



# 4112

## HI-CAPACITY RAKE

### PARTS BOOK

Part #75479

HSMFG010221

Rev. #06

Starting Ser. #121HC12013

**STRONG HERITAGE - STRONG PEOPLE - STRONGER FUTURE**

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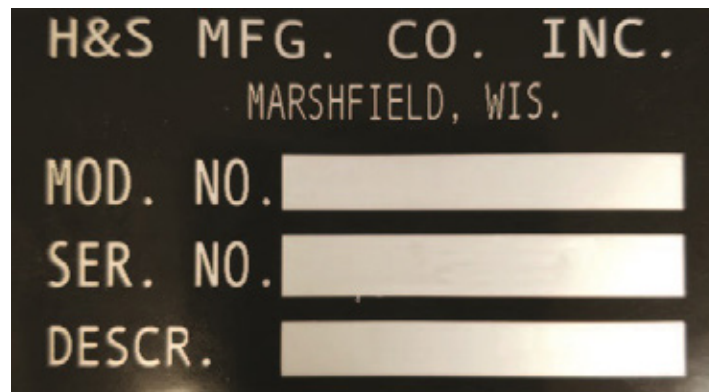
# **INSTRUCTIONS FOR ORDERING PARTS**

All service parts should be ordered through your authorized H&S dealer. He will be able to give you faster service if you will provide them with the following:

1. Model & Serial Number - Both can be located on the left, rear main frame of your unit.
2. All references to left or right apply to the machine as viewed from the rear.
3. Parts should not be ordered from illustration only. Please order complete part number.
4. If your dealer has to order parts - give shipping instructions:

VIA truck - large pieces (please specify local truck lines)

VIA United Parcel Service (include full address)



|                   |                      |
|-------------------|----------------------|
| H&S MFG. CO. INC. |                      |
| MARSHFIELD, WIS.  |                      |
| MOD. NO.          | <input type="text"/> |
| SER. NO.          | <input type="text"/> |
| DESCR.            | <input type="text"/> |

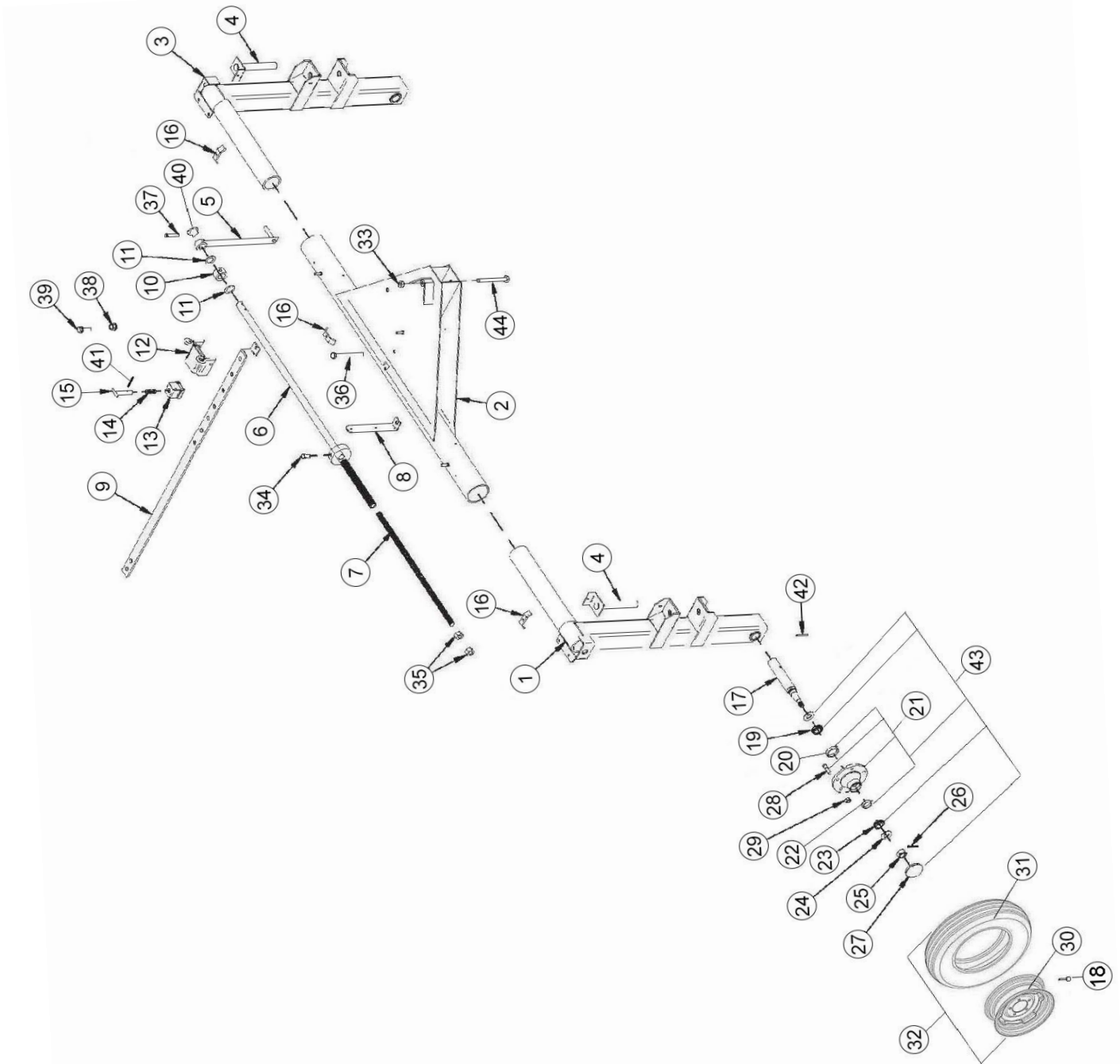
PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

## **ABOUT IMPROVEMENTS**

H&S IS CONTINUALLY STRIVING TO IMPROVE ITS PRODUCTS

We must, therefore, reserve the right to make improvements or changes whenever it becomes practical to do so, without incurring any obligation to make changes or additions to the equipment previously sold.

