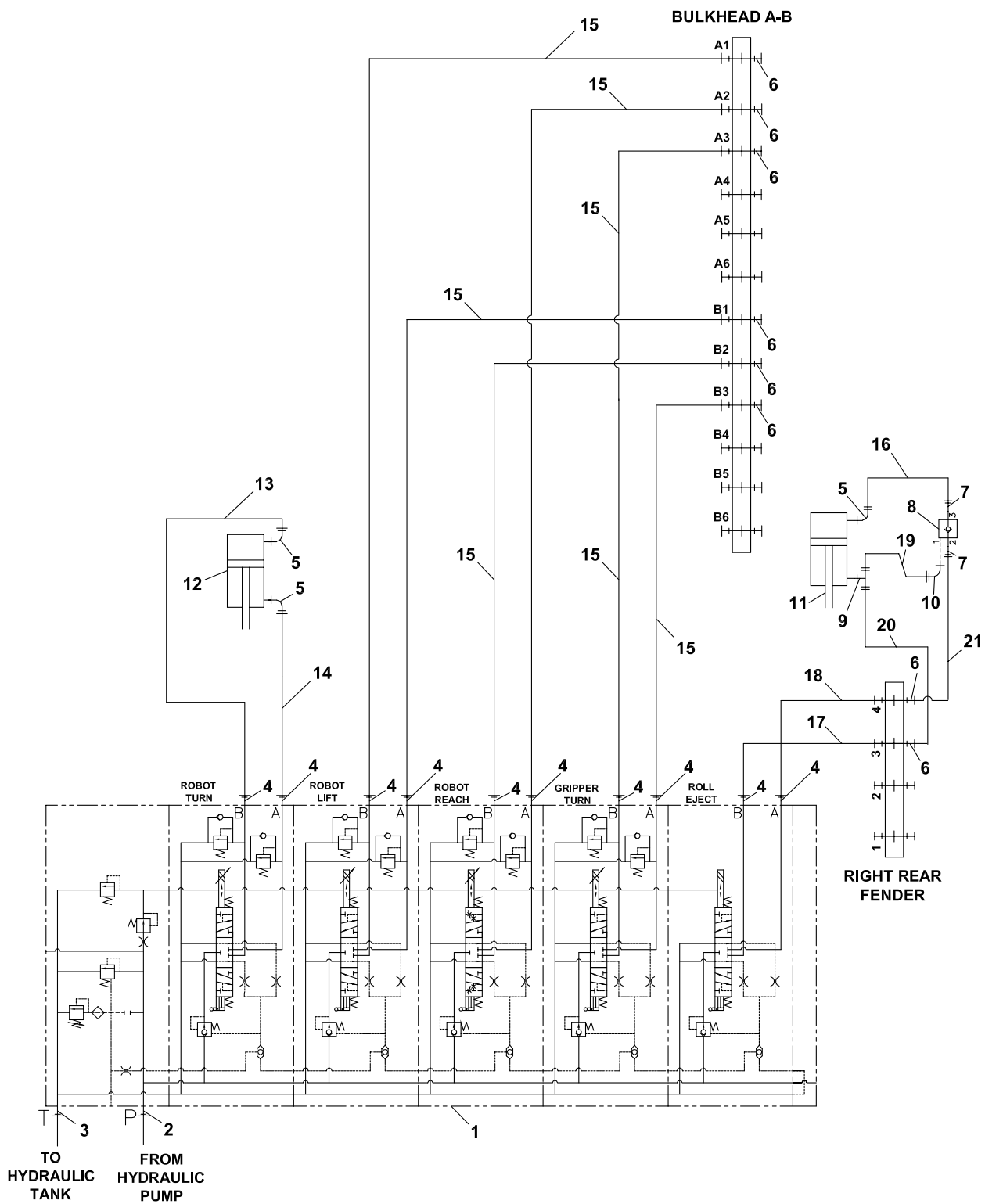


FIGURE 37

| ITM | PART NO.     | DESCRIPTION                  | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|--------------|------------------------------|-----|-----|----------|-------------|-----|
| 1   | 4142690      | VALVE-PROPORTIONAL           | 1   |     |          |             |     |
| 2   | 10-12-070120 | FIT-STR -10 M ORB/-12 MJIC   | 1   |     |          |             |     |
| 3   | 12-12-070120 | FIT-STR -12 MORB/ -12 MJIC   | 1   |     |          |             |     |
| 4   | 10-06-070120 | FIT-STR -10 M ORB/-6 M JIC   | 10  |     |          |             |     |
| 5   | 6-6-070220   | FIT-90 -6 M ORB X -6 M JIC   | 3   |     |          |             |     |
| 6   | 6-6-070801   | FIT-BH 45 EL #6 MJIC/#6 MJIC | 8   |     |          |             |     |
| 7   | 6-8-070120   | FIT-STR -8 M ORB/-6 M JIC    | 2   |     |          |             |     |
| 8   | 4135655      | VALVE-PILOT OPERATED         | 1   |     |          |             |     |
| 9   | 6-6-6-070429 | FIT-TEE 6 M ORB X 6 JIC      | 1   |     |          |             |     |
| 10  | 8-6-070220   | FIT-90 -8 M ORB X -6 M JIC   | 1   |     |          |             |     |
| 11  | 4131860      | CYLINDER-.75 DIA/10.5 STRK   | 1   |     |          |             |     |
| 12  | 4132965      | CYLINDER-2.0 BORE, 1.0 ROD   | 1   |     |          |             |     |
| 13  | 2692301-05   | HOSE-#6 JIC/JIC X 63.50      | 1   |     |          |             |     |
| 14  | 2692301-03   | HOSE-#6 JIC/JIC X 78.00      | 1   |     |          |             |     |
| 15  | 2692301-04   | HOSE-#6 JIC/JIC X 80.00      | 6   |     |          |             |     |
| 16  | 2692301-09   | HOSE-#6 JIC/JIC X 26.00      | 1   |     |          |             |     |
| 17  | 2692304-02   | HOSE-#6 JIC/90S JIC X 92.00  | 1   |     |          |             |     |
| 18  | 2692304-01   | HOSE-#6 JIC/90L JIC X 93.50  | 1   |     |          |             |     |
| 19  | 2692304-06   | HOSE-#6 JIC/90S JIC X 36.50  | 1   |     |          |             |     |
| 20  | 2692301-02   | HOSE-#6 JIC/JIC X 60.00      | 1   |     |          |             |     |
| 21  | 2692301-01   | HOSE-#6 JIC/JIC X 53.50      | 1   |     |          |             |     |

**NOTE**

HOSE KIT. PROPORTIONAL VALVE  
STACK - 4160061.

FIGURE 38

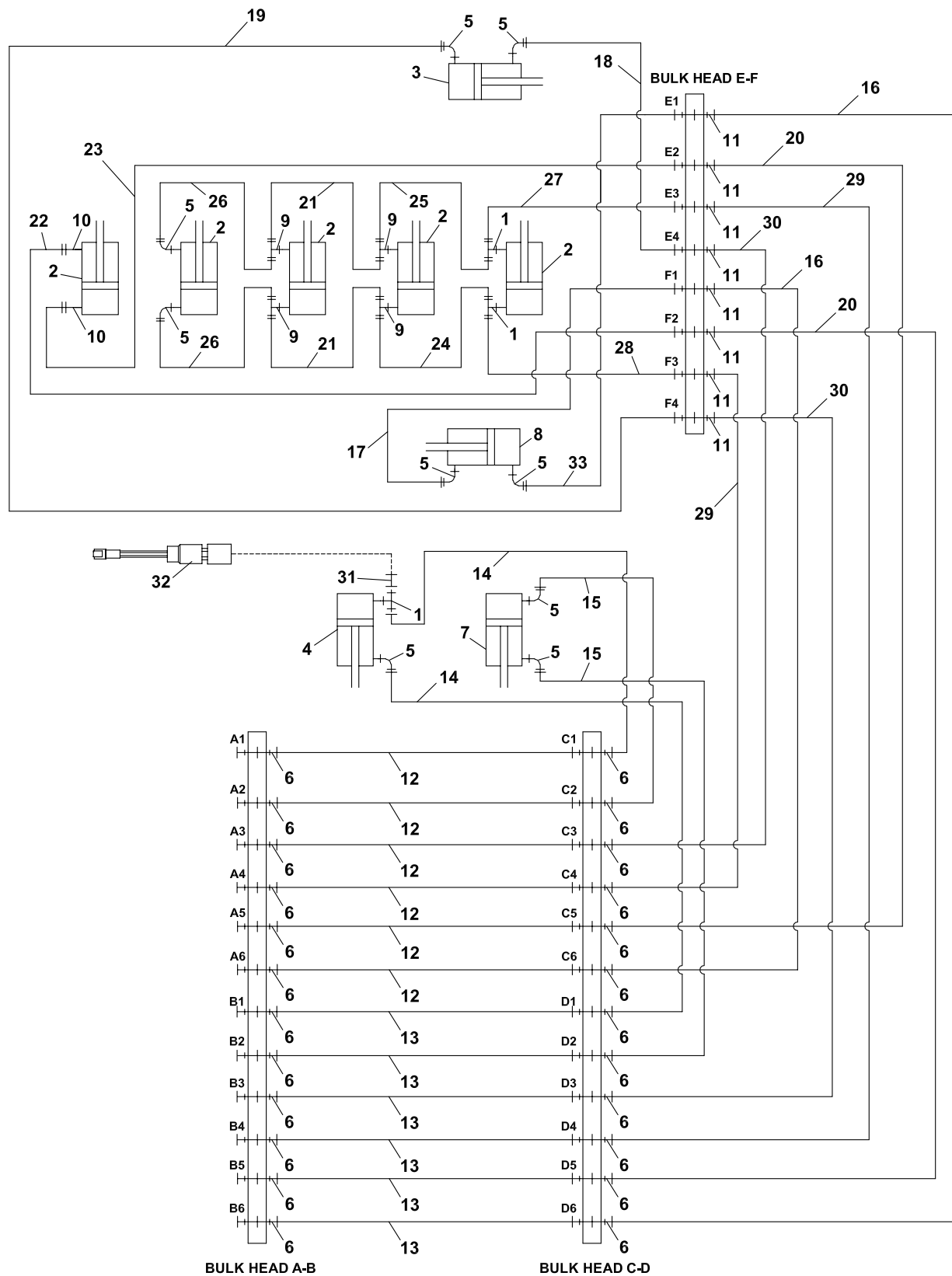


FIGURE 38

| ITM | PART NO.     | DESCRIPTION                  | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|--------------|------------------------------|-----|-----|----------|-------------|-----|
| 1   | 6-6-6-070429 | FIT-RUN TEE -6 M ORB (X1)    | 3   |     |          |             |     |
| 2   | 4128723      | CYLINDER-FACE MOUNT          | 5   |     |          |             |     |
| 3   | 4132971      | CYLINDER-1.5 BORE, 1.0 RD    | 1   |     |          |             |     |
| 4   | 4132790      | CYLINDER-2.5 BORE, 1.25 RD   | 1   |     |          |             |     |
| 5   | 6-6-6-070220 | FIT-90 -6 M ORB X -6 M JIC   | 9   |     |          |             |     |
| 6   | 6-6-6-070801 | FIT-BH 45 EL #6 MJIC/#6 MJIC | 24  |     |          |             |     |
| 7   | 4132793      | CYLINDER- 2 BORE, 1 ROD      | 1   |     |          |             |     |
| 8   | 4128874      | CYLINDER-HYDRAULIC           | 1   |     |          |             |     |
| 9   | 6-6-6-070428 | FITTING,TEE 6 M ORB X 6      | 4   |     |          |             |     |
| 10  | 6-6-6-070120 | FIT-STR -6 M ORB/-6 M JIC    | 2   |     |          |             |     |
| 11  | 6-6-6-070701 | FIT-BH 90 EL #6 MJIC/#6 MJIC | 8   |     |          |             |     |
| 12  | 2692304-06   | HOSE-#6 JIC/90S JIC X 36.50  | 6   |     |          |             |     |
| 13  | 2692304-05   | HOSE-#6 JIC/90L JIC X 29.50  | 6   |     |          |             |     |
| 14  | 2692301-11   | HOSE-#6 JIC/JIC X 40         | 2   |     |          |             |     |
| 15  | 2692301-12   | HOSE-#6 JIC/JIC X 53         | 2   |     |          |             |     |
| 16  | 2692301-10   | HOSE-#6 JIC/JIC X 85         | 2   |     |          |             |     |
| 17  | 2692307-05   | HOSE-#6 90JIC/90JIC X 54     | 1   |     |          |             |     |
| 18  | 2692304-09   | HOSE-#6 JIC/90L JIC X 55     | 1   |     |          |             |     |
| 19  | 2692304-08   | HOSE-#6 JIC/90S JIC X 46.5   | 1   |     |          |             |     |
| 20  | 2692308-02   | HOSE-#6 JIC/45 JIC X 88      | 2   |     |          |             |     |
| 21  | 2692304-11   | HOSE-#6 JIC/90S JIC X 19     | 2   |     |          |             |     |
| 22  | 2692307-01   | HOSE-#6 90L JIC/90S JICX54   | 1   |     |          |             |     |
| 23  | 2692307-02   | HOSE-#6 90L JIC/90LJICX55.5  | 1   |     |          |             |     |
| 24  | 2692307-03   | HOSE-#6 90S JIC/90S JICX19   | 1   |     |          |             |     |
| 25  | 2692304-12   | HOSE-#6 JIC/90S JICX20.00    | 1   |     |          |             |     |
| 26  | 2692304-13   | HOSE-#6 JIC/90S JICX18.00    | 2   |     |          |             |     |
| 27  | 2692307-04   | HOSE-#6 90L JIC/90LJICX45.5  | 1   |     |          |             |     |
| 28  | 2692304-14   | HOSE-#6 JIC/90S JICX40.50    | 1   |     |          |             |     |
| 29  | 2692304-15   | HOSE-#6 JIC/90S JICX87.00    | 2   |     |          |             |     |
| 30  | 2692304-16   | HOSE-#6 JIC/90L JICX92.00    | 2   |     |          |             |     |
| 31  | 25-6402-6-6  | FTG-6M O-RING                | 1   |     |          |             |     |
| 32  | 4134283      | SWITCH-ADJ PRESSURE          | 1   |     |          |             |     |
| 33  | 2692335-01   | HOSE-#6 90JIC/45JIC X 51     | 1   |     |          |             |     |

**NOTE**

HOSE KIT. ROBOTIC ARM/GRIPPER  
HEAD - 4160062.

FIGURE 39

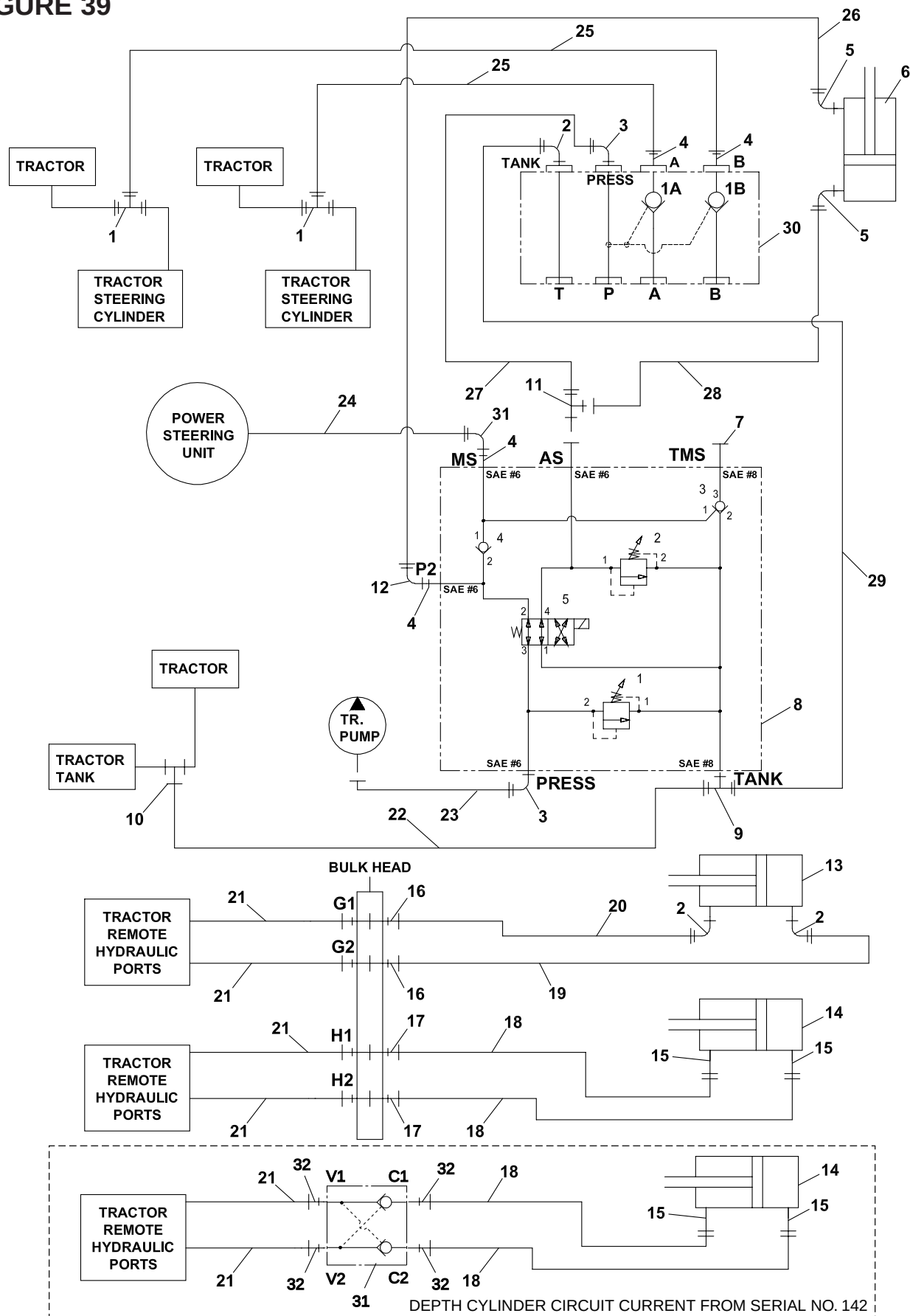
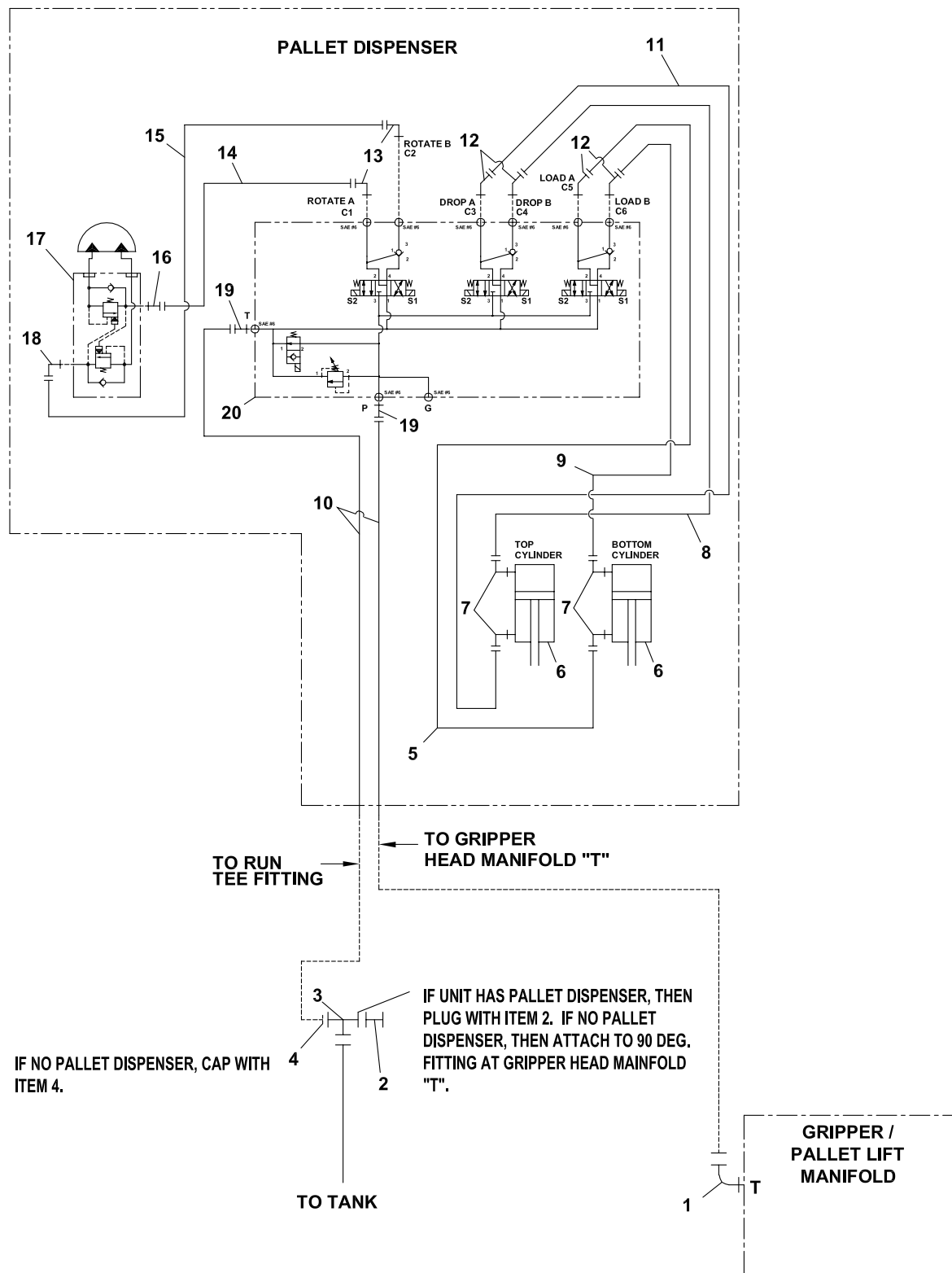


