

# **H&S PARTS BOOK**

## **S3127 SPREADER**



Revision #00  
Starting Ser. #614341

Part #72467  
HSMFG1215

**P.O. BOX 768, MARSHFIELD, WI 54449**  
**(715) 387-3414 FAX (715) 384-5463**  
**[www.hsmfgco.com](http://www.hsmfgco.com)**

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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 side of the center bearing post above jack mount.
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)

Via FED EX (Include Full Address)

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

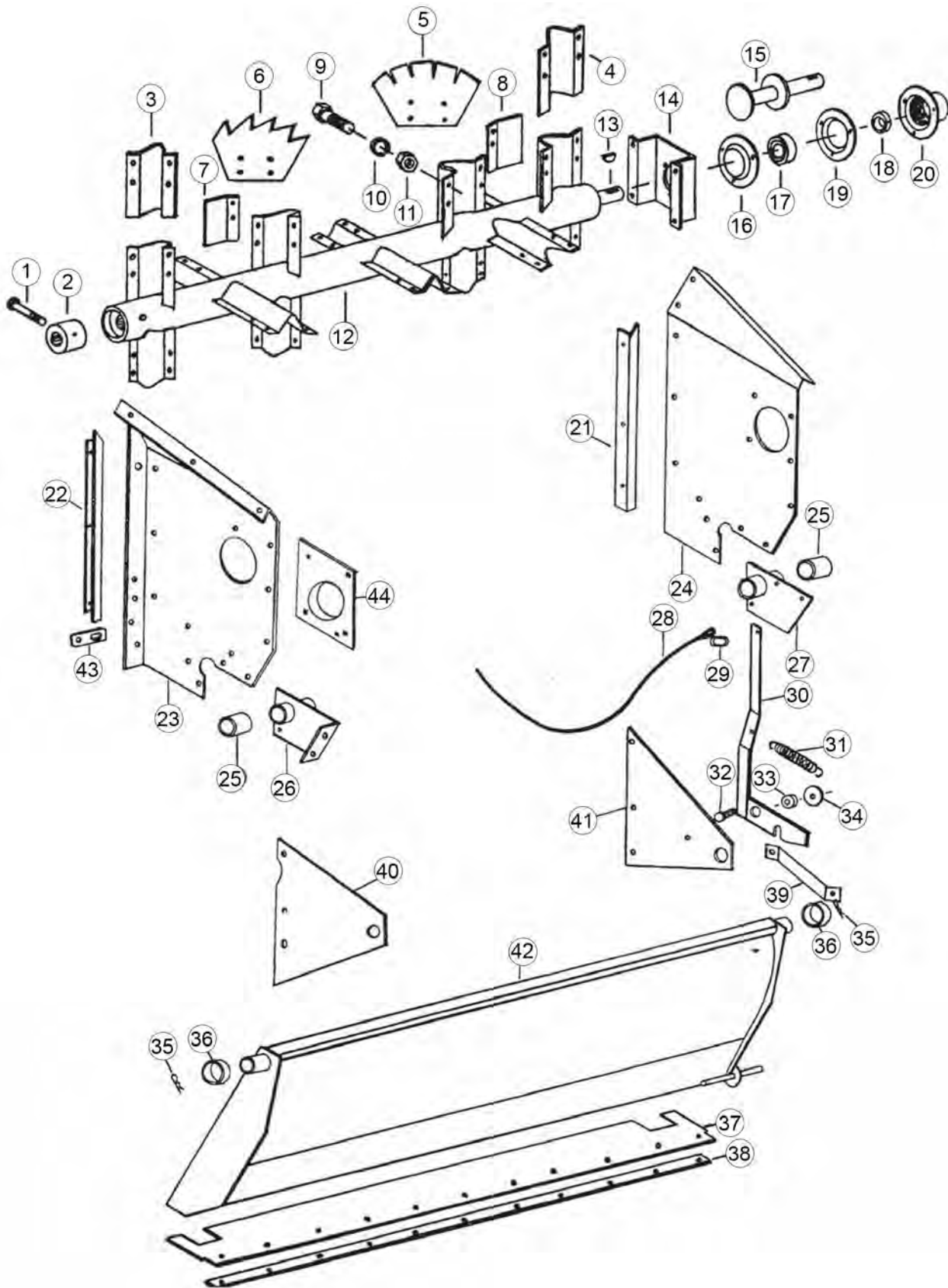
PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

### **ABOUT IMPROVEMENTS**

H&S MFG. CO. INC. IS CONTINUALLY STRIVING TO IMPROVE IT'S 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**  
**BEATER/PAN ASSEMBLY**

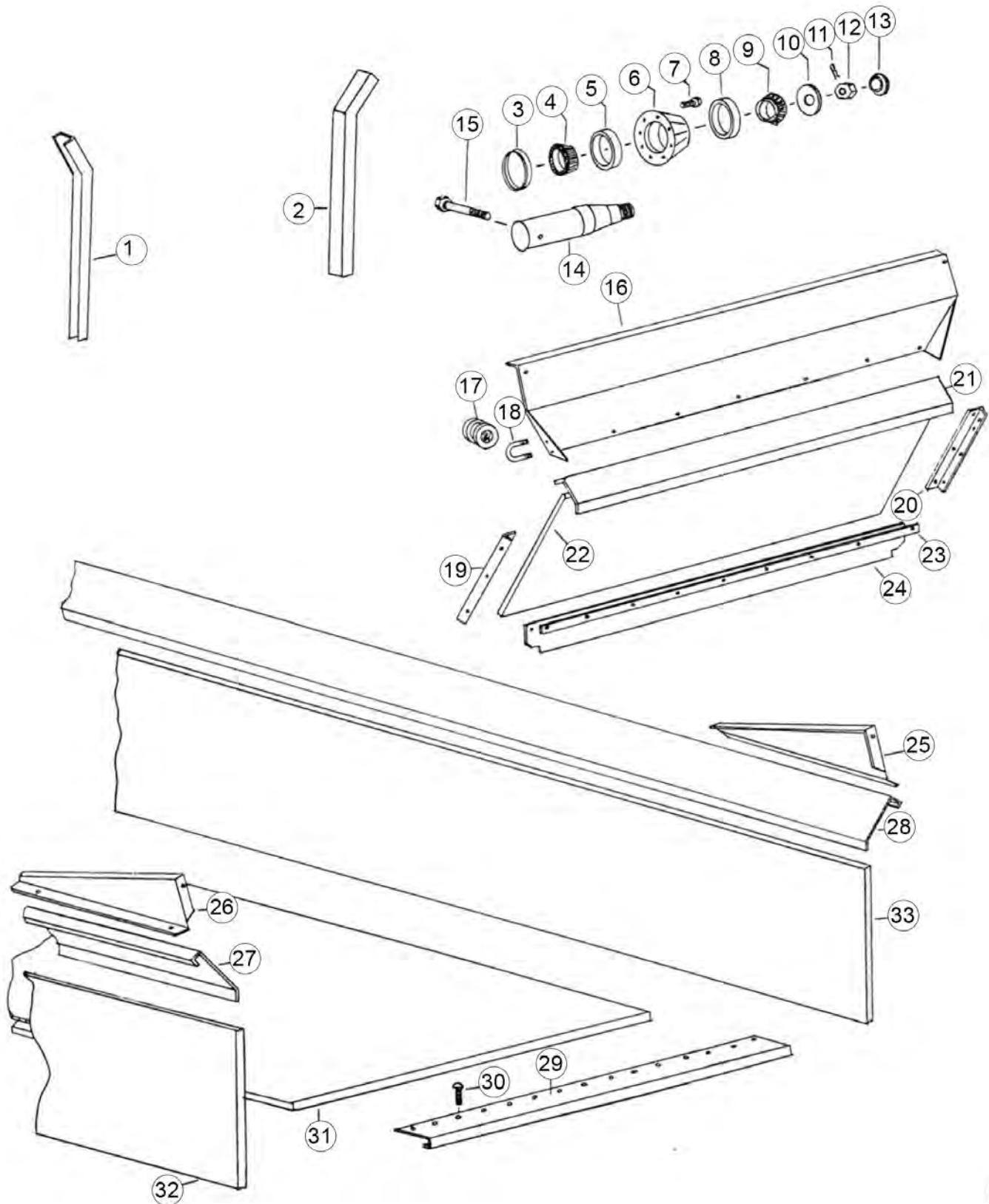


# **FIGURE 1**

## **BEATER/PAN ASSEMBLY**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>           |
|--------------------|----------------------|-------------------------------------|
| 1                  | YBHH10130            | BOLT, 5/16" X 5" GR. 5              |
| 2                  | 23N2                 | SPLINED BEATER INSERT               |
| 3                  | 23N3                 | BEATER BLADE HOLDER LH              |
| 4                  | 23N4                 | BEATER BLADE HOLDER RH              |
| 5                  | 23N276               | BEATER BLADE - HARDENED             |
| 6                  | 23N277               | BEATER BLADE - HARDENED             |
| 7                  | 23N7                 | BEATER BLADE WIPER LH               |
| 8                  | 23N8                 | BEATER BLADE WIPER RH               |
| 9                  | YBHH16045            | BOLT, 1/2" X 1-1/4" GR. 5           |
| 10                 | YWLO16005            | WASHER, LOCK, 1/2"                  |
| 11                 | YNTL16005            | HEX NUT, TOP LOCK, 1/2"-13          |
| 12                 | 23N263               | BEATER                              |
| 13                 | 5B9                  | 3/8" X 1-1/4" WOODRUFF KEY          |
| 14                 | 23N10                | BEATER SHAFT SUPPORT                |
| 15                 | 23N11                | BEATER STUB SHAFT                   |
| 16                 | F116                 | BEARING FLANGE (HEAVY DUTY)         |
| 17                 | 12N122               | BEARING W/ LOCK COLLAR ASSY.        |
| 18                 | 12N122               | BEARING W/ LOCK COLLAR ASSY.        |
| 19                 | F114A                | BEARING FLANGE W/ ZERK 45 DEGREE    |
| 20                 | 23N12                | BEARING FLANGE GUARD                |
| 21                 | 23N13                | RH SIDE POLY HOLD DOWN              |
| 22                 | 23N14                | LH SIDE POLY HOLD DOWN              |
| 23                 | 23N264               | LH MAIN PANEL                       |
| 24                 | 23N265               | RH MAIN PANEL                       |
| 25                 | 23N17                | DRIVE SHAFT BUSHING                 |
| 26                 | 23N257               | DRIVE SHAFT BRACKET LH              |
| 27                 | 23N19                | DRIVE SHAFT BRACKET RH              |
| 28                 | 27N1                 | PAN TRIP ROPE                       |
| 29                 | R31                  | CLIP                                |
| 30                 | 23N2                 | PAN TRIP LEVER                      |
| 31                 | R27                  | SPRING                              |
| 32                 | YBCR16010            | CARRIAGE. BOLT, 1/2" X 1-1/2" GR. 5 |
| 33                 | 23N23                | TRIP LEVER SPACER                   |
| 34                 | YWFL16005            | WASHER, FLAT, 1/2" USS              |
| 35                 | YPCT06020            | COTTER PIN, 3/16" X 2"              |
| 36                 | F112                 | SPACER                              |
| 37                 | 23N24                | PAN RUBBER FLAP                     |
| 38                 | 23N25                | PAN STRAP                           |
| 39                 | 23N267               | PAN SUPPORT BRACE                   |
| 40                 | 23N268               | LH PAN SUPPORT                      |
| 41                 | 23N29                | RH PAN SUPPORT                      |
| 42                 | 23N30                | PAN                                 |
| 43                 | 23N64                | SHIELD BRACKET                      |
| 44                 | 17G10                | LH ANTI-WRAP GUARD                  |

