

## REPLACEMENT PARTS SECTION

Depending on what replacement parts you are ordering  
the following information will be needed:

**CHIPPER COMPONENTS**

Serial Number  
Model Number of Chipper

**ENGINE COMPONENTS**

Brand  
Engine Serial Number  
Engine Spec. Number

**CLUTCH COMPONENTS**

Brand  
Serial Number  
Assembly Number of Clutch

**NOTICE**

When ordering any replacement parts you should have the serial number (S/N) and model of the machine to ensure that you receive the correct replacement part. See page 6 for typical serial number & work order number locations.

**NOTICE**

All nuts, bolts, washers, and many other components can be ordered by physical description.

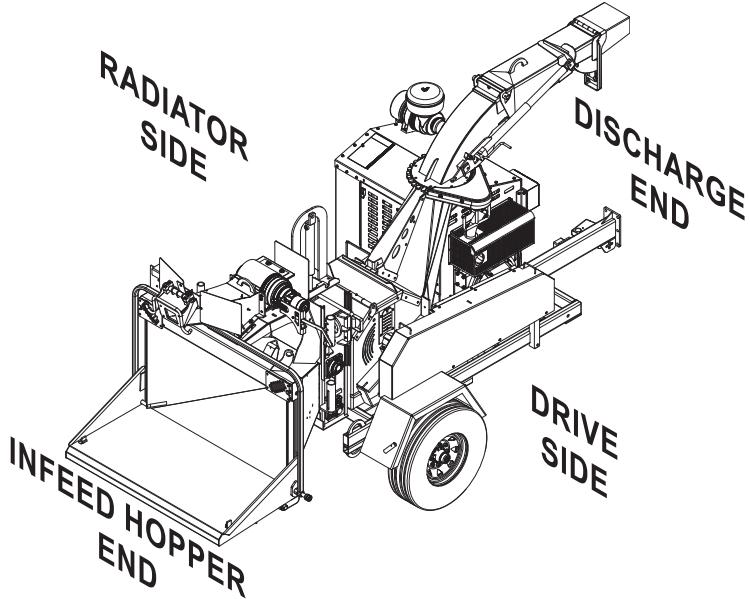
**NOTICE**

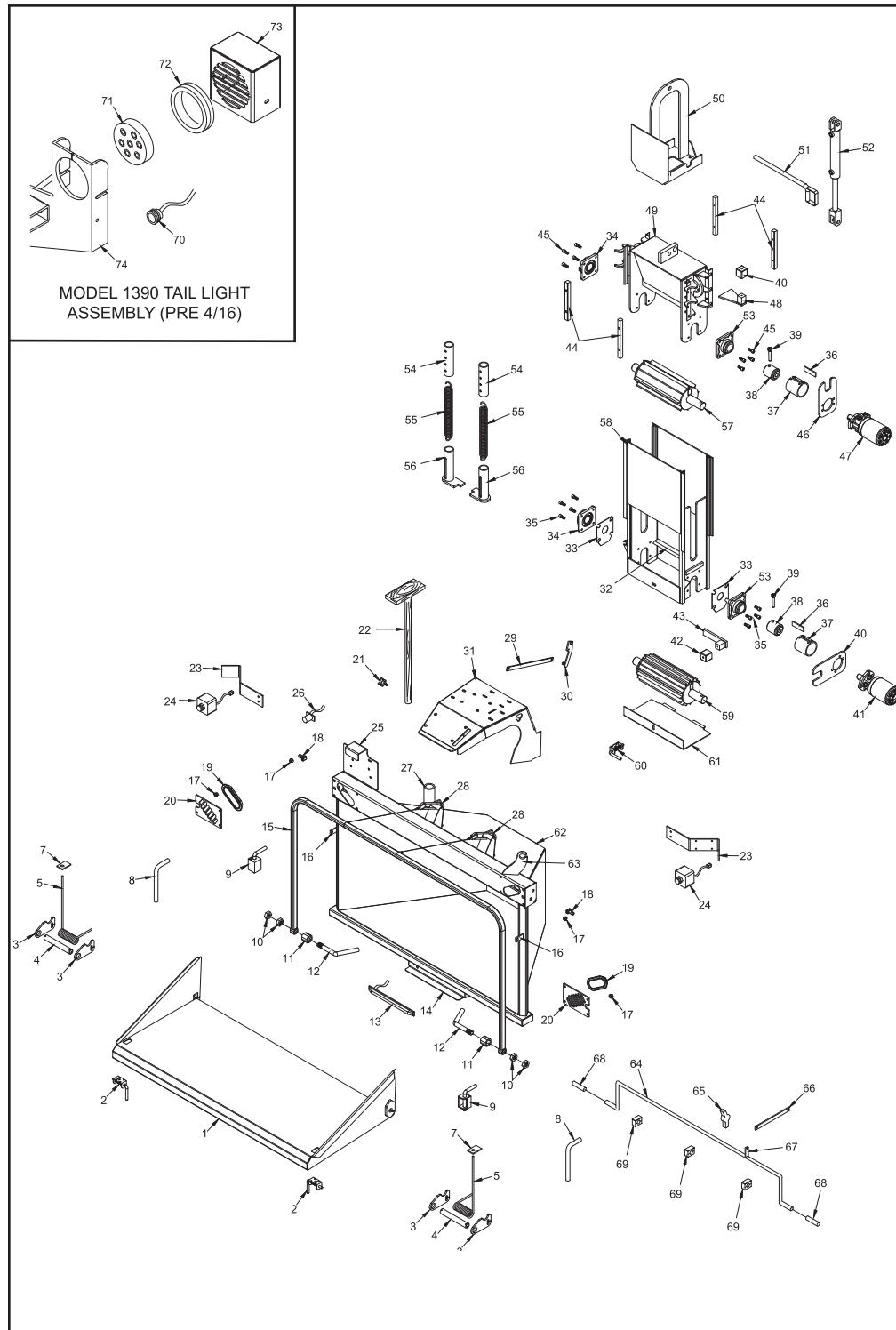
Some of the components shown in this section are for optional equipment and may not apply to every machine.

**NOTICE**

Bandit Industries Inc. reserves the right to make changes in models, size, design, installations and applications on any part without notification.

## MACHINE ORIENTATION REFERENCE





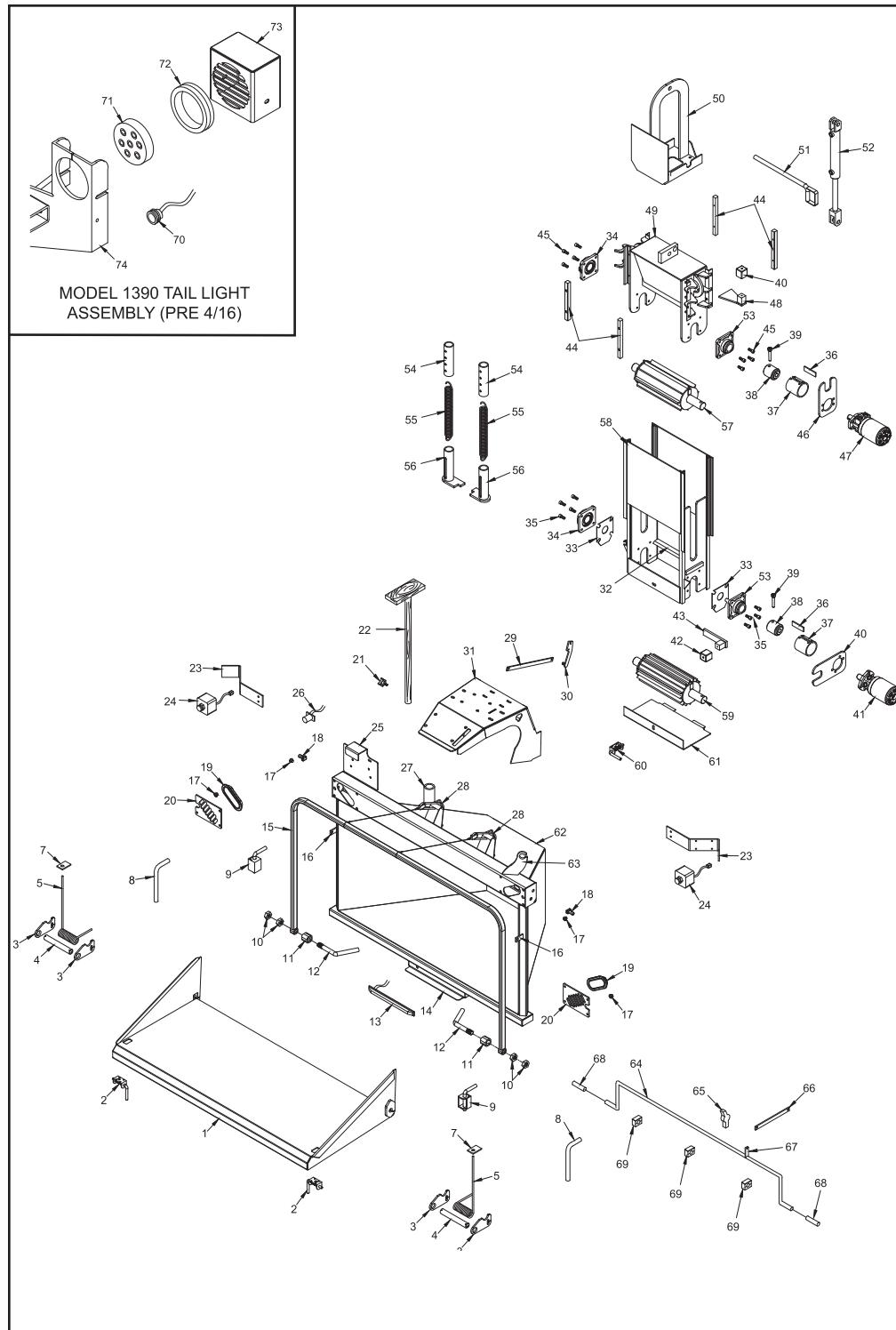
**NOTICE** Parts may not be exactly as shown.