**FIGURE 1**  
**MAIN FRAME REAR**

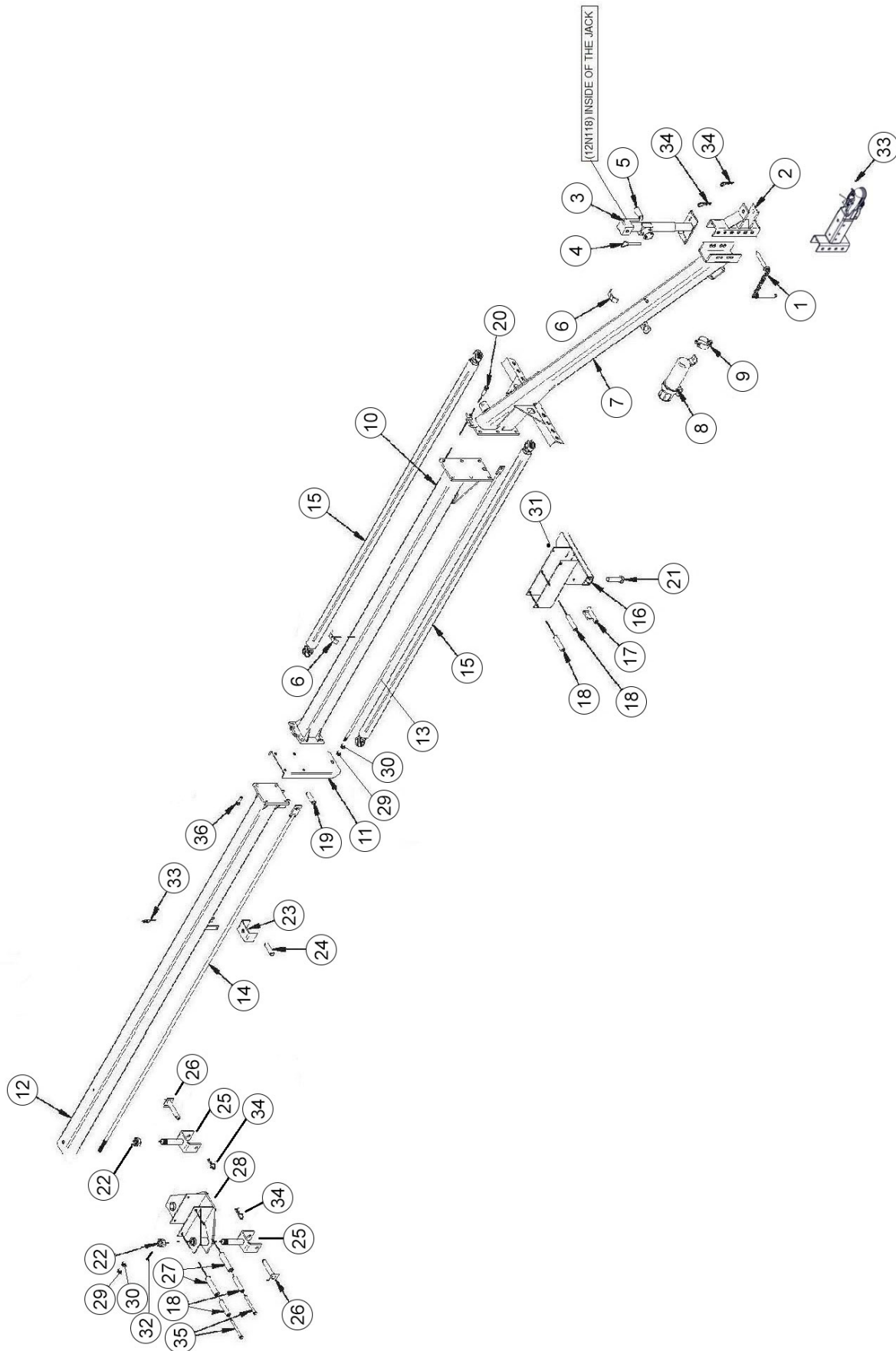


# **FIGURE 1**

## **MAIN FRAME REAR**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>  |
|--------------------|-------------------|---------------------|----------------------------|
| 1                  | 1                 | BFR754              | RH AXLE UPRIGHT            |
| 2                  | 1                 | BFR498              | PIVOT REAR                 |
| 3                  | 1                 | BFR755              | LH AXLE UPRIGHT            |
| 4                  | 2                 | BFR756              | BEAM PIVOT SHAFT           |
| 5                  | 1                 | BFR423              | WIDTH ADJUSTMENT HANDLE    |
| 6                  | 1                 | BFR485              | WIDTH ADJUSTMENT TUBE REAR |
| 7                  | 1                 | BFR420              | WIDTH ADJUSTMENT ROD REAR  |
| 8                  | 1                 | BFR649              | SMV BRACKET                |
| 9                  | 1                 | BFR611              | WIDTH ADJUSTMENT BAR       |
| 10                 | 1                 | BFR422              | WIDTH ADJUSTMENT COLLAR    |
| 11                 | 2                 | BFR523              | POLY WASHER                |
| 12                 | 1                 | BFR613              | WIDTH ADJUSTMENT STOP      |
| 13                 | 1                 | BFR239              | SLEEVE ADJUSTABLE LOCK     |
| 14                 | 1                 | BFR240              | SPRING                     |
| 15                 | 1                 | BFR241              | ADJUSTMENT HANDLE          |
| 16                 | 2                 | 23N67               | HOSE HOLDER                |
| 17                 | 2                 | BFR449              | SPINDLE                    |
| 18                 | 2                 | 72436               | VALVE STEM, 1-1/2          |
| 19                 | 2                 | 17G145              | TAPERED BEARING            |
| 20                 | 2                 | 17G146              | OUTER RACE                 |
| 21                 | 2                 | BFR60               | HUB                        |
| 22                 | 2                 | BFR61               | OUTER RACE                 |
| 23                 | 2                 | BFR62               | OUTER BEARING              |
| 24                 | 2                 | YWFL24010           | WASHER FLAT, 3/4           |
| 25                 | 2                 | YNLS24010           | NUT HEX, SLOTTED, 3/4      |
| 26                 | 2                 | YPCT05010           | COTTER PIN, 5/32 X 1-1/2   |
| 27                 | 2                 | BFR66               | HUB CAP                    |
| 28                 | 10                | YBSD16005           | STUD BOLT, 1/2 X 1-7/8     |
| 29                 | 10                | YNWL16005           | WHEEL NUT, 1/2             |
| 30                 | 2                 | BFR67               | WHEEL 5 X 15               |
| 31                 | 2                 | BFR128              | 670 X 15 TIRE 6-PLY        |
| 32                 | 2                 | 32006               | 6.70-15 TIRE ON 5X15 WHEEL |
| 33                 | 1                 | YNHX20005           | NUT HEX, 5/8               |
| 34                 | 1                 | YBHH16010           | BOLT HEX, 1/2 X 1 G5       |
| 35                 | 2                 | YNAC24005           | NUT HEX, 3/4               |
| 36                 | 1                 | YBHH20085           | BOLT HEX, 5/8 X 5 G5       |
| 37                 | 1                 | YBHH12090           | BOLT HEX, 3/8 X 2-1/2 G5   |
| 38                 | 1                 | BFR642              | WIDTH ADJUSTMENT SPACER    |
| 39                 | 1                 | YSHW10010           | HEX WASHER, 5/16           |
| 40                 | 1                 | BFR636              | PLASTIC PIPE CAP           |
| 41                 | 1                 | YPCT05020           | COTTER PIN, 5/32 X 1-3/4   |
| 42                 | 2                 | YPEX12025           | EXPANSION PIN, 3/8 X 2-3/4 |
| 43                 | 2                 | BFR75               | COMPLETE GROUND WHEEL HUB  |
| 44                 | 1                 | YBHH20107           | BOLT HEX, 5/8 X 7-1/2 G5   |