**FIGURE 2**  
**SPINDLE/HUB/BOX PARTS**



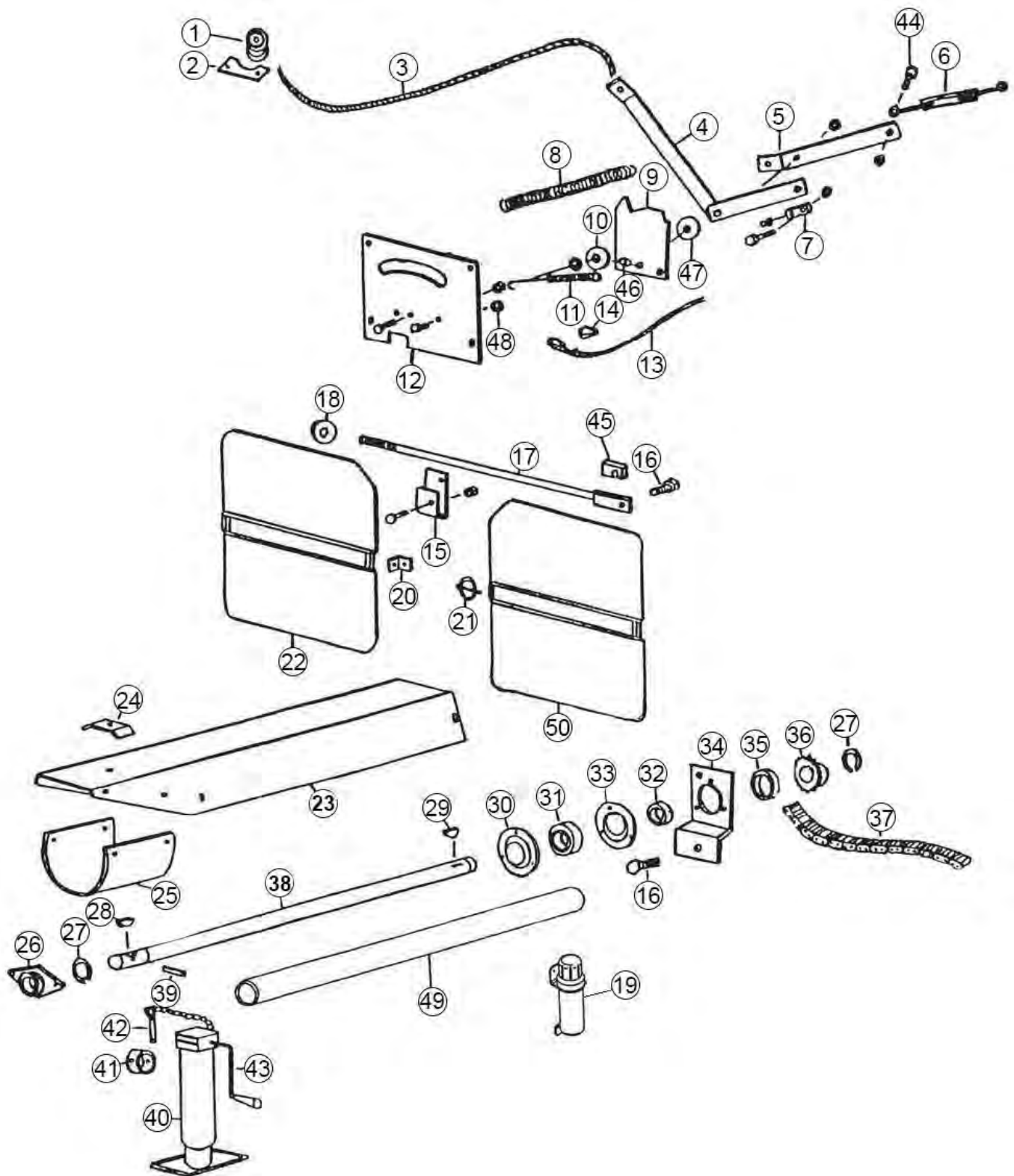
## **FIGURE 2**

### **SPINDLE/HUB/BOX PARTS**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                                             |
|--------------------|----------------------|-----------------------------------------------------------------------|
| 1                  | 23N31                | RH SIDE STAKE                                                         |
| 2                  | 23N32                | LH SIDE STAKE                                                         |
| 3                  | B90                  | SEAL                                                                  |
| 4                  | B91                  | INNER BEARING                                                         |
| 5                  | B91A                 | INNER RACE                                                            |
| 6                  | 26G4A                | HUB                                                                   |
| 7                  | YBSD20005            | STUD BOLT 5/8-18 UNF X 2 1/4                                          |
| 8                  | B94A                 | OUTER RACE                                                            |
| 9                  | B94A                 | OUTER BEARING                                                         |
| 10                 | YWFL28005            | WASHER, FLAT, 7/8" USS                                                |
| 11                 | YPCT05020            | COTTER PIN, 5/32" X 1-3/4"                                            |
| 12                 | YNSL28005            | HEX NUT, SLOTTED, 7/8"-14                                             |
| 13                 | B2                   | HUB CAP                                                               |
| 14                 | 27N2                 | SPINDLE                                                               |
| *                  | 27N46                | SPINDLE FOR 14 X 16.1 WHEEL                                           |
| 15                 | YBHH16130            | BOLT, 1/2" X 4" GR. 5                                                 |
| 16                 | 23N34                | FRONT FLARE                                                           |
| 17                 | F33                  | ROPE GUIDE                                                            |
| 18                 | YBPU08005            | PIPE U BOLT, 1/4"-20 X 3/4" PIPE, 1-1/4" ID, 2-1/4" IL, 1-1/4" THREAD |
| 19                 | 23N35                | RH GATE ANGLE                                                         |
| 20                 | 23N36                | LH GATE ANGLE                                                         |
| 21                 | 23N176               | FRONT FLARE SUPPORT                                                   |
| 22                 | 23N270A              | FRONT GATE PLYWOOD WITH FIBERGLASS                                    |
| 23                 | 23N40                | STRAP FOR RUBBER                                                      |
| 24                 | 23N41                | FRONT GATE RUBBER                                                     |
| 25                 | 23N42                | SPLASH GUARD SIDE LH                                                  |
| 26                 | 23N43                | SPLASH GUARD SIDE RH                                                  |
| 27                 | 23N24                | RH SIDE FLARE                                                         |
| 28                 | 23N25                | LH SIDE FLARE                                                         |
| 29                 | 23N46                | FRONT POLY FLOOR HOLD DOWN                                            |
| 30                 | B106                 | BOLTS FOR POLY FLOOR                                                  |
| 31                 | 23N36                | FLOOR PLYWOOD WITH POLY                                               |
| 32                 | 27N37A               | RH SIDE PLYWOOD WITH FIBERGLASS                                       |
| 33                 | 27N38A               | LH SIDE PLYWOOD WITH FIBERGLASS                                       |
| *                  | 12V36                | WHEEL 14 X 16.1                                                       |
| *                  | 23N179               | WHEEL 8 X 22.5                                                        |
| *                  | UR19                 | TIRE, 295/75R22.5, RECAP, HIGHWAY TREAD                               |