| LOCATION | PART NUMBER | DESCRIPTION  |
|----------|-------------|--|
| 1. a.    | 912-1001-42 | Folding Tray For Infeed Hopper (Includes 2 - 7 & 9 - 12)             |
| b.       | 912-200002  | Folding Tray For Infeed Hopper                                       |
| 2. a.    | 900-4904-90 | Folding Tray Spring Lock - 3/4" Diameter Pin                         |
| b.       | 900-7900-96 | Rubber Cap For Spring Lock - 3/4" Diameter (Not Shown)               |
| 3.       | 980-300320  | Spring Mount for Spring Assist - 2" x 3" Rim                         |
| 4. a.    | 980-3011-43 | Spring Tube For Spring Assist  |
| b.       | 900-4905-45 | Cotter Pin For Spring Tube (Not Shown)                               |
| 5. a.    | 900-4917-77 | Right Spring For Spring Assist (Start 12/14)                         |
| b.       | 900-4905-40 | Right Spring For Spring Assist (Pre 12/14)                           |
| c.       | 911-100003  | Spring Assist Kit - Specify Left Side or Right Side (Includes 3 - 7) |
| 6. a.    | 900-4917-76 | Left Spring For Spring Assist (Start 12/14)                          |
| b.       | 900-4905-39 | Left Spring For Spring Assist (Pre 12/14)                            |
| c.       | 911-100003  | Spring Assist Kit - Specify Left Side or Right Side (Includes 3 - 7) |
| 7.       | 980-0133-34 | Top Spring Block (Specify Length 1 1/2" or 2 1/2")                   |
| 8. a.    | 955-300086  | Folding Tray Lock Pin (Pre 5/13)                                     |
| b.       | 900-7900-96 | Rubber Cap For Lock Pin (Not Shown)                                  |
| 9. a.    | 900-4908-27 | Infeed Tray Spring Lock Only   |
| b.       | 980-2003-53 | Infeed Tray Slam Latch Kit   |
| 10.      | 900-4900-44 | Pivot Pin Jam Nut  |
| 11.      | 980-0133-09 | Pivot Tube   |
| 12.      | 981-300151  | Pivot Pin  |
| 13.      | 900-2909-93 | LED 3-Light Bar  |
| 14.      | 980-300118  | Mount For LED 3-Light Bar  |
| 15. a.   | 905-2001-55 | Control Bar (Model 15XP)   |
| b.       | 912-1001-10 | Control Bar (Models 1390HD & 1390 STD)                               |
| 16. a.   | 911-3004-83 | Folding Tray Lock Tab For 3/4" Diameter Pin (Models 15XP/1390HD)     |
| b.       | 980-0137-06 | Folding Tray Lock Tab For 1/2" Diameter Pin (Model 1390STD)          |
| 17.      | 900-2924-29 | LED Red Marker Light - 3/4" Round                                    |
| 18.      | 905-8000-06 | Fuel Saver Kit   |
| 19.      | 900-2905-13 | LED Oval Tail Light  |
| 20.      | 937-3014-82 | Oval Tail Light Cover  |
| 21.      | 900-4914-18 | Plastic Knob   |
| 22.      | 981-1005-30 | Wooden Push Paddle   |
| 23.      | 980-0136-44 | Shut Down Switch Mount   |
| 24.      | 900-2914-65 | Shut Down Switch Assembly  |
| 25. a.   | 980-300290  | License Plate and Light Mount  |
| b.       | 905-3002-28 | License Plate and Light Mount - Australia                            |
| 26.      | 900-2927-84 | License Plate Light  |
| 27.      | 980-0122-55 | Wooden Push Paddle Mount   |
| 28. a.   | 980-0509-25 | Last Chance Cable Kit - Pulleys, Cables, Clamps                      |
| b.       | 900-4904-29 | Last Chance Orange Cable With Clamp                                  |
| c.       | 980-0508-64 | Last Chance Cable Assembly Kit                                       |
| 29.      | 980-100139  | Hydraulic Control Arm - 20 1/2"                                      |
| 30.      | 980-100141  | Feedwheel Control Valve Linkage                                      |
| 31. a.   | 905-2001-45 | Winch and Valve Mount (Model 15XP)                                   |
| b.       | 905-2001-59 | Winch and Valve Mount - Australia                                    |
| c.       | 915-2000-16 | Winch and Valve Mount (Models 1390HD & 1390STD)                      |
| 32.      | 909-3000-62 | Scraper Bar  |
| 33.      | 981-300066  | Bottom Feedwheel Bearing Backer Plate                                |
| 34.      | 900-1909-79 | Feedwheel Bearing - Set Screw Style                                  |
| 35.      | 900-4909-23 | Bottom Feedwheel Bearing Bolt (1/2"-13NC x 1 1/4" SHCS)              |
| 36.      | 980-0508-57 | Coupler Guard Mount  |
| 37.      | 900-7901-23 | Rubber Coupler Guard - 17 3/4"                                       |

**NOTICE** The Model 1390STD was built until 8/13.

**NOTICE** The Model 1390 hydraulic feedwheel motors may be on the left side or the right side of the machine, depending on the machine serial number.

**NOTICE** Grip-Tite style feedwheel bearings are on the hydraulic motor side.



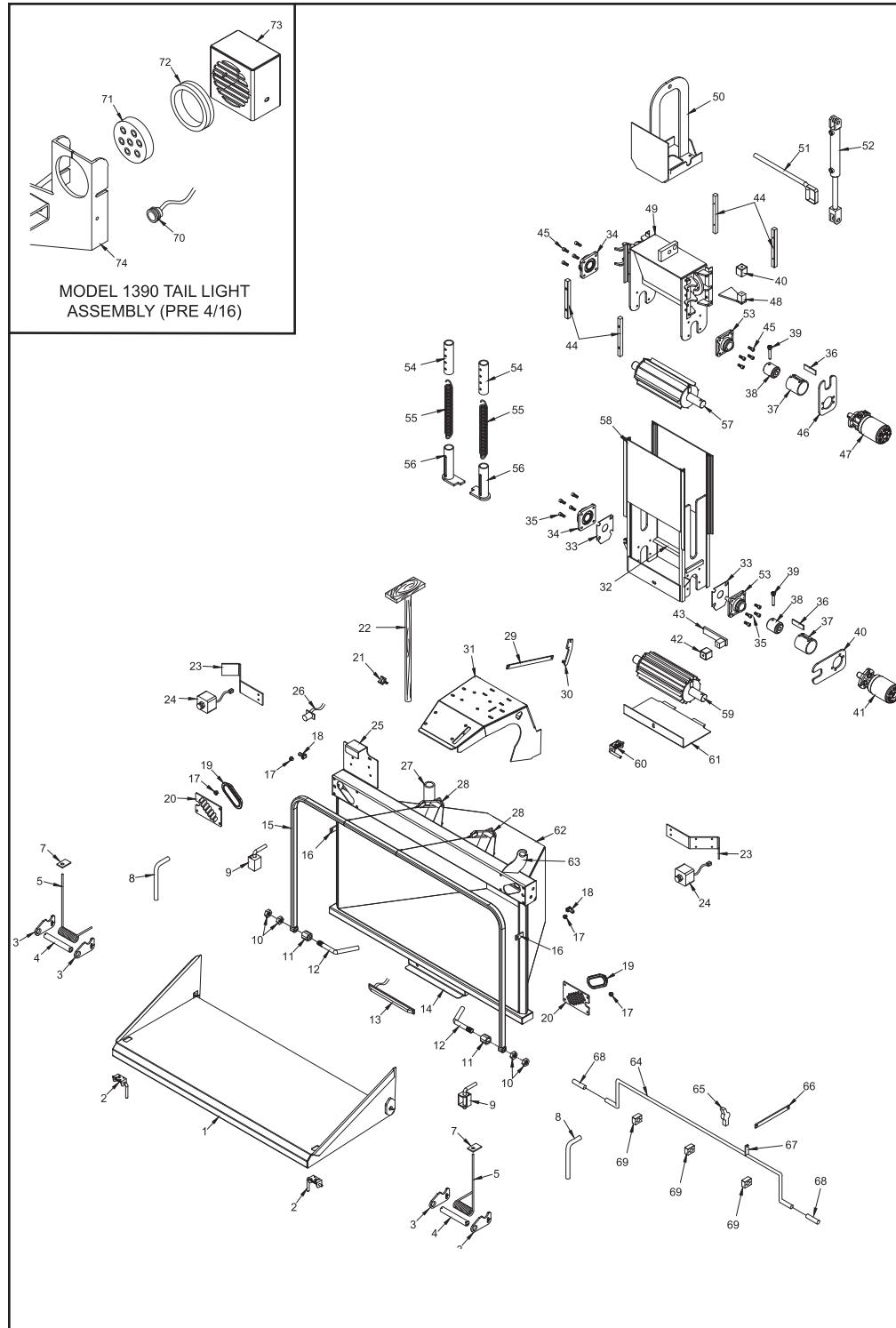
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| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 38. a.   | 981-0501-31 | Coupler Assembly (Includes 36 and 38) (Models 1390HD & 15XP)      |
| b.       | 917-2000-08 | Coupler Assembly (Model 1390STD)                                  |
| 39. a.   | 900-4909-54 | Taper Pin With Nut (Models 15XP/1390HD)                           |
| b.       | 900-4909-53 | Taper Pin With Nut (Model 1390STD)                                |
| 40. a.   | 981-100050  | Bottom Torque Arm With Coupler Guard Mount (Models 15XP/1390HD)   |
| b.       | 981-300196  | Bottom Torque Arm (Models 15XP/1390HD)                            |
| c.       | 980-0124-98 | Bottom Torque Arm (Model 1390STD)                                 |
| 41. a.   | 900-3973-16 | Bottom Feedwheel Hydraulic Motor (Models 15XP/1390HD)             |
| b.       | 900-3972-05 | Bottom Feedwheel Hydraulic Motor (Model 1390STD)                  |
| 42.      | 937-900009  | 4 Sided Torque Arm Cushion  |
| 43. a.   | 980-300514  | Bottom Torque Arm Stop  |
| b.       | 937-300316  | Torque Arm Cushion Mount  |
| 44.      | 980-0138-10 | Yoke Slide - 1" x 1" x 11 1/2"                                    |
| 45.      | 900-4913-62 | Top Feedwheel Bearing Bolt (1/2"-13NC x 1 1/8" SHCS)              |
| 46. a.   | 981-100049  | Top Torque Arm With Coupler Guard Mount (Models 15XP/1390HD)      |
| b.       | 981-300197  | Top Torque Arm (Models 15XP/1390HD)                               |
| c.       | 980-0124-98 | Top Torque Arm (Model 1390STD)                                    |
| 47. a.   | 900-3973-17 | Top Feedwheel Hydraulic Motor (Models 15XP/1390HD)                |
| b.       | 900-3972-04 | Top Feedwheel Hydraulic Motor (Model 1390STD)                     |
| 48. a.   | 981-300199  | Top Torque Arm Stop (Models 15XP/1390HD)                          |
| b.       | 980-300515  | Top Torque Arm Stop (Model 1390STD)                               |
| c.       | 937-300316  | Torque Arm Cushion Mount  |
| 49. a.   | 915-1000-02 | Top Yoke Assembly (Includes 34 - 40, 44 - 46, 54 & 57)            |
| b.       | 915-2000-02 | Top Yoke Assembly (Models 15XP/1390HD)                            |
| c.       | 917-2000-06 | Top Yoke Assembly (Model 1390STD)                                 |
| 50. a.   | 911-200011  | Yoke Lift Assembly (Models 15XP/1390HD)                           |
| b.       | 911-2001-70 | Top Yoke Plate Without Yoke Lift (Not Shown) (Models 15XP/1390HD) |
| c.       | 917-2000-10 | Yoke Lift Assembly (Model 1390STD)                                |
| d.       | 980-200206  | Top Yoke Plate Without Yoke Lift (Not Shown) (Model 1390STD)      |
| e.       | 980-0132-68 | Decal Plate Only  |
| 51. a.   | 955-1005-91 | Yoke Lock Pin (Models 15XP/1390HD)                                |
| b.       | 980-200223  | Yoke Lock Pin (Model 1390STD)                                     |
| 52. a.   | 900-3928-15 | Yoke Lift Cylinder-Welded (Models 15XP/1390HD)                    |
| b.       | 900-3925-05 | Yoke Lift Cylinder-Welded (Model 1390STD)                         |
| c.       | 904-0007-14 | Pin for Welded Cylinder   |
| d.       | 900-4913-23 | Rubber Washer - Top Of Cylinder (Not Shown)                       |
| 53.      | 900-1909-80 | Feedwheel Bearing - Grip-Tight Style                              |
| 54. a.   | 981-300030  | Top Mount for Easy Climb System                                   |
| b.       | 900-4905-14 | Clevis Pin (Not Shown)  |
| c.       | 900-4905-19 | Hair Pin for Clevis Pin (Not Shown)                               |
| 55. a.   | 900-4903-81 | Yoke Spring (Models 15XP/1390HD)                                  |
| b.       | 900-4900-04 | Yoke Spring (Model 1390STD)                                       |
| 56. a.   | 980-2004-40 | Bottom Mount for Easy Climb System - Left Side                    |
| b.       | 980-2003-72 | Bottom Mount for Easy Climb System - Right Side                   |
| c.       | 900-4905-79 | Clevis Pin (Not Shown)  |
| d.       | 900-4905-80 | Cotter Pin for Clevis Pin (Not Shown)                             |
| e.       | 900-4906-90 | Flat Washer (Not Shown)   |
| 57. a.   | 981-0501-32 | Top Feedwheel Assembly (Models 15XP/1390HD)                       |
| b.       | 917-2000-07 | Top Feedwheel Assembly (Model 1390STD)                            |
| c.       | 981-300191  | Top Feedwheel Tooth   |
| d.       | 981-0501-31 | Top Feedwheel Shaft & Coupler Assembly                            |