FIGURE 39

| ITM | PART NO.      | DESCRIPTION                                 | QTY | ITM                                                                              | PART NO. | DESCRIPTION | QTY |
|-----|---------------|---------------------------------------------|-----|----------------------------------------------------------------------------------|----------|-------------|-----|
| 1   | 25-063T-6-6   | NUT, RUN TEE SWIVEL                         | 2   | <div> <b>NOTE</b><br/> HOSE KIT. AUTO-STEER/CONVEYOR<br/> LIFT - 4160063. </div> |          |             |     |
| 2   | 25-2503-6-8   | FIT-90 -6 M ORB X -8 M JIC                  | 3   |                                                                                  |          |             |     |
| 3   | 25-2503-6-6   | FIT-90 -6 M ORB X -6 M JIC                  | 2   |                                                                                  |          |             |     |
| 4   | 25-0503-6-6   | FIT-STR -6 M ORB/-6 M JIC                   | 4   |                                                                                  |          |             |     |
|     |               | (USED ON 4-WHEEL DRIVE ONLY)                |     |                                                                                  |          |             |     |
|     | 25-3503-6-6   | FITTING-45                                  | 2   |                                                                                  |          |             |     |
|     |               | (USED ON 2-WHEEL DRIVE ONLY)                |     |                                                                                  |          |             |     |
| 5   | H6189         | FIT-90 DEG 1/8"NPTx3/8"                     | 2   |                                                                                  |          |             |     |
| 6   | 23-199        | CYLINDER, AUTOSTEER                         | 1   |                                                                                  |          |             |     |
| 7   | 25-05CP-8     | FIT-PLUG -8 M ORB                           | 1   |                                                                                  |          |             |     |
| 8   | 4134547       | MANIFOLD-AUTOSTEER                          | 1   |                                                                                  |          |             |     |
| 9   | 25-053T-8-8   | FIT-RUN TEE -8 M ORB (X1)                   | 1   |                                                                                  |          |             |     |
| 10  | 25-063T-10-10 | FITTING-TEE                                 | 1   |                                                                                  |          |             |     |
| 11  | 25-053T-6-6   | FITTING-RUN TEE                             | 1   |                                                                                  |          |             |     |
| 12  | 25-3903-6-6   | FITTING-90                                  | 2   |                                                                                  |          |             |     |
| 13  | H500208       | CYLINDER-CONVEYOR LIFT                      | 1   |                                                                                  |          |             |     |
|     |               | (SEE PG. 8, FIG. 2 FOR LIFT CYLINDER ASSY.) |     |                                                                                  |          |             |     |
| 14  | 23-178        | CYLINDER, HYD. 3 X 8                        | 1   |                                                                                  |          |             |     |
| 15  | 2690044       | FIT-.030 ORIFICE #6 ORB/#8                  | 2   |                                                                                  |          |             |     |
| 16  | 2690038-02    | FIT-BH 90 EL #8 MJIC/#8 MJIC                | 2   |                                                                                  |          |             |     |
| 17  | 25-0353-8-8   | FIT-STR BULKHEAD -8 MJIC                    | 2   |                                                                                  |          |             |     |
| 18  | 2692305-01    | HOSE-#8 JIC/90S JIC X 104                   | 2   |                                                                                  |          |             |     |
| 19  | 2692305-02    | HOSE-#8 JIC/90S JIC X 35.50                 | 1   |                                                                                  |          |             |     |
| 20  | 2692302-01    | HOSE-#8 JIC/JIC X 49.00                     | 1   |                                                                                  |          |             |     |
| 21  | 2692309-01    | HOSE-#8 JIC/#8 BANJOx56.5                   | 4   |                                                                                  |          |             |     |
|     |               | (ITEM 21 INSTALLED BY TRACTOR SUPPLIER)     |     |                                                                                  |          |             |     |
| 22  | 2692326-01    | HOSE-#10 JIC/#8 JIC X 62.00                 | 1   |                                                                                  |          |             |     |
| 23  | 2692327-01    | HOSE-#10 JIC/#6 JIC X 80.00                 | 1   |                                                                                  |          |             |     |
| 24  | 2692325-01    | HOSE-#6 JIC/#10 X 72.00                     | 1   |                                                                                  |          |             |     |
| 25  | 2692301-15    | HOSE-#6 JIC/JIC X 66.00                     | 2   |                                                                                  |          |             |     |
|     |               | (USED ON 4-WHEEL DRIVE ONLY)                |     |                                                                                  |          |             |     |
|     | 2692301-01    | HOSE-#6 JIC/JIC X 53.50                     | 2   |                                                                                  |          |             |     |
|     |               | (USED ON 2-WHEEL DRIVE ONLY)                |     |                                                                                  |          |             |     |
| 26  | 2692304-19    | HOSE-#6 JIC/90L JIC X 38.00                 | 1   |                                                                                  |          |             |     |
| 27  | 2692304-22    | HOSE-#6 JIC/90S JIC X 43.00                 | 1   |                                                                                  |          |             |     |
|     |               | (USED ON 4-WHEEL DRIVE ONLY)                |     |                                                                                  |          |             |     |
|     | 2692304-08    | HOSE-#6 JIC/90S JIC X 46.50                 | 1   |                                                                                  |          |             |     |
|     |               | (USED ON 2-WHEEL DRIVE ONLY)                |     |                                                                                  |          |             |     |
| 28  | 2692308-03    | HOSE-#6 JIC/45 JIC X 31.00                  | 1   |                                                                                  |          |             |     |
| 29  | 2692323-01    | HOSE-#8 90 JIC/#6 JIC X 45.00               | 1   |                                                                                  |          |             |     |
| 30  | H4085         | STEERING MANIFOLD                           | 1   |                                                                                  |          |             |     |
| 31  | KH20169       | LOCK VALVE                                  | 1   |                                                                                  |          |             |     |
| 32  | 8-8-0070220   | FITTING                                     | 4   |                                                                                  |          |             |     |

FIGURE 40





**FIGURE 40**

| ITM | PART NO.     | DESCRIPTION                 | QTY | ITM                                                              | PART NO. | DESCRIPTION | QTY |
|-----|--------------|-----------------------------|-----|------------------------------------------------------------------|----------|-------------|-----|
| 1   | 6-8-070220   | FITTING-90                  | 1   | <div><b>NOTE</b><br/>HOSE KIT. PALLET DISPENSER - 4160064.</div> |          |             |     |
| 2   | 08-070109    | FITTING-PLUG                | 1   |                                                                  |          |             |     |
| 3   | 8-8-8-070401 | FITTING-TEE                 | 1   |                                                                  |          |             |     |
| 4   | 8070112      | CAP                         | 1   |                                                                  |          |             |     |
| 5   | 2692301-18   | HOSE - #6 JIC/JIC X 55.00   | 1   |                                                                  |          |             |     |
| 6   | 4134118      | CYLINDER-5IN STROKE         | 2   |                                                                  |          |             |     |
| 7   | 6-6-070220   | FITTING-90                  | 2   |                                                                  |          |             |     |
| 8   | 2692301-11   | HOSE - #6 JIC/JIC X 40.00   | 3   |                                                                  |          |             |     |
| 9   | 2692301-12   | HOSE - #6 JIC/JIC X 53.00   | 1   |                                                                  |          |             |     |
| 10  | 2692322-01   | HOSE-#8 JIC/#6 JIC X 81.00  | 2   |                                                                  |          |             |     |
| 11  | 2692301-08   | HOSE - #6 JIC/JIC X 35.00   | 1   |                                                                  |          |             |     |
| 12  | 6-6-070320   | FITTING-45                  | 4   |                                                                  |          |             |     |
| 13  | 2690048      | FTG-.030 ORIFICE            | 2   |                                                                  |          |             |     |
| 14  | 2692301-02   | HOSE-#6 JIC/JIC X 60.00     | 1   |                                                                  |          |             |     |
| 15  | 2692304-21   | HOSE-#6 JIC/90S JIC X 57.00 | 1   |                                                                  |          |             |     |
| 16  | 4-6-070120   | FITTING-STR                 | 1   |                                                                  |          |             |     |
| 17  | 4133657      | ACTUATOR-ROTARY HYD         | 1   |                                                                  |          |             |     |
| 18  | 4-6-070220   | FITTING-90                  | 1   |                                                                  |          |             |     |
| 19  | 6-6-070120   | FITTING-STR                 | 2   |                                                                  |          |             |     |
| 20  | 4136313      | MANIFOLD-PLT DIPENSER       | 1   |                                                                  |          |             |     |

FIGURE 41

| MANIFOLD - GRIPPER / PALLET LIFT |     |                                             |            |            |
|----------------------------------|-----|---------------------------------------------|------------|------------|
| ITEM                             | QTY | DESCRIPTION                                 | PART #     | SEAL KIT # |
| SV3 - SV5                        | 3   | #10 SOLENOID, SPOOL, 4W3P                   | 4138894-01 | 4138894-03 |
| SV3 - SV5                        | 6   | #10 COIL, 12VDC, INTEGRAL DEUTSCH           | 4138894-02 | -----      |
| SV1                              | 1   | #08 SOLENOID, POPPET, 2W, N.C.              | 4134062-04 | 4134062-05 |
| SV2                              | 1   | #10 SOLENOID, SPOOL, 4W3P, CLOSED CENTER    | 4134062-01 | 4134062-03 |
| SV1                              | 1   | #10 COIL, 12VDC, INTEGRAL DEUTSCH           | 4134062-11 | -----      |
| PC                               | 1   | #10 CHECK, PILOT - TO - OPEN                | 4134062-08 | 4134062-09 |
| RV                               | 1   | #08 RELIEF, DIFF, AREA POPPET 1500 PSI      | 4134062-10 | 4134062-05 |
| PR                               | 1   | #10 PRESSURE RED / RELIEVING PILOT OPERATED | 4134062-06 | 4134062-07 |
| SV2                              | 2   | #10 COIL, 12VDC DEUTSCH LEAD                | 4134062-02 | -----      |

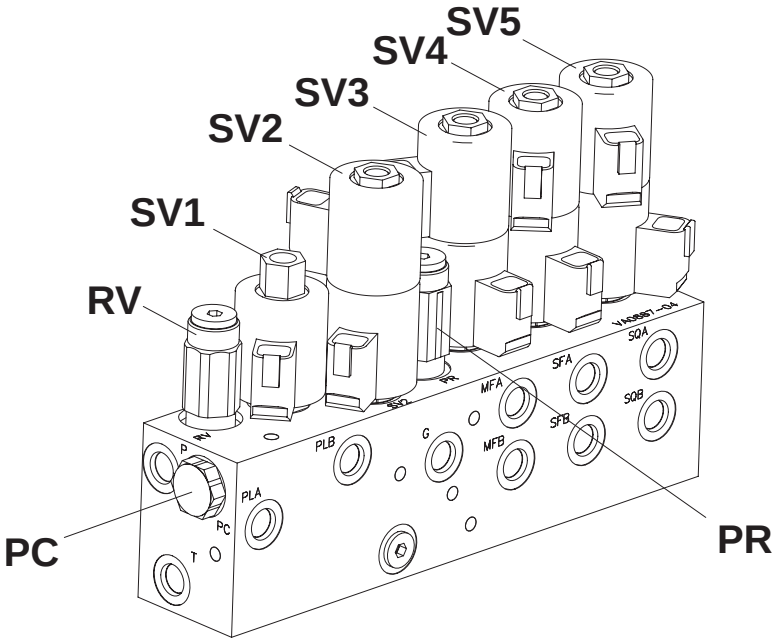


FIGURE 42

| MANIFOLD - PALLET DISPENSER |     |                                      |            |            |
|-----------------------------|-----|--------------------------------------|------------|------------|
| ITEM                        | QTY | DESCRIPTION                          | PART #     | SEAL KIT # |
| SV2 - SV4                   | 3   | #10 SOLENOID, SPOOL, 4W3P            | 4138894-01 | 4138894-03 |
| SV2 - SV4                   | 6   | #10 COIL, 12VDC, INTEGRAL DEUTSCH    | 4138894-02 | -----      |
| SV1                         | 1   | #10 COIL, 10VDC, INTEGRAL DEUTSCH    | 4138894-06 | -----      |
| PC1                         | 3   | #10 CHECK, PILOT - TO - OPEN         | 4138894-07 | 4138894-13 |
| SV1                         | 1   | #10 SOLENOID, POPPET, 2W, N.O.       | 4138894-16 | 4138894-11 |
| RV1                         | 1   | #08 RELIEF, DIFFERENTIAL AREA POPPET | 4138894-10 | 4138894-14 |

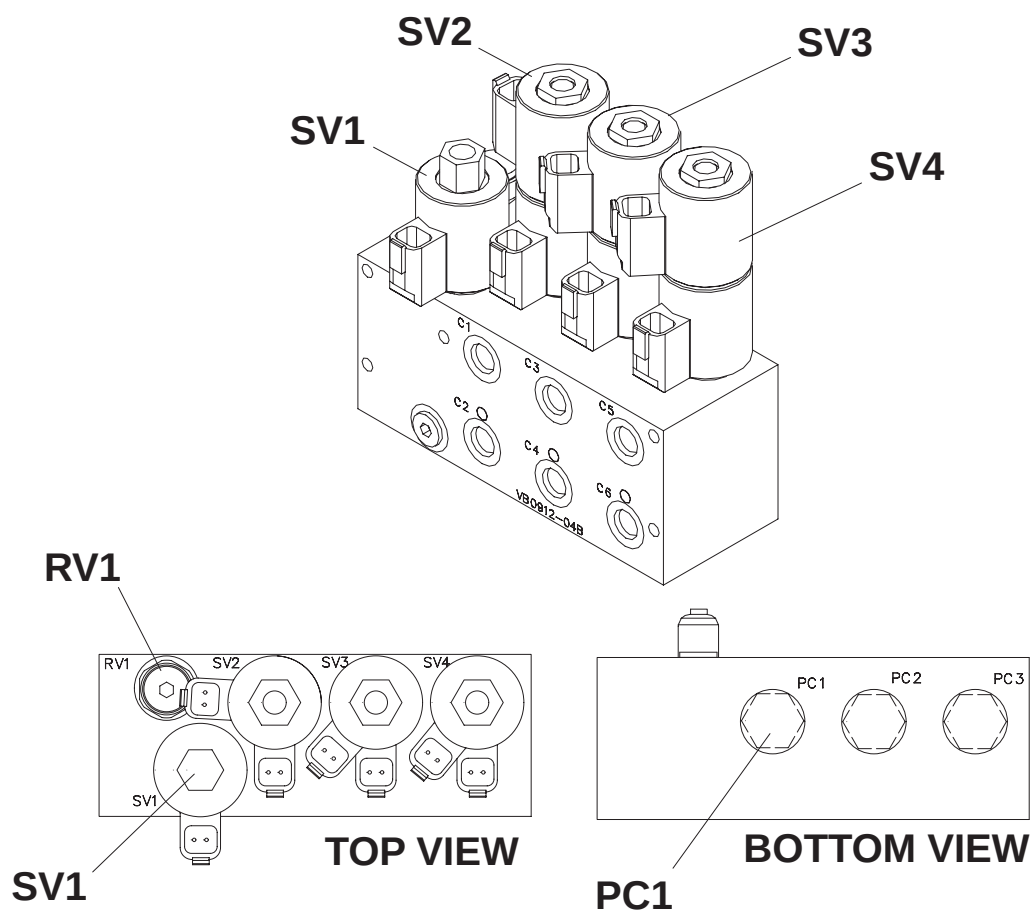
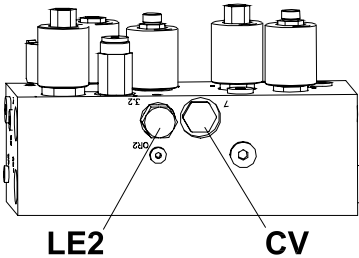
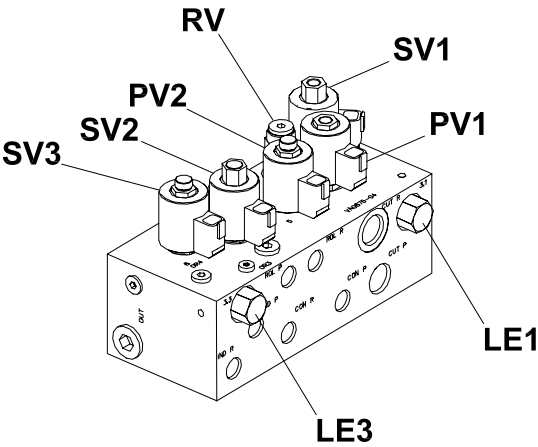


FIGURE 43

| MANIFOLD - MAIN CONVEYOR |     |                                   |            |            |
|--------------------------|-----|-----------------------------------|------------|------------|
| ITEM                     | QTY | DESCRIPTION                       | PART #     | SEAL KIT # |
| SV1                      | 1   | #12 SOLENOID, N.O. POPPET         | 4132956-01 | 4132956-02 |
| RV                       | 1   | #10 RELIEF, DIFF.AREA 3000PSI     | 4132956-03 | 4138894-11 |
| LE1 - LE3                | 3   | #10 PILOTED LOGIC ELEMENT 110PSI  | 4132956-04 | 4132956-05 |
| PV1                      | 1   | #12 PROPORTIONAL, N.C. POPPET     | 4132956-06 | 4132956-02 |
| PV2                      | 1   | #10 PROPORTIONAL, N.C. POPPET     | 4132956-07 | 4138894-11 |
| SV2                      | 1   | #10 SOLENOID, N.O. POPPET         | 4138894-04 | 4138894-11 |
| SV3                      | 1   | #10 SOLENOID, N.C. POPPET         | 4132956-09 | 4138894-11 |
| CV                       | 1   | #10 CHECK VALVE                   | 4132956-08 | 4138894-11 |
| OD                       | 1   | #10 - 2HD ORIFICE DISK 0.155 DIA. | 4132956-10 | -----      |
| SV1 - SV3<br>PV1 - PV2   | 5   | #10 COIL, 12VDC INTEGRAL DEUTSCH  | 4138894-06 | -----      |