**\* MEANS NOT SHOWN**

# **FIGURE 3** **FRONT SHIELDS/DRIVE ASSEMBLY**



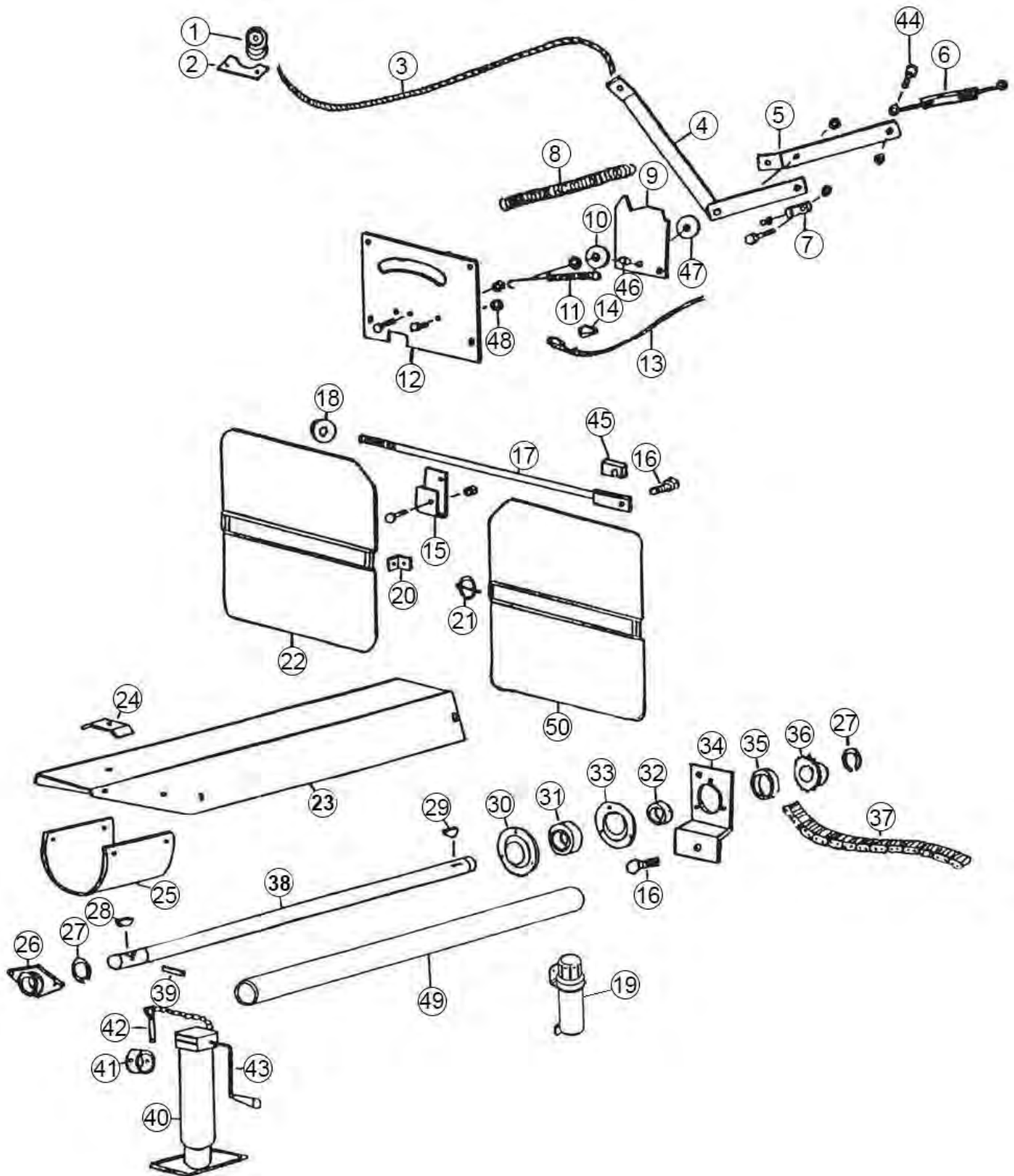
# **FIGURE 3**

## **FRONT SHIELDS/DRIVE ASSEMBLY**

| <u><b>ITEM</b></u> | <u><b>PART #</b></u> | <u><b>DESCRIPTION</b></u>                                 |
|--------------------|----------------------|-----------------------------------------------------------|
| 1                  | F33                  | CABLE GUIDE                                               |
| 2                  | 23N182               | BRACKET                                                   |
| 3                  | 23N183               | ROPE - 15'                                                |
| 4                  | 23N280               | SHIFTER LEVER                                             |
| 5                  | 23N281               | PIVOT LINK                                                |
| 6                  | F84                  | TURNBUCKLE                                                |
| 7                  | 23N282               | SHIFTER DOG                                               |
| 8                  | 10R14                | SPRING                                                    |
| 9                  | 23N283               | STOP BRACKET                                              |
| 10                 | YWCU12005            | WASHER, CUSTOM, FLAT, .435" ID. X 1-7/8" OD. X .125 THICK |
| 11                 | 23N284               | SHIFTER DOG SPRING                                        |
| 12                 | 23N285               | FRONT PANEL                                               |
| 13                 | 23N40                | CABLE                                                     |
| 14                 | F44                  | CABLE LOOP                                                |
| 15                 | 23N287               | SPRING BRACKET                                            |
| 16                 | YBHH16045            | BOLT, 1/2" X 1-1/4" GR. 5                                 |
| 17                 | 23N63                | TIGHTENER ROD                                             |
| 18                 | F129                 | WASHER                                                    |
| 19                 | S522                 | MAUNAL HOLDER                                             |
| 20                 | F92                  | SHIELD BRACKET                                            |
| 21                 | S122                 | LANYARD, CLIP PIN CABLE                                   |
| 22                 | 23N305               | FRONT SHIELD RH                                           |
| 23                 | 23N66                | SHIELD                                                    |
| 24                 | 23N67                | TAILGATE HOSE BRACKET                                     |
| *                  | HE42                 | HYDRAULIC DRIVE BRACKET                                   |
| 25                 | F54                  | SHIELD                                                    |
| 26                 | 12N29                | BEARING                                                   |
| 27                 | F73                  | SNAP RING                                                 |

**\* MEANS NOT SHOWN**

**FIGURE 3**  
**FRONT SHIELDS/DRIVE ASSEMBLY**



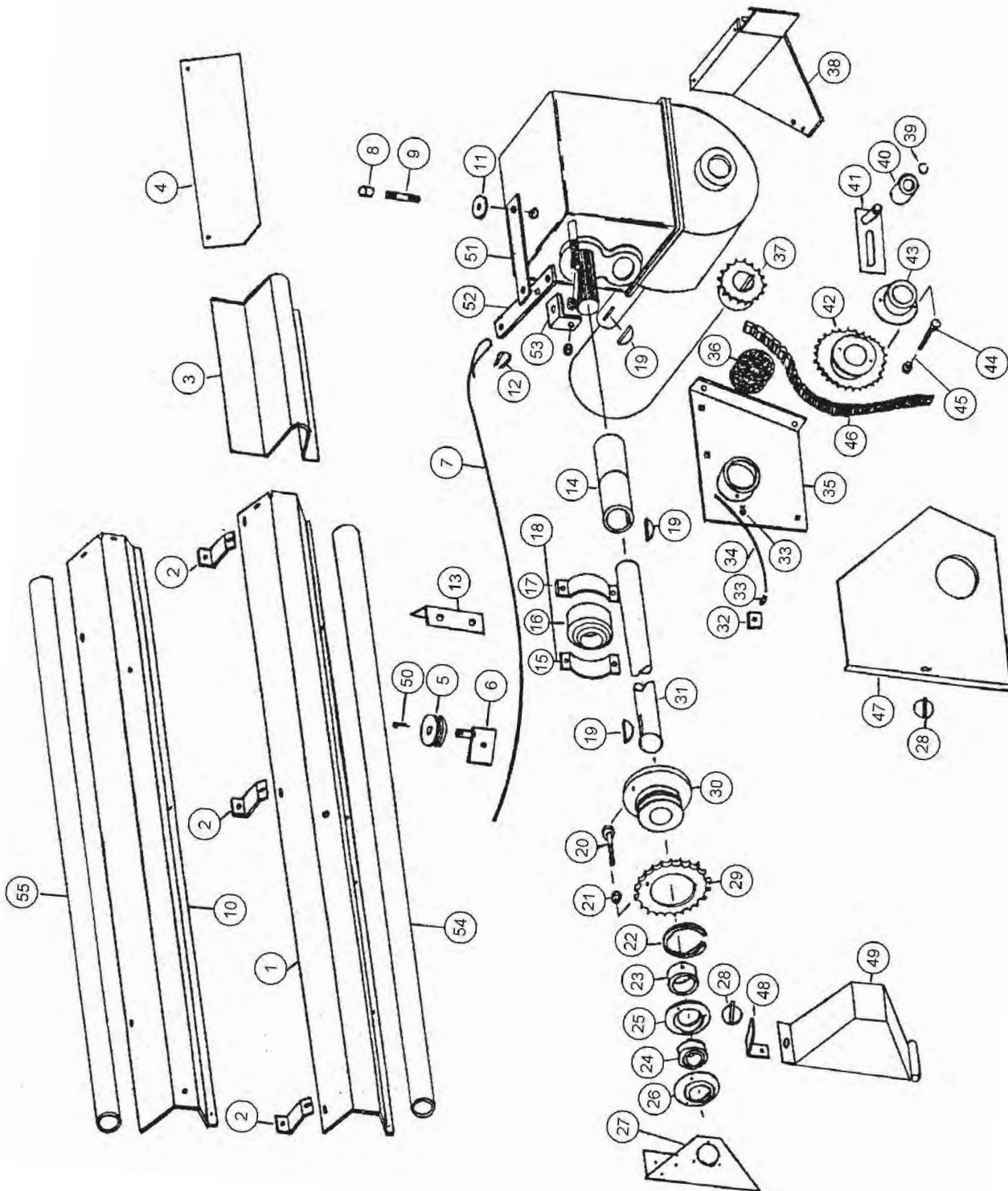
# **FIGURE 3**

## **FRONT SHIELDS/DRIVE ASSEMBLY**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>               |
|--------------------|----------------------|-----------------------------------------|
| 28                 | 5B10                 | 1/4" X 1" KEY                           |
| 29                 | 5B9                  | 3/8" X 1-1/4" WOODRUFF KEY              |
| 30                 | F114A                | FLANGE, 1-1/4" W/45 DEG. ZERK           |
| 31                 | 12N122               | BEARING W/ LOCK COLLAR ASSY.            |
| 32                 | 12N122               | BEARING W/ LOCK COLLAR ASSY.            |
| 33                 | F14                  | BEARING FLANGE                          |
| 34                 | 23N68                | FRONT ADJUSTMENT PLATE                  |
| 35                 | 23N69                | SPACER                                  |
| 36                 | 23N70                | 25 TOOTH SPROCKET                       |
| 37                 | 23N245               | #60 ROLLER CHAIN 125 PITCHES            |
| 38                 | 23N72                | FRONT SHAFT                             |
| 39                 | YPEX10020            | EXPANSION PIN, 5/16" X 2-1/4"           |
| 40                 | 12N49                | JACK                                    |
| *                  | 12N120               | JACK GEAR REP. KIT                      |
| 41                 | 12N51                | JACK MOUNT                              |
| 42                 | 12N50                | JACK PIN                                |
| 43                 | 12N119               | HANDLE                                  |
| *                  | 12N118               | REPLACEMENT BEARING                     |
| 44                 | YBCR12010            | CARRIAGE BOLT, 3/8" X 1" GR. 5 SPACER   |
| 45                 | 23N278               | ROLLER                                  |
| 46                 | 23N297               | TUBE, RND, STR, 0.75 X 0.19 X 0.21, DOM |
| 47                 | S522                 | MANUAL HOLDER                           |
| 48                 | ST81                 | FRONT SHAFT GUARD                       |
| 49                 | 37N74                | FRONT SHIELD LH                         |
| 50                 | 23N306               | MANUAL HOLDER                           |