**NOTICE** The Model 1390STD was built until 8/13.

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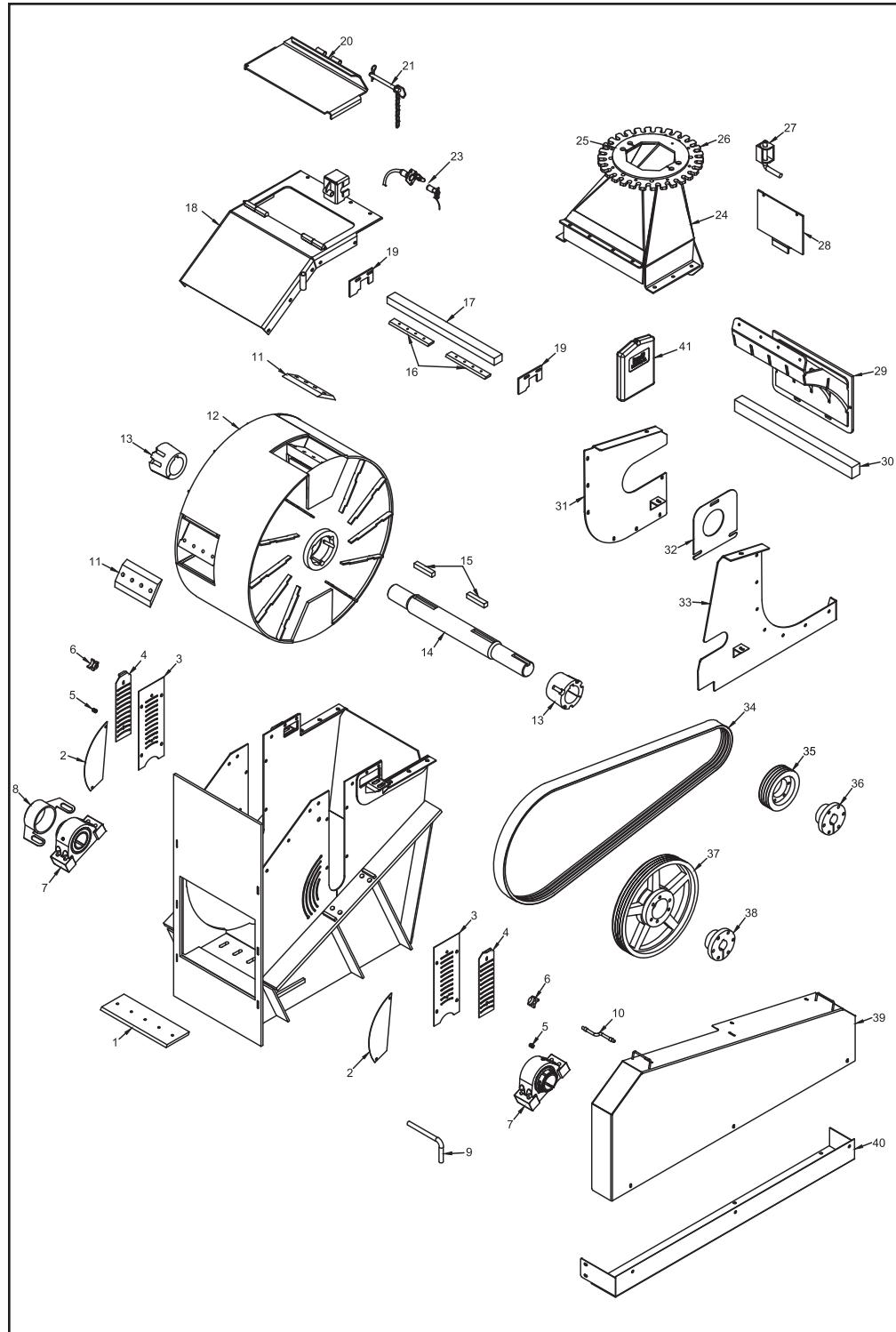
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| LOCATION | PART NUMBER | DESCRIPTION  |
|----------|-------------|--|
| 58. a.   | 915-1000-01 | Feedwheel Slide Box Assembly (Includes 33 - 41 & 53) |
| b.       | 915-2000-01 | Feedwheel Slide Box Assembly (Models 15XP/1390HD)    |
| c.       | 917-2000-04 | Feedwheel Slide Box Assembly (Model 1390STD)         |
| 59. a.   | 981-0501-28 | Bottom Feedwheel Assembly (Models 15XP/1390HD)       |
| b.       | 917-2000-09 | Bottom Feedwheel Assembly (Model 1390STD)            |
| c.       | 981-300191  | Bottom Feedwheel Tooth                               |
| d.       | 981-0501-31 | Bottom Feedwheel Shaft & Coupler Assembly            |
| 60.      | 900-4901-83 | Trap Door Spring Lock                                |
| 61. a.   | 911-0500-30 | Trap Door Assembly (Models 15XP/1390HD)              |
| b.       | 917-2000-05 | Trap Door Assembly (Model 1390STD)                   |
| c.       | 001-3004-00 | Hinge For Trap Door                                  |
| 62.      | 915-1000-75 | Infeed Hopper Assembly                               |
| 63.      | 955-3010-97 | Winch Cable Hook Mount                               |
| 64. a.   | 905-2000-82 | Dual Yoke Lift Control Bar Kit                       |
| b.       | 917-2000-27 | Dual Yoke Lift Control Bar                           |
| 65.      | 900-3930-96 | Short Valve Handle - Lift Cylinder Control Linkage   |
| 66.      | 626-100061  | Control Arm - Dual Yoke Lift - 11 1/2"               |
| 67.      | 980-100157  | Dual Yoke Lift Control Bar Tab                       |
| 68.      | 900-7900-96 | Rubber Cap - Dual Yoke Lift Control Bar              |
| 69.      | 900-3914-02 | Clamp - Lift Control Bar                             |
| 70. a.   | 900-2927-85 | LED Red Marker Light - 3/4" Round                    |
| b.       | 900-2915-98 | LED Red Marker Light - Oval                          |
| 71. a.   | 900-2908-76 | LED Tail Light                                       |
| b.       | 900-2908-74 | Adapter Wire for LED Tail Light (Not Shown)          |
| 72.      | 900-2908-75 | Rubber Grommet for LED Tail Light                    |
| 73.      | 980-2002-82 | Heavy Duty Tail Light Cover                          |
| 74. a.   | 980-200176  | Tail Light Mount - Left Side                         |
| b.       | 980-200177  | Tail Light Mount - Right Side                        |

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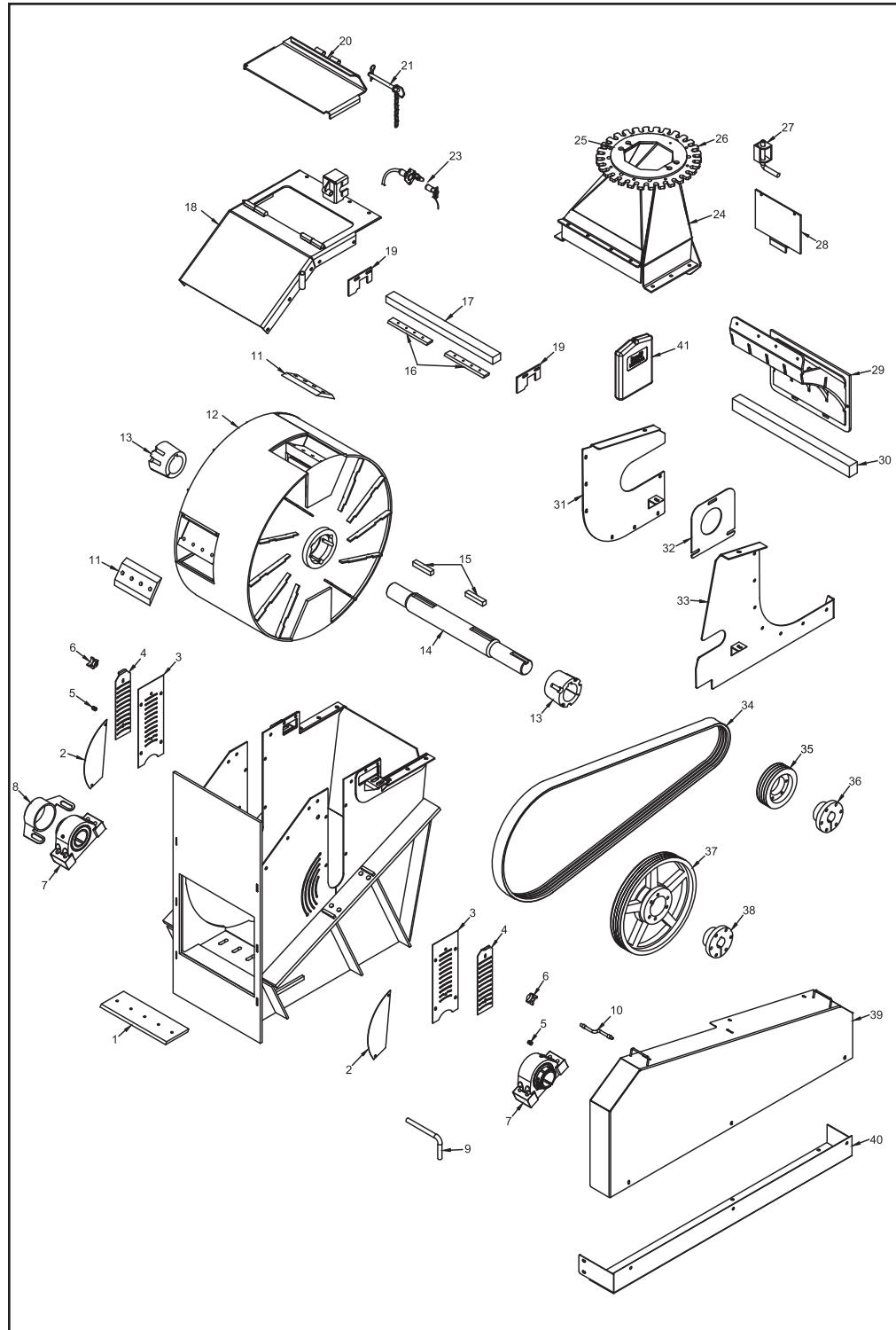