**FIGURE 2**  
**MAIN FRAME POLE AND LINKAGE**



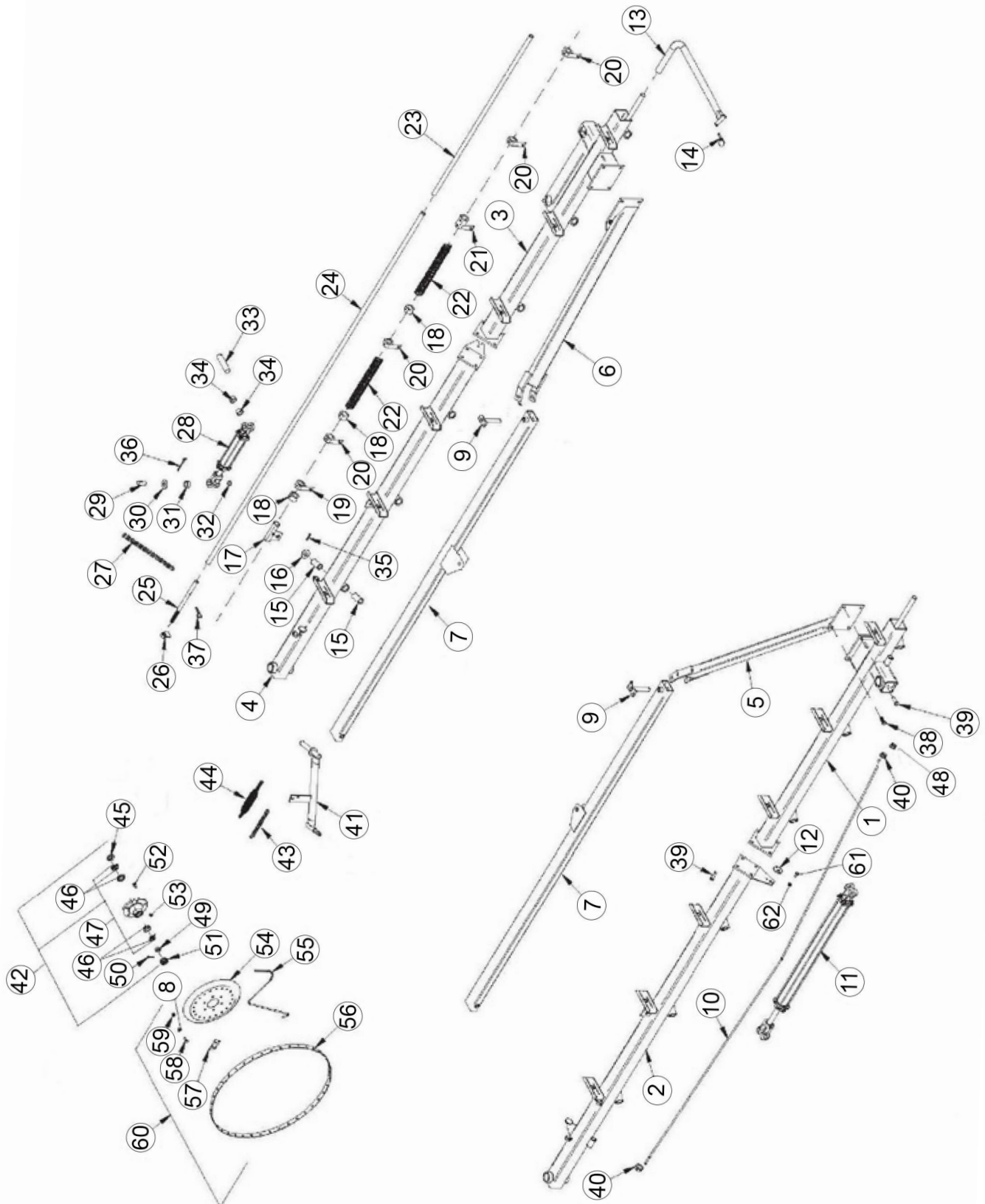
## **FIGURE 2**

### **MAIN FRAME POLE AND LINKAGE**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>                  |
|--------------------|-------------------|---------------------|--------------------------------------------|
| 1                  | 1                 | 87599               | HITCH PIN                                  |
| 2                  | 1                 | BFR157              | HITCH                                      |
| 3                  | 1                 | BFR753              | JACK                                       |
| 4                  | 1                 | 12N117              | JACK PIN W/CHAIN                           |
| 5                  | 1                 | 5N78                | JACK HANDLE                                |
| *                  | 1                 | 12N118              | REPLACEMENT BEARING                        |
| 6                  | 2                 | HE42                | HOSE HOLDER                                |
| 7                  | 1                 | BFR660              | POLE                                       |
| 8                  | 1                 | S522                | MANUAL HOLDER                              |
| 9                  | 1                 | S523                | MANUAL CLAMP - LARGE                       |
| 10                 | 1                 | BFR385              | CENTER POLE SECTION                        |
| 11                 | 1                 | BFR399              | LINKAGE STOP                               |
| 12                 | 1                 | BFR397              | CENTER POLE SECTION BACK                   |
| 13                 | 1                 | BFR502              | ROD FRONT                                  |
| 14                 | 1                 | BFR503              | ROD BACK                                   |
| 15                 | 2                 | BFR390              | LINKAGE FRONT                              |
| 16                 | 1                 | BFR387              | LINKAGE SLIDER FRONT                       |
| 17                 | 1                 | BFR388              | HOSE GUIDE SPACER                          |
| 18                 | 4                 | BFR389              | SLIDER SPACER                              |
| 19                 | 1                 | BFR396              | CYLINDER PIN                               |
| 20                 | 10                | YBHH20025           | BOLT HEX, 5/8 X 2 G5                       |
| 21                 | 2                 | YBHH32010           | BOLT HEX, 1 X 3-1/2 G5                     |
| 22                 | 2                 | YNSL36005           | NUT HEX, SLOTTED, 1-1/4"-12                |
| 23                 | 1                 | BFR402              | HOSE GUIDE                                 |
| 24                 | 1                 | BFR634              | CYLINDER PIN                               |
| 25                 | 2                 | BFR410              | LINKAGE YOKE BACK RH                       |
| 26                 | 2                 | BFR413              | PIVOT YOKE SHAFT PIN                       |
| 27                 | 2                 | BFR404              | SLIDER ROLLER BACK                         |
| 28                 | 1                 | BFR440              | LINKAGE SLIDER BACK                        |
| 29                 | 3                 | YNHX24010           | NUT HEX, 3/4                               |
| 30                 | 3                 | YNSF24006           | NUT HEX, SERRATED FLANGE 3/4               |
| 31                 | 2                 | YNHX16005           | NUT HEX, 1/2                               |
| 32                 | 2                 | YPCT05025           | COTTER PIN, 5/32 X 2                       |
| 33                 | 1                 | 76461               | BALL HITCH W/LDMNT, 2-5/16 BALL (OPTIONAL) |
| *                  | 1                 | 78464               | HITCH EXTENSION                            |
| 34                 | 2                 | YPHR06040           | HAIR PIN, 3/16 X 3-3/4                     |
| 35                 | 2                 | YBHH16160           | BOLT HEX, 1/2 X 5-1/2 G5                   |
| 36                 | 4                 | YBHH20035           | BOLT HEX, 5/8 X 2-1/2 G5                   |

**\*MEANS NOT SHOWN**

**FIGURE 3**  
**RAKE BEAM AND ARMS**



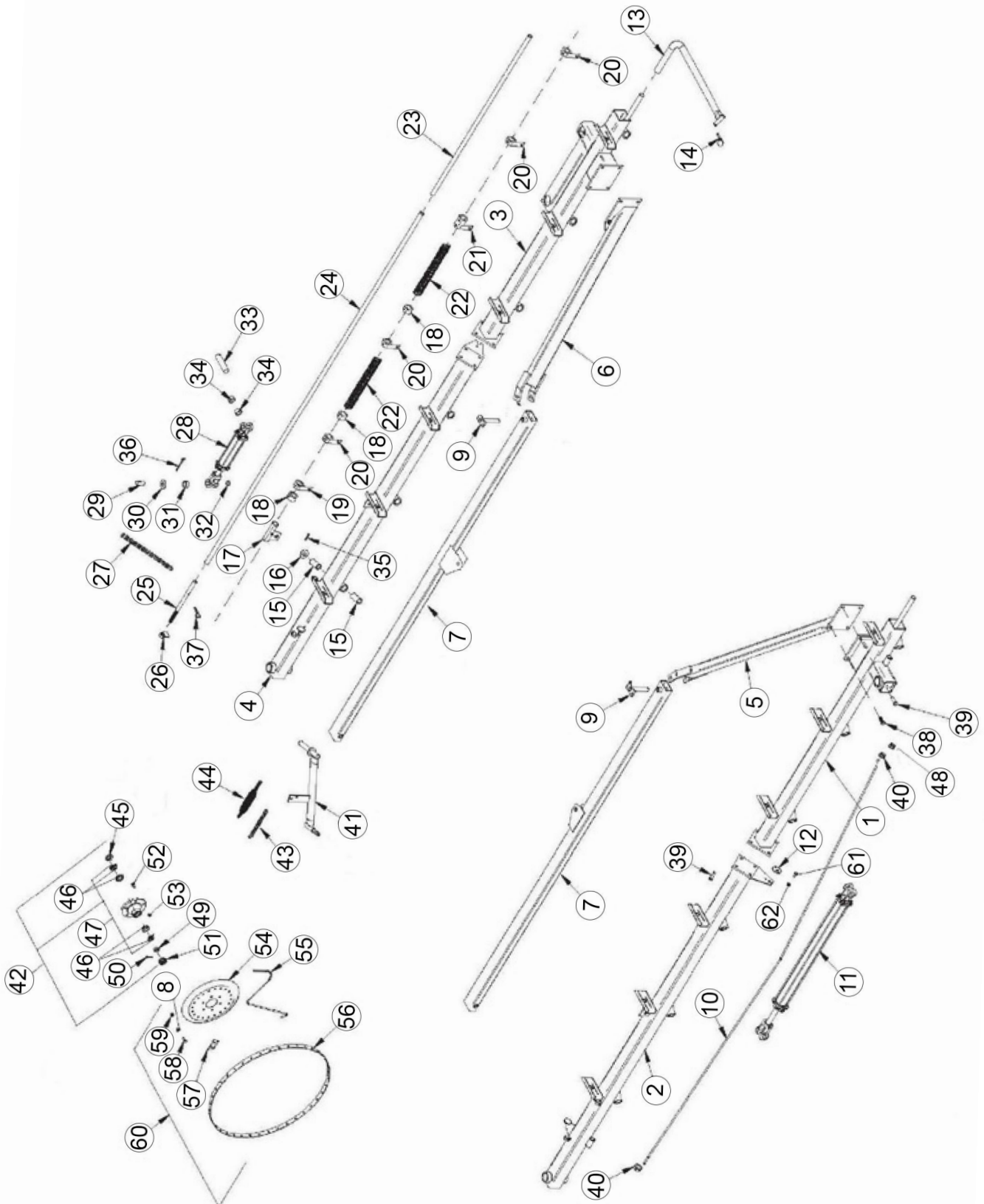
## **FIGURE 3**

### **RAKE BEAM AND ARMS**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>       |
|--------------------|-------------------|---------------------|---------------------------------|
| 1                  | 1                 | BFR406              | RH RAKE BEAM FRONT              |
| 2                  | 1                 | BFR758              | RH BACK RAKE BEAM               |
| 3                  | 1                 | BFR407              | LH RAKE BEAM FRONT              |
| 4                  | 1                 | BFR759              | LH RAKE BEAM BACK               |
| 5                  | 1                 | BFR391              | RH RAKE BEAM ARM                |
| 6                  | 1                 | BFR392              | LH RAKE BEAM ARM                |
| 7                  | 2                 | BFR394              | RH LINKAGE REAR                 |
| 8                  | 1                 | YWLO76015           | WASHER LOCK, M10                |
| 9                  | 2                 | BFR393              | RAKE BEAM ARM PIN               |
| 10                 | 1                 | BFR612              | SIDE ARM STABILIZER ROD         |
| 11                 | 1                 | 56004               | HYDRAULIC CYLINDER              |
| 12                 | 1                 | DF22                | WASHER                          |
| 13                 | 1                 | BFR384              | LH TRANSPORT LOCK PIPE          |
| *                  | 1                 | BFR415              | RH TRANSPORT LOCK PIPE          |
| 14                 | 2                 | YPLY12010           | LYNCH PIN, 3/8 X 1-3/4          |
| 15                 | 24                | BFR425              | RAKE ARM BUSHING W/FLANGE       |
| 16                 | 12                | BFR229              | RAKE ARM WASHER                 |
| 17                 | 1                 | BFR428              | LH HYDRAULIC CYLINDER END SLIDE |
| *                  | 1                 | BFR429              | RH HYDRAULIC CYLINDER END SLIDE |
| 18                 | 6                 | BFR82               | PIPE CLAMPS                     |
| 19                 | 2                 | BFR622              | SPRING BRACKET (2 HOLE)         |
| 20                 | 4                 | BFR431              | LH SPRING BRACKET               |
| *                  | 4                 | BFR430              | RH SPRING BRACKET               |
| 21                 | 2                 | BFR432              | LH LIFTING PIPE CONNECTOR       |
| *                  | 2                 | BFR433              | RH LIFTING PIPE CONNECTOR       |
| 22                 | 4                 | BFR84               | COMPRESSION SPRING              |
| 23                 | 2                 | BFR520              | LIFTING PIPE FRONT              |
| 24                 | 2                 | BFR519              | LIFTING PIPE BACK               |
| 25                 | 2                 | BFR427              | RAKE ARM LOCK-UP SHAFT          |
| 26                 | 2                 | BFR426              | RAKE PRESSURE HANDLE            |
| 27                 | 2                 | BFR111              | RAKE ARM ADJUSTMENT CHAIN BACK  |
| 28                 | 2                 | 55999               | HYDRAULIC LIFT CYLINDER         |
| 29                 | 2                 | BFR517              | PIN                             |
| 30                 | 2                 | 16SV136             | WASHER                          |
| 31                 | 2                 | K106                | CYLINDER SPACER                 |