**\* MEANS NOT SHOWN**

**FIGURE 4**  
**BACK SHIELDS/DRIVE ASSEMBLY**

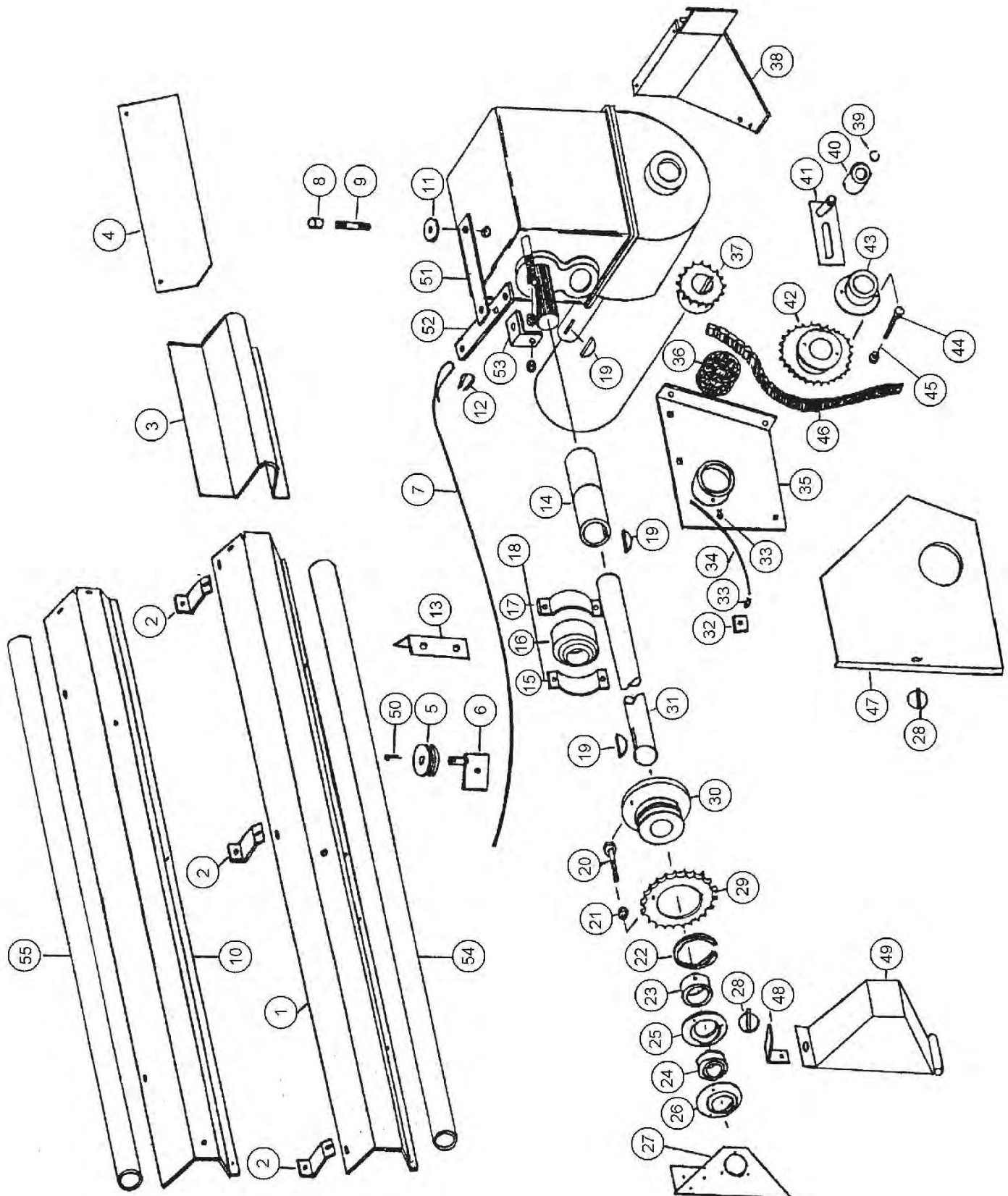


## **FIGURE 4**

### **BACK SHIELDS/DRIVE ASSEMBLY**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>    |
|--------------------|----------------------|------------------------------|
| 1                  | 23N39                | SIDE SHIELD                  |
| 2                  | 23N248               | SIDE SHIELD BRACKET          |
| 3                  | 23N292               | COUPLER SHIELD               |
| 4                  | 23N250               | POLY SHIELD                  |
| 5                  | 23N251               | POLY PULLEY                  |
| 6                  | 23N252               | PULLEY MOUNT                 |
| 7                  | 23N32                | CABLE                        |
| 8                  | 17G58                | VENT CAP                     |
| 9                  | 23N288               | PIPE NIPPLE                  |
| 10                 | 27N34                | BACK SIDE SHIELD             |
| 11                 | 17G61                | WASHER                       |
| 12                 | F44                  | CABLE LOOP                   |
| 13                 | 23N269               | BEARING BRACKET              |
| 14                 | 17G65                | COUPLER                      |
| 15                 | 12N35                | HOLDER                       |
| 16                 | 12N33                | BEARING                      |
| 17                 | 12N34                | BEARING COVER                |
| 18                 | 12N36                | COMPLETE ASSEMBLY            |
| 19                 | B59                  | 3/8" X 1-1/4" WOODRUFF KEY   |
| 20                 | YBHH10030            | BOLT, 5/16" X 1-1/2" GR. 5   |
| 21                 | YNTL10005            | HEX NUT, TOP LOCK, 5/16"-18  |
| 22                 | 23N189               | SNAP RING                    |
| 23                 | 12N122               | BEARING W/ LOCK COLLAR ASSY. |
| 24                 | 12N122               | BEARING W/ LOCK COLLAR ASSY. |
| 25                 | F114A                | FLANGE                       |
| 26                 | F14                  | BEARING FLANGE               |
| 27                 | 23N254               | SIDE BEARING PANEL           |
| 28                 | S122                 | LANYARD, CLIP PIN CABLE.     |
| 29                 | 23N191               | 30 TOOTH SPROCKET            |
| 30                 | 23N190               | SHEAR HUB                    |
| 31                 | 23N33                | SIDE SHAFT                   |

**FIGURE 4**  
**BACK SHIELDS/DRIVE ASSEMBLY**



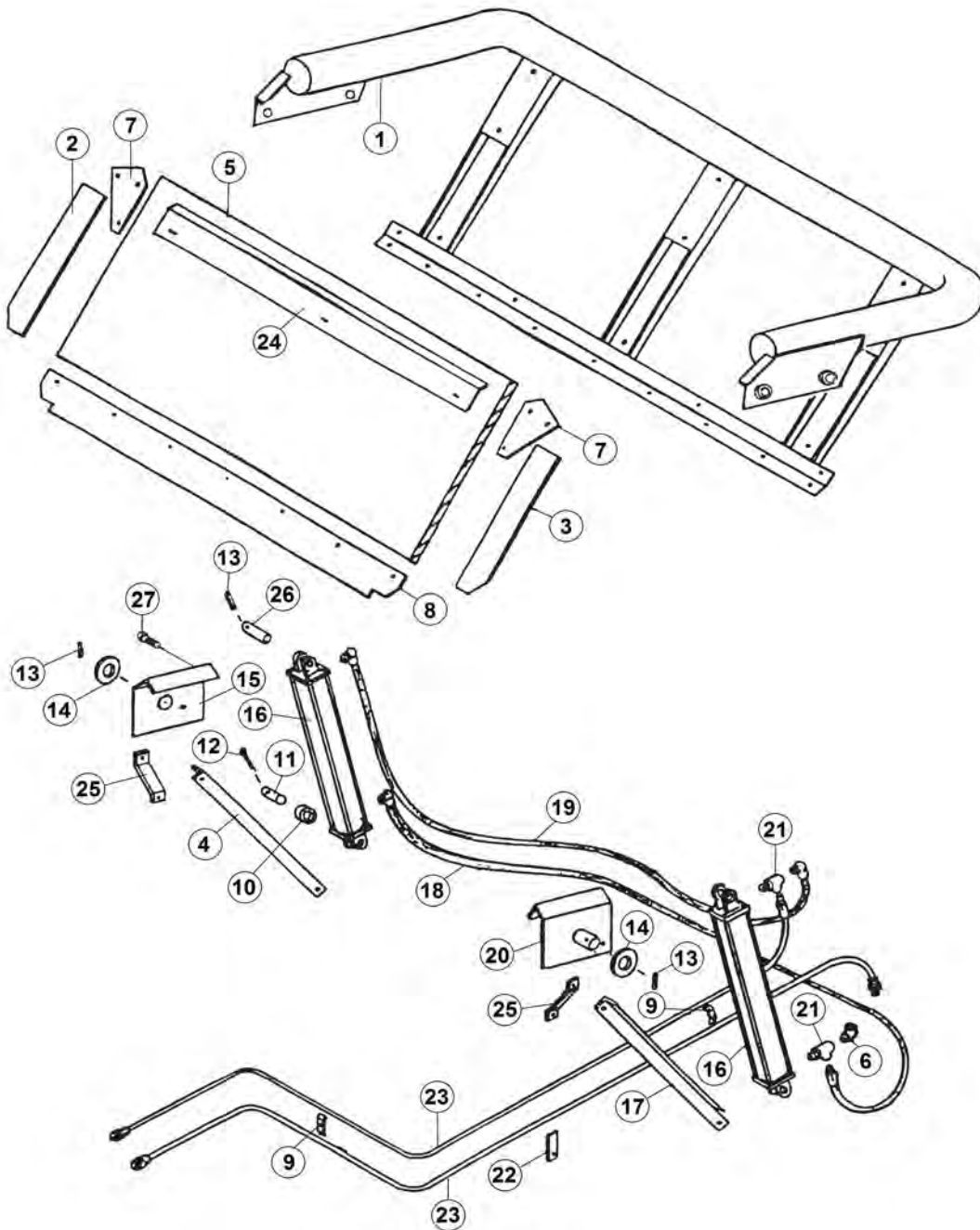
## **FIGURE 4**

### **BACK SHIELDS/DRIVE ASSEMBLY**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>           |
|--------------------|----------------------|-------------------------------------|
| 32                 | 16V9                 | GREASE ZERK BLOCK                   |
| 33                 | S47                  | GREASE LINE FITTING                 |
| 34                 | 23N256               | GREASE LINE                         |
| 35                 | 23N257               | LH DRIVE SHAFT MOUNT                |
| 36                 | 23N258               | CHAIN OILER                         |
| 37                 | 17G67                | WORM GEAR SPROCKET                  |
| 38                 | 23N259               | GEARBOX BRACE                       |
| 39                 | 10R32                | SNAP RING                           |
| 40                 | 23N238               | CHAIN TIGHTENER ROLLER              |
| 41                 | 17G69                | ASSY, CHAIN TIGHTENER BRACKET       |
| 42                 | 17G68                | SHEAR HUB SPROCKET - STANDARD (32T) |
| 43                 | 17G170               | SLOW DOWN SPROCKET (40T)            |
| *                  | 23N279               | SPEED UP SPROCKET (25T)             |
| *                  | 17G71                | SHEAR HUB                           |
| 44                 | YBHH10030            | BOLT, 5/16" X 1-1/2" GR. 5          |
| 45                 | YNTL10005            | HEX NUT, TOP LOCK, 5/16"-18         |
| 46                 | 23N260               | #60 CHAIN 56 PITCHES                |
| 47                 | 23N261               | DRIVE SHIELD                        |
| 48                 | 23N242               | SHIELD ANGLE                        |
| 49                 | 22G21                | SHIELD                              |
| 50                 | YPCT04005            | COTTER PIN, 1/8" X 1"               |
| 51                 | 23N289               | SHIFTER ROD LEVER FULCRUM SHIFTER   |
| 52                 | 23N290               | ROD LEVER                           |
| 53                 | 23N291               | SHIFTER ROD ANGLE                   |
| 54                 | 23N41                | 1ST SIDE SHAFT GUARD                |
| 55                 | 23N42                | 2ND SIDE SHAFT GUARD                |