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| LOCATION | PART NUMBER  | DESCRIPTION   |
|----------|--------------|---|
| 1.       | See Page 107 | Anvil   |
| 2.       | 911-1001-88  | Vent cover  |
| 3.       | 937-1012-38  | Base Slot Cover   |
| 4. a.    | 937-300007   | Air Vent Cover - Steel  |
| b.       | 937-300008   | Air Vent Cover - Aluminum   |
| c.       | 937-100001   | Air Vent Cover Kit - Steel (Includes Two Pieces Of 4a, 5, & 6)            |
| d.       | 937-100000   | Air Vent Cover Kit - Aluminum (Includes Two Pieces Of 4b, 5, & 6)         |
| 5.       | 900-4908-33  | Spring For Vent Cover   |
| 6.       | 900-4908-29  | Plastic Knob For Vent Cover   |
| 7. a.    | 900-1914-80  | Chipper Drum Bearing  |
| b.       | 900-4910-40  | Chipper Drum Bearing Bolt (3/4"-10NC x 5" Hex Head) - Left Side Only      |
| c.       | 900-4910-34  | Chipper Drum Bearing Bolt (3/4"-10NC x 4 1/2" Hex Head) - Right Side Only |
| d.       | 900-4901-47  | Washer for Chipper Drum Bearing (3/4" Mill Carb)                          |
| e.       | 900-4910-19  | Chipper Drum Bearing Jam Nut (3/4"-10NC Hex Jam Nut) - Left Side Only     |
| f.       | 900-4901-23  | Chipper Drum Bearing Nut (3/4"-10NC Hex Nut) - Right Side Only            |
| 8.       | 917-2000-24  | Drum Shaft Bearing Cover  |
| 9. a.    | 955-300086   | Drum Lock Pin   |
| b.       | 900-7900-96  | Rubber Cap (Not Shown)  |
| 10.      | 900-3921-02  | Chipper Bearing Grease Line   |
| 11.      | See Page 106 | Chipper Knife & Hardware  |
| 12. a.   | 915-2000-64  | Chipper Drum Head Assembly (Start WO# 60280)                              |
| b.       | 909-2000-11  | Chipper Drum Head Assembly (Includes 11, 13, 14, & 15)                    |
| 13.      | 900-1906-26  | Drum Head Bushing   |
| 14.      | 909-3000-32  | Drum Head Shaft   |
| 15.      | 937-1004-19  | Key for Drum Head Shaft   |
| 16. a.   | 937-3009-23  | Shear Bar Knife   |
| b.       | 900-4909-86  | Shear Bar Knife Bolts (1/4"-20NC x 5/8" SHCS - 8 per)                     |
| 17. a.   | 917-3000-43  | Shear Bolt Plate  |
| b.       | 917-1000-09  | Shear Assembly (Includes 16)  |
| 18. a.   | 917-3000-45  | Base Top  |
| b.       | 915-2000-35  | Base Top With Door Assembly (Includes 20 & 21)                            |
| c.       | 909-3000-26  | Pin For Hood Door Hinge (Pre 6/15)  |
| 19.      | 917-3000-52  | Shear Slot Cover  |
| 20. a.   | 912-3001-60  | Hood Door Only (Start 2/04)   |
| b.       | 900-4911-84  | Grease Zerk For Hood Door Hinge   |
| 21.      | 900-4905-37  | Hood Pin With Attaching Chain   |
| 22. a.   | 900-4902-20  | Padlock For Hood Pin (Not Shown)  |
| b.       | 900-4917-21  | Key For Padlock (Not Shown)   |
| 23. a.   | 909-1000-01  | Engine Disable Plug Kit (Includes Plug, Wiring, & Mounts)                 |
| b.       | 900-2904-13  | 6-Prong Female Plug Only  |
| c.       | 980-100083   | 6-Prong Male Plug With Wire Loop & Crimp Sleeves                          |
| 24.      | 915-2000-83  | 21" Tall Transition Ass'y (Start  |
| 25.      | 937-1005-63  | Transition Flange   |
| 26.      | 980-3013-58  | Bottom Swivel Ring  |
| 27. a.   | 900-4908-27  | Discharge Spring Lock   |
| b.       | 900-7900-96  | Rubber Cap (Not Shown)  |
| 28.      | 909-3000-48  | Optional Clean-Out Door   |

\*\* Components vary with engine options order by physical description or machine S/N.

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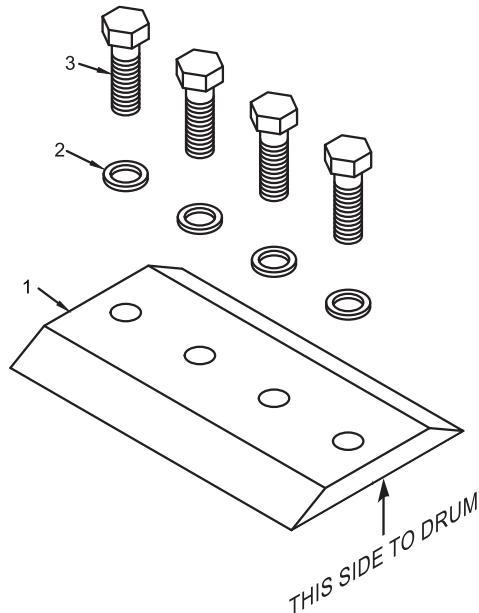


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| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 29.      | 915-2000-21 | Optional Chip Breaker Assembly                          |
| 30.      | 900-6913-93 | Foam Power Slot Guard - Gas Engines                     |
| 31.      | 912-300037  | Removable PTO Cover - Beltshield Back                   |
| 32.      | 980-300413  | Adjustable Beltshield Cover - Auto Clutch               |
| 33.      | 912-300038  | Removable PTO Cover - Beltshield Back                   |
| 34.      | **          | Chipper Belts   |
| 35.      | **          | Engine Sheave   |
| 36.      | **          | Engine Sheave Bushing                                   |
| 37.      | **          | Chipper Sheave  |
| 38.      | **          | Chipper Sheave Bushing                                  |
| 39. a.   | 911-2001-79 | Beltshield Assembly (Start 10/16)                       |
| b.       | 911-2001-99 | Beltshield Assembly (Pre 10/16)                         |
| 40. a.   | 911-2001-80 | Beltshield Bottom (Start 10/16)                         |
| b.       | 912-200016  | Beltshield Bottom (Pre 10/16)                           |
| 41. a.   | 900-9910-28 | Manual Holder - 8" x 11" x 2"                           |
| b.       | 900-9902-07 | Manual Holder - 10" x 12-1/2" x 2" (Stored In Tool Box) |

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**NOTICE** KNIFE BOLTS MUST BE INSTALLED THROUGH KNIFE AS SHOWN.

#### Part Numbers For Knives & Hardware

| LOCATION | PART NUMBER | DESCRIPTION                      |
|----------|-------------|----------------------------------|
| 1.       | 912-3001-47 | 5/8" x 5 1/2" x 9" Chipper Knife |
| 2.       | 900-4901-32 | 5/8" Mill Carb Washer            |
| 3.       | 900-4900-20 | 5/8"-11NC x 2" Knife Bolt        |

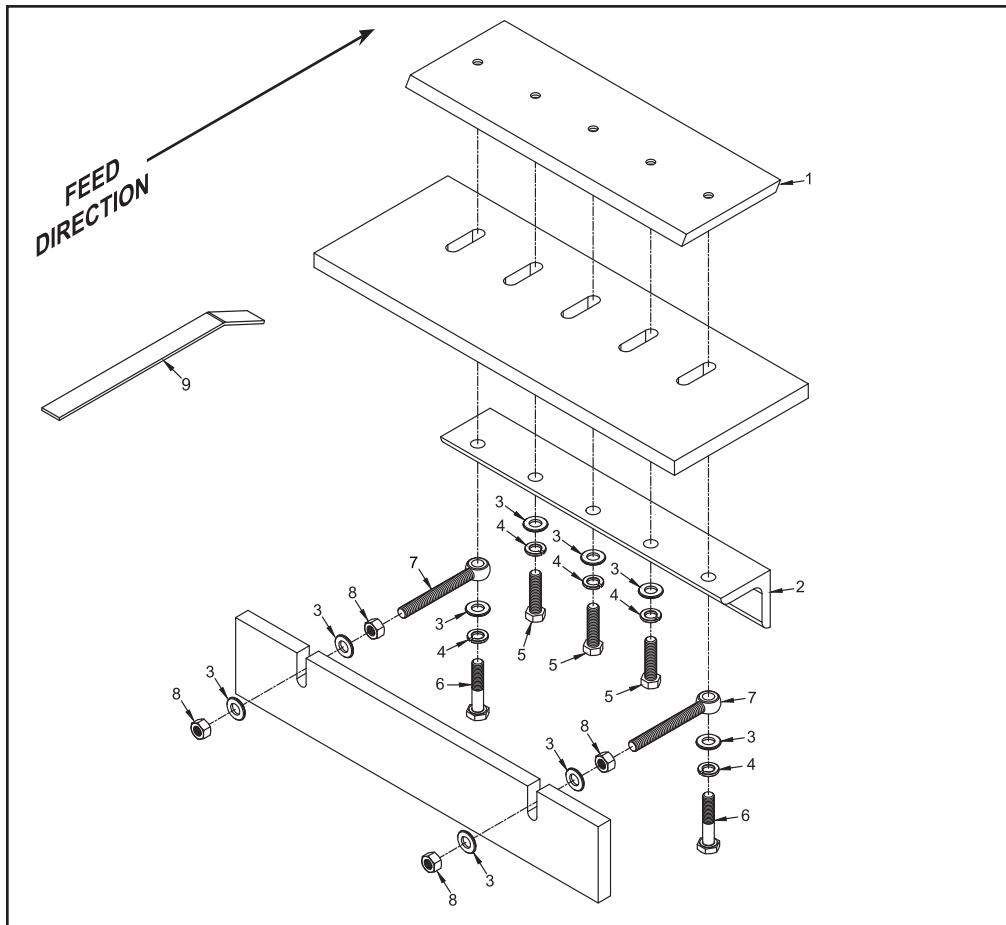
Knife Bolt Torque: 180 ft.-lbs. (245 Nm)