BACK VIEW

FIGURE 44

| MANIFOLD - AUTOSTEER |     |                                    |            |            |
|----------------------|-----|------------------------------------|------------|------------|
| ITEM                 | QTY | DESCRIPTION                        | PART #     | SEAL KIT # |
| RV1                  | 1   | #10 RELIEF, DIFF AREA POPPET       | 4134547-01 | 4138894-11 |
| RV2                  | 1   | #10 RELIEF, DIRECT-ACTING POPPET   | 4134547-02 | 4134547-06 |
| CV1                  | 1   | #10 CHECK, PILOT-TO-OPEN           | 4138894-07 | 4138894-13 |
| CV2                  | 1   | #10 CHECK VALVE                    | 4134547-03 | 4134547-06 |
| SV                   | 1   | #10 SOLENOID, SPOOL, 4-WAY, 2-POS. | 4134547-04 | 4138894-12 |
| SV                   | 1   | #10 E-COIL, 12VDC DEUTSCH          | 4134547-05 | -----      |

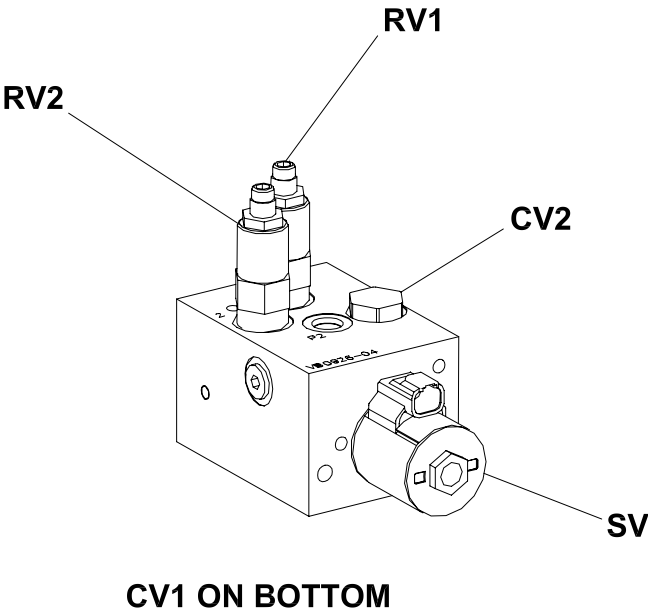
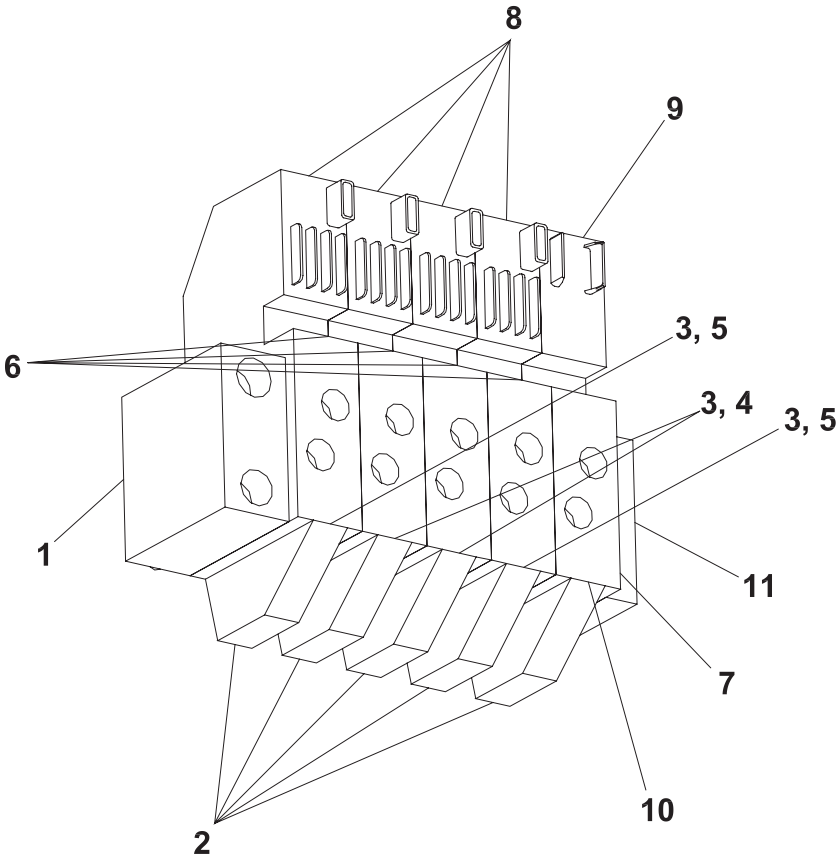


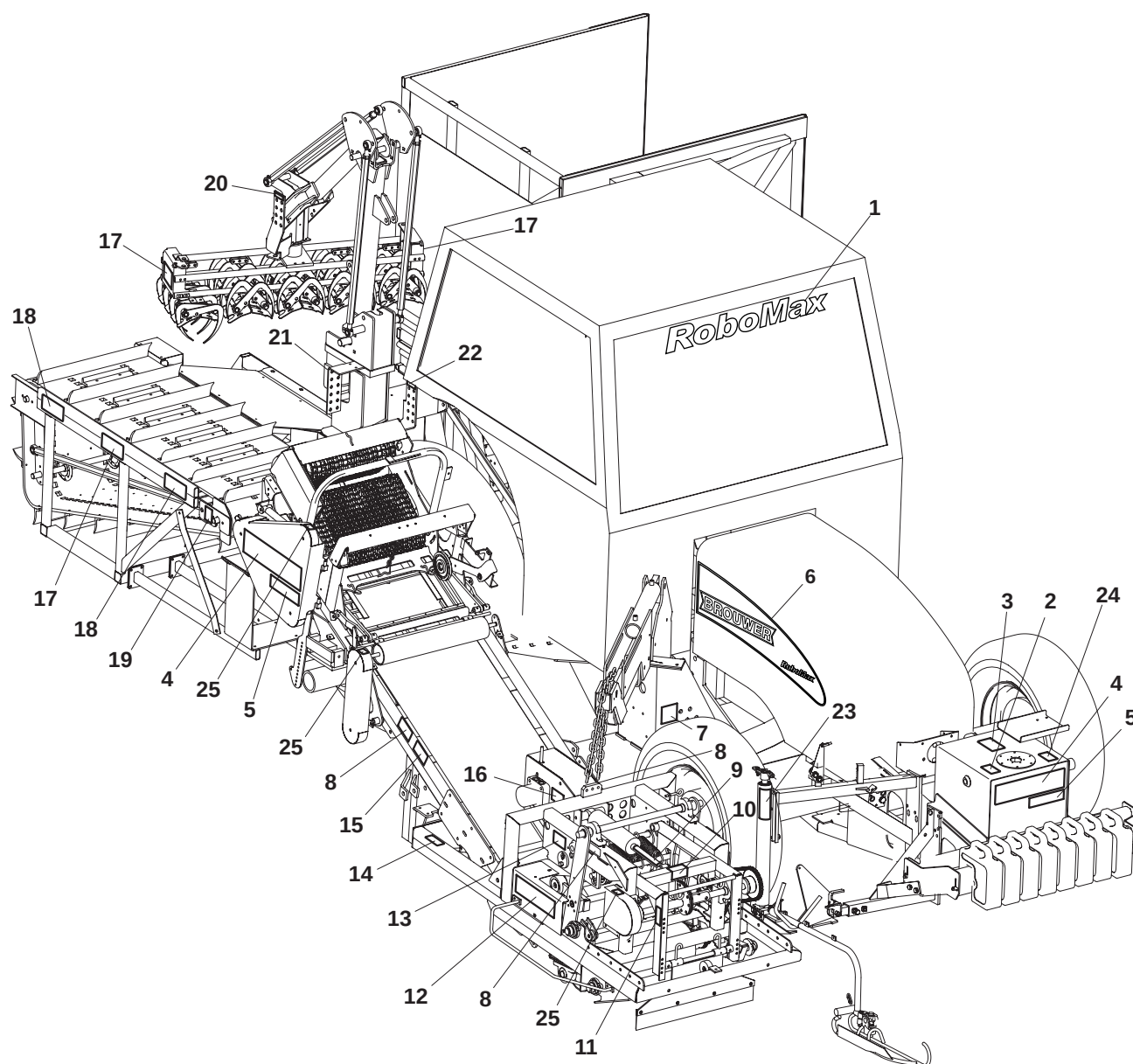
FIGURE 45

| MANIFOLD - STACKING ARM - 4142690 |     |                                    |            |            |
|-----------------------------------|-----|------------------------------------|------------|------------|
| ITEM                              | QTY | DESCRIPTION                        | PART #     | SEAL KIT # |
| 1                                 | 1   | PUMP SIDE MODULE                   | 4142690-05 | 4132690-09 |
| 2                                 | 5   | HANDLE                             | 4142690-10 | 4132690-13 |
| 3                                 | 8   | VALVE, SHOCK/ANTI-CAVITATION       | 4142690-11 | -----      |
| 4                                 | 2   | VALVE SPOOL 2.6GPM                 | 4142690-02 | -----      |
| 5                                 | 2   | VALVE SPOOL 6.6 GPM                | 4142690-14 | -----      |
| 6                                 | 4   | BASIC VALVE MODULE                 | 4142690-04 | 4132690-09 |
| 7                                 | 1   | BASIC VALVE MODULE                 | 4142690-03 | 4132690-09 |
| 8                                 | 4   | PVEA MODULE                        | 4142690-07 | 4132690-12 |
| 9                                 | 1   | ON/OFF ACTUATOR MODULE             | 4142690-06 | 4132690-12 |
| 10                                | 1   | VALVE SPOOL 6.6 GPM (OPEN NEUTRAL) | 4142690-01 | -----      |
| 1                                 | 1   | END PLATE                          | 4142690-08 | 4132690-09 |
| 12                                | 1   | ASSEMBLY KIT (NOT SHOWN)           | 4142690-09 | -----      |



| ROBOMAX SPROCKET SELECTION CHART       |                                                   |              |
|----------------------------------------|---------------------------------------------------|--------------|
| CUT-OFF-LENGTH<br>(inches)<br>(metric) | 54"<br>137cm                                      | 60"<br>152cm |
| Roller Sprocket                        | D1404<br>18T                                      | D1404<br>18T |
| Roller Bushing                         | For machines with 24-inch cutterhead, use 83-H20. |              |
| Roller Key                             | Use 124422 for all units.                         |              |
| Camshaft Sprocket                      | D1423<br>36T                                      | D1435<br>50T |
| Camshaft Bushing                       | 83-P116<br>83-P118                                | 83-P116      |
| Camshaft Key                           | Use G8019 for ALL units.                          |              |
| Stop Return Cam<br>24"                 | 001789                                            |              |
| ROLL UP SYSTEM SPROCKETS               |                                                   |              |
| Roll Up Sprocket                       | D1114                                             | D1114        |
| Roll Up Bushing                        | 83-P116                                           | 83-P116      |
| Roll Up Key                            | Use G8019 for ALL units.                          |              |
| Driveshaft Sprocket                    | D1106<br>16T                                      | D1106<br>16T |
| Driveshaft Key                         | Use 124458 for ALL units.                         |              |

FIGURE 47

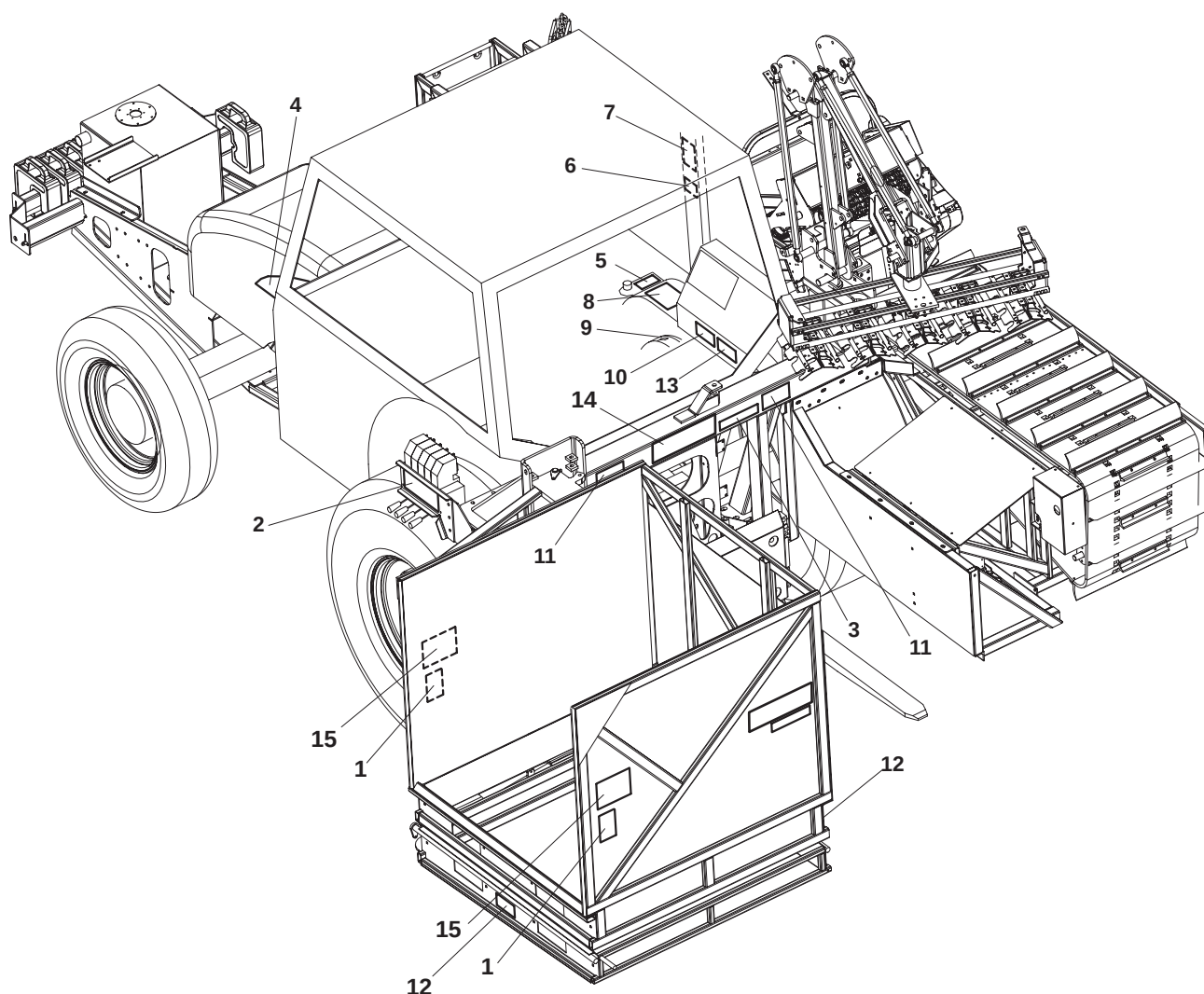




**FIGURE 47**

| ITM | PART NO. | DESCRIPTION             | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|-------------------------|-----|-----|----------|-------------|-----|
| 1   | D001-180 | LABEL-WNDSHLD, ROBOMAX  | 1   |     |          |             |     |
| 2   | 00-074   | LABEL-HYDRAULIC OIL     | 1   |     |          |             |     |
| 3   | 006204   | LABEL-CAUTION, HOT HYD  | 1   |     |          |             |     |
| 4   | D001-173 | LABEL-BROUWER, 16 INCH  | 2   |     |          |             |     |
| 5   | 4135178  | LABEL-ROBOMAX           | 3   |     |          |             |     |
| 6   | D001-175 | LABEL-HOOD, RH, BROUWER | 1   |     |          |             |     |
| 7   | 4135182  | LABEL-BULKHEAD, G-H     | 1   |     |          |             |     |
| 8   | 00-370   | LABEL-WARNING           | 3   |     |          |             |     |
| 9   | 00-267   | LABEL-DEPTH INDICATOR   | 1   |     |          |             |     |
| 10  | 009097   | LABEL-WARNING CUTTING   | 1   |     |          |             |     |
| 11  | 009432   | LABEL-WARNING CAM STOP  | 1   |     |          |             |     |
| 12  | D001-172 | LABEL-BROUWER, 12 INCH  | 1   |     |          |             |     |
| 13  | 00-280   | LABEL-GUARD IN PLACE    | 1   |     |          |             |     |
| 14  | 00-282   | LABEL-CLOSE CLEARANCE   | 1   |     |          |             |     |
| 15  | 015900   | LABEL-WARNING KEEP CLR  | 1   |     |          |             |     |
| 16  | 00-283   | LABEL-STOP ENGINE       | 1   |     |          |             |     |
| 17  | 4135014  | LABEL-WARNING, ARM      | 3   |     |          |             |     |
| 18  | 4135016  | LABEL-WARNING, ENTANGLE | 2   |     |          |             |     |
| 19  | 4135181  | LABEL-CRUSH             | 1   |     |          |             |     |
| 20  | 4135096  | LABEL-BULKHEAD, E-F     | 1   |     |          |             |     |
| 21  | 4135095  | LABEL-BULKHEAD, C-D     | 1   |     |          |             |     |
| 22  | 4135094  | LABEL-BULKHEAD, A-B     | 1   |     |          |             |     |
| 23  | 015777   | LABEL-WARNING ACTUATOR  | 1   |     |          |             |     |
| 24  | 2000653  | LABEL-HIGH PRESS LEAK   | 1   |     |          |             |     |
| 25  | 00-226   | LABEL-LUBE OIL SYMBOL   | 3   |     |          |             |     |