**\* MEANS NOT SHOWN**

**FIGURE 5**  
**HYDRAULIC ENDGATE ASSEMBLY**



## **FIGURE 5**

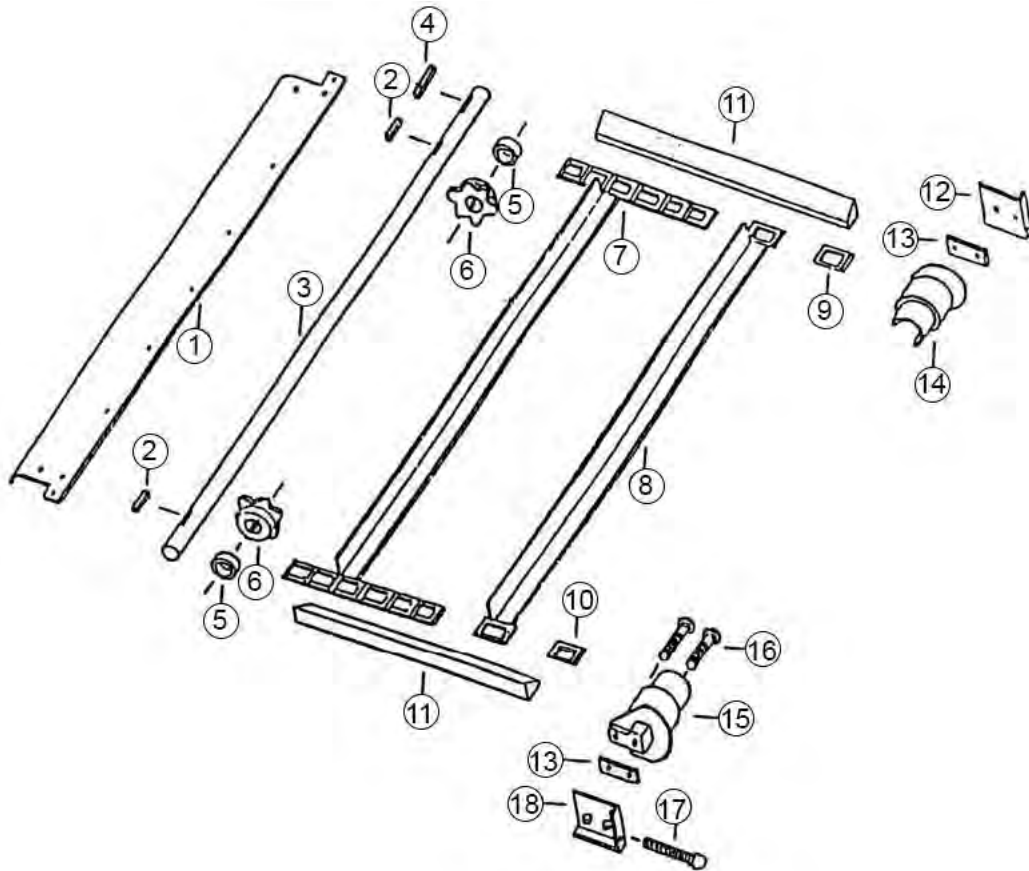
### **HYDRAULIC ENDGATE ASSEMBLY**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>          |
|--------------------|----------------------|------------------------------------|
| 1                  | 23N298               | TAILGATE FRAME                     |
| 2                  | 23N99                | RH SIDE RUBBER                     |
| 3                  | 23N100               | LH SIDE RUBBER                     |
| 4                  | 23N233               | TAILGATE BRACKET BRACE             |
| 5                  | 23N274A              | TAILGATE PLYWOOD WITH FIBERGLASS   |
| 6                  | 23N234               | 90° STREET ELBOW 3/8"              |
| 7                  | 23N104               | TAILGATE CORNER                    |
| 8                  | 23N105               | BOTTOM RUBBER                      |
| 9                  | 23N67                | HOSE BRACKET                       |
| 10                 | K132                 | SPACER                             |
| 11                 | 23N107               | CYLINDER PIN                       |
| 12                 | YPCT07005            | COTTER PIN, 7/32" X 2 "            |
| 13                 | YPEX10015            | EXPANSION PIN, 5/16" X 1-3/4"      |
| 14                 | 23N109               | WASHER                             |
| 15                 | 23N299               | RH TAILGATE MOUNT                  |
| 16                 | 23N111A              | HYDRAULIC CYLINDER                 |
| *                  | 56015                | 2" X 16" HYDRAULIC CYLINDER        |
| 17                 | 23N231               | BRACE                              |
| 18                 | 23N113               | HOSE (96")                         |
| 19                 | 23N114               | HOSE (138")                        |
| 20                 | 23N300               | LH TAILGATE MOUNT                  |
| 21                 | 23N116               | TEE                                |
| 22                 | 23N117               | HOSE HOLDER                        |
| 23                 | 23N47                | HOSE                               |
| 24                 | 23N163               | TAILGATE POLY HOLD DOWN            |
| 25                 | 23N232               | TAILGATE BRACKET BRACE CYLINDER    |
| 26                 | 23N301               | PIN                                |
| 27                 | YBCR16021            | 1/2 X 1-3/4" GRADE 5 CARRIAGE BOLT |

**\* MEANS NOT SHOWN**

## **FIGURE 6**

### **APRON CHAIN ASSEMBLY**

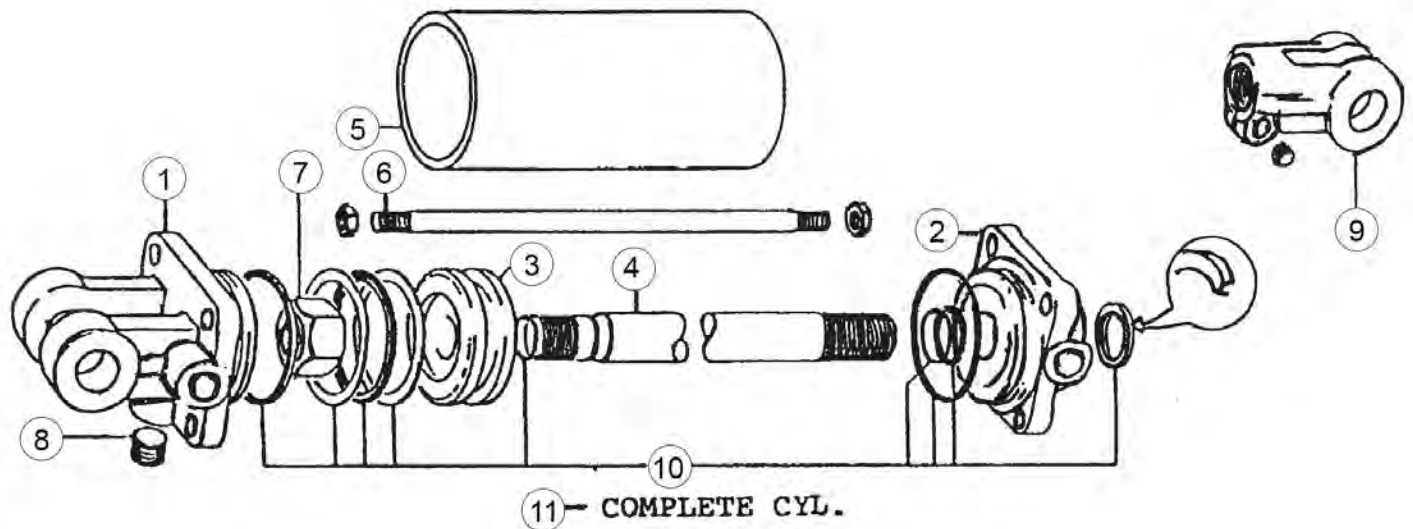


| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>              |
|--------------------|----------------------|----------------------------------------|
| 1                  | 23N119               | REAR POLY HOLD DOWN                    |
| 2                  | 23N303               | 3/8" X 1-3/4" SQUARE KEY               |
| 3                  | 27N35                | DRIVE SHAFT                            |
| 4                  | A32                  | 3/8" X 1-3/8" SQUARE KEY W/ ROUND ENDS |
| 5                  | 23N121               | SPACER                                 |
| 6                  | 23N122               | DRIVE SPROCKET 6T                      |
| 7                  | 23N123               | APRON CHAIN 17 SLATS, 210 LINKS        |
| *                  | 27N20                | APRON CHAIN 20 SLATS, 244 LINKS        |
| 8                  | 23N124               | SLAT W/ ATTACHMENT LINK                |
| 9                  | S55                  | T-ROD STANDARD LINK                    |
| 10                 | S56                  | T-ROD CHAIN SIDE SPACERS               |
| 11                 | 23N121               | APRON CHAIN SIDE SPACERS               |
| 12                 | A30                  | CHAIN SLIDE PLATE                      |
| 13                 | 23N126               | CHAIN SLIDE SPACER                     |
| 14                 | 23N127               | T-ROD SLIDE LH                         |
| 15                 | 23N128               | T-ROD SLIDE RH                         |
| 16                 | YBCR16045            | CARRIAGE BOLT, 1/2" X 4" GR. 5         |
| 17                 | YBHH16140            | BOLT, 1/2" X 4-1/2" GR. 5              |
| 18                 | A29                  | CHAIN SLIDE PLATE                      |

**\* MEANS NOT SHOWN**

# FIGURE 7

## HYDRAULIC ENDGATE CYLINDER

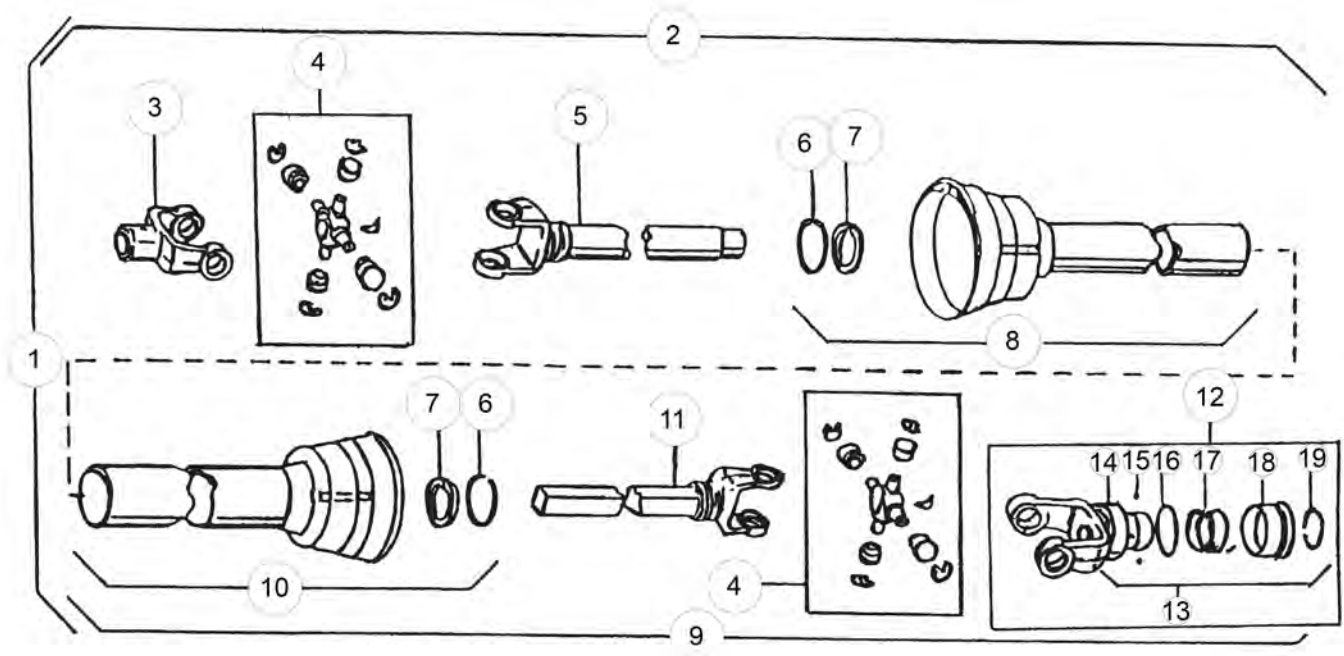


| <u>ITEM</u> | <u>PART #</u> | <u>DESCRIPTION</u>          |
|-------------|---------------|-----------------------------|
| 1           | 23N142A       | CLEVIS CAP                  |
| 2           | 23N143A       | ROD CAP                     |
| *           | 56174         | ROD CAP                     |
| 3           | 23N144        | PISTON                      |
| *           | 56180         | PISTON                      |
| 4           | 23N145A       | ROD                         |
| 5           | 23N146        | CYLINDER TUBE               |
| 6           | 23N147        | TIE ROD                     |
| 7           | 23N148        | PISTON NUT                  |
| 8           | 23N149        | PLUG                        |
| 9           | 23N150A       | ROD CLEVIS                  |
| 10          | 23N151        | SEAL KIT                    |
| *           | 56187         | SEAL KIT                    |
| 11          | 23N111A       | HYDRAULIC CYLINDER COMPLETE |
| *           | 56015         | HYDRAULIC CYLINDER COMPLETE |