#### KNIFE SAVER KIT



| LOCATION | PART NUMBER | DESCRIPTION                        |
|----------|-------------|------------------------------------|
| 1.       | 900-9901-68 | Knife Saver Kit                    |
| 2.       | 900-9901-65 | File For Knife Saver Kit Only      |
| 3.       | 900-9901-63 | Replacement Blades For Knife Saver |
| 4.       | 900-9901-66 | Knife Changing Gloves              |

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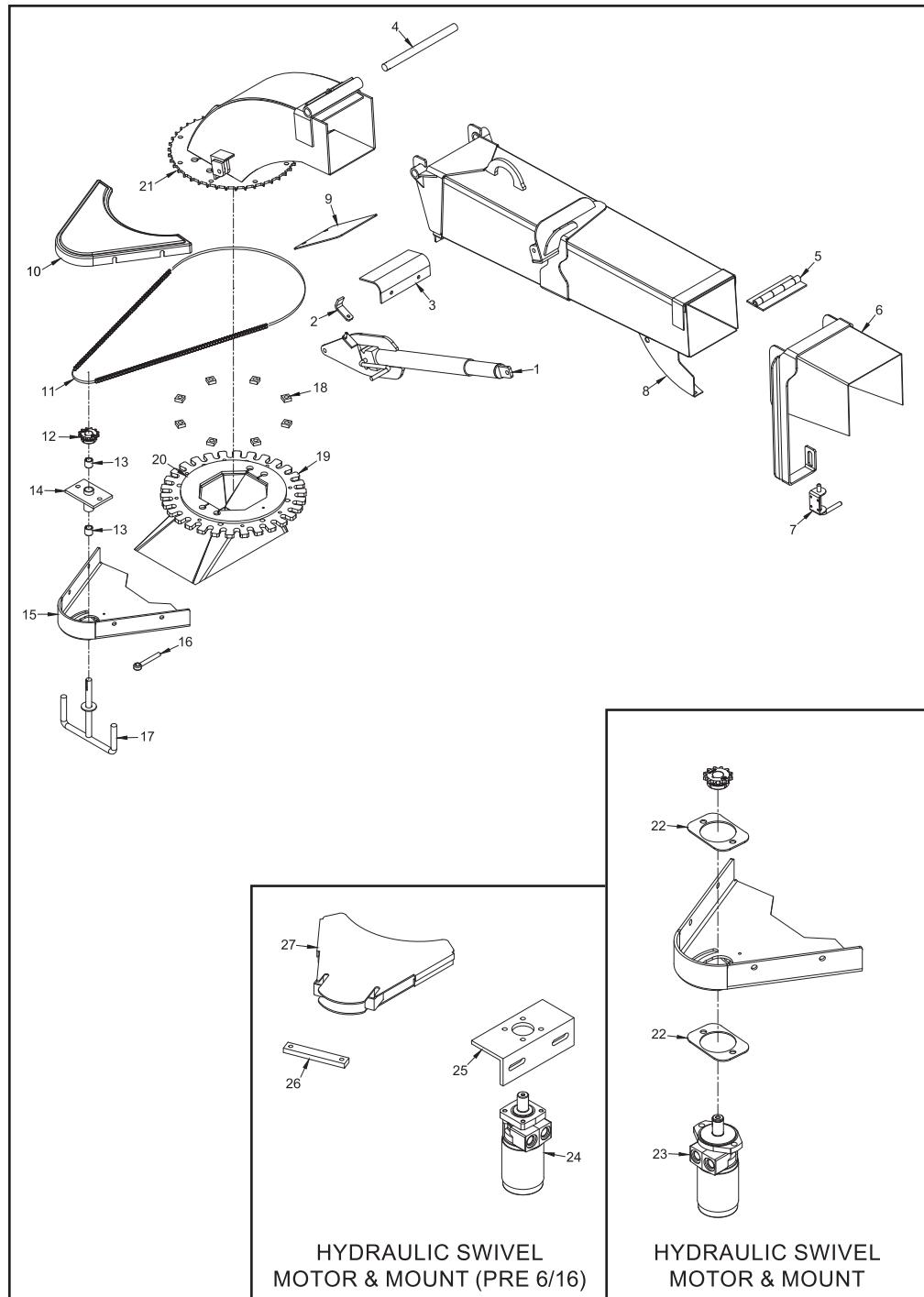


| LOCATION | PART NUMBER | DESCRIPTION                                   |
|----------|-------------|---|
| 1. a.    | 909-3000-67 | Anvil Only                                    |
| b.       | 909-3000-69 | "AR" Anvil Only                               |
| 2.       | 912-3001-53 | Anvil Clamp Plate                             |
| 3.       | 900-4909-18 | 1/2" Mill Carb Washer                         |
| 4.       | 900-4906-86 | 1/2" Lock Washer                              |
| 5.       | 900-4900-74 | 1/2"-13NC x 2" Hex Head Bolt                  |
| 6.       | 900-4903-17 | 1/2"-13NC x 2 1/2" Hex Head Bolt              |
| 7. a.    | 900-4907-91 | Anvil Eye Bolt - 1/2"-13NC x 4 1/2" (Current) |
| b.       | 900-4902-73 | Anvil Eye Bolt - 1/2"-13NC x 5 1/2" (Prior)   |
| 8.       | 900-4900-45 | 1/2"-13NC Hex Nut                             |
| 9.       | 955-300193  | Anvil Gauge                                   |
| 10.      | 904-0003-90 | Anvil Hardware Kit Only (Includes 3 - 8)      |
| 11.      | 909-1000-11 | Anvil & Hardware Kit (Includes 1a & 3 - 8)    |

Anvil Bolt Torque: 75 ft.-lbs. (102 Nm)

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## HEIGHT ADJUSTABLE HAND CRANK & HYDRAULIC SWIVEL DISCHARGE



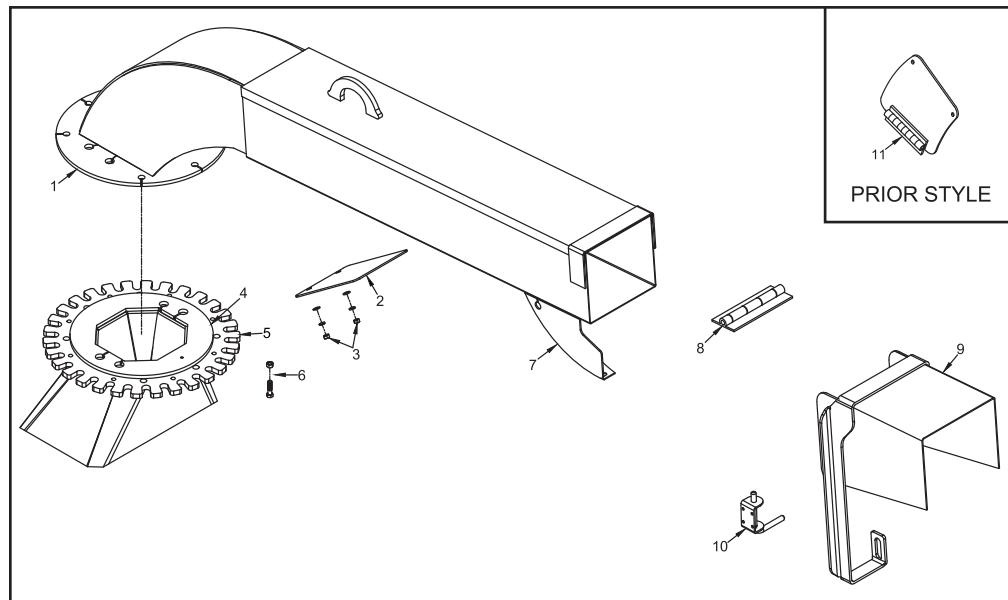
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## HEIGHT ADJUSTABLE HAND CRANK & HYDRAULIC SWIVEL DISCHARGE

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1. a.    | 980-0510-86 | Hand Crank For Adj. Height Discharge - Mounted On The Side      |
| b.       | 912-200035  | Hand Crank For Adj. Height Discharge - Mounted On The Road Side |
| c.       | 980-0508-51 | Hand Crank For Adj. Height Discharge - Mounted Underneath       |
| 2. a.    | 955-300434  | Handle Lock   |
| b.       | 900-4906-60 | Discharge Transport Nut - 3/8"-16NC                             |
| 3.       | 980-0126-12 | Rubber Discharge Guard  |
| 4.       | 980-300209  | Hand Crank Adjustable Height Hinge Pin                          |
| 5.       | 980-0101-59 | Discharge Flipper Hinge   |
| 6. a.    | 980-0509-26 | 12" Discharge Flipper Assembly (Includes 5 & 7)                 |
| b.       | 980-0510-25 | 12" Enclosed Discharge Flipper Assembly (Includes 5 & 7)        |
| 7. a.    | 900-4901-83 | Discharge Flipper Adjusting Spring                              |
| b.       | 900-7900-93 | Black Rubber Cap (Not Shown)                                    |
| 8. a.    | 980-0510-23 | Adjusting Spring Lock Plate Assembly for Standard Flipper       |
| b.       | 980-0510-24 | Adjusting Spring Lock Plate Assembly for Enclosed Flipper       |
| 9.       | 911-300129  | Clean-Out Door  |
| 10.      | 900-9904-64 | Chain Guard   |
| 11. a.   | 900-1901-20 | #50 Roller Chain  |
| b.       | 900-1901-18 | Half Link - Chain (Not Shown)                                   |
| c.       | 900-1901-19 | Master Link - Chain (Not Shown)                                 |
| 12.      | 900-1915-71 | Sprocket for Swivel Discharge                                   |
| 13.      | 900-1909-36 | Bushing Only  |
| 14.      | 980-200006  | Chain Adjuster Assembly   |
| 15.      | 937-200018  | Discharge Swivel Mount  |
| 16.      | 900-4905-43 | Eye Bolt Adjuster   |
| 17. a.   | 937-200064  | T-Handle Assembly   |
| b.       | 900-7900-96 | Rubber Cap  |
| 18.      | 980-0137-35 | Spacer Block  |
| 19.      | 980-3013-58 | Bottom Swivel Ring  |
| 20.      | 937-1005-63 | Transition Flange   |
| 21.      | 980-3014-56 | Discharge Bottom Swivel Ring                                    |
| 22.      | 905-3003-65 | Hydraulic Motor Mount Plate - Bolt On                           |
| 23.      | 900-3977-10 | Hydraulic Motor for Swivel Discharge                            |
| 24. a.   | 900-3972-06 | Hydraulic Motor for Swivel Discharge - SAE O-Ring Fitting       |
| b.       | 900-3973-28 | Hydraulic Motor for Swivel Discharge - Pipe Fitting             |
| 25.      | 980-0110-66 | Motor Mount for Swivel Discharge                                |
| 26.      | 937-1005-35 | Chain Guard Mount   |
| 27.      | 937-200061  | Chain Guard   |