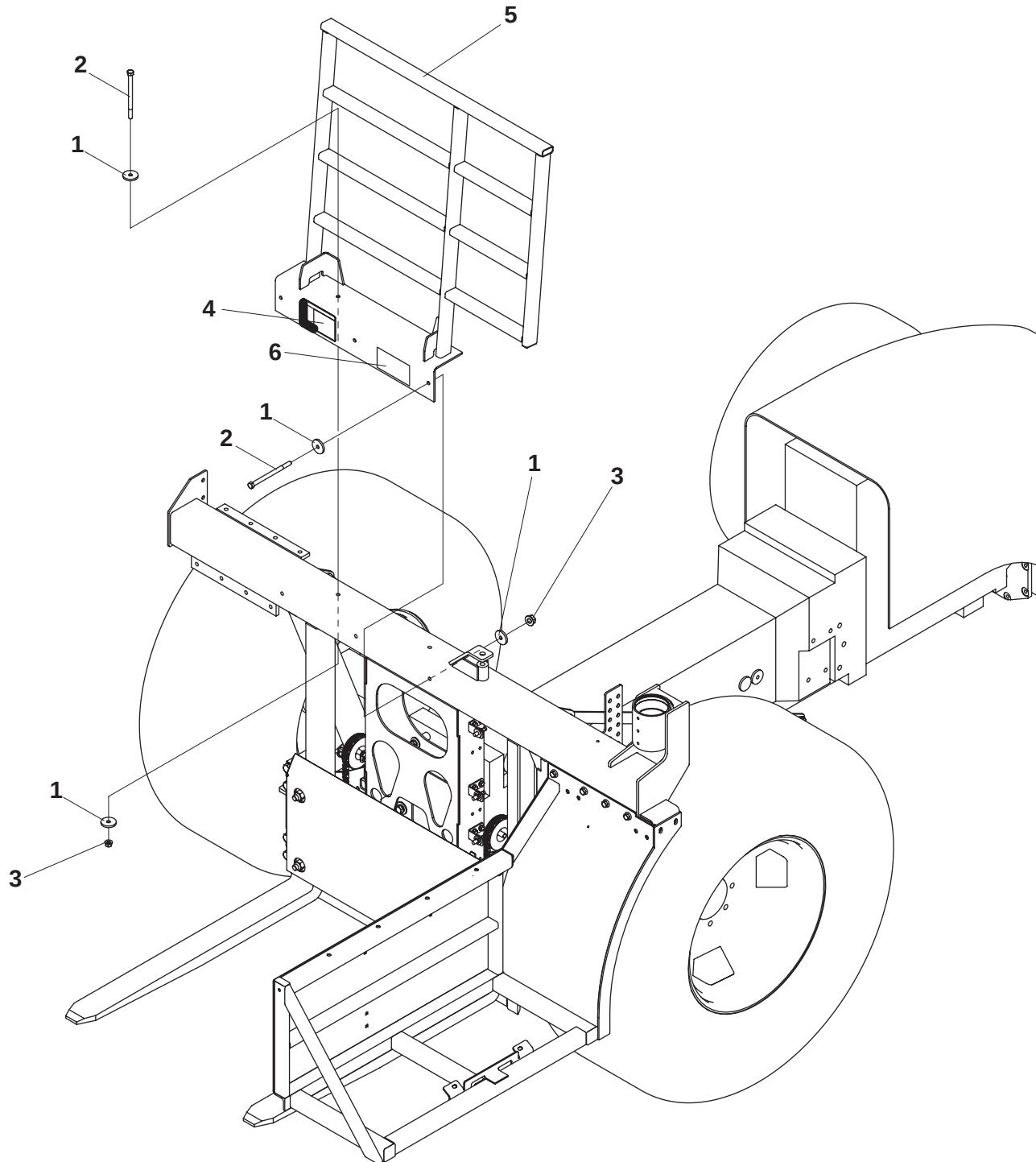
FIGURE 48



**FIGURE 48**

| ITM | PART NO. | DESCRIPTION              | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|--------------------------|-----|-----|----------|-------------|-----|
| 1   | 00-266   | LABEL-WARNING NO RIDERS  | 2   |     |          |             |     |
| 2   | 4135180  | LABEL-ROBOTIC ARM        | 1   |     |          |             |     |
| 3   | 4135178  | LABEL-ROBOMAX            | 2   |     |          |             |     |
| 4   | D001-174 | LABEL-HOOD, LH, BROUWER  | 1   |     |          |             |     |
| 5   | 015499   | LABEL-CAUTION AUTOSTEER  | 1   |     |          |             |     |
| 6   | 00-262   | LABEL-CAUTION CLUTCH     | 1   |     |          |             |     |
| 7   | 340830   | LABEL-CAUTION SPANISH    | 1   |     |          |             |     |
| 8   | 4133093  | LABEL-CAUTION HARVESTER  | 1   |     |          |             |     |
| 9   | 4135935  | LABEL-LEVERS, ROBOMAX    | 1   |     |          |             |     |
| 10  | 202525   | LABEL-CAUTION MANUAL     | 1   |     |          |             |     |
| 11  | 4135015  | LABEL-WARNING ARM        | 2   |     |          |             |     |
| 12  | 4137371  | LABEL-WARNING, CRUSH     | 3   |     |          |             |     |
| 13  | 015899   | DECAL, PATENTS           | 1   |     |          |             |     |
| 14  | D001-172 | LABEL-BROUWER 12 INCH    | 2   |     |          |             |     |
| 15  | 4136687  | LABEL-WARNING, PLLT DISP | 3   |     |          |             |     |

FIGURE 49



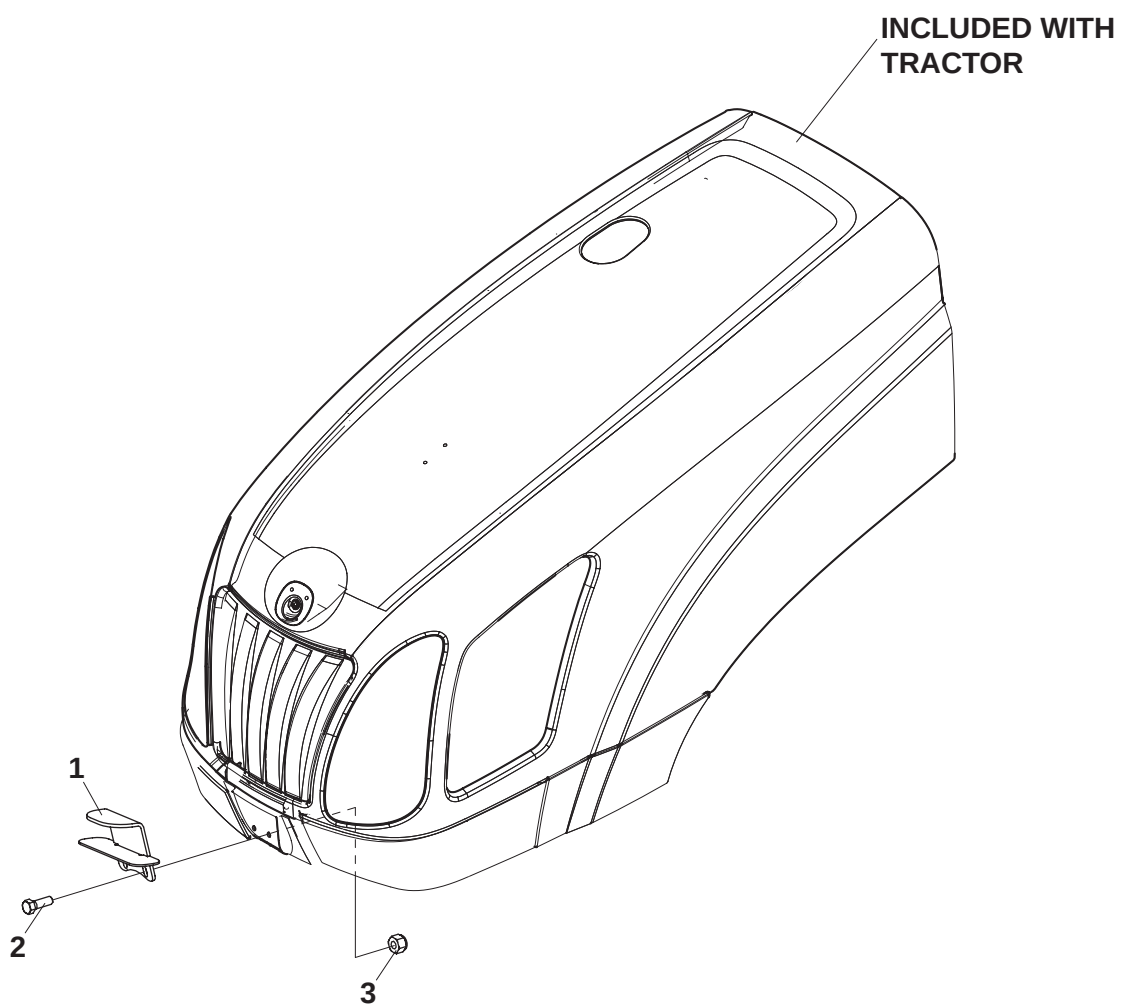
**FIGURE 49**

| ITM | PART NO. | DESCRIPTION                               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|-------------------------------------------|-----|-----|----------|-------------|-----|
| 1   | F330808  | WASHER                                    | 10  |     |          |             |     |
| 2   | F040870  | BOLT-1/2-13 X 7                           | 5   |     |          |             |     |
| 3   | F210805  | NUT-FL NYLON LOCK 1/2-13                  | 5   |     |          |             |     |
| 4   | 4135015  | LABEL-WARN ROBOT ARM                      | 1   |     |          |             |     |
| 5   | 4136863  | S-WLDMT WINDOW GUARD<br>(INCLUDES ITEM 4) | 1   |     |          |             |     |
| 6   | D001-161 | LABEL-BROUWER                             | 1   |     |          |             |     |

## HOOD LATCH

**RoboMax**

FIGURE 50



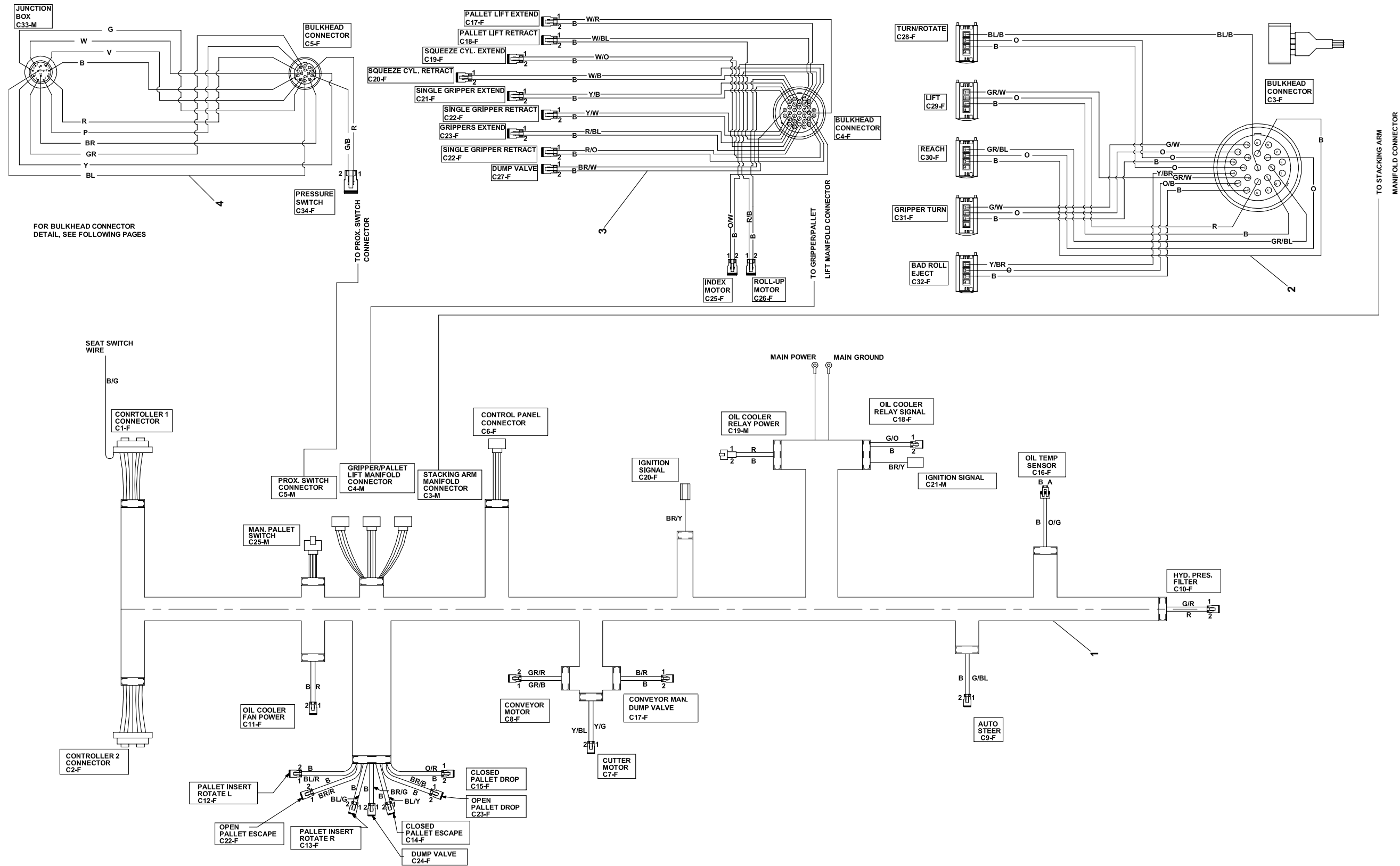
**FIGURE 50**

| ITM | PART NO.  | DESCRIPTION             | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|-------------------------|-----|-----|----------|-------------|-----|
| 1   | 4137411.7 | WLDMT-LATCH HOOD        | 1   |     |          |             |     |
| 2   | 99-K27    | BOLT, FLANGE 1/4-20 X 1 | 2   |     |          |             |     |
| 3   | 64229-01  | LOCKNUT-1/4-20 NYLON    | 2   |     |          |             |     |

HARNESS-MAIN WIRING

RoboMax

FIGURE 51





**FIGURE 51**

| ITM | PART NO. | DESCRIPTION          | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|----------------------|-----|-----|----------|-------------|-----|
| 1   | 4140033  | HARNESS- MAIN        | 1   |     |          |             |     |
| 2   | 4130614  | HARNESS-VALVE STACK  | 1   |     |          |             |     |
| 3   | 4129984  | HARNESS-HIC VLV MAN  | 1   |     |          |             |     |
| 4   | 4129895  | HARNESS-JUNCTION BOX | 1   |     |          |             |     |