**\*MEANS NOT SHOWN**

**FIGURE 3**  
**RAKE BEAM AND ARMS**



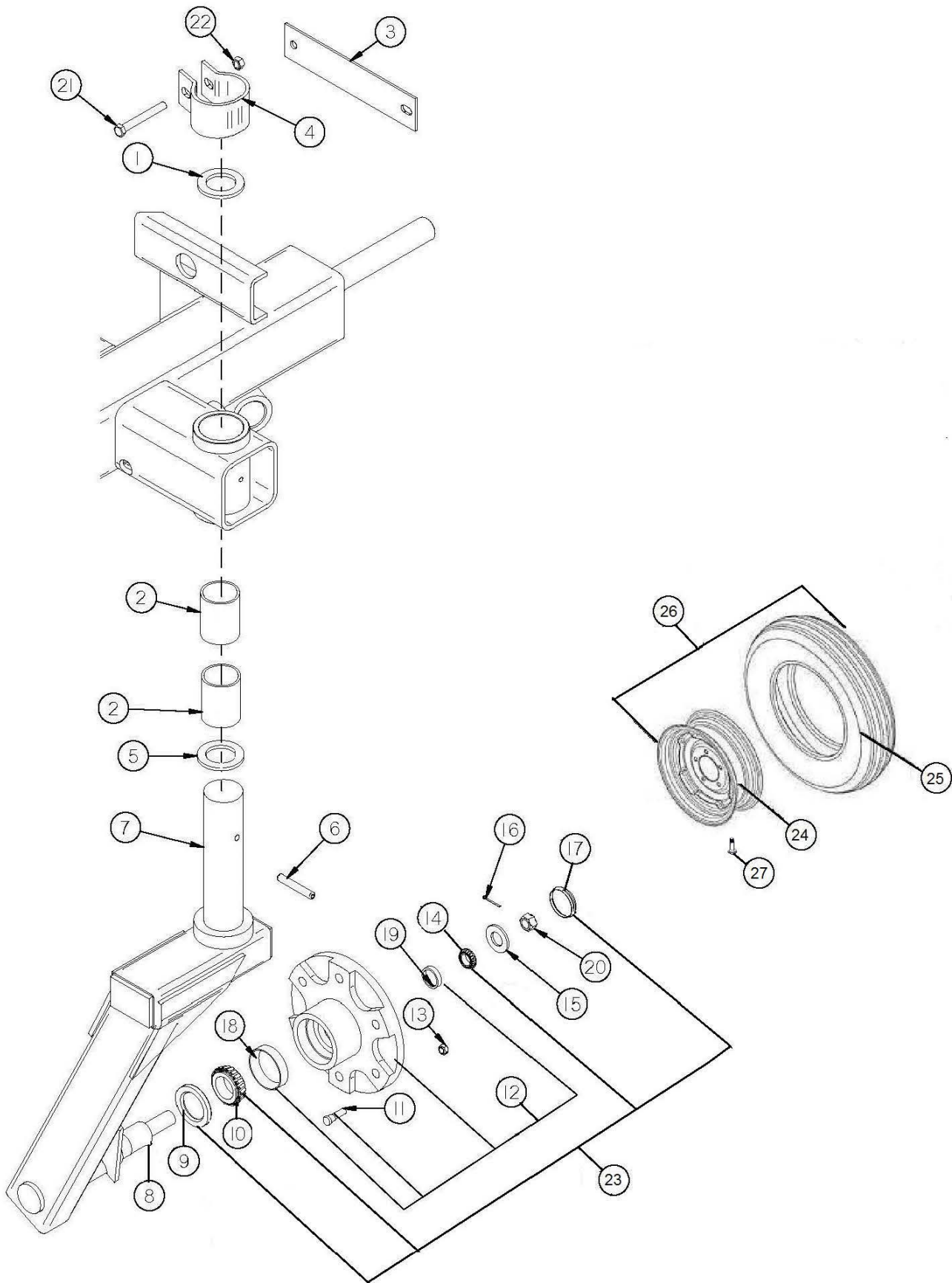
## **FIGURE 3**

### **RAKE BEAM AND ARMS**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>       |
|--------------------|-------------------|---------------------|---------------------------------|
| 32                 | 2                 | BFR506              | NYLON WEAR BLOCK                |
| 33                 | 2                 | T143                | CYLINDER PIN                    |
| 34                 | 4                 | X94                 | CYLINDER SPACERS EXPANSION      |
| 35                 | 1                 | YPEx10015           | COTTER PIN, 5/16 X 1-3/4        |
| 36                 | 2                 | YPCT07005           | COTTER PIN, 7/32 X 2            |
| 37                 | 2                 | YPhR08040           | HAIR PIN, 1/4 X 5               |
| 38                 | 4                 | YBHH20020           | BOLT HEX, 5/8 X 1-3/4 G5        |
| 39                 | 4                 | YBHH20025           | BOLT HEX, 5/8 X 2 G6            |
| 40                 | 2                 | YNFG24005           | NUT HEX, FLANGED-LOCK, 3/4      |
| 41                 | 12                | BFR436              | RAKE ARM LH                     |
| *                  | 12                | BFR437              | RAKE ARM RH                     |
| 42                 | 12                | 1081                | RAKE WHEEL HUB AND SPINDLE      |
| 43                 | 12                | BFR140              | RAKE ARM ADJUSTMENT CHAIN       |
| 44                 | 12                | BFR138              | RAKE ARM SPRING                 |
| 45                 | 12                | T163                | SEAL                            |
| 46                 | 12                | 600012              | INNER BEARING AND RACE          |
| 47                 | 12                | BFR32               | RAKE WHEEL HUB                  |
| 48                 | 1                 | YNJM24012           | NUT JAM, 3/4 A                  |
| 49                 | 12                | YNSL24010           | NUT HEX, SLOTTED, 3/4           |
| 50                 | 12                | YPCT05010           | COTTER PIN, 5/32 X 1-1/2        |
| 51                 | 12                | T173                | HUB CAP                         |
| 52                 | 60                | YBHH76005           | BOLT HEX, 10MM X 25MM           |
| 53                 | 60                | YNHX76015           | HEX NUT, 10MM                   |
| 54                 | 12                | T179                | RAKE WHEEL CENTER               |
| 55                 | 480               | T176                | RAKE WHEEL TOOTH                |
| 56                 | 12                | T177                | OUTER RING                      |
| 57                 | 10                | T178                | RAKE TOOTH CLIP                 |
| 58                 | 20                | YBCR76005           | BOLT CARRIAGE, 10MM X 25MM 10MM |
| 59                 | 20                | YNHX76015           | NUT HEX, M10-1.5                |
| 60                 | 12                | T174                | RAKE WHEEL LH                   |
| *                  | 12                | BFR31               | RAKE WHEEL RH                   |
| 61                 | 8                 | YBHH10010           | BOLT HEX, 5/16 X 1 G5           |
| 62                 | 8                 | YWLO10005           | WASHER LOCK, 5/16               |

**\*MEANS NOT SHOWN**

**FIGURE 4**  
**GAUGE WHEEL**



## **FIGURE 4**

### **GAUGE WHEEL**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>             |
|--------------------|-------------------|---------------------|---------------------------------------|
| 1                  | 1                 | BFR309              | GAUGE WHEEL WASHER                    |
| 2                  | 2                 | RG26                | BUSHING, BRONZE, GAUGE WHEEL          |
| 3                  | 1                 | BFR310              | BRAKE PAD (2)                         |
| 4                  | 1                 | BFR311              | BRAKE COLLAR                          |
| 5                  | 1                 | RG24                | BRONZE WASHER                         |
| 6                  | 1                 | YPEx10025           | EXPANSION PIN, 5/16 X 2-3/4           |
| 7                  | 1                 | BFR312              | RH COMPLETE FORK                      |
| *                  | 1                 | BFR316              | LH COMPLETE FORK                      |
| 8                  | 1                 | BFR56               | SPINDLE                               |
| 9                  | 1                 | BFR57               | GREASE SEAL                           |
| 10                 | 1                 | 17G145              | TAPERED ROLLER BEARING, 1.249 BORE    |
| 11                 | 5                 | YBSD16005           | STUD BOLT, 1/2 X 1-7/8 (3/8 SHOULDER) |
| 12                 | 1                 | BFR60               | HUB W/RACES                           |
| 13                 | 5                 | YNWL16005           | WHEEL NUT, 1/2                        |
| 14                 | 1                 | BFR62               | OUTER BEARING                         |
| 15                 | 1                 | YWFL24010           | WASHER FLAT, 3/4                      |
| 16                 | 1                 | YPCT05010           | COTTER PIN, 5/32 X 1-1/2              |
| 17                 | 1                 | BFR66               | HUB CAP                               |
| 18                 | 1                 | 17G146              | OUTER RACE                            |
| 19                 | 1                 | BFR61               | OUTER RACE                            |
| 20                 | 1                 | YNSL24010           | NUT HEX, SLOTTED, 3/4                 |
| 21                 | 1                 | YBHH12125           | BOLT HEX, 3/8 X 3 G5                  |
| 22                 | 1                 | YNHX12005           | NUT HEX, 3/8                          |
| 23                 | 1                 | BFR75               | COMPLETE HUB GROUND WHEEL             |
| 24                 | 1                 | BFR67               | WHEEL 5 X 15                          |
| 25                 | 1                 | BFR128              | 6.70 X 15 TIRE                        |
| 26                 | 1                 | 32006               | 6.70-15 TIRE ON 5X15 WHEEL            |
| 27                 | 1                 | 72436               | VALVE STEM, 1-1/2                     |