**NOTICE** Nuts, bolts, washers, and all other components can be ordered by physical description.

## MANUAL DISCHARGE



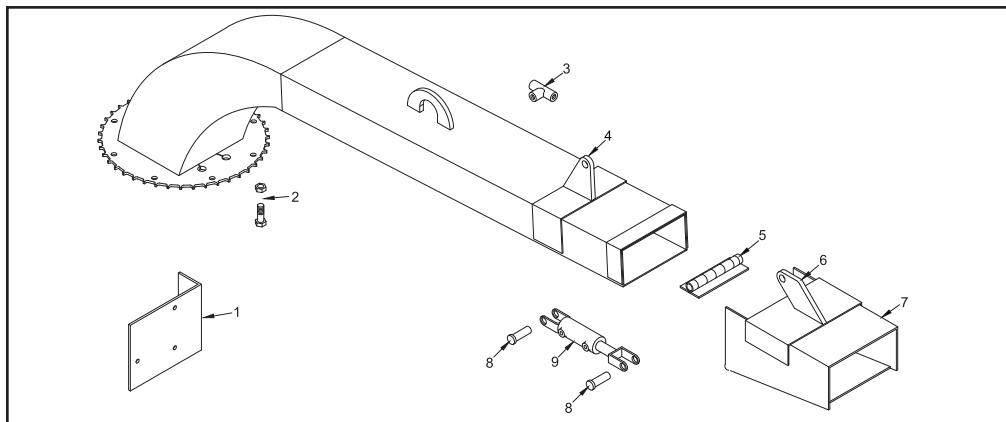
| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 980-300338  | Discharge Bottom Swivel Ring                              |
| 2. a.    | 911-300129  | Clean Out Door (Start 5/12)                               |
| b.       | 980-300616  | Clean Out Door (Pre 5/12)                                 |
| 3. a.    | 900-4910-73 | 5/16"-18NC Hex Nut  |
| b.       | 900-4906-47 | 5/16" Lock Washer   |
| c.       | 900-4906-48 | 5/16" Flat Washer   |
| 4.       | 937-1005-63 | Hood Flange   |
| 5.       | 980-3013-58 | Bottom Swivel Ring  |
| 6. a.    | 900-4910-54 | Discharge Transport Bolt - 3/8"-16NC x 1 1/2"             |
| b.       | 900-4906-60 | Discharge Transport Nut - 3/8"-16NC                       |
| 7. a.    | 980-0510-23 | Adjusting Spring Lock Plate Assembly For Standard Flipper |
| b.       | 980-0510-24 | Adjusting Spring Lock Plate Assembly For Enclosed Flipper |
| 8.       | 980-0101-59 | Discharge Flipper Hinge                                   |
| 9. a.    | 937-1009-10 | 12" Discharge Flipper Assembly (Includes 2 & 4)           |
| b.       | 937-0502-24 | 12" Enclosed Discharge Flipper Assembly (Includes 2 & 4)  |
| 10. a.   | 900-4901-83 | Discharge Flipper Adjusting Spring                        |
| b.       | 900-7900-93 | Black Rubber Cap (Not Shown)                              |
| 11.      | 980-0509-94 | Optional Clean Out Door Assembly (Pre 9/06)               |

## DISCHARGE ASSEMBLIES

| LOCATION | PART NUMBER | DESCRIPTION  |
|----------|-------------|--|
| 1.       | 911-2000-93 | Manual Discharge Assembly                                  |
| 2.       | 911-2000-95 | Hand Crank Swivel And Adjustable Height Discharge Assembly |
| 3.       | 911-2000-94 | Hand Crank Swivel Discharge Assembly                       |
| 4.       | 911-2001-27 | Adjustable Height Discharge Assembly                       |
| 5.       | 911-2000-96 | Hydraulic Swivel Discharge Assembly                        |
| 6.       | 911-2000-97 | Hydraulic Swivel And Adjustable Height Discharge Assembly  |

**NOTICE** Parts may not be exactly as shown.

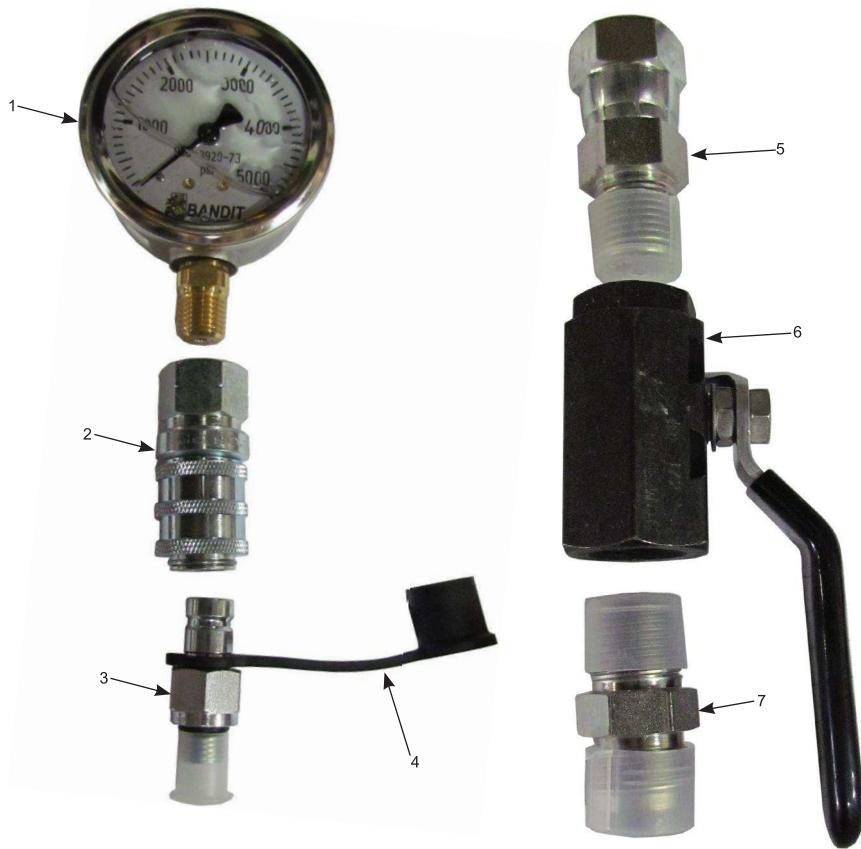
## DISCHARGE WITH HYDRAULIC FLIPPER



| LOCATION | PART NUMBER | DESCRIPTION  |
|----------|-------------|--|
| 1.       | 937-1003-30 | Hydraulic Flipper Control Valve Mount Plate                        |
| 2. a.    | 900-4911-04 | Discharge Transport Bolt - 5/8"-11NC x 1 1/2"                      |
| b.       | 900-4903-25 | Discharge Transport Nut - 5/8"-11NC                                |
| 3.       | 900-3925-18 | Check Valve  |
| 4.       | 960-0006-42 | Straight Section Cylinder Lug                                      |
| 5.       | 980-0101-59 | Hydraulic Flipper Hinge  |
| 6.       | 980-0126-48 | Flipper Lug  |
| 7.       | 937-0501-63 | 12" Hydraulic Flipper Assembly - Enclosed (Includes 4 & 5)         |
| 8.       | 900-3930-71 | Cylinder Lug Pin - 3/4" Dia. x 2 1/2" & Cotter Pin - 1/4" x 1 1/2" |
| 9.       | 900-3928-16 | Hydraulic Flipper Cylinder   |
| 10.      | 900-3916-62 | Swivel Discharge & Discharge Flipper Control Valve (Not Shown)     |

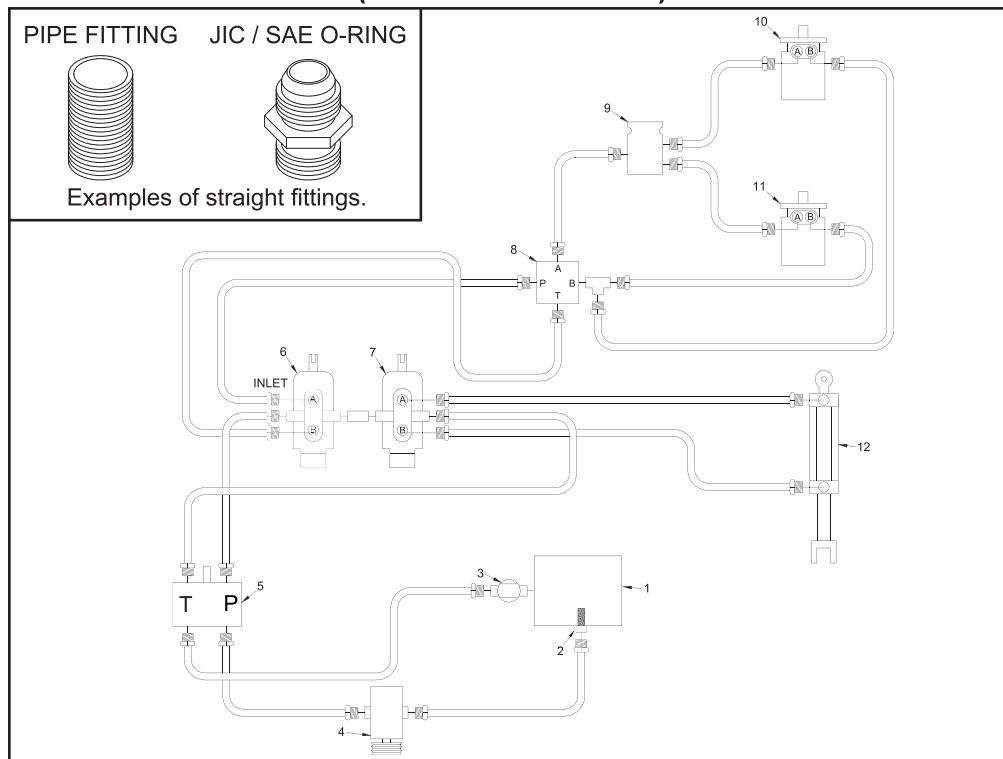
**NOTICE** Nuts, bolts, washers, and all other components can be ordered by physical description.