FIGURE 52

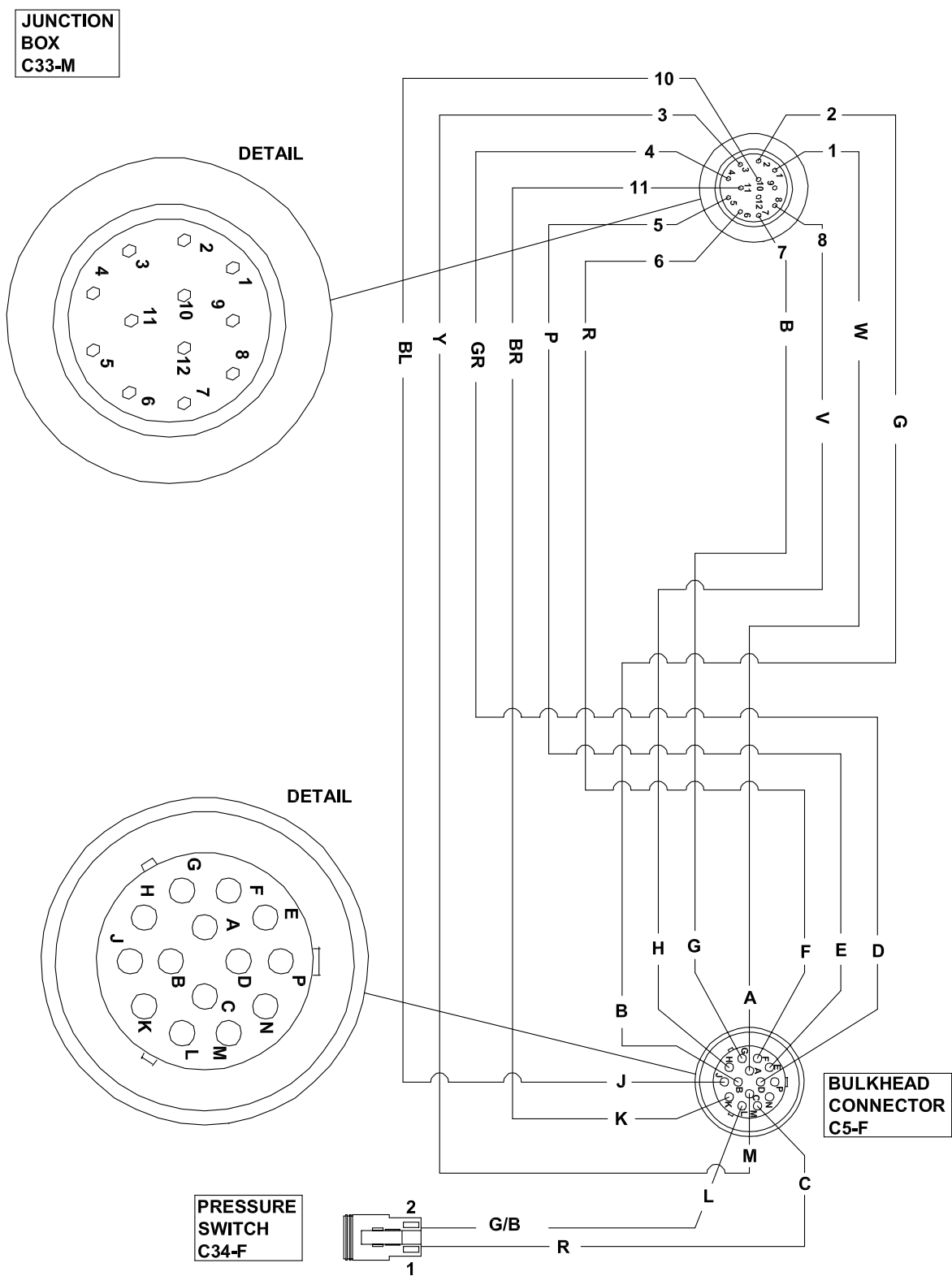


FIGURE 53

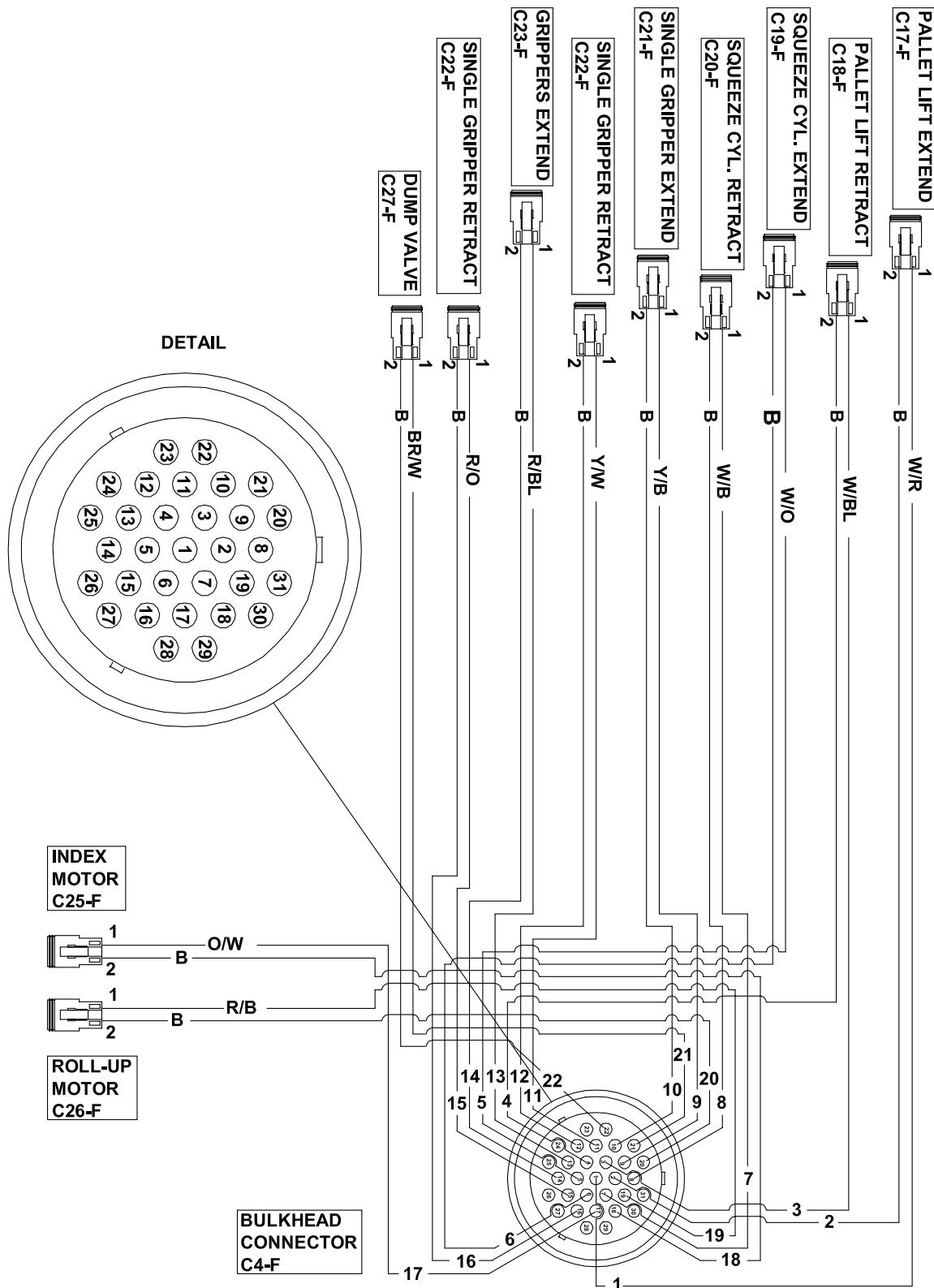


FIGURE 54

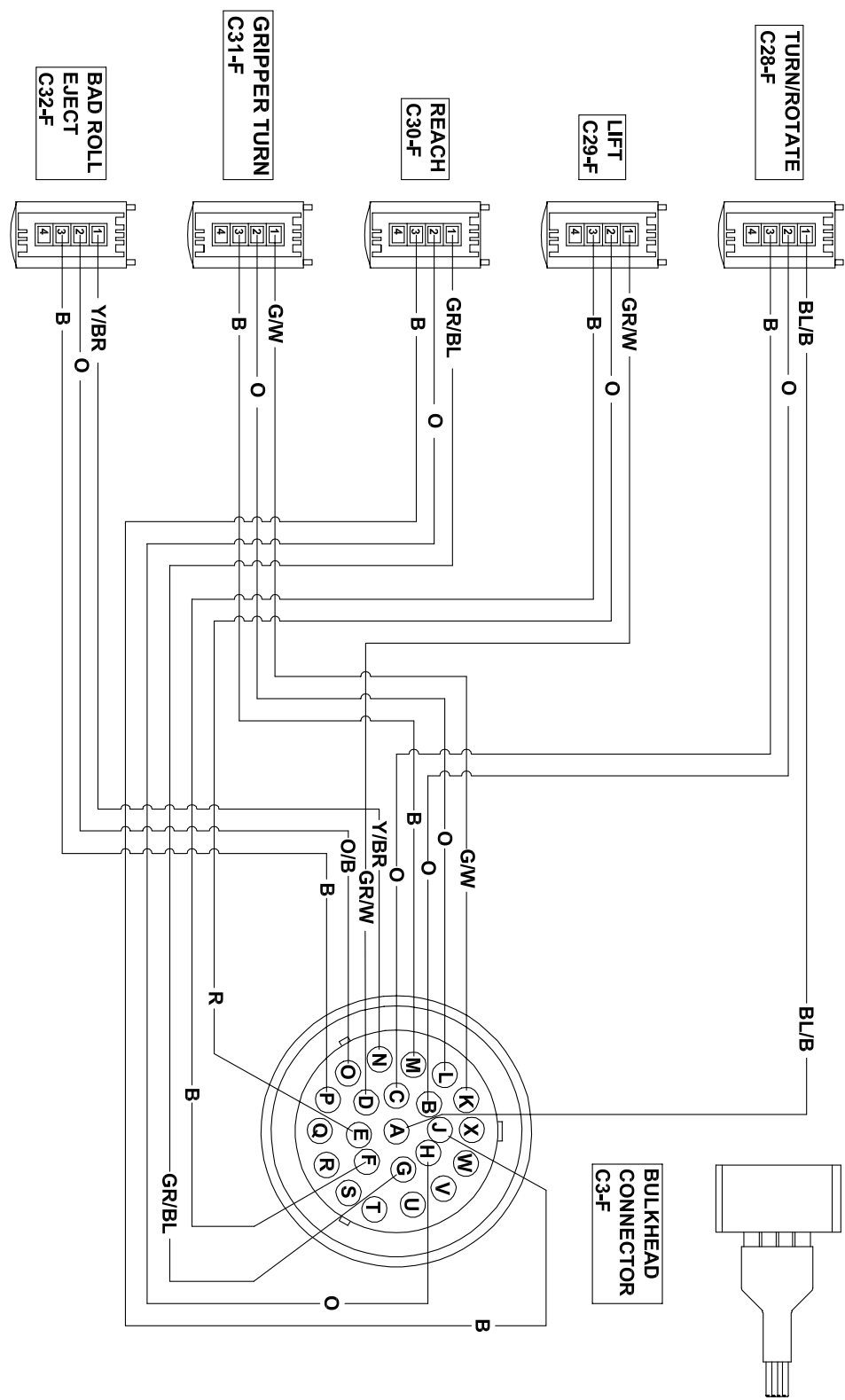


FIGURE 55

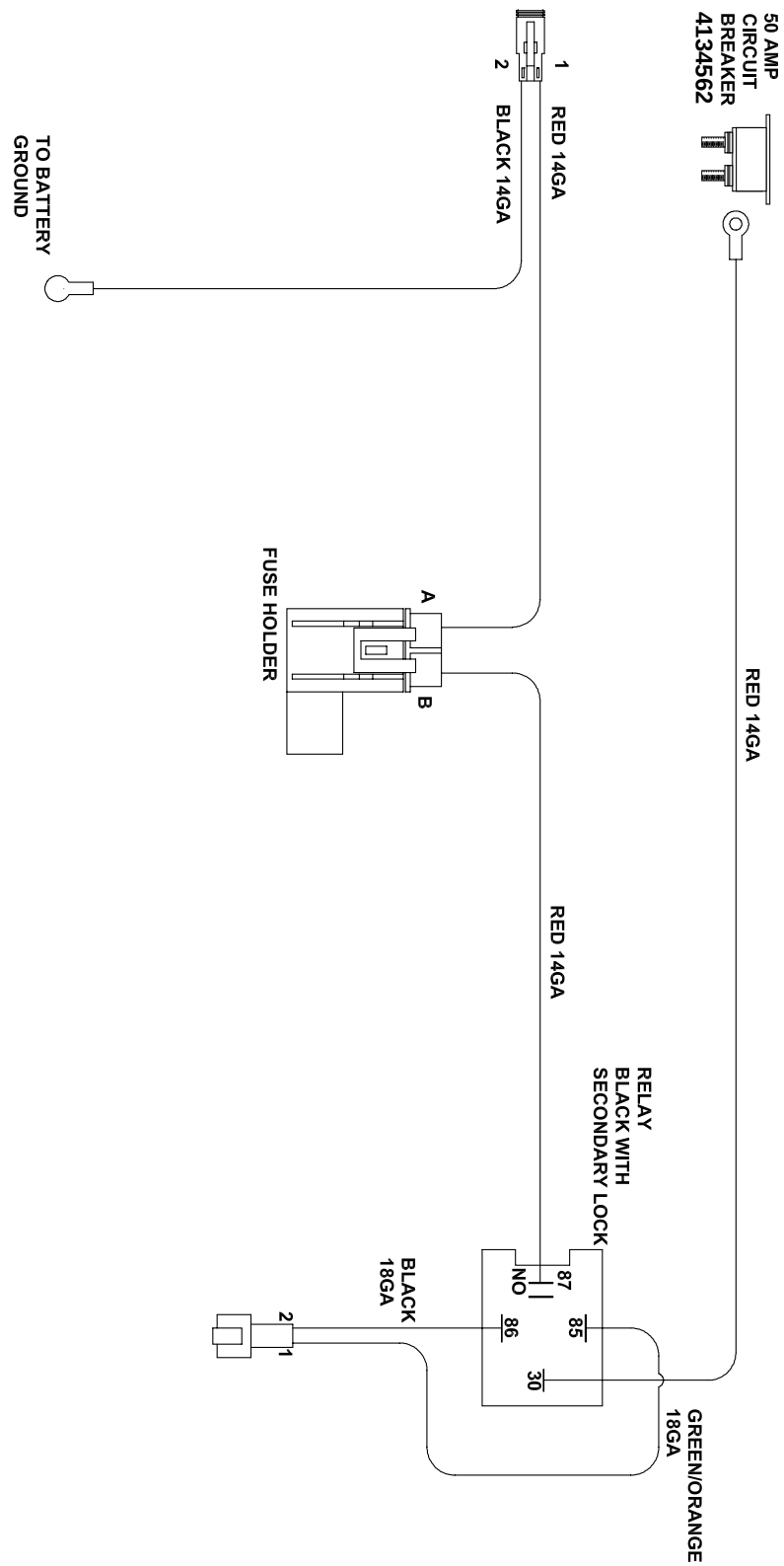


FIGURE 56

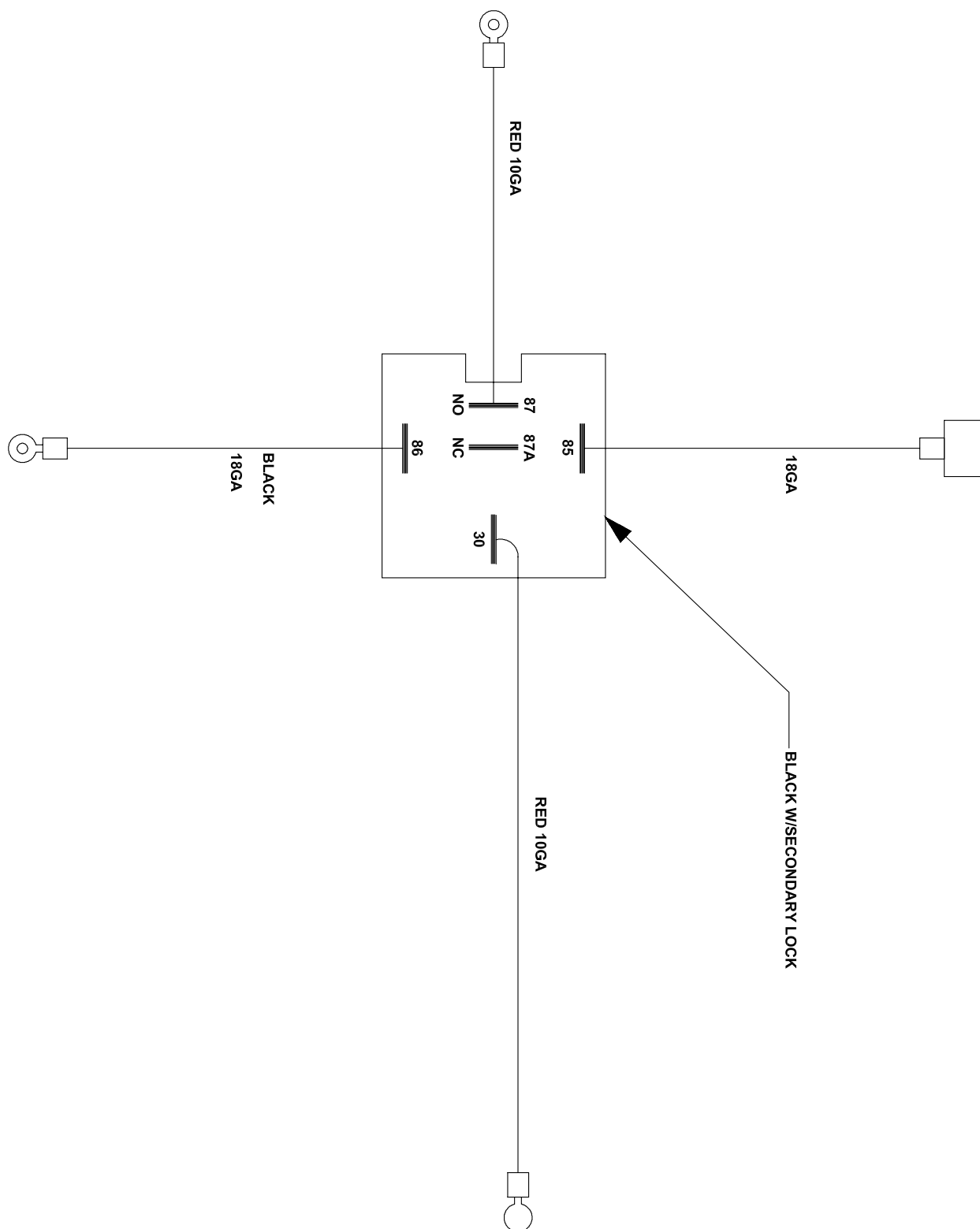




FIGURE 57

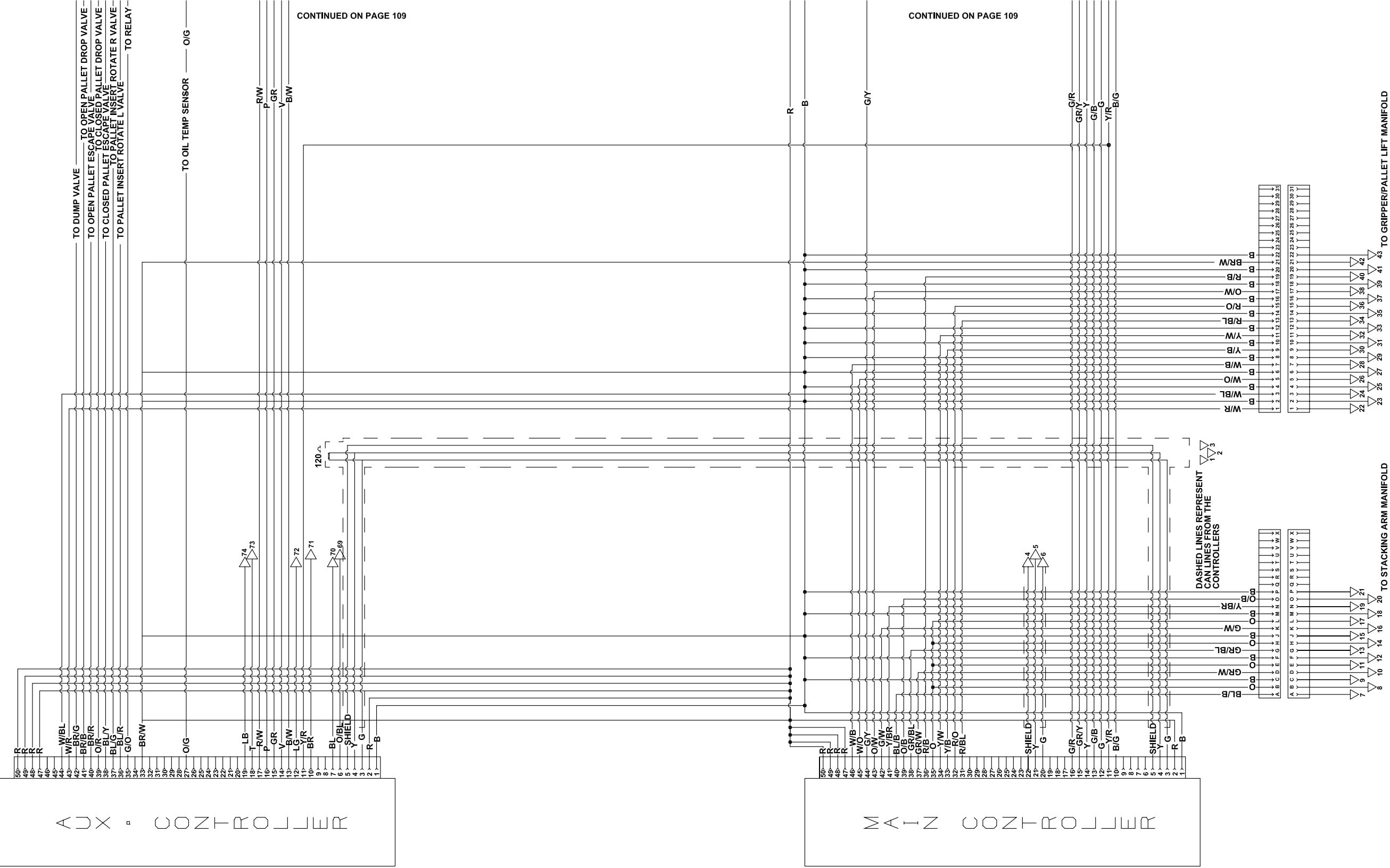




FIGURE 58

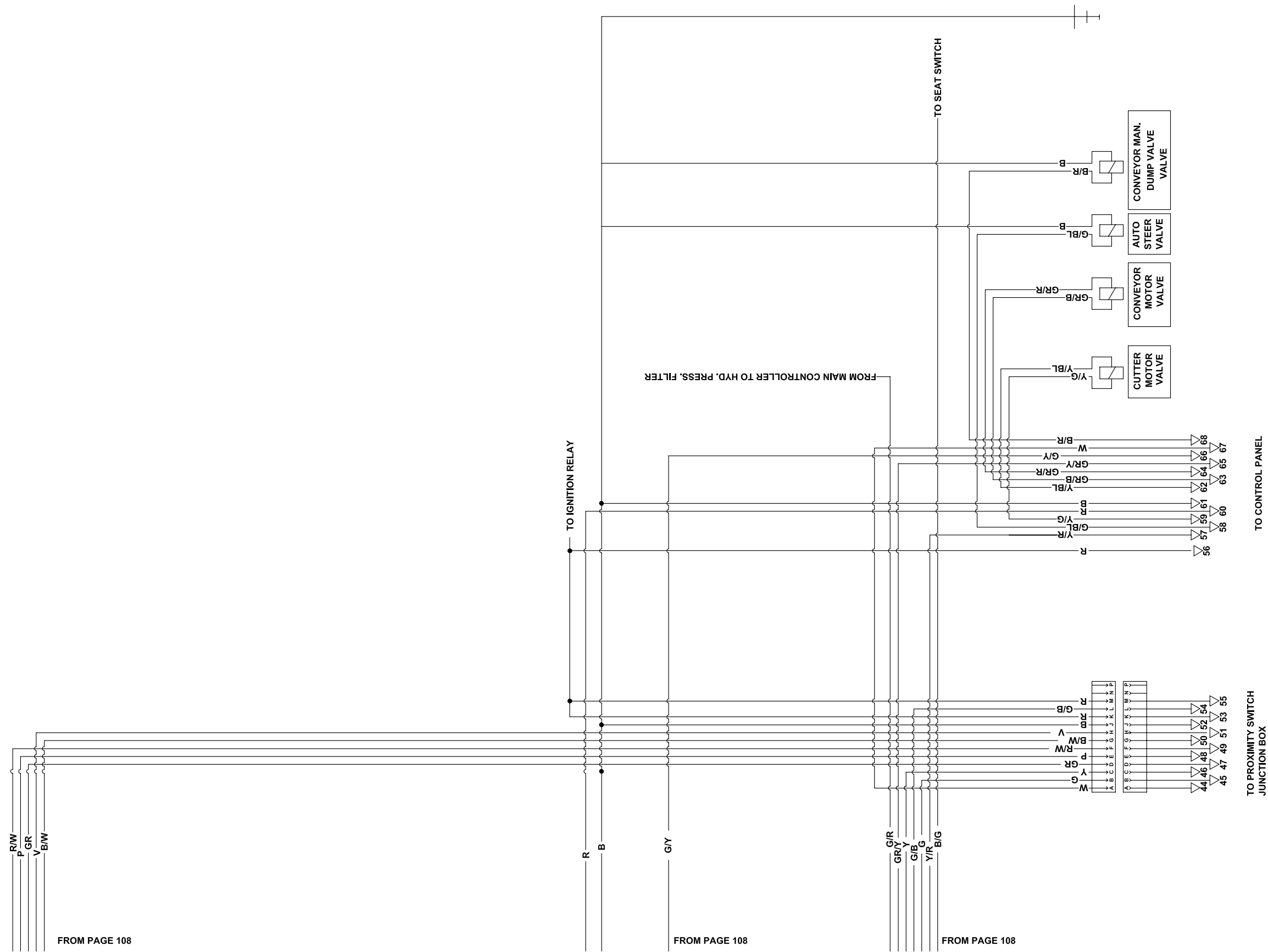


FIGURE 59