**\*MEANS NOT SHOWN**

A technical drawing of a mechanical assembly, likely a vehicle chassis or suspension system, shown in a perspective view. The drawing includes the following numbered components:

- 1**: A large, curved structural member, possibly a frame or fender.
- 2**: A small component, possibly a pin or bolt, located near the bottom right.
- 3**: A multi-link suspension assembly, possibly a MacPherson strut or similar, shown in two locations.
- 4**: A small component, possibly a pin or bolt, located near the center.
- 5**: A small component, possibly a pin or bolt, located near the center.
- 6**: A curved structural member, possibly a fender or wheel arch.
- 7**: A long, multi-link suspension assembly, possibly a trailing arm or similar.
- 8**: A long, straight structural member, possibly a beam or axle.
- 9**: A small component, possibly a pin or bolt, located near the top left.
- 10**: A small component, possibly a pin or bolt, located near the top left.
- 11**: A small component, possibly a pin or bolt, located near the bottom right.
- 12**: A small component, possibly a pin or bolt, located near the bottom right.
- 13**: A small component, possibly a pin or bolt, located near the bottom right.
- 14**: A small component, possibly a pin or bolt, located near the top left.

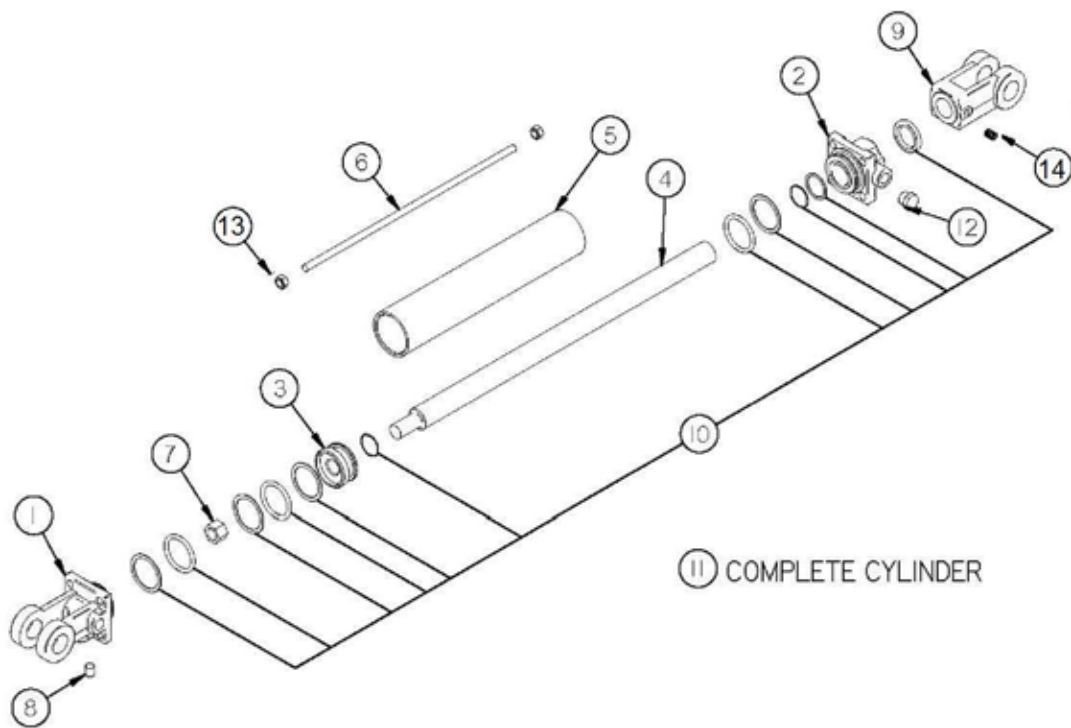
## **FIGURE 5**

### **RAKE HYDRAULICS**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>     |
|--------------------|-------------------|---------------------|-------------------------------|
| 1                  | 2                 | 37N60               | HOSE, 108                     |
| 2                  | 1                 | BFR74               | FEMALE TEE, 3/8               |
| 3                  | 2                 | 55999               | HYDRAULIC LIFT CYLINDER       |
| 4                  | 1                 | 23N302              | HOSE, 264                     |
| 5                  | 2                 | 23N234              | STREET ELBOW, 3/8             |
| 6                  | 1                 | 58723               | MALE ADAPTER UNION W/ ORIFICE |
| 7                  | 1                 | 56004               | HYDRAULIC OPEN CYLINDER       |
| 8                  | 2                 | BFR621              | HOSE, 256                     |
| 9                  | 1                 | HE60                | PIPE COUPLER, 3/8             |
| 10                 | 1                 | BFR448              | HOSE, 66                      |
| 11                 | 1                 | BFR554              | FLOW VALVE                    |
| 12                 | 1                 | BFR555              | ADAPTER                       |
| 13                 | 2                 | BFR70               | VENT PLUG                     |
| 14                 | 3                 | DWM205              | COUPLERS                      |

## **FIGURE 6**

### **HYDRAULIC LIFT CYLINDER**

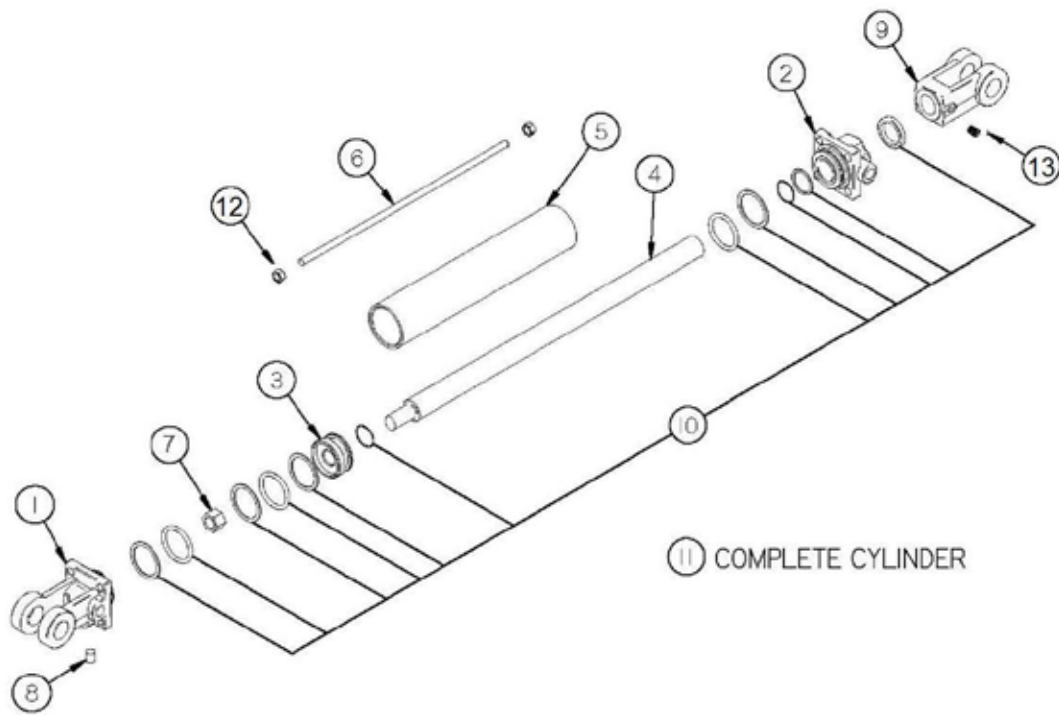


## **FIGURE 6**

### **HYDRAULIC LIFT CYLINDER**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>    |
|--------------------|-------------------|---------------------|------------------------------|
| 1                  | 1                 | 23N142A             | CLEVIS CAP                   |
| 2                  | 1                 | 56174               | ROD CAP                      |
| 3                  | 1                 | 56180               | PISTON                       |
| 4                  | 1                 | T184A               | ROD                          |
| 5                  | 1                 | BFR68               | CYLINDER TUBE                |
| 6                  | 4                 | T186                | TIE ROD                      |
| 7                  | 1                 | 23N148              | PISTON NUT                   |
| 8                  | 1                 | 23N149              | PLUG                         |
| 9                  | 1                 | 23N150A             | ROD CLEVIS                   |
| 10                 | 1                 | 56187               | SEAL KIT                     |
| 11                 | 1                 | 55999               | COMPLETE CYLINDER            |
| 12                 | 1                 | BFR70               | VENT PLUG                    |
| 13                 | 8                 | YNHX12006           | NUT HEX, 3/8 G2              |
| 14                 | 1                 | YSSO12015           | SCREW SET, SOCKET, 3/8 X 3/8 |