\* MEANS NOT SHOWN

## **FIGURE 8**

### **PTO ASSEMBLY**

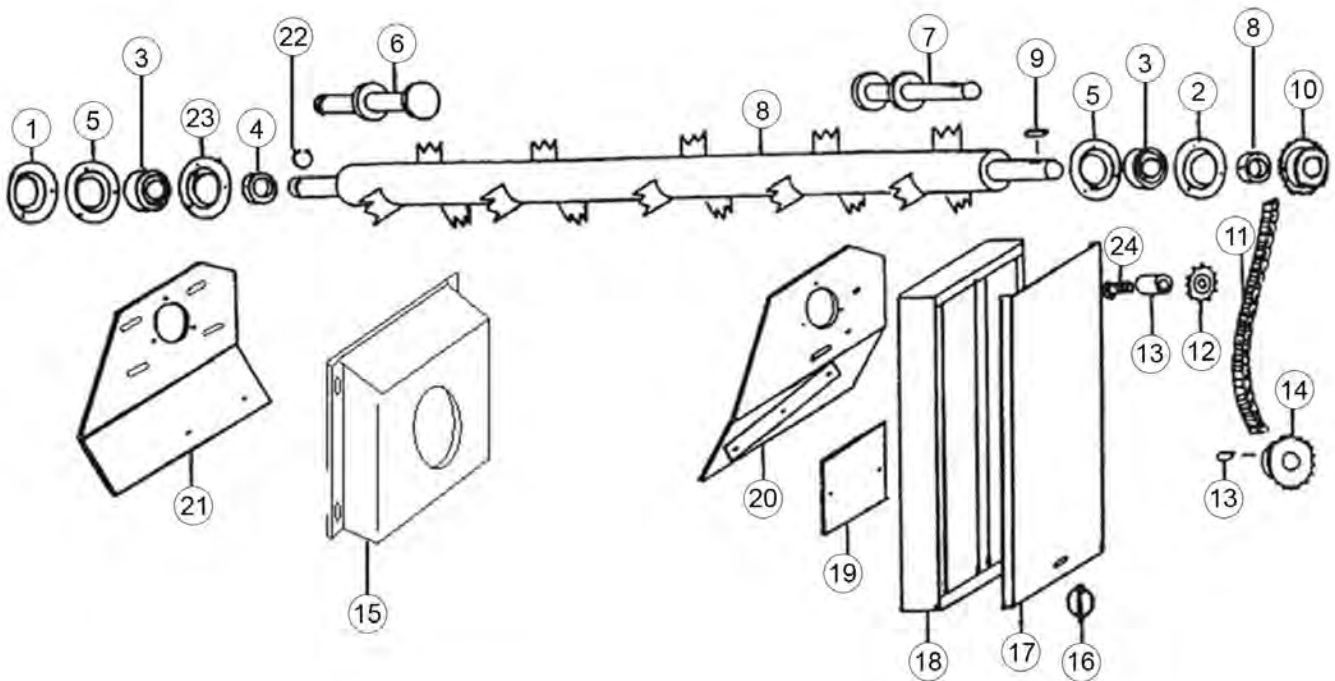


| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>          |
|--------------------|----------------------|------------------------------------|
| 1                  | 23N152               | PTO ASSEMBLY COMPLETE W/ SHIELDS   |
| 2                  | 23N153               | MACHINE HALF PTO W/ SHIELD         |
| 3                  | G1R35                | END YOKE MACHINE HALF              |
| 4                  | 14NWKIT              | REPAIR KIT                         |
| 5                  | 23N155               | YOKE AND TUBE                      |
| 6                  | 24N26                | BEARING RETAINER                   |
| 7                  | 4N20                 | NYLON BEARING                      |
| 8                  | 23N156               | INNER GUARD INCLUDING ITEM #6 & #7 |
| 9                  | 23N157               | TRACTOR HALF PTO W/ SHIELD         |
| 10                 | 23N158               | OUTER GUARD INCLUDING ITEM #6 & #7 |
| 11                 | 23N159               | YOKE AND SHAFT                     |
| 12                 | 23N162               | LOCK YOKE ASSEMBLY                 |
| 13                 | S225                 | SPRING LOCK REPAIR KIT             |
| 14                 | S226                 | COVER                              |
| 15                 | S212                 | STAINLESS BALL                     |
| 16                 | S227                 | WASHER                             |
| 17                 | S228                 | SPRING                             |
| 18                 | S229                 | COLLAR ASSEMBLY                    |
| 19                 | S215                 | RETAINING RING                     |
| *                  | S402                 | PTO SAFETY MANUAL                  |

**\* MEANS NOT SHOWN**

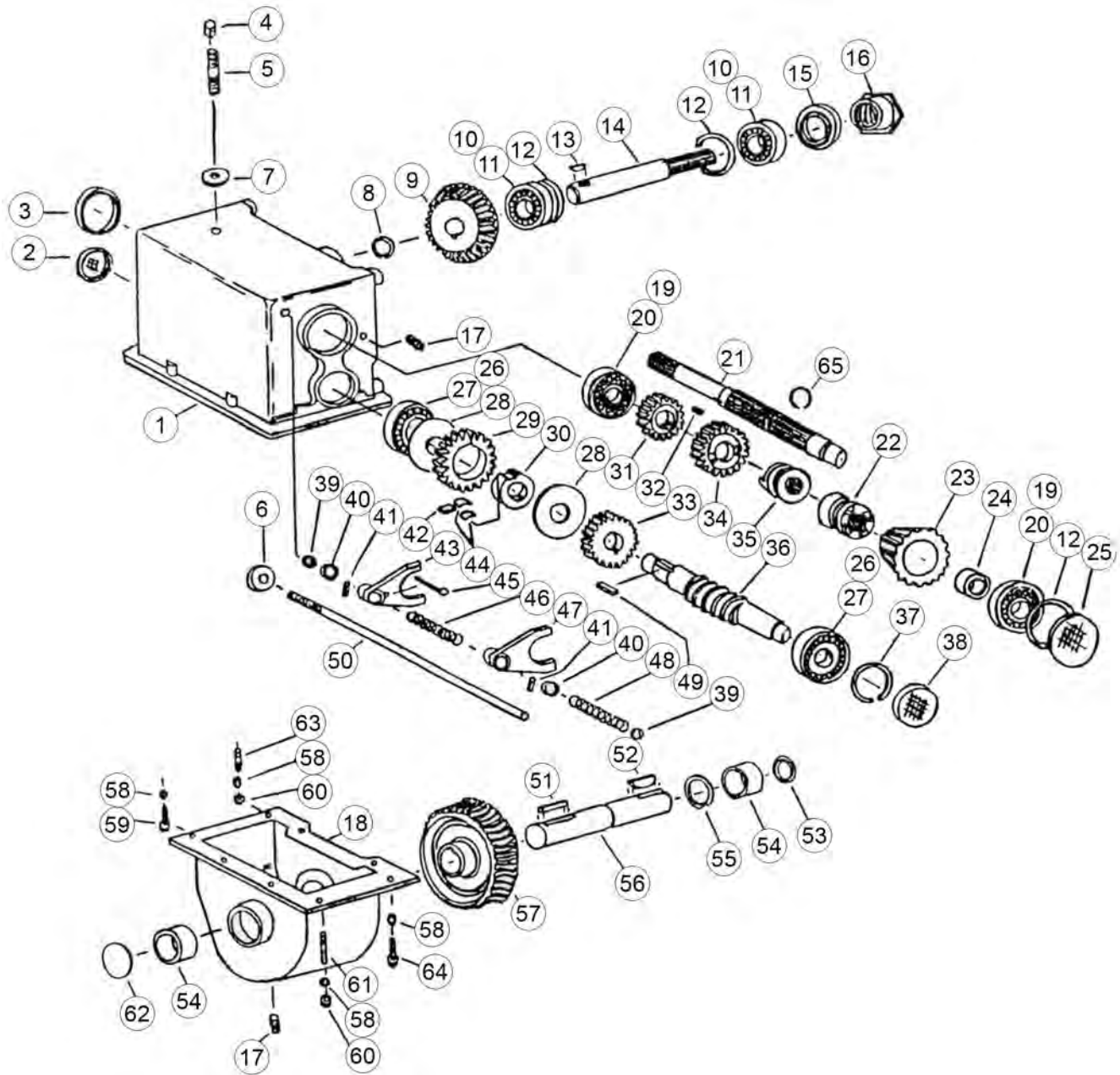
## **FIGURE 9**

### **OPTIONAL 2ND BEATER**



| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>       |
|--------------------|----------------------|---------------------------------|
| 1                  | 23N308               | BEARING FLANGE GUARD            |
| 2                  | F114A                | BEARING FLANGE W/ ZERK - 45°    |
| 3                  | 12N122               | BEARING W/ LOCK COLLAR ASSY.    |
| 4                  | 12N122               | BEARING W/ LOCK COLLAR ASSY.    |
| 5                  | F14                  | BEARING FLANGE                  |
| 6                  | 23N164               | LH STUB SHAFT                   |
| 7                  | 23N165               | RH STUB SHAFT                   |
| 8                  | 23N166               | 2ND BEATER                      |
| 9                  | G23                  | 5/16" X 1-3/8" SQUARE KEY       |
| 10                 | D18                  | 16T SPROCKET                    |
| 11                 | 23N167               | #60 CHAING (81 PITCHES)         |
| 12                 | 12N42                | IDLER SPROCKET                  |
| 13                 | 23N168               | SPACER                          |
| 14                 | F13                  | 20T SPROCKET                    |
| 15                 | 57216                | BEATER BEARING PROTECTOR        |
| 16                 | YPLY08010            | LYNCH PIN, 1/4" X 1-1/2"        |
| 17                 | 23N169               | COVER                           |
| 18                 | 23N170               | SHIELD                          |
| 19                 | 23N171               | SHIELD                          |
| 20                 | 23N172               | RH PANEL                        |
| 21                 | 23N173               | LH PANEL                        |
| 22                 | F73                  | SNAP RING                       |
| 23                 | F114A                | FLANGE W/ STRAIGHT ZERK         |
| 24                 | YBCR16040            | CARR. BOLT, 1/2" X 3-1/2" GR. 5 |