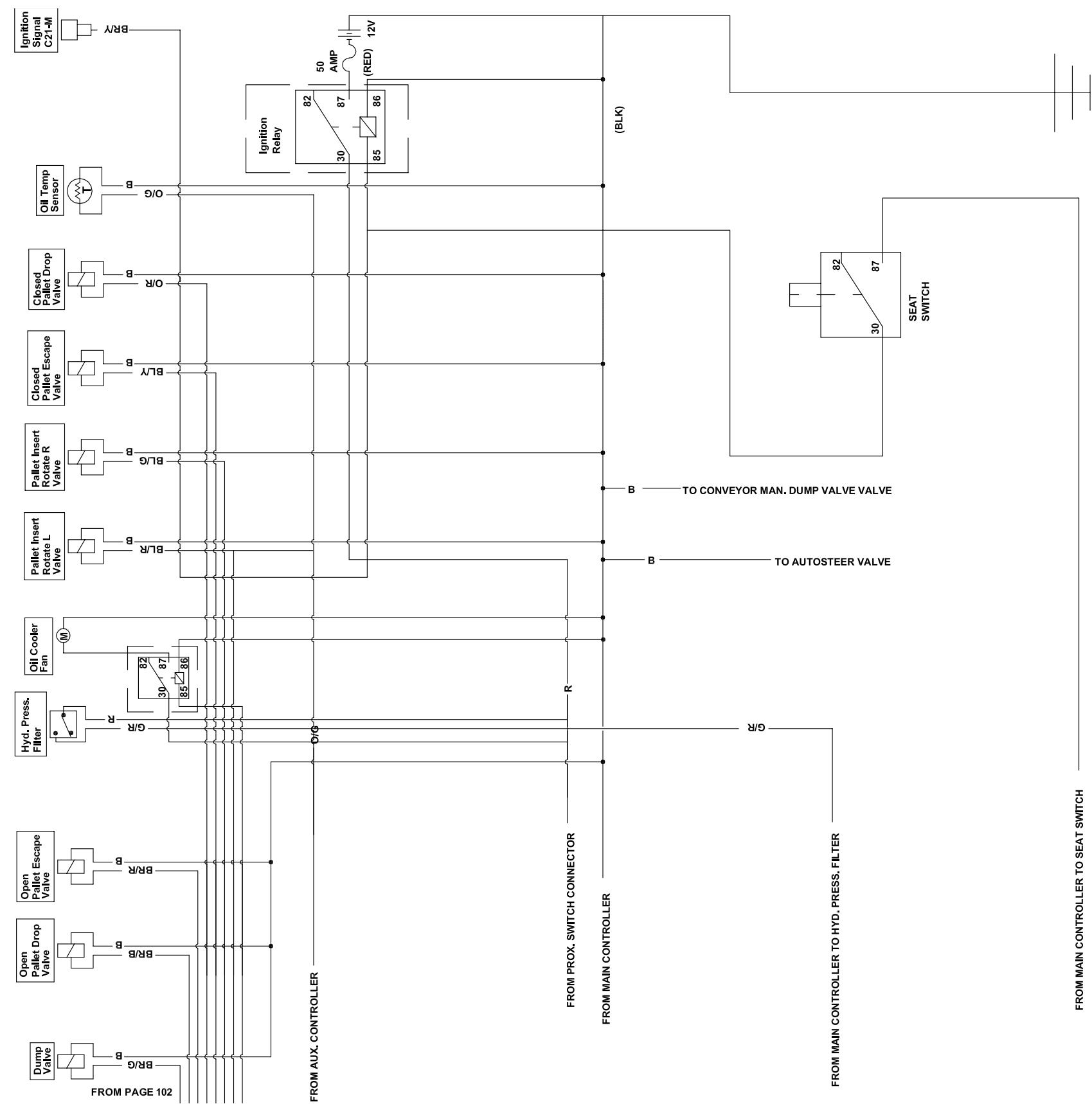


FIGURE 60

ELECTRICAL SCHEMATIC (PART 4)

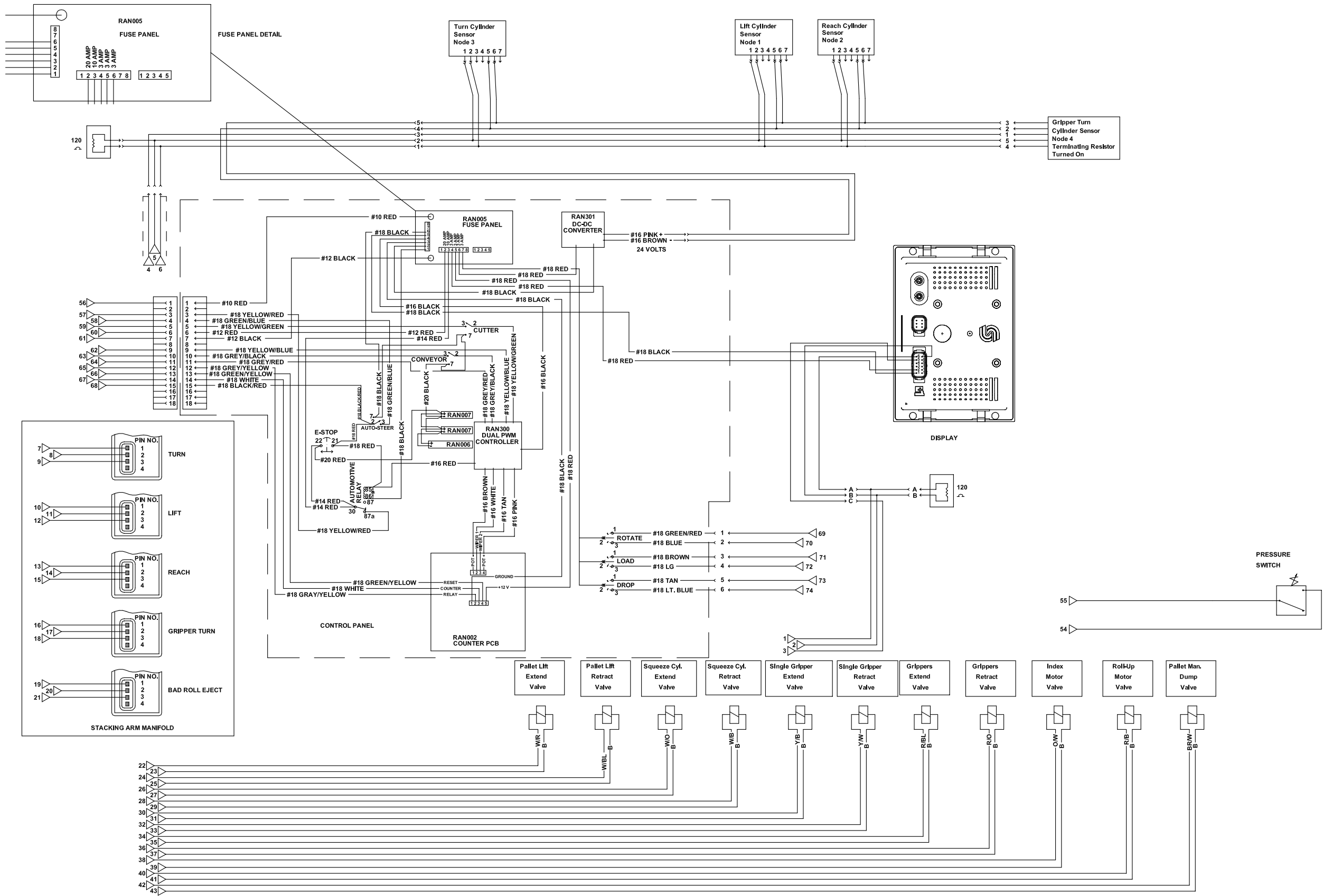


FIGURE 61

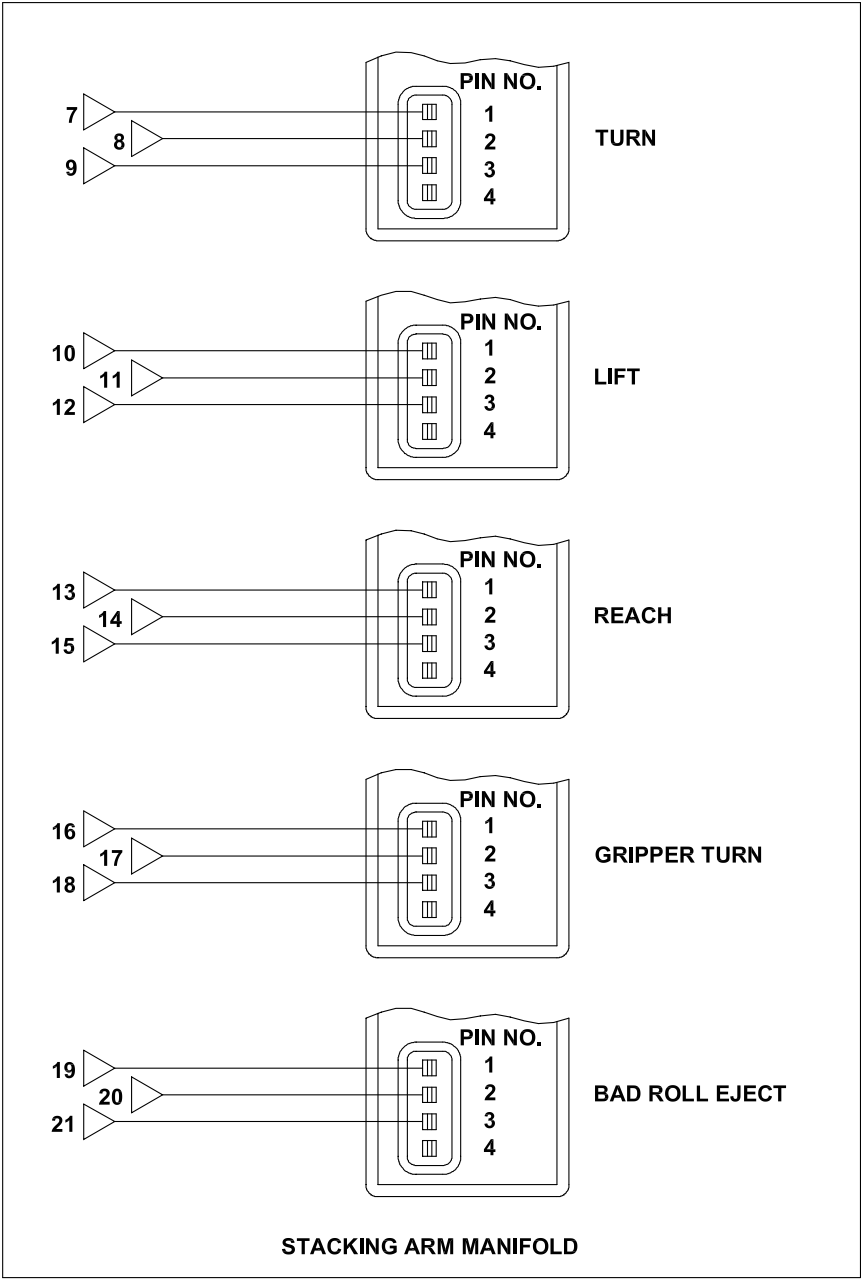


FIGURE 62

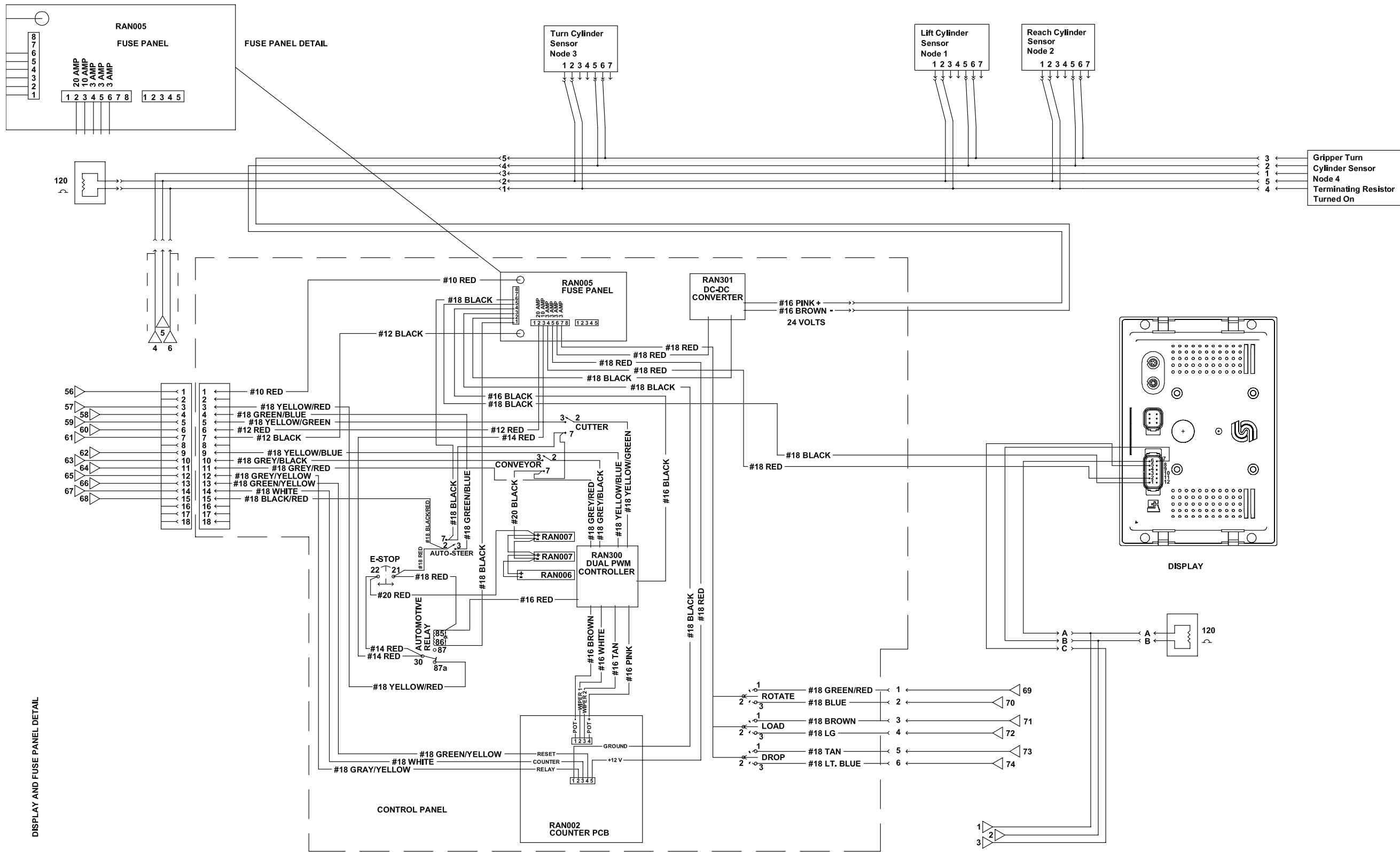


FIGURE 63

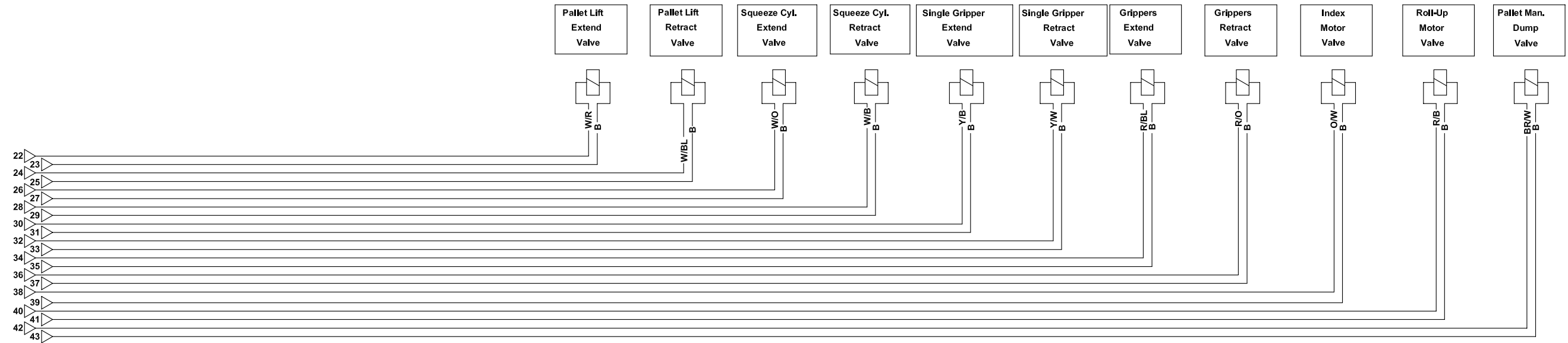




FIGURE 64

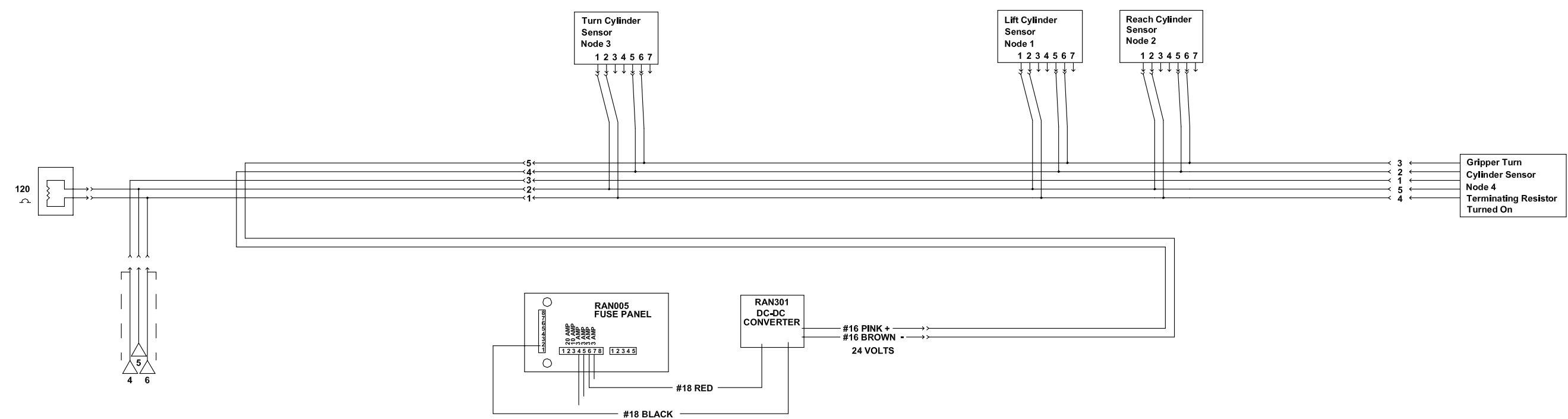
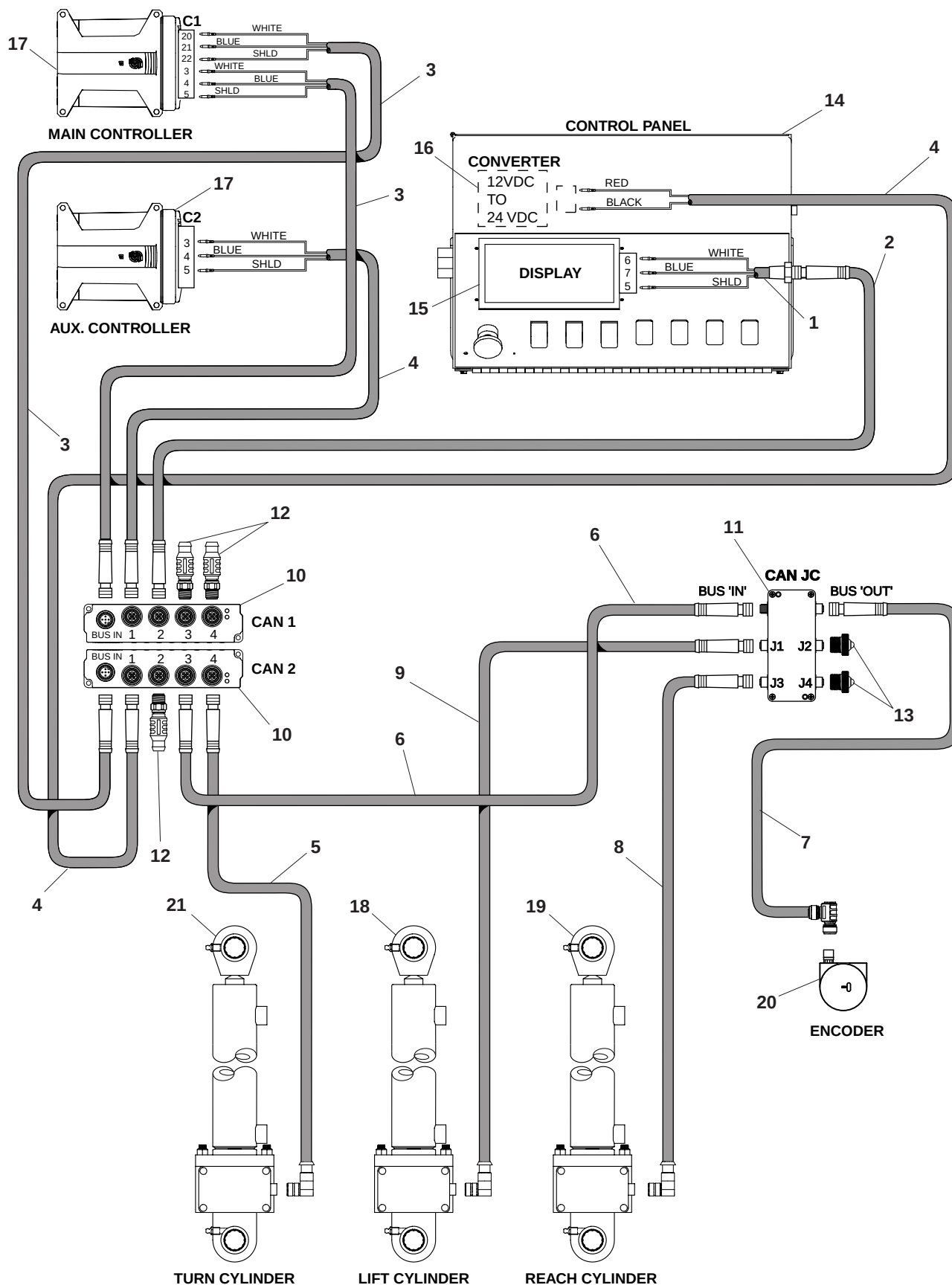