**FIGURE 7**  
**OPENING CYLINDER**

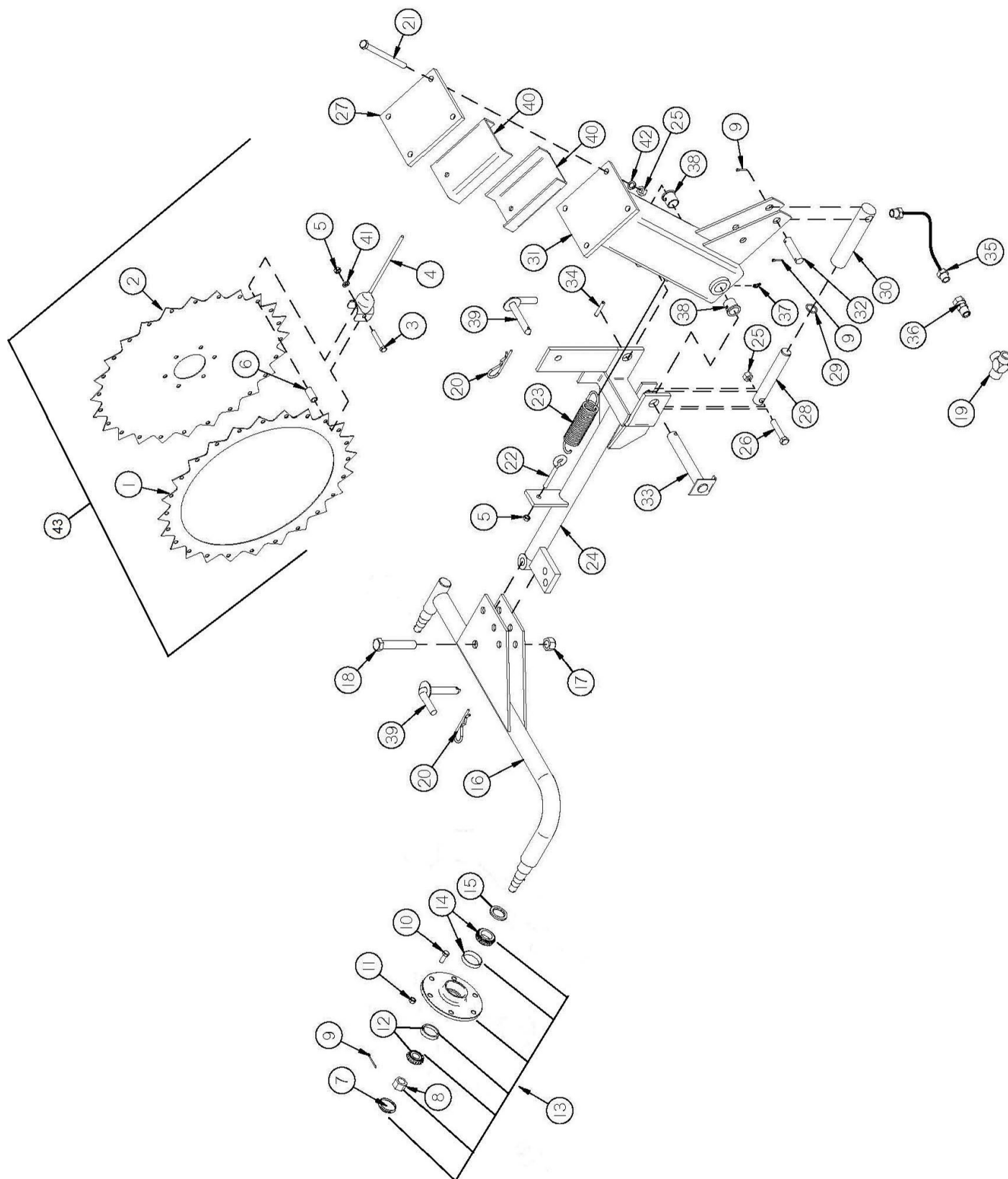


## **FIGURE 7**

### **OPENING CYLINDER**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>    |
|--------------------|-------------------|---------------------|------------------------------|
| 1                  | 1                 | 23N142A             | CLEVIS CAP                   |
| 2                  | 1                 | 56174               | ROD CAP                      |
| 3                  | 1                 | 56180               | PISTON                       |
| 4                  | 1                 | BFR654              | ROD                          |
| 5                  | 1                 | BFR655              | CYLINDER TUBE                |
| 6                  | 4                 | BFR656              | TIE ROD                      |
| 7                  | 1                 | 23N148              | PISTON NUT                   |
| 8                  | 1                 | 23N149              | PLUG                         |
| 9                  | 1                 | 23N150A             | ROD CLEVIS                   |
| 10                 | 1                 | 56187               | SEAL KIT                     |
| 11                 | 1                 | 56004               | COMPLETE CYLINDER            |
| 12                 | 8                 | YNHX12006           | NUT HEX, 3/8 G2              |
| 13                 | 1                 | YSSO12015           | SCREW SET, SOCKET, 3/8 X 3/8 |