**FIGURE 10**  
**GEARBOX**

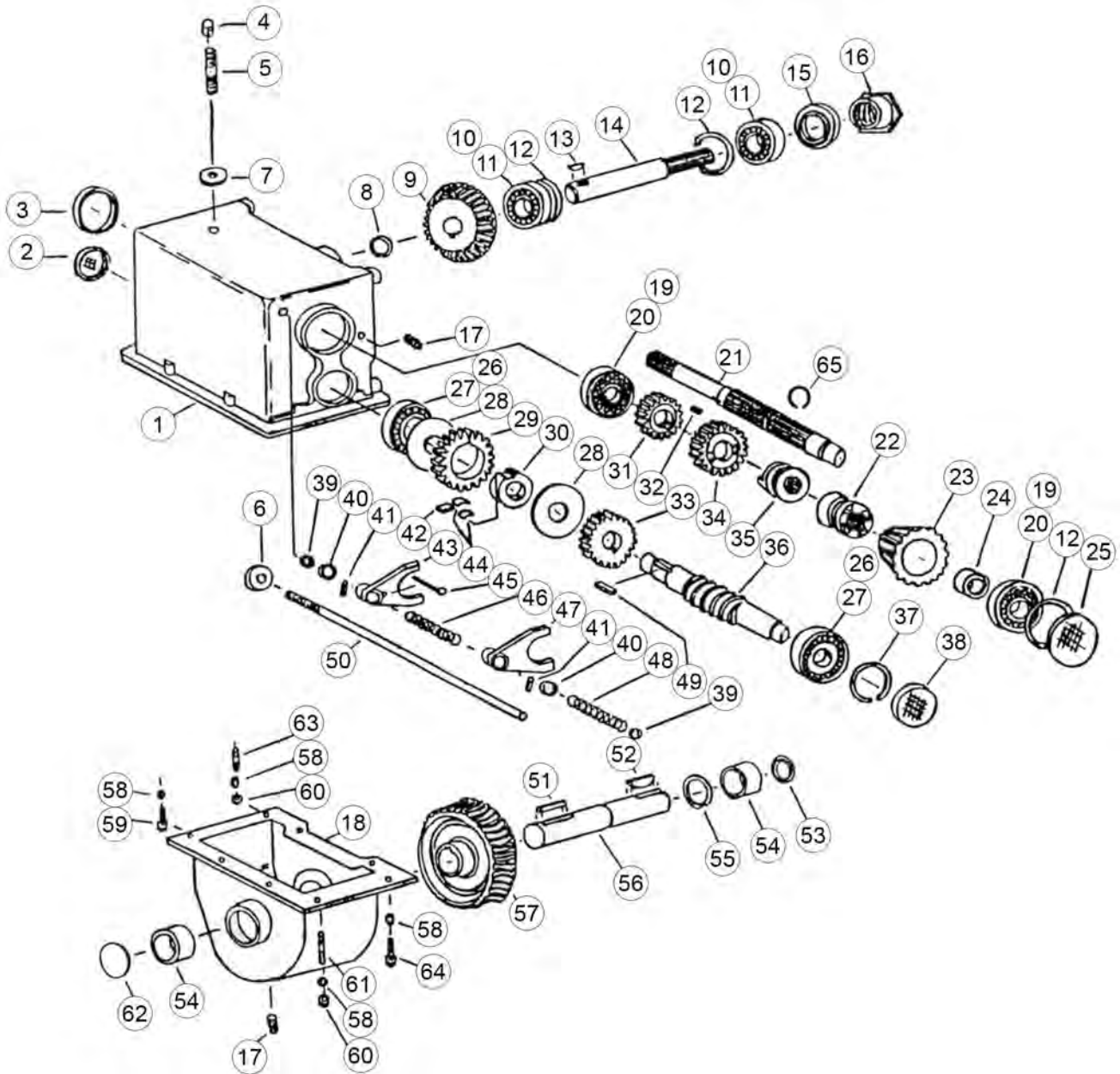


## **FIGURE 10**

### **GEARBOX**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>           |
|--------------------|----------------------|-------------------------------------|
| 1                  | 17G99                | UPPER GEAR HOUSING                  |
| 2                  | 17G100               | CAP                                 |
| 3                  | S136                 | SEAL                                |
| 4                  | 17G58                | VENT CAP                            |
| 5                  | 23N288               | PIPE NIPPLE                         |
| 6                  | 17G171               | COLLAR                              |
| 7                  | 17G61                | WASHER                              |
| 8                  | 12V62                | RETAINING RING                      |
| 9                  | 17G101               | 22T BEVELED GEAR                    |
| 10                 | 17G102               | RACE 13621                          |
| 11                 | 17G103               | BEARING 13685                       |
| 12                 | G55                  | RETAINING RING                      |
| 13                 | G61                  | 3/8" X 1-1/4" HARDENED WOODRUFF KEY |
| 14                 | 17G104               | BEATER OUTPUT SHAFT                 |
| 15                 | 17G105               | SEAL                                |
| 16                 | 17G106               | ADJUSTMENT NUT                      |
| 17                 | G65                  | PLUG                                |
| 18                 | 17G107               | LOWER GEAR HOUSING                  |
| 19                 | G54                  | RACE 14276                          |
| 20                 | G18                  | BEARING 14124                       |
| 21                 | 17G108A              | INPUT SHAFT                         |
| 22                 | 17G109               | BEATER CLUTCH                       |
| 23                 | 17G110               | 16T BEVELED GEAR W/ CLUTCH          |
| 24                 | 17G111               | BUSHING 1-1/2" ID X 1" LENGTH       |
| 25                 | G68                  | CAP                                 |
| 26                 | 3G18                 | RACE 15245                          |
| 27                 | L3G24                | BEARING 15113                       |
| 28                 | 17G112               | WASHER                              |
| 29                 | 17G113               | 32T GEAR W/ CLUTCH                  |
| 30                 | 17G114               | GEAR HUB W/ CLUTCH                  |
| 31                 | 17G115               | 20T GEAR                            |
| 32                 | 17G116               | 1/4" X 5/8" KEY                     |
| 33                 | 17G117               | 24T GEAR                            |

**FIGURE 10**  
**GEARBOX**



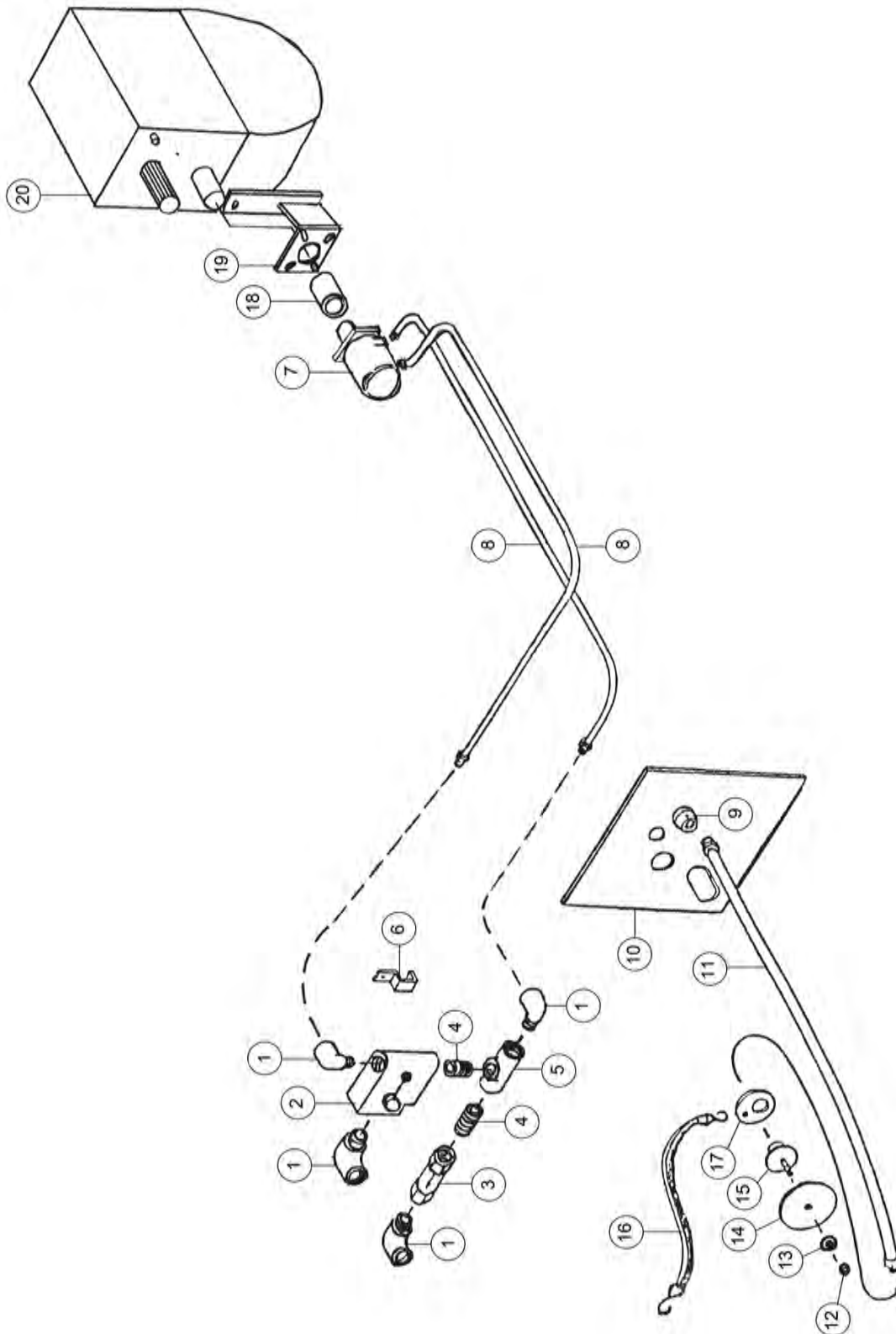
## **FIGURE 10**

### **GEARBOX**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>         |
|--------------------|----------------------|-----------------------------------|
| 34                 | 17G118               | 28T GEAR W/ CLUTCH                |
| 35                 | 17G119               | HIGH SPEED CLUTCH                 |
| 36                 | 17G120               | WORM SHAFT                        |
| 37                 | 3G19                 | RETAINING RING                    |
| 38                 | G90                  | CAP                               |
| 39                 | 17G121               | SEAL                              |
| 40                 | 17G122               | SPACER                            |
| 41                 | 17G123               | 3/16" X 1" ROLL PIN               |
| 42                 | 17G124               | CLUTCH DOG                        |
| 43                 | 17G125               | HIGH SPEED SHIFTER YOKE           |
| 44                 | 17G126               | DOG SPRING/LOW SPEED CLUTCH       |
| 45                 | YBHH08090            | BOLT, 1/4" X 3" GR. 2 FULL THREAD |
| 46                 | 17G128               | SPRING/BEATER ENGAGE              |
| 47                 | 17G129               | BEATER SHIFTER YOKE               |
| 48                 | 17G130               | SPRING/BEATER DISENGAGE           |
| 49                 | S135                 | 1/4" X 1-1/4" KEY                 |
| 50                 | 17G131               | SHIFTER ROD                       |
| 51                 | 17G132               | 5/16" X 2-1/4" KEY                |
| 52                 | 5B9                  | 3/8" X 1-1/4" WOODRUFF KEY        |
| 53                 | 17G133               | SEAL                              |
| 54                 | 17G134               | BUSHING, 1-1/2"ID X 1-1/2"        |
| 55                 | 17G135               | RETAINING RING                    |
| 56                 | 17G136               | WORM GEAR OUTPUT SHAFT            |
| 57                 | 17G137               | WORM GEAR                         |
| 58                 | YWLO12005            | WASHER, LOCK, 3/8"                |
| 59                 | YBHH12010            | BOLT, 3/8" X 1" GR. 5             |
| 60                 | YNHX12005            | HEX NUT, 3/8"-16                  |
| 61                 | 17G138               | 3/8" X 2" STUD                    |
| 62                 | 17G139               | 1-3/4" CAP                        |
| 63                 | 17G140               | 3/8" X 1-1/2" STUD                |
| 64                 | YBHH12035            | BOLT, 3/8" X 1-1/4" GR. 5         |
| 65                 | 17G169A              | SNAP RING                         |
| *                  | 17G142               | COMPLETE GEARBOX                  |

**\* MEANS NOT SHOWN**

**FIGURE 11**  
**4-HOSE HYDRAULIC DRIVE**



## **FIGURE 11**

### **4-HOSE HYDRAULIC DRIVE**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>  |
|--------------------|----------------------|----------------------------|
| 1                  | HE58                 | 90 DEGREE STREET ELBOW     |
| 2                  | DF15                 | SPEED CONTROL              |
| 3                  | DF18                 | CHECK VALVE                |
| 4                  | DF7                  | NIPPLE                     |
| 5                  | DF8                  | TEE                        |
| 6                  | HE14                 | HOSE BRACKET               |
| 7                  | DF1                  | HYDRAULIC MOTOR            |
| 8                  | 23N132               | HYDRAULIC MOTOR HOSE       |
| 9                  | DF21                 | REDUCER                    |
| 10                 | 23N133               | CONTROL PANEL              |
| 11                 | DF9                  | HOSE FOR HANDLE            |
| 12                 | YNTL12005            | HEX NUT, TOP LOCK, 3/8"-16 |
| 13                 | DF12                 | WASHER                     |
| 14                 | DF11                 | HANDLE                     |
| 15                 | DF10                 | HANDLE BRACKET             |
| 16                 | DF14                 | STRAP                      |
| 17                 | DF22                 | RING FOR STRAP             |
| 18                 | 17G161               | COUPLER                    |
| 19                 | 17G162               | MOUNTING BRACKET           |
| 20                 | 17G163               | COMPLETE GEARBOX           |