**NOTICE** Parts may not be exactly as shown.

**IN-LINE HYDRAULIC PRESSURE CHECK KIT**

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 900-3920-73 | 5000 PSI Gauge  |
| 2.       | 900-3902-24 | Quick Coupler   |
| 3.       | 900-3902-23 | Test Nipple   |
| 4.       | 900-3911-47 | Rubber Cap For Test Nipple                                |
| 5.       | 900-3924-86 | Fitting   |
| 6.       | 900-3926-11 | Ball Valve  |
| 7.       | 900-3922-14 | Fitting   |
| 8.       | 980-100121  | In-Line Pressure Check Kit - With Autofeed (Includes 1-7) |
| 9.       | 500-0000-43 | Gauge & Quick Coupler Only (Includes 1 & 2)               |

## HYDRAULIC SCHEMATIC (WITH NO OPTIONS)



| LOCATION | PART NUMBER         | DESCRIPTION   |
|----------|---------------------|---|
| 1.       | See Pages 126 - 127 | Hydraulic Tank (Not Shown)                                |
| 2.       | 900-3951-22         | Hydraulic Tank Strainer (Not Shown)                       |
| 3. a.    | 900-3900-09         | Filter Head (Not Shown)                                   |
| b.       | 900-3900-10         | Filter (Not Shown)  |
| 4.       | **                  | Hydraulic Pump (Not Shown)                                |
| 5.       | See Page 116        | Relief Block  |
| 6.       | 900-3976-84         | Hydraulic Yoke Lift Cylinder                              |
| 7.       | See Page 117        | Reversing "Autofeed Plus"                                 |
| 8.       | 980-2003-91         | Feedwheel Control Valve Without Relief - SAE O-ring       |
| 9.       | See Pages 118 - 119 | Flow Divider  |
| 10. a.   | 900-3973-17         | Top Feedwheel Hydraulic Motor (Models 15XP/1390HD)        |
| b.       | 900-3972-04         | Top Feedwheel Hydraulic Motor (Model 1390STD)             |
| 11. a.   | 900-3973-16         | Bottom Feedwheel Hydraulic Motor (Models 15XP/1390HD)     |
| b.       | 900-3973-05         | Bottom Feedwheel Hydraulic Motor (Model 1390STD)          |
| 12. a.   | 900-3925-04         | Yoke Lift Cylinder - Welded                               |
| b.       | 904-0007-14         | Pin For Welded Cylinder (Not Shown)                       |
| c.       | 904-0006-90         | Seal Kit - Welded Lift Cylinder (Not Shown)               |
| 13. a.   | 980-100121          | In-Line Pressure Check Kit - With Autofeed (Not Shown)    |
| b.       | 980-100122          | In-Line Pressure Check Kit - Without Autofeed (Not Shown) |

\*\* Hydraulic components, fittings, hoses will vary depending on optional equipment. Order by physical description.

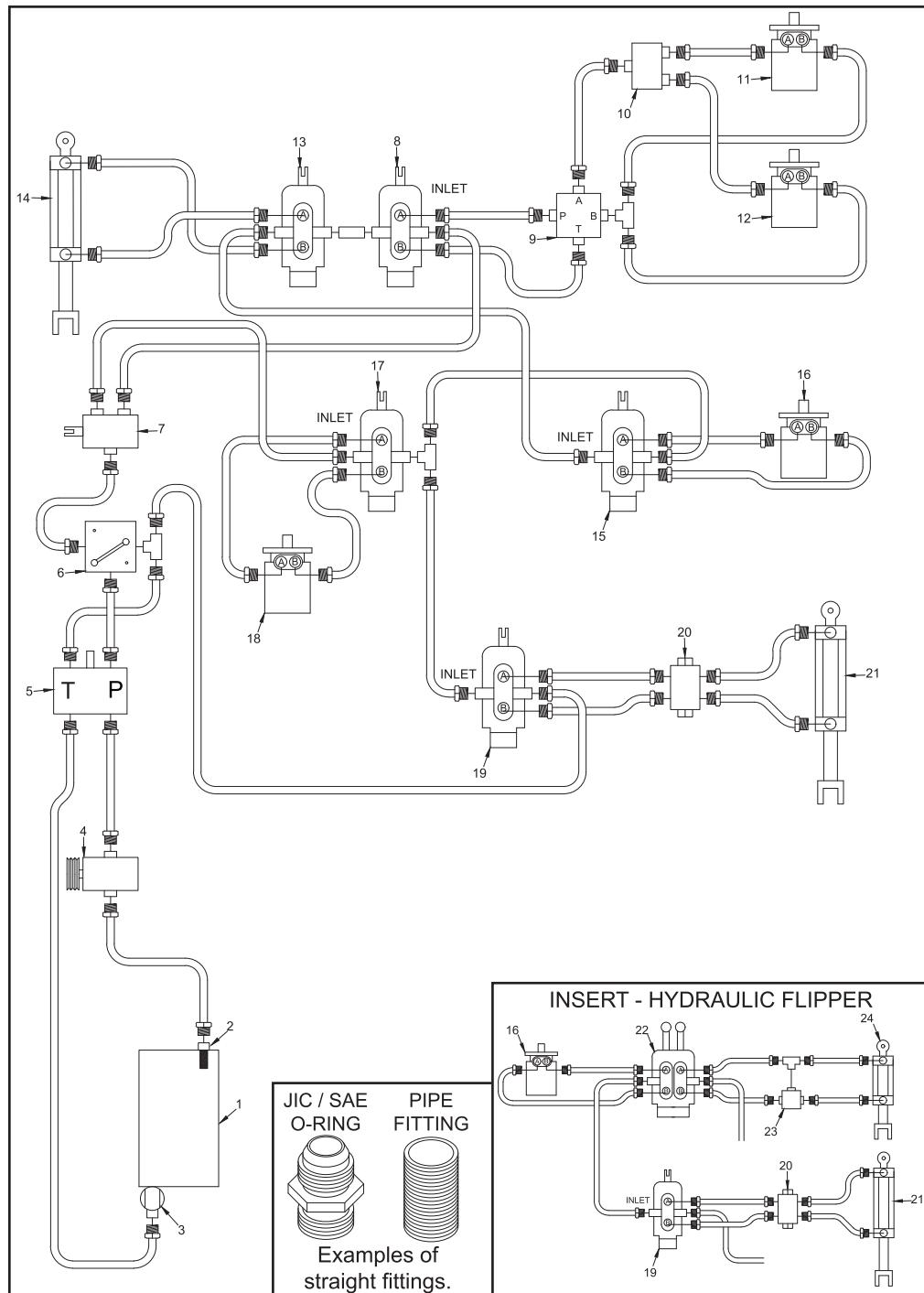
\*\* Hydraulic pumps need to be ordered by physical description and serial number of machine.

**NOTICE** The Model 1390STD was built until 8/13.

**NOTICE** Make sure to order components according to fitting type, fittings may vary on all components.

**NOTICE** Parts may not be exactly as shown.

## HYDRAULIC DIAGRAM (WITH OPTIONS)



**NOTICE** Parts may not be exactly as shown.

## HYDRAULIC DIAGRAM (WITH OPTIONS)

| LOCATION | PART NUMBER         | DESCRIPTION   |
|----------|---------------------|---|
| 1.       | See Pages 126 - 127 | Hydraulic Tank  |
| 2.       | 900-3951-22         | Hydraulic Tank Strainer                                   |
| 3. a.    | 900-3900-09         | Filter Head   |
| b.       | 900-3900-10         | Filter  |
| 4.       | **                  | Hydraulic Pump  |
| 5.       | See Page 116        | Relief Block  |
| 6.       | 900-3924-55         | Variable Speed Flow Control Valve - SAE O-ring            |
| 7.       | 900-3936-39         | Winch Selector Valve                                      |
| 8.       | 900-3920-05A        | Feedwheel Control Valve Without Relief - SAE O-ring       |
| 9.       | See Page 117        | Reversing "Autofeed Plus"                                 |
| 10.      | See Pages 118 - 119 | Flow Divider  |
| 11. a.   | 900-3973-17         | Top Feedwheel Hydraulic Motor (Models 15XP/1390HD)        |
| b.       | 900-3972-04         | Top Feedwheel Hydraulic Motor (Model 1390STD)             |
| 12. a.   | 900-3973-16         | Bottom Feedwheel Hydraulic Motor (Models 15XP/1390HD)     |
| b.       | 900-3972-05         | Bottom Feedwheel Hydraulic Motor (Model 1390STD)          |
| 13.      | 900-3927-73         | Yoke Lift Control Valve For Dual Control Yoke Lift        |
| 14. a.   | 900-3928-15         | Yoke Lift Cylinder - Welded                               |
| b.       | 904-0007-14         | Pin For Welded Cylinder (Not Shown)                       |
| c.       | 904-0006-90         | Seal Kit - Welded Lift Cylinder (Not Shown)               |
| 15. a.   | 900-3920-01         | Swivel Discharge Control Valve Only                       |
| b.       | 900-3923-86         | Restrictor Fitting - .062"                                |
| 16.      | 900-3972-06         | Swivel Discharge Hydraulic Motor                          |
| 17.      | 900-3920-01         | Winch Control Valve Only                                  |
| 18.      | 900-3972-06         | Winch Hydraulic Motor                                     |
| 19.      | 900-3920-01         | Tongue Jack Control Valve                                 |
| 20.      | 900-3977-42         | Tongue Jack Check Valve                                   |
| 21.      | 900-3934-24         | Tongue Jack Cylinder - Welded                             |
| 22.      | 900-3916-62         | Swivel Discharge & Discharge Flipper Control Valve        |
| 23.      | 900-3925-18         | Flipper Check Valve                                       |
| 24.      | 900-3928-16         | Discharge Flipper Cylinder                                |
| 25. a.   | 980-100121          | In-Line Pressure Check Kit - With Autofeed (Not Shown)    |
| b.       | 980-100122          | In-Line Pressure Check Kit - Without Autofeed (Not Shown) |

\*\* Hydraulic components, fittings, hoses will vary depending on optional equipment.

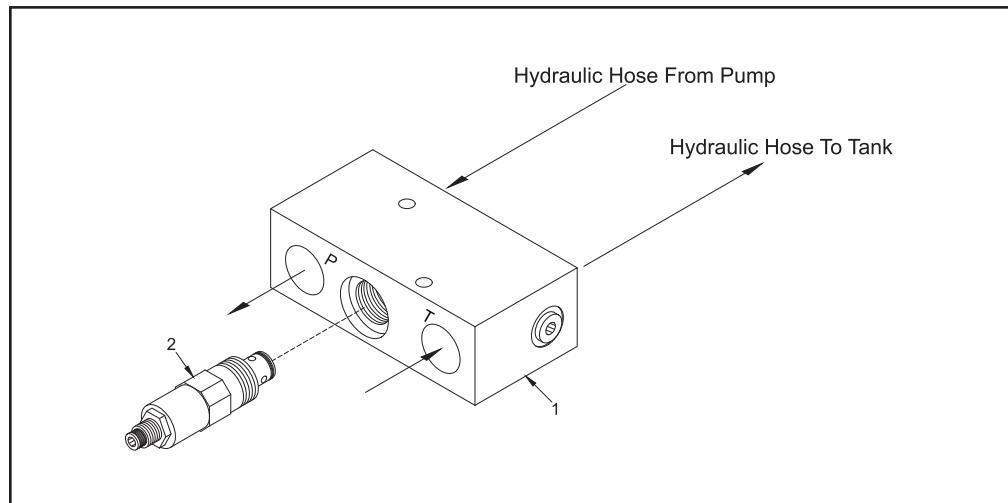
Order by physical description.