**FIGURE 8**  
**OPTIONAL 2 WHEEL CENTER KICKER WHEEL**

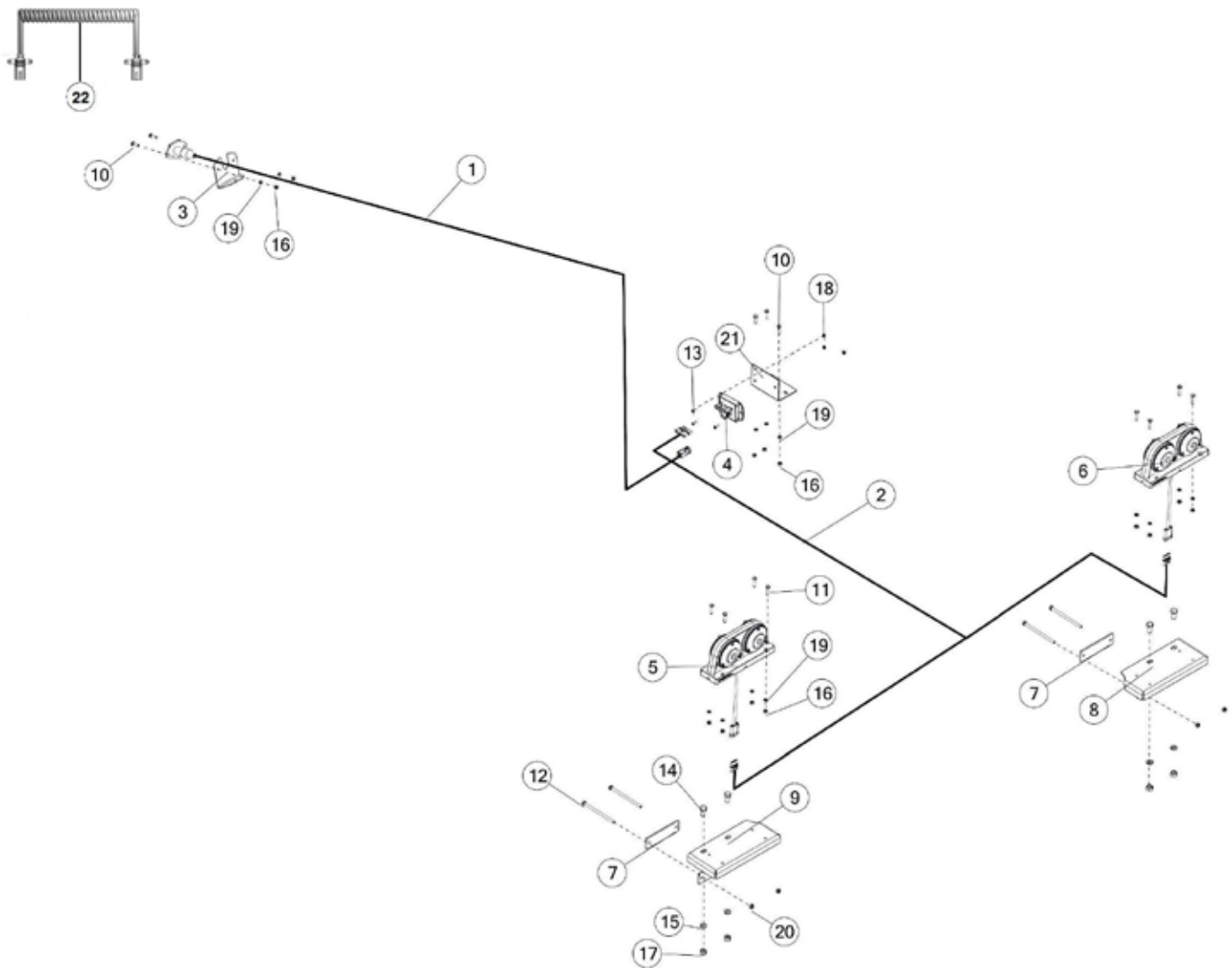


## **FIGURE 8**

### **OPTIONAL 2 WHEEL CENTER KICKER WHEEL**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>         |
|--------------------|-------------------|---------------------|-----------------------------------|
| 1                  | 1                 | BFR369              | RAKE WHEEL RING                   |
| 2                  | 1                 | BFR370              | RAKE WHEEL CENTER                 |
| 3                  | 1                 | YBHH12100           | BOLT HEX, 3/8 X 2-1/4 G5          |
| 4                  | 1                 | T82                 | RAKE WHEEL TOOTH                  |
| 5                  | 2                 | YNTL12005           | NUT HEX, TOP LOCK, 3/8            |
| 6                  | 1                 | BFR371              | RAKE WHEEL SPACER                 |
| 7                  | 1                 | T173                | HUB CAP                           |
| 8                  | 1                 | YNSL24010           | NUT HEX, SLOTTED, 3/4             |
| 9                  | 1                 | YPCT05010           | COTTER PIN, 5/32 X 1-1/2          |
| 10                 | 1                 | YBHH76005           | BOLT HEX, 10MM X 25MM             |
| 11                 | 1                 | YNHX76015           | NUT HEX, 10MM                     |
| 12                 | 1                 | 600014              | OUTER BEARING RACE                |
| 13                 | 1                 | 1081                | RAKE WHEEL HUB AND SPINDLE        |
| 14                 | 1                 | 600012              | INNER BEARING RACE                |
| 15                 | 1                 | T163                | SEAL                              |
| 16                 | 1                 | BFR511              | CENTER KICKER WHEEL ARM           |
| 17                 | 1                 | YNTL24005           | NUT HEX, TOP LOCK, 3/4            |
| 18                 | 1                 | YBHH24050           | BOLT HEX, 3/4 X 3 G5              |
| 19                 | 1                 | BFR74               | PIPE TEE, 3/8                     |
| 20                 | 2                 | YPHR02010           | HAIR PIN, #21-07                  |
| 21                 | 4                 | YBHH16175           | BOLT HEX, 1/2 X 6-1/2 G5          |
| 22                 | 1                 | YBTE12025           | BOLT TURNED EYE, 3/8 X 3          |
| 23                 | 1                 | BR62                | SPRING                            |
| 24                 | 1                 | BFR512              | CENTER KICKER WHEEL PIVOT         |
| 25                 | 6                 | YNTL16005           | NUT HEX, TOP LOCK, 1/2            |
| 26                 | 1                 | YBHH16080           | BOLT HEX, 1/2 X 2-1/2 G5          |
| 27                 | 1                 | BFR513              | KICKER WHEEL MOUNT                |
| 28                 | 1                 | BFR114              | PISTON                            |
| 29                 | 1                 | BFR115              | O-RING                            |
| 30                 | 1                 | BFR116              | HYDRAULIC CYLINDER                |
| 31                 | 1                 | BFR514              | KICKER WHEEL OFFSET               |
| 32                 | 1                 | BFR515              | CYLINDER PIN                      |
| 33                 | 1                 | BFR379              | AXLE SHAFT                        |
| 34                 | 1                 | YPEX10015           | EXPANSION PIN, 5/16 X 1-3/4       |
| 35                 | 1                 | BFR121              | HOSE                              |
| 36                 | 1                 | 58720               | 3/8 MALE ADPTER WITH .022 ORIFICE |
| 37                 | 1                 | RG21                | GREASE ZERK, 45 DEGREE            |
| 38                 | 2                 | BFR27               | BUSHING                           |
| 39                 | 1                 | BFR197              | LOCKING PIN                       |
| 40                 | 2                 | BFR516              | FILLER PLATE                      |
| 41                 | 4                 | YWLO12005           | WASHER LOCK, 3/8                  |
| 42                 | 4                 | YWLO16005           | WASHER LOCK, 1/2                  |
| 43                 | 1                 | BFR748              | COMPLETE WHEEL ASSEMBLY           |

**FIGURE 9**  
**OPTIONAL LIGHTS**

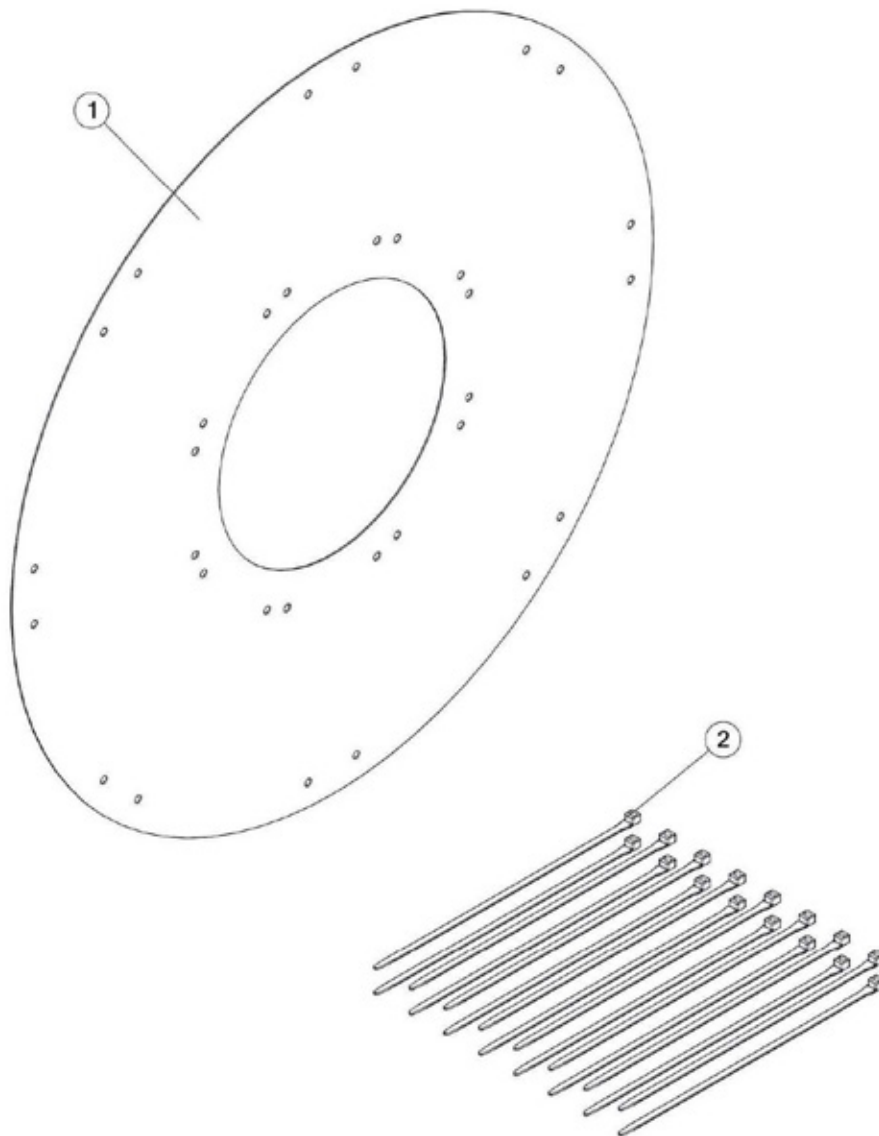


## **FIGURE 9**

### **OPTIONAL LIGHTS**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>   |
|--------------------|-------------------|---------------------|-----------------------------|
| 1                  | 1                 | BFR668              | LIGHT HARNESS               |
| 2                  | 1                 | 77847               | ELEC HARNESS, LIGHT REAR    |
| 3                  | 1                 | BFR659              | LIGHT BRACKET               |
| 4                  | 1                 | 69908               | MODULE CONTROL BLINKER      |
| 5                  | 1                 | 77923               | LH TAIL LIGHT               |
| 6                  | 1                 | 77924               | RH TAIL LIGHT               |
| 7                  | 2                 | 77977               | LIGHT BRACKET, PLATE        |
| 8                  | 1                 | 77844               | RH LIGHT BRACKET            |
| 9                  | 1                 | 77846               | LH LIGHT BRACKET            |
| 10                 | 2                 | YBHH08005           | BOLT HEX 1/4 X 1 G2         |
| 11                 | 8                 | YBHH08030           | BOLT HEX 1/4 X 1-1/4 G2     |
| 12                 | 4                 | YBHH10133           | BOLT HEX 5/16 X 5-1/2 G5    |
| 13                 | 3                 | YSPN64005           | SCREW PAN HEAD #10-24 X 5/8 |
| 14                 | 4                 | YBHH16010           | BOLT HEX 1/2 X 1 G5         |
| 15                 | 4                 | YWLO16005           | WASHER LOCK, 1/2            |
| 16                 | 13                | YNHX08005           | NUT HEX, 1/4 G5             |
| 17                 | 4                 | YNHX16005           | NUT HEX, 1/2 G2             |
| 18                 | 3                 | YNNY64005           | NUT HEX, #10-24 G2          |
| 19                 | 13                | YWLO08005           | WASHER LOCK, 1/4            |
| 20                 | 4                 | YNNY10005           | NUT HEX, 5/16 G2            |
| 21                 | 1                 | 78369               | MODULE BRACKET              |
| 22                 | 1                 | TLPC                | TRANSPORT LIGHT CORD        |