FIGURE 65

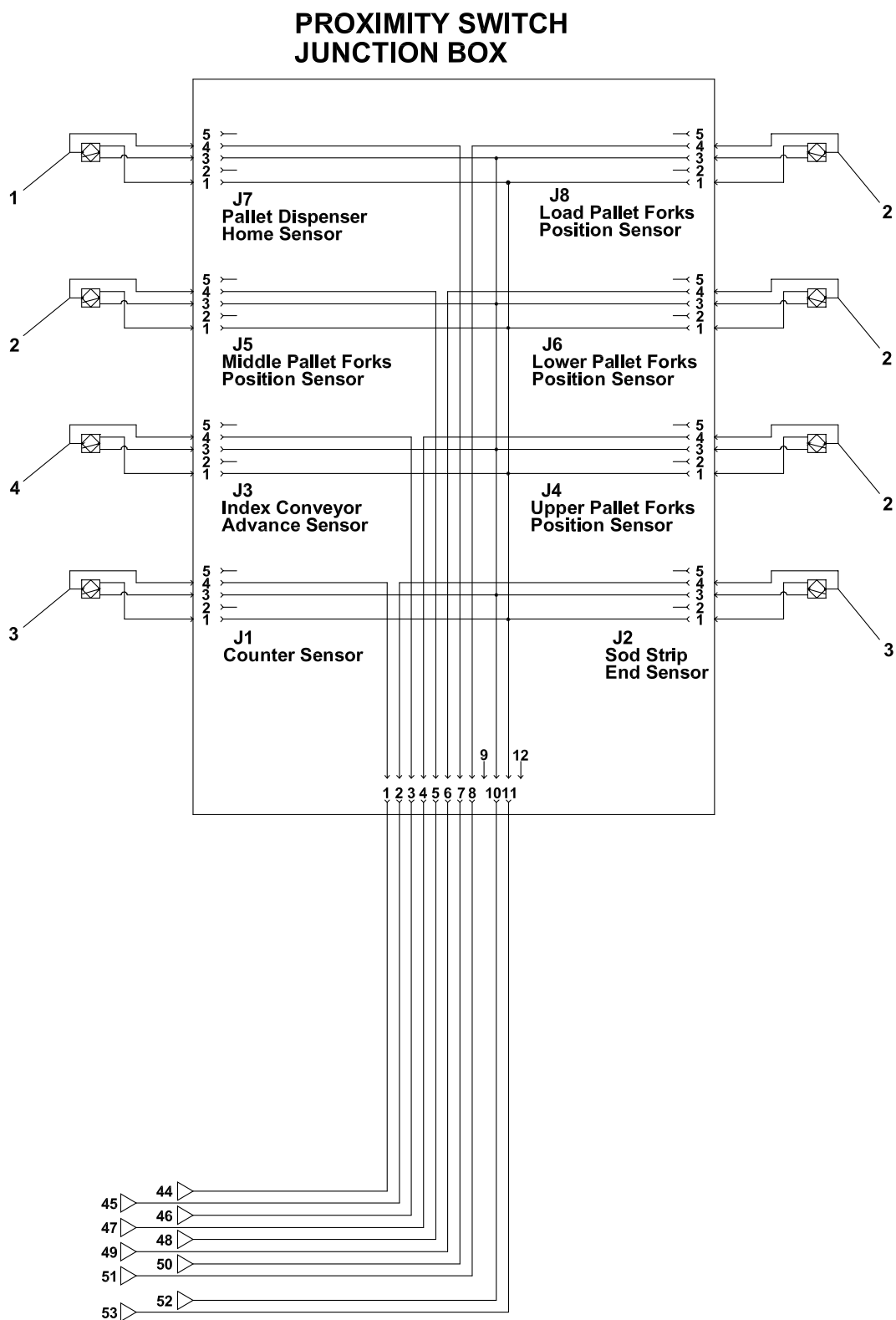




**FIGURE 65**

| ITM | PART NO.  | DESCRIPTION                 | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|-----------------------------|-----|-----|----------|-------------|-----|
| 1   | 4160167   | CABLE. CANBUS MALE          | 1   |     |          |             |     |
| 2   | 4160168   | CABLE. CAN 1 TO DISPLAY     | 1   |     |          |             |     |
| 3   | 4160169   | CABLE. MAIN CONTROLLER      | 2   |     |          |             |     |
| 4   | 4160170   | CABLE. AUX. CONTROLLER      | 1   |     |          |             |     |
| 5   | 4160171   | CABLE. CAN 2 TO TURN CYL.   | 1   |     |          |             |     |
| 6   | 4160172   | CABLE. CAN 2 TO CAN JC      | 1   |     |          |             |     |
| 7   | 4160173   | CABLE. CAN JC TO ENC.       | 1   |     |          |             |     |
| 8   | 4160174   | CABLE. CAN JC TO REACH CYL. | 1   |     |          |             |     |
| 9   | 4160175   | CABLE. CAN JC TO LIFT CYL.  | 3   |     |          |             |     |
| 10  | 4160176   | JUNCTION BOX. CAN 1 & CAN 2 | 2   |     |          |             |     |
| 11  | 4160177   | JUNCTION BOX. CAN JC        | 1   |     |          |             |     |
| 12  | 4160178   | TERMINATING RESISTOR        | 3   |     |          |             |     |
| 13  | 4160179   | CLOSURE CAP                 | 2   |     |          |             |     |
| 14  | 4134149   | CONTROL PANEL               | 1   |     |          |             |     |
| 15  | 4133998   | DISPLAY                     | 1   |     |          |             |     |
| 16  | 4134249-9 | CONVERTER                   | 1   |     |          |             |     |
| 17  | 4133992   | CONTROLLER                  | 2   |     |          |             |     |
| 18  | 4160014   | LIFT CYLINDER               | 1   |     |          |             |     |
| 19  | 4160015   | REACH CYLINDER              | 1   |     |          |             |     |
| 20  | 4140874   | ENCODER                     | 1   |     |          |             |     |
| 21  | 4160013   | TURN CYLINDER               | 1   |     |          |             |     |

FIGURE 66



**FIGURE 66**

| ITM | PART NO. | DESCRIPTION            | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|------------------------|-----|-----|----------|-------------|-----|
| 1   | 4134047  | CABLE- PROX- SWITCH 7m | 1   |     |          |             |     |
| 2   | 4134045  | CABLE- PROX- SWITCH 4m | 4   |     |          |             |     |
| 3   | 4134046  | CABLE- PROX- SWITCH 5m | 2   |     |          |             |     |
| 4   | 4134048  | CABLE- PROX- SWITCH 1m | 1   |     |          |             |     |

FIGURE 67

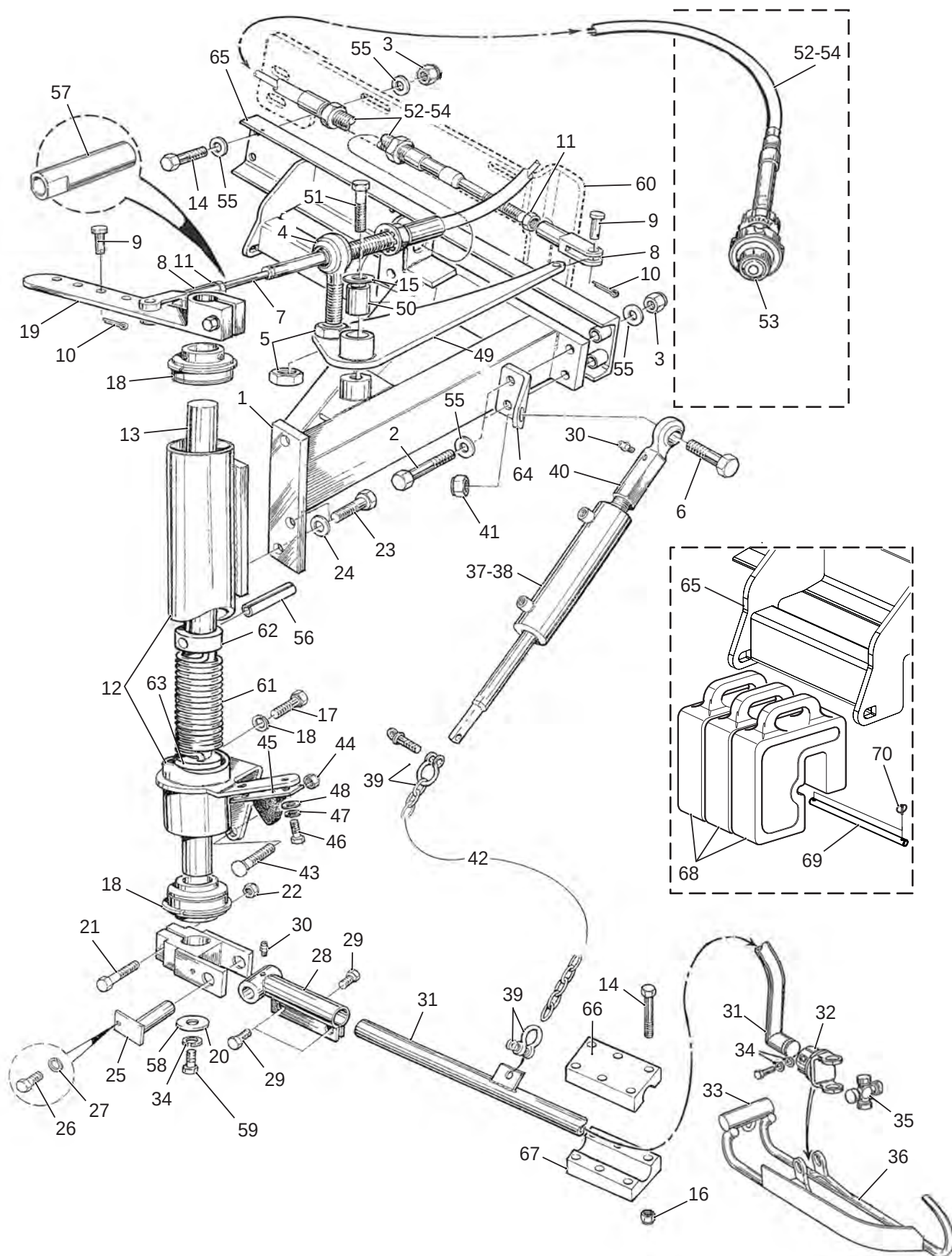


FIGURE 67

| ITM | PART NO. | DESCRIPTION                | QTY | ITM | PART NO. | DESCRIPTION                 | QTY |
|-----|----------|----------------------------|-----|-----|----------|-----------------------------|-----|
| 1   | H310134  | SPRING COLUMN MOUNT        | 1   | 41  | F211200  | LOCKNUT 3/4 UNC             | 1   |
| 2   | F040834  | BOLT 1/2 UNC X 3 1/2 GR.8  | 4   | 42  | H110693  | CHAIN - SHOE ARM LIFT       | 1   |
| 3   | F210800  | LOCKNUT 1/2 UNC            | 8   | 43  | F020820  | CARRIAGE BOLT 1/2 X 2       | 1   |
| 4   | KB16010  | ROD END                    | 1   | 44  | F210800  | LOCKNUT 1/2 UNC             | 1   |
| 5   | F221250  | JAM NUT 3/4 UNF            | 2   | 45  | KS60001  | BUMP STOP - SHOE ARM        | 1   |
| 6   | F041224  | BOLT 3/4 UNC X 2 1/2 GR.8  | 1   | 46  | F040506  | BOLT 5/16 UNC X 3/4 GR.8    | 2   |
| 7   | KD10056  | CABLE ASSEMBLY (TOP)       | 1   | 47  | F310500  | LOCKWASHER 5/16             | 1   |
| 8   | KD10026  | CLEVIS - CABLE END         | 2   | 48  | F320500  | WASHER 5/16                 | 2   |
| 9   | -----    | CLEVIS PIN (PART OF #8)    | 2   | 49  | A300257  | LEVER ARM - FINE ADJUST     | 1   |
| 10  | -----    | COTTER PIN (PART OF #8)    | 2   | 50  | H110399  | BUSHING                     | 1   |
| 11  | F220450  | JAM NUT                    | 2   | 51  | F040820  | BOLT 1/2 UNC X 2 GR.8       | 1   |
| 12  | 4160320  | SPRING COLUMN              | 1   | 52  | KD10025  | CABLE ASSY. - FINE ADJUST   | 1   |
| 13  | H110334  | SHAFT-SPRING COLUMN        | 1   | 53  | KD10029  | CONTROL HEAD                | 1   |
| 14  | F040524  | BOLT 5/16 UNC X 2 1/2 GR.8 | 4   | 54  | KD10031  | CONTROL CABLE ONLY          | 1   |
| 15  | F320500  | WASHER 5/16                | 1   | 55  | F320800  | FLATWASHER 1/2              | 16  |
| 16  | F210500  | LOCKNUT 5/16 UNC           | 4   | 56  | F940616  | SPRING PIN 3/8 DIA. X 1 3/4 | 1   |
| 17  | F040606  | BOLT 3/8 UNC X 3/4 GR.8    | 1   | 57  | A101279  | CABLE GUIDE                 | 1   |
| 18  | KB20510  | BEARING C/W SNAP RING      | 2   | 58  | H100045  | RETAINER WASHER             | 1   |
| 19  | A100672  | TOP LEVER ARM              | 1   | 59  | F040606  | BOLT 3/8 UNC X 3/4 GR.8     | 1   |
| 20  | H310055  | SUPPORT PIVOT - SKI ARM    | 1   | 60  | 4160252  | ADAPTER                     | 1   |
| 21  | F040824  | BOLT 1/2 UNC X 2 1/2 GR.8  | 1   | 61  | H111207  | SPRING                      | 1   |
| 22  | F210800  | LOCKNUT 1/2 GR.8           | 1   | 62  | H111208  | UPPER SPRING SOCKET         | 1   |
| 23  | F040812  | BOLT 1/2 UNC X 1 1/4 GR.8  | 3   | 63  | H111209  | LOWER SPRING SOCKET         | 1   |
| 24  | F310800  | LOCKWASHER 1/2             | 3   | 64  | A101135  | CYLINDER MOUNT              | 1   |
| 25  | H310056  | PIVOT PIN                  | 1   | 65  | 4160559  | TOWER MOUNTING CHANNEL      | 1   |
| 26  | F040404  | BOLT 1/4 UNC X 1/2 GR.8    | 1   | 66  | M100157  | COUPLER WEIGHT. TOP         | 1   |
| 27  | F310400  | LOCKWASHER 1/4             | 1   | 67  | M100158  | COUPLER WEIGHT. BOTTOM      | 1   |
| 28  | H310052  | MNTG. PIVOT - SHOE ARM     | 1   | 68  | 62-540   | 50# BALLAST WEIGHT          | 3   |
| 29  | F040512  | BOLT 5/16 UNC X 1 1/4 GR.8 | 1   | 69  | 4160676  | ROD WEIGHT STOP62-540       | 1   |
| 30  | KM11400  | GREASE FITTING             | 2   | 70  | KX30020  | QUICK PIN 1/4 X 1-3/4       | 2   |
| 31  | 015110   | ARM - GUIDE SHOE           | 1   |     |          |                             |     |
| 32  | D0004    | SPLIT CLAMP YOKE           | 1   |     |          |                             |     |
| 33  | F040612  | BOLT 3/8 UNC X 1 1/4 GR.8  | 1   |     |          |                             |     |
| 34  | F310600  | LOCKWASHER 3/8             | 3   |     |          |                             |     |
| 35  | KD91103  | CROSSPIECE C/W BEARINGS    | 1   |     |          |                             |     |
| 36  | 200706   | GUIDE SHOE - AUTO-STEER    | 1   |     |          |                             |     |
| 37  | H500014  | RESET CYLINDER             | 1   |     |          |                             |     |
| 38  | KH70039  | SEAL KIT - RESET CYL.      | 1   |     |          |                             |     |
| 39  | KC00102  | SHACKLE                    | 2   |     |          |                             |     |
| 40  | KB16011  | ROD END (MW12)             | 1   |     |          |                             |     |

### NOTE

Items 56, 61, 62 & 63 are available as Torsion Spring Service Kit - H510199.