\*\* Hydraulic pumps need to be ordered by physical description and serial number of machine.

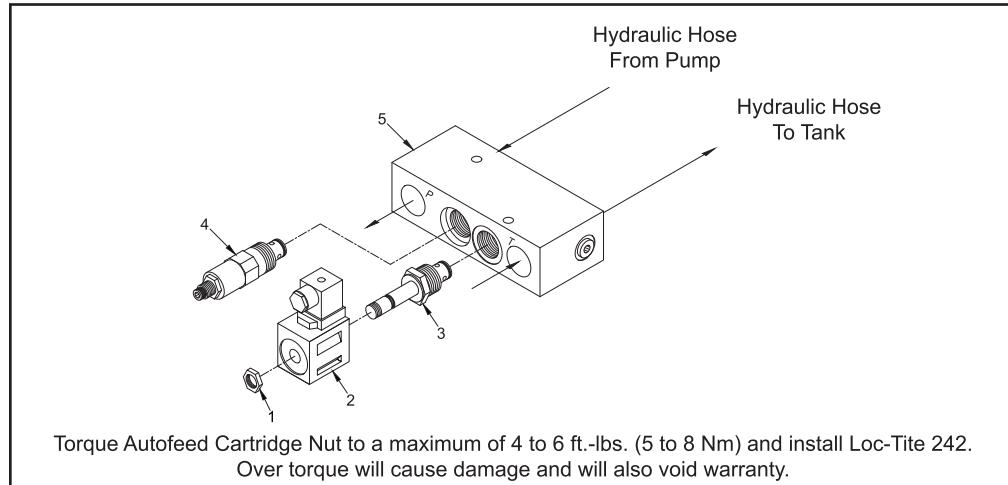
**NOTICE** The Model 1390STD was built until 8/13.

**NOTICE** Make sure to order components according to fitting type, fittings may vary on all components.

**NOTICE** Parts may not be exactly as shown.

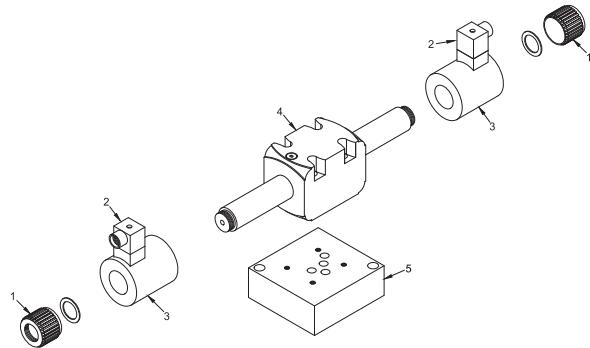
**MAIN RELIEF BLOCK**

| LOCATION | PART NUMBER | DESCRIPTION                                     |
|----------|-------------|---|
| 1.       | N/A         | Main Relief Block Only                          |
| 2.       | 900-3919-96 | Main Relief Only                                |
| 3.       | 900-3923-46 | Main Relief Block Assembly (Includes #'s 1 & 2) |

**DUMP VALVE RELIEF BLOCK**

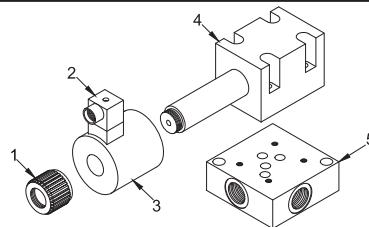
| LOCATION | PART NUMBER | DESCRIPTION                            |
|----------|-------------|--|
| 1.       | N/A         | Autofeed Block Only                    |
| 2.       | 900-3923-43 | Autofeed Cartridge Only                |
| 3.       | 900-3923-44 | 12 Volt Autofeed Solenoid Only         |
| 4.       | 900-3919-96 | Main Relief Only (Danfoss)             |
| 5. a.    | 900-3923-45 | Autofeed Block Assembly With Relief    |
| 5. b.    | 900-3923-37 | Autofeed Block Assembly Without Relief |

**NOTICE** Parts may not be exactly as shown.

**"AUTOFEED PLUS" VALVE (DUAL SOLENOID)**

Torque Retainer Nut to a maximum of 4 to 6 ft.-lbs. (5 to 8 Nm) and install Loc-Tite 242.  
Over torque will cause damage and will also void warranty.

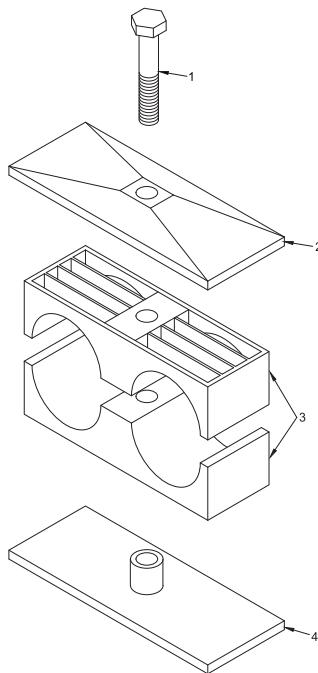
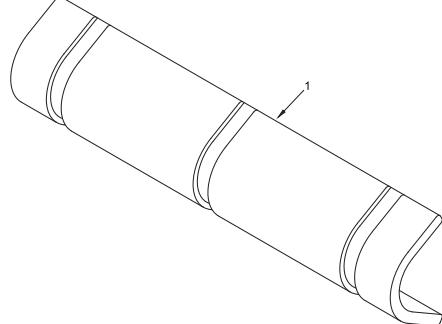
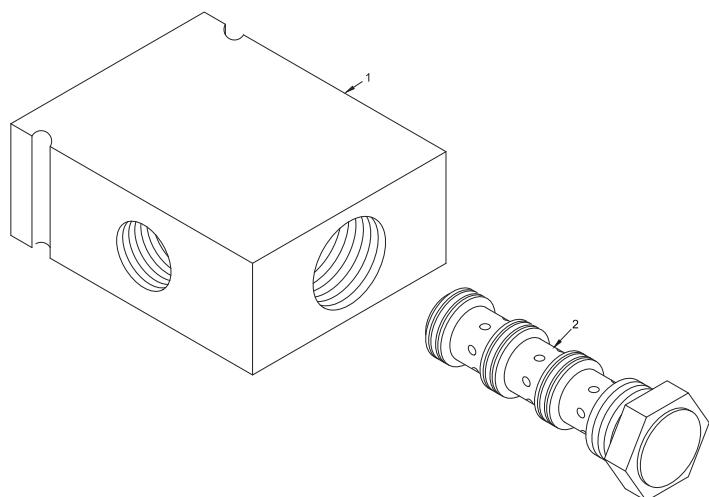
| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 900-3920-20 | Retainer Nut and Sealing Ring (Danfoss)             |
| 2.       | 900-2909-55 | Herschman Connector Only                            |
| 3.       | 900-3983-36 | Solenoid Only (Danfoss)                             |
| 4.       | 900-3982-41 | Dual Solenoid Assembly (Includes #'s 1,3,4, & 6)    |
| 5.       | 900-3931-30 | Autofeed Plus Subplate                              |
| 6.       | 900-3967-44 | Seal Kit For Danfoss Valve (Not Shown)              |
| 7. a.    | 900-3925-89 | 10' Cord and Molded Herschman Connector (Not Shown) |
| b.       | 900-3920-71 | 16' Cord and Molded Herschman Connector (Not Shown) |
| c.       | 900-3918-63 | 25' Cord and Molded Herschman Connector (Not Shown) |

**"AUTOFEED PLUS" VALVE (SINGLE SOLENOID)**

Torque Retainer Nut to a maximum of 4 to 6 ft.-lbs. (5 to 8 Nm) and install Vibra Tite.  
Over torque will cause damage and will also void warranty.

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 900-3920-20 | Retainer Nut and Sealing Ring (Danfoss)             |
| 2.       | 900-2909-55 | Herschman Connector Only                            |
| 3.       | 900-3920-19 | Solenoid Only (Danfoss)                             |
| 4.       | 900-3919-73 | Solenoid Assembly (Danfoss Includes #'s 1,3,4, & 5) |
| 5.       | 900-3923-34 | Autofeed Plus Relief Block Subplate (Edmore)        |
| 6.       | 4589960     | Seal Kit For Danfoss Valve (Not Shown)              |
| 7. a.    | 900-3925-89 | 10' Cord and Molded Herschman Connector (Not Shown) |
| b.       | 900-3920-71 | 16' Cord and Molded Herschman Connector (Not Shown) |
| c.       | 900-3918-63 | 25' Cord and Molded Herschman Connector (Not Shown) |

**NOTICE** Parts may not be exactly as shown.

**HOSE CLAMP****HOSE GUARD****FLOW DIVIDER**

**NOTICE** Parts may not be exactly as shown.

**HOSE CLAMP**

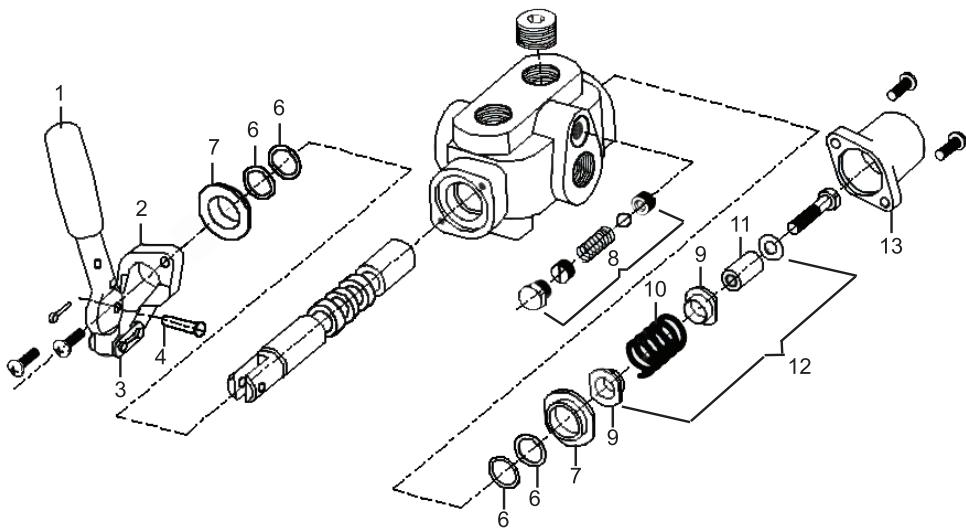