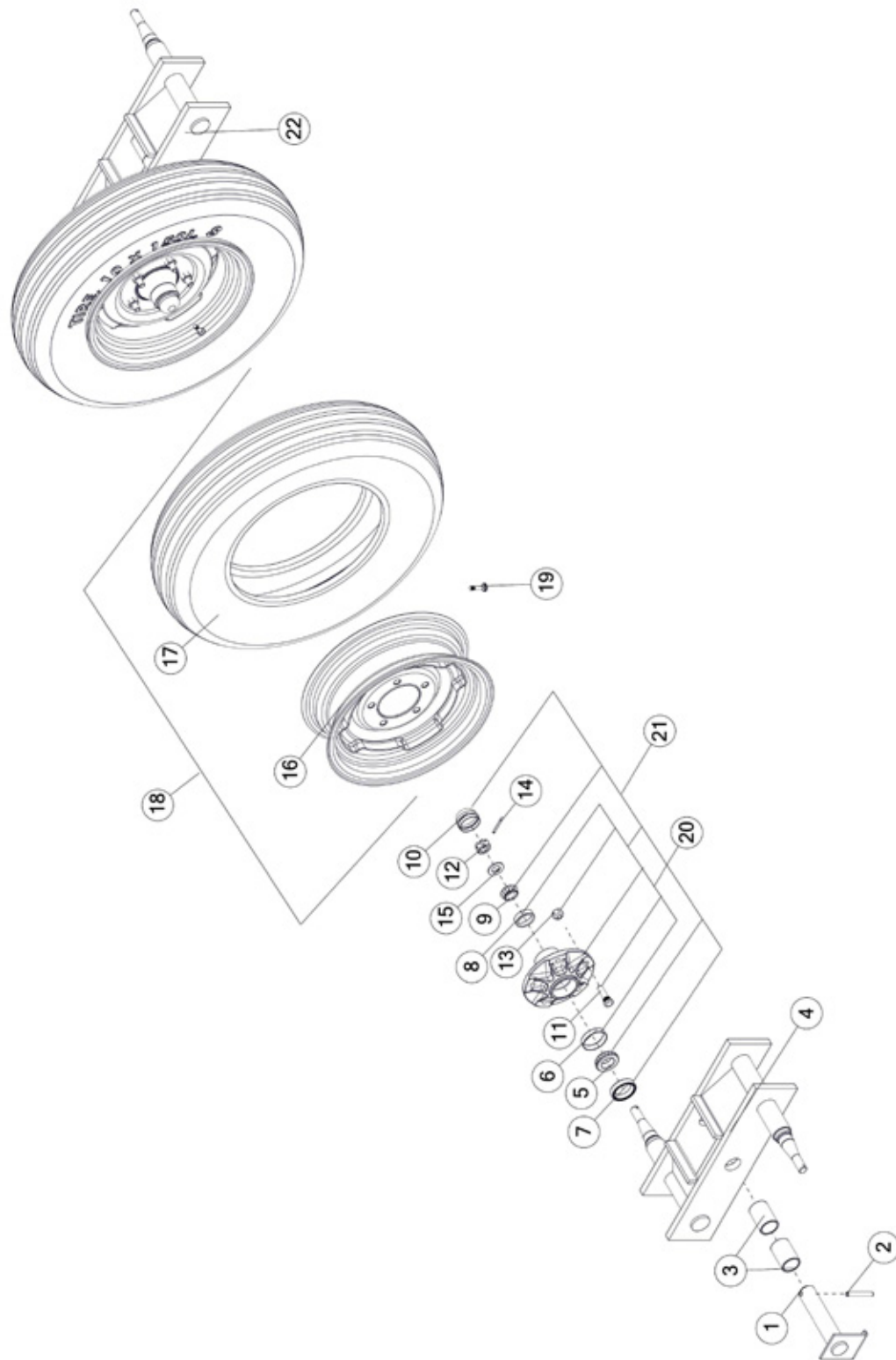
**FIGURE 10**  
**OPTIONAL WIND GUARD KIT**



**FIGURE 10**  
**OPTIONAL WIND GUARD KIT**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>      |
|--------------------|-------------------|---------------------|--------------------------------|
| 1                  | 1                 | 59040               | POLY WIND GUARD, 55 RAKE WHEEL |
| 2                  | 16                | CIZT105             | ZIPTIE, 15.0 X .30 X .08       |

**FIGURE 11**  
**OPTIONAL TANDEM AXLE**



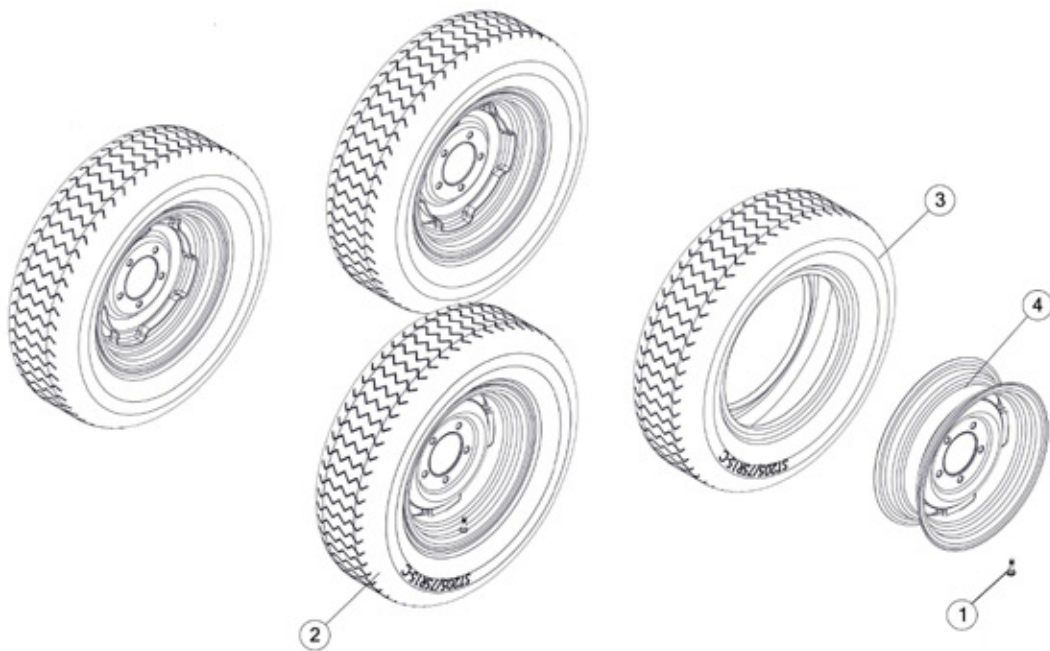
## **FIGURE 11**

### **OPTIONAL TANDEM AXLE**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>             |
|--------------------|-------------------|---------------------|---------------------------------------|
| 1                  | 2                 | BFR524              | TANDEM PIN                            |
| 2                  | 2                 | YPEX12025           | EXPANSION PIN, 3/8 X 2-3/4            |
| 3                  | 4                 | BFR625              | BRONZE BUSHING                        |
| 4                  | 1                 | BFR509              | RH TANDEM AXLE                        |
| 5                  | 2                 | 17G145              | TAPERED ROLLER BEARING, 1.249 BORE    |
| 6                  | 2                 | 17G146              | OUTER RACE                            |
| 7                  | 2                 | BFR57               | GREASE SEAL                           |
| 8                  | 2                 | BFR61               | OUTER RACE                            |
| 9                  | 2                 | BFR62               | OUTER BEARING                         |
| 10                 | 2                 | BFR66               | HUB CAP                               |
| 11                 | 10                | YBSD16005           | BOLT STUD, 1/2 X 1-7/8 X 3/8 G5       |
| 12                 | 2                 | YNSL24010           | NUT SLOT, 3/4                         |
| 13                 | 10                | YNWL16005           | NUT WHEEL, 1/2 G5                     |
| 14                 | 2                 | YPCT05010           | COTTER PIN 5/32 X 1-1/2               |
| 15                 | 2                 | YWFL24010           | WASHER FLAT, 3/4                      |
| 16                 | 2                 | BFR67               | WHEEL 5 X 15 5 BOLT                   |
| 17                 | 2                 | BFR128              | 670 X 15 TIRE 6-PLY                   |
| *                  | 2                 | 75696               | ST205/75R15-C RADIAL TIRE (OPTIONAL)  |
| 18                 | 2                 | 32006               | 6.70-15 TIRE ON 5X15 WHEEL            |
| *                  | 2                 | 75697               | 205/75R15 TIRE ON AG WHEEL (OPTIONAL) |
| 19                 | 2                 | 72436               | VALVE STEM, 1-1/2 RUBBER              |
| 20                 | 2                 | BFR60               | HUB WITH RACES & STUDS                |
| 21                 | 2                 | BFR75               | HUB ASSY                              |
| 22                 | 1                 | BFR510              | LH TANDEM AXLE                        |

**\*MEANS NOT SHOWN**

**FIGURE 12**  
**OPTIONAL TIRE & WHEEL**



**FIGURE 12**  
**OPTIONAL TIRE & WHEEL**

| <b><u>ITEM</u></b> | <b><u>QTY</u></b> | <b><u>PART#</u></b> | <b><u>DESCRIPTION</u></b>     |
|--------------------|-------------------|---------------------|-------------------------------|
| 1                  | 4                 | 72436               | VALVE STEM, 1-1/2 RUBBER      |
| 2                  | 4                 | 75697               | ST205-75R15C ON 15X5, 5-BOLT  |
| 3                  | 4                 | 75696               | ST205/75R15-C RADIAL TIRE     |
| 4                  | 4                 | BFR67               | WHEEL 5X15 5 BOLT CREAM COLOR |

[illegible]

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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