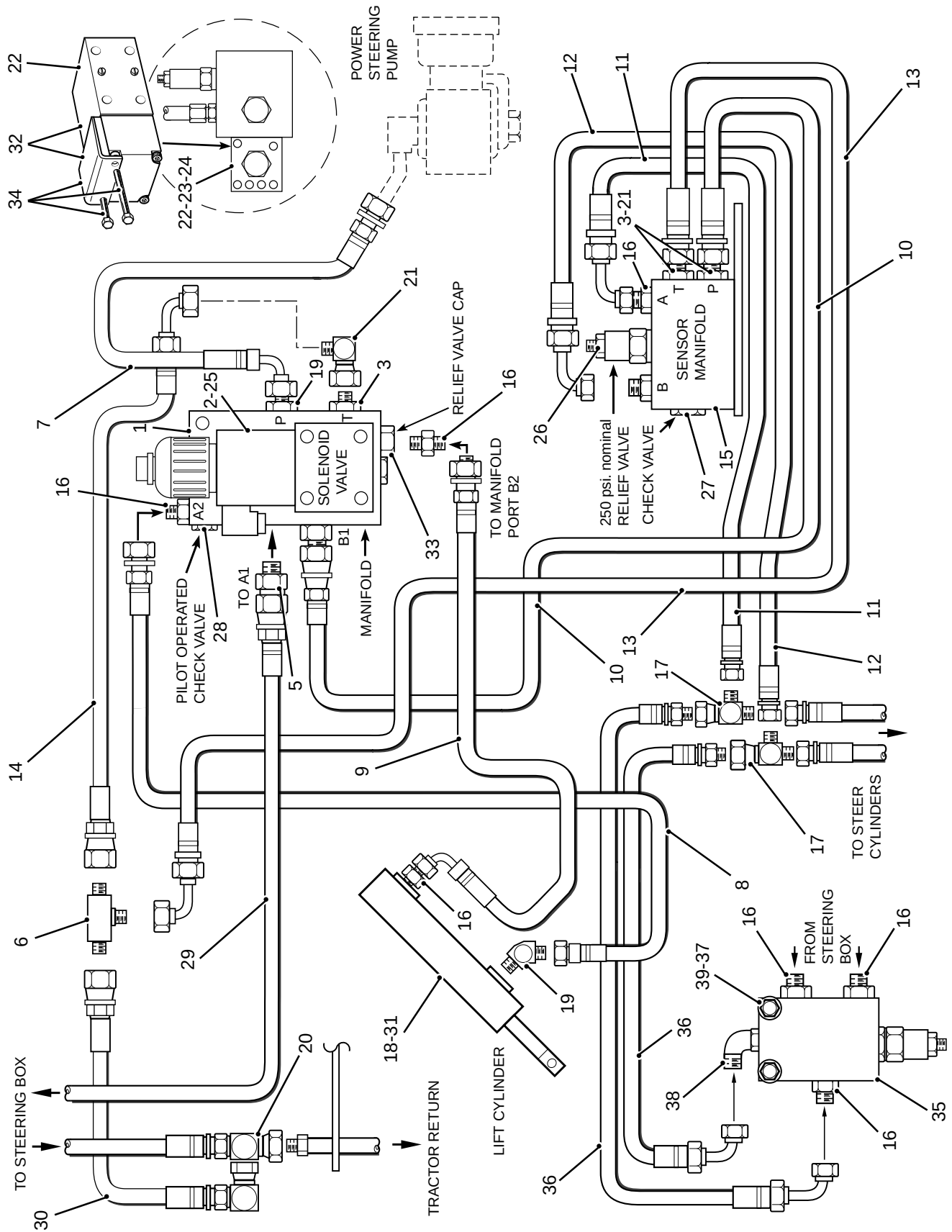
### NOTE

Items 32, 33, 34, 35, 36 are available as Guide Shoe Service Kit - A21175

### NOTE

Items 37, 39, 40 & 42 are available as Guide Shoe Service Kit - H510076

### FIGURE 68

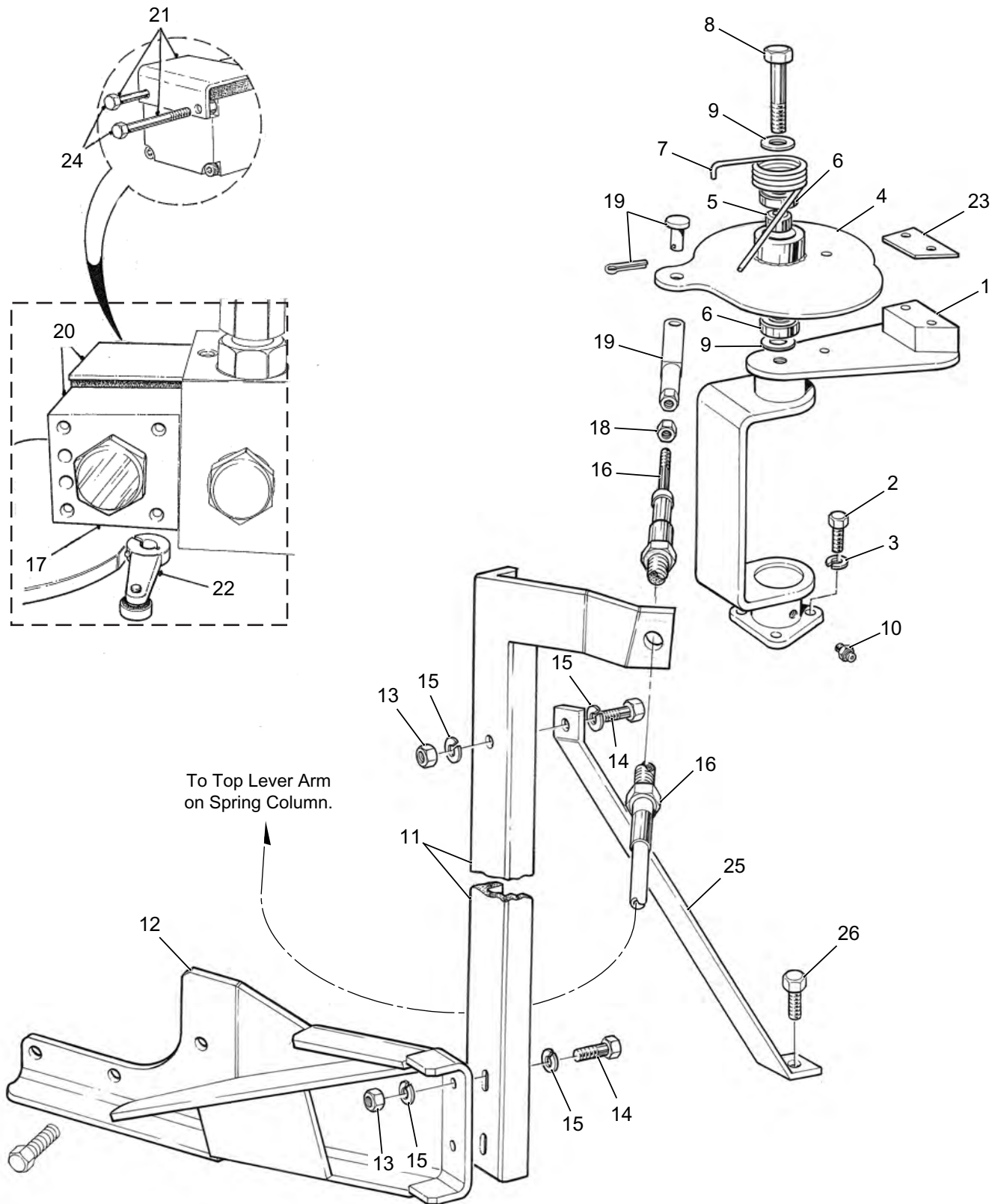


**FIGURE 68**

| ITM | PART NO.        | DESCRIPTION                  | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|-----------------|------------------------------|-----|-----|----------|-------------|-----|
| 1   | H500007         | MANIFOLD                     | 1   |     |          |             |     |
| 2   | KH20071         | SOLENOID VALVE               | 1   |     |          |             |     |
| 3   | 8-8-070120      | #8 CONNECTOR                 | 4   |     |          |             |     |
| 4   | 6-6-070220      | FITTING #6 SWIVEL 90°        | 2   |     |          |             |     |
| 5   | 6-8-070120      | FITTING - 1/2 STRT. 'O' RING | 1   |     |          |             |     |
| 6   | 8-8-8-070401    | FITTING - SWIVEL NUT TEE     | 1   |     |          |             |     |
| 7   | 2692327-01      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 8   | 2692308-04      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 9   | 2692301-11      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 10  | 2692302-02      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 11  | 2692301-15      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 12  | 2692301-15      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 13  | 2692305-11      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 14  | 2692302-03      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 15  | H500013         | SENSOR MANIFOLD              | 1   |     |          |             |     |
| 16  | 6-6-070120      | #6 CONNECTOR                 | 8   |     |          |             |     |
| 17  | 6-6-6-070432    | FITTING - SWIVEL NUT RUN TEE | 2   |     |          |             |     |
| 18  | H500014         | AUTO-STEER RESET CYLINDER    | 1   |     |          |             |     |
| 19  | 6-6-520320      | FITTING - #6 45° CONNECTOR   | 1   |     |          |             |     |
| 20  | 10-10-10-070432 | FITTING - 5/8 SWIVEL RUN TEE | 1   |     |          |             |     |
| 21  | 8-8-070221      | FITTING - 1/2 SWIVEL NUT 90° | 2   |     |          |             |     |
| 22  | KH20051         | SENSOR VALVE                 | 1   |     |          |             |     |
| 23  | KH70041         | SEAL KIT. SENSOR VALVE       | 1   |     |          |             |     |
| 24  | KH20054         | END CAP KIT. SENSOR VALVE    | 1   |     |          |             |     |
| 25  | KH70048         | SEAL KIT - KH20071           | 1   |     |          |             |     |
| 26  | KH20036         | RELIEF VALVE FOR H500013     | 2   |     |          |             |     |
| 27  | KH20056         | CHECK VALVE FOR H500013      | 1   |     |          |             |     |
| 28  | KH20042         | CHECK VALVE FOR H500007      | 1   |     |          |             |     |
| 29  | 2692325-01      | HOSE ASSEMBLY                | 1   |     |          |             |     |
| 30  | 2692326-02      | HOSE ASSEMBLY                | 2   |     |          |             |     |
| 31  | KH70039         | SEAL KIT - RESET CYLINDER    | A/R |     |          |             |     |
| 32  | H510079         | SENSOR VALVE ASSEMBLY        | 3   |     |          |             |     |
| 33  | KH20052         | RELIEF VALVE KIT             | 3   |     |          |             |     |
| 34  | H510109         | SENSOR VALVE COVER ASSY.     | 4   |     |          |             |     |
| 35  | 4141230         | BLOCK MANIFOLD ASSY.         | 1   |     |          |             |     |
| 36  | 2692304-18      | HOSE ASSEMBLY                | 2   |     |          |             |     |
| 37  | F440400         | 1/4 UNC FLANGED NUT          | 2   |     |          |             |     |
| 38  | 06-06-070220    | 3/8 - 90 DEG. ADAPTER        | 1   |     |          |             |     |
| 39  | F850422         | BOLT 1/4 UNC X 2 1/4 GR.8    | 2   |     |          |             |     |



FIGURE 69





**FIGURE 69**

| ITM | PART NO. | DESCRIPTION             | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|-------------------------|-----|-----|----------|-------------|-----|
| 1   | 4160222  | SENSOR VALVE MOUNT      | 1   |     |          |             |     |
| 2   | G0710050 | BOLT M10 X 1.5 X 50     | 3   |     |          |             |     |
| 3   | G311000  | LOCKWASHER M10          | 3   |     |          |             |     |
| 4   | H310014  | AUTO-STEER CAM          | 1   |     |          |             |     |
| 5   | H110116  | SPACER - CAM BEARINGS   | 1   |     |          |             |     |
| 6   | KB16001  | BEARING - CAM           | 2   |     |          |             |     |
| 7   | H110113  | SPRING - CAM            | 1   |     |          |             |     |
| 8   | G0112070 | BOLT M12 - 70           | 1   |     |          |             |     |
| 9   | F320800  | WASHER 1/2              | 2   |     |          |             |     |
| 10  | KM11400  | GREASE FITTING          | 1   |     |          |             |     |
| 11  | 4160558  | BRKT - AUTO-STEER CABLE | 1   |     |          |             |     |
| 12  | 4135222  | WDMT. AUTO-STEER MOUNT  | 1   |     |          |             |     |
| 13  | F230800  | NUT 1/2 UNC             | 3   |     |          |             |     |
| 14  | F040810  | BOLT 1/2 UNC X 1 GR.8   | 3   |     |          |             |     |
| 15  | F310800  | LOCKWASHER 1/2          | 6   |     |          |             |     |
| 16  | KD10056  | CABLE - CAM TO COLUMN   | 1   |     |          |             |     |
| 17  | KH20051  | SENSOR VALVE            | 1   |     |          |             |     |
| 18  | F220450  | JAM NUT 1/4 UNF         | 1   |     |          |             |     |
| 19  | KD10026  | CLEVIS CABLE END        | 1   |     |          |             |     |
| 20  | H510079  | SENSOR VAVLE ASSEMBLY   | 1   |     |          |             |     |
| 21  | H510109  | VALVE COVER ASSEMBLY    | 1   |     |          |             |     |
| 22  | H510111  | CAM ROLLER ARM          | 1   |     |          |             |     |
| 23  | H111196  | SHIM. VALVE MOUNT       | 1   |     |          |             |     |
| 24  | G0105040 | BOLT M5 X .8 X 40       | 2   |     |          |             |     |
| 25  | H111196  | CABLE ANCHOR BRACE      | 1   |     |          |             |     |
| 26  | REF.     | BOLT                    | 1   |     |          |             |     |

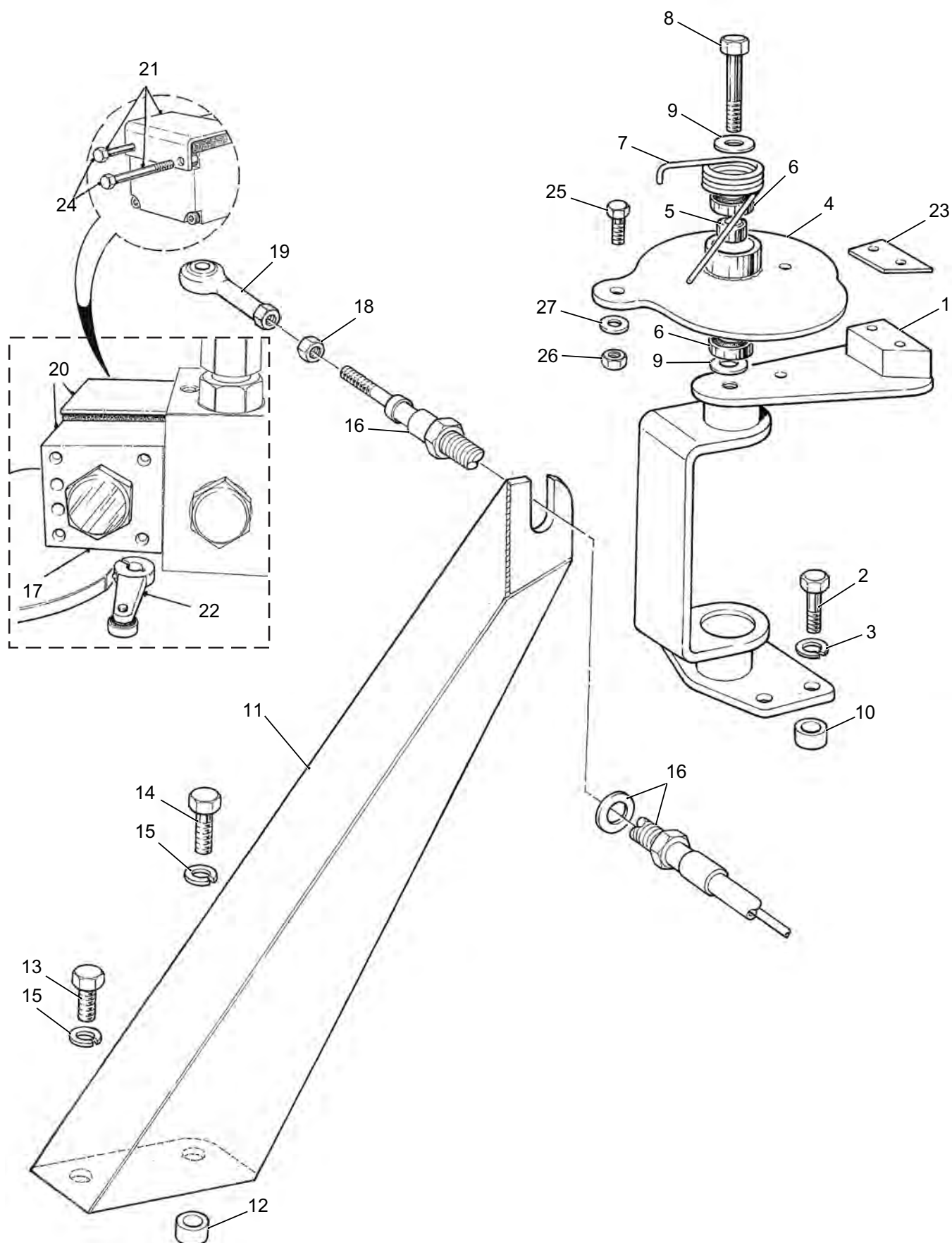
**NOTE**

Items 4, 5 & 6 are available  
as Torsion Spring Service Kit -  
H510199.

**NOTE**

See page 122 for the Sensor Valve  
Seal Kit and End Cap Kit.

FIGURE 69



**FIGURE 70**

| ITM | PART NO. | DESCRIPTION               | QTY | ITM | PART NO. | DESCRIPTION | QTY |
|-----|----------|---------------------------|-----|-----|----------|-------------|-----|
| 1   | 4160574  | SENSOR VALVE MOUNT        | 1   |     |          |             |     |
| 2   | G0716045 | BOLT M16 X 1.5 X 45       | 4   |     |          |             |     |
| 3   | G311600  | LOCKWASHER M16            | 4   |     |          |             |     |
| 4   | H310014  | AUTO-STEER CAM            | 1   |     |          |             |     |
| 5   | H110116  | SPACER - CAM BEARINGS     | 1   |     |          |             |     |
| 6   | KB16001  | BEARING - CAM             | 2   |     |          |             |     |
| 7   | H110113  | SPRING - CAM              | 1   |     |          |             |     |
| 8   | G0112070 | BOLT M12 - 70             | 1   |     |          |             |     |
| 9   | F320800  | WASHER 1/2                | 2   |     |          |             |     |
| 10  | 4160573  | SPACER                    | 4   |     |          |             |     |
| 11  | 4160578  | CABLE ANCHOR              | 1   |     |          |             |     |
| 12  | 4160581  | SPACER                    | 1   |     |          |             |     |
| 13  | G0412030 | BOLT M12 X 1.5 X 30       | 1   |     |          |             |     |
| 14  | G0412045 | BOLT M12 X 1.5 X 45       | 1   |     |          |             |     |
| 15  | G311200  | LOCKWASHER M12            | 2   |     |          |             |     |
| 16  | KD10056  | CABLE - CAM TO COLUMN     | 1   |     |          |             |     |
| 17  | KH20051  | SENSOR VALVE              | 1   |     |          |             |     |
| 18  | F220450  | JAM NUT 1/4 UNF           | 1   |     |          |             |     |
| 19  | 43-004A  | ROD END                   | 1   |     |          |             |     |
| 20  | H510079  | SENSOR VAVLE ASSEMBLY     | 1   |     |          |             |     |
| 21  | H510109  | VALVE COVER ASSEMBLY      | 1   |     |          |             |     |
| 22  | H510111  | CAM ROLLER ARM            | 1   |     |          |             |     |
| 23  | H111196  | SHIM. VALVE MOUNT         | 1   |     |          |             |     |
| 24  | G0105040 | BOLT M5 X .8 X 40         | 2   |     |          |             |     |
| 25  | F040412  | BOLT 1/4 UNC X 1 1/4 GR.8 | 1   |     |          |             |     |
| 26  | F210400  | LOCKNUT 1/4 UNC           | 1   |     |          |             |     |
| 27  | F320400  | WASHER 1/4                | 1   |     |          |             |     |

**NOTE**

Items 4, 5 & 6 are available as Torsion Spring Service Kit - H510199.

**NOTE**

See page 122 for the Sensor Valve Seal Kit and End Cap Kit.

**NOTE**

See page 125 for the Auto-Steer Valve Mount Non Current from Serial No. 118B to 136A.





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