This diagram illustrates the assembly of a mechanical device, likely a pump or motor. The components are numbered as follows:

- 1**: Main housing or casing.
- 2**: A small rectangular component, possibly a valve or seal.
- 3**: A small cylindrical component.
- 4**: A larger cylindrical component, possibly a motor or pump head.
- 5**: A long, flexible hose or tube.
- 6**: A small circular component, possibly a filter or seal.
- 7**: A rectangular plate or cover.
- 8**: A long, thin rod or pin.
- 9**: A small screw or fastener.
- 10**: A circular component, possibly a fan or impeller.
- 11**: A small circular component, possibly a seal or gasket.
- 12**: A small circular component, possibly a seal or gasket.
- 13**: A small circular component, possibly a seal or gasket.
- 14**: A curved, flexible component, possibly a hose or tube.
- 15**: A small rectangular component, possibly a valve or seal.
- 16**: A small cylindrical component, possibly a pin or fastener.
- 17**: A small cylindrical component, possibly a pin or fastener.
- 18**: A small rectangular component, possibly a valve or seal.
- 19**: A small cylindrical component, possibly a pin or fastener.
- 20**: A small cylindrical component, possibly a pin or fastener.
- 21**: A small cylindrical component, possibly a pin or fastener.
- 22**: A small rectangular component, possibly a valve or seal.
- 23**: A small cylindrical component, possibly a pin or fastener.
- 24**: A small rectangular component, possibly a valve or seal.

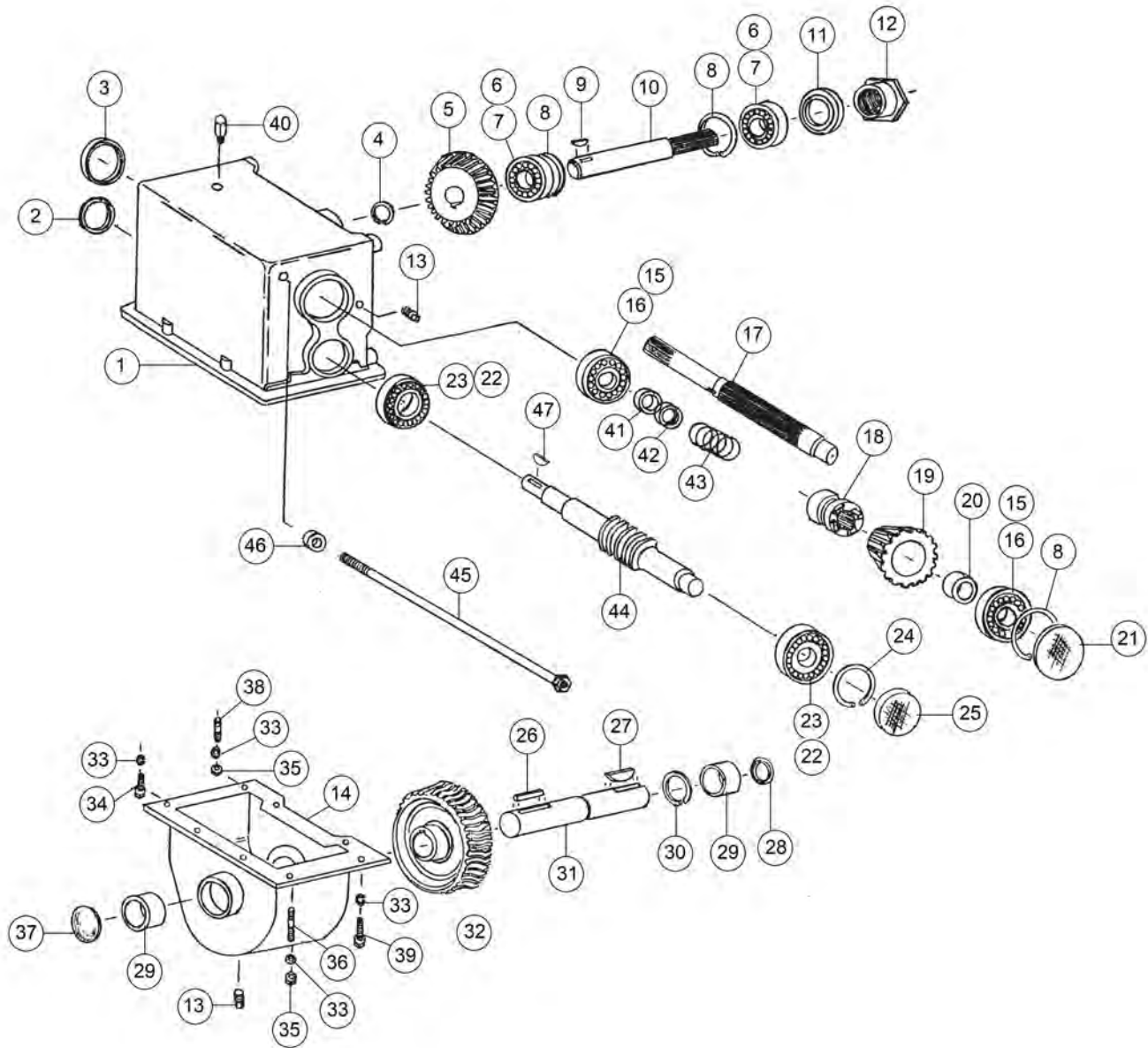
The diagram shows the assembly of the main housing (1) with the motor/pump head (4) and the flexible hose (5). The hose is connected to a control panel (7) via a rod (8). The control panel includes a fan/impeller (10) and various seals/gaskets (11, 12, 13). The assembly is secured with various fasteners (9, 16, 17, 20, 21, 22, 23, 24).

## **FIGURE 12**

### **2-HOSE HYDRAULIC DRIVE**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>  |
|--------------------|----------------------|----------------------------|
| 1                  | 17G163               | COMPLETE GEARBOX           |
| 2                  | 17G162               | MOUNTING BRACKET           |
| 3                  | 17G161               | COUPLER                    |
| 4                  | DF1                  | HYDRAULIC MOTOR            |
| 5                  | 23N132               | HYDRAULIC MOTOR HOSE       |
| 6                  | DF21                 | REDUCER                    |
| 7                  | 23N133               | CONTROL PANEL              |
| 8                  | DF9                  | HOSE FOR HANDLE            |
| 9                  | YNTL12005            | HEX NUT, TOP LOCK, 3/8"-16 |
| 10                 | DF12                 | WASHER                     |
| 11                 | DF11                 | HANDLE                     |
| 12                 | DF10                 | HANDLE BRACKET             |
| 13                 | DF22                 | RING FOR STRAP             |
| 14                 | DF14                 | STRAP                      |
| 15                 | DF6                  | SEQUENCE VALVE             |
| 16                 | DF7                  | NIPPLE                     |
| 17                 | DF8                  | TEE                        |
| 18                 | HE14                 | HOSE BRACKET               |
| 19                 | DF18                 | CHECK VALVE                |
| 20                 | DF19                 | TEE                        |
| 21                 | DF17                 | NIPPLE                     |
| 22                 | DF15                 | SPEED CONTROL              |
| 23                 | DF16                 | DRAIN HOSE                 |
| 24                 | HE58                 | 90 DEGREE STREET ELBOW     |

**FIGURE 13**  
**HYDRAULIC DRIVE GEARBOX**



# **FIGURE 13**

## **HYDRAULIC DRIVE GEARBOX**

| <b><u>ITEM</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>           |
|--------------------|----------------------|-------------------------------------|
| 1                  | 17G99                | UPPER GEAR HOUSING                  |
| 2                  | 17G164               | SEAL                                |
| 3                  | S136                 | SEAL                                |
| 4                  | 12V62                | RETAINING RING                      |
| 5                  | 17G101               | 22T BEVELED GEAR                    |
| 6                  | 17G102               | RACE 13621                          |
| 7                  | 17G103               | BEARING 13685                       |
| 8                  | G55                  | RETAINING RING                      |
| 9                  | G61                  | 3/8" X 1-1/4" HARDENED WOODRUFF KEY |
| 10                 | 17G104               | BEATER OUTPUT SHAFT                 |
| 11                 | 17G105               | SEAL                                |
| 12                 | 17G106               | ADJUSTMENT NUT                      |
| 13                 | G65                  | PLUG                                |
| 14                 | 17G107               | LOWER GEAR HOUSING                  |
| 15                 | G54                  | RACE 14276                          |
| 16                 | G18                  | BEARING 14124                       |
| 17                 | 17G108A              | INPUT SHAFT                         |
| 18                 | 17G109               | BEATER CLUTCH                       |
| 19                 | 17G110               | 16T BEVELED GEAR W/ CLUTCH          |
| 20                 | 17G111               | BUSHING 1-1/2" ID X 1" LENGTH       |
| 21                 | G68                  | CAP                                 |
| 22                 | 3G18                 | RACE 15245                          |
| 23                 | L3G24                | BEARING 15113                       |
| 24                 | 3G19                 | RETAINING RING                      |
| 25                 | G90                  | CAP                                 |
| 26                 | 17G132               | 5/16" X 2-1/4" KEY                  |
| 27                 | 5B9                  | 3/8" X 1-1/4" WOODRUFF KEY          |
| 28                 | 17G133               | SEAL                                |
| 29                 | 17G134               | BUSHING 1-1/2" ID X 1-1/2" LENGTH   |
| 30                 | 17G135               | RETAINING RING                      |
| 31                 | 17G136               | WORM GEAR OUTPUT SHAFT              |
| 32                 | 17G137               | WORM GEAR                           |
| 33                 | YWLO12005            | WASHER, LOCK, 3/8"                  |
| 34                 | YBHH12010            | BOLT, 3/8" X 1" GR. 5               |
| 35                 | YNHX12005            | HEX NUT, 3/8"-16                    |
| 36                 | 17G138               | 3/8" X 2" STUD                      |
| 37                 | 17G139               | 1-3/4" CAP                          |
| 38                 | 17G140               | 3/8" X 1-1/2" STUD                  |
| 39                 | YBHH12035            | BOLT, 3/8" X 1-1/4" GR. 5           |
| 40                 | G24                  | VENT PIPE PLUG                      |
| 41                 | 17G165               | 5/8" SPACER                         |
| 42                 | A25                  | 1" SPACER                           |
| 43                 | 23N89                | CLUTCH SPRING                       |
| 44                 | 17G166               | WORM SHAFT                          |
| 45                 | 17G167               | BOLT                                |
| 46                 | 17G168               | 3/4" SPACER                         |
| *                  | 5B10                 | 1/4" X 1" KEY                       |

**\* MEANS NOT SHOWN**

## This image shows a blank 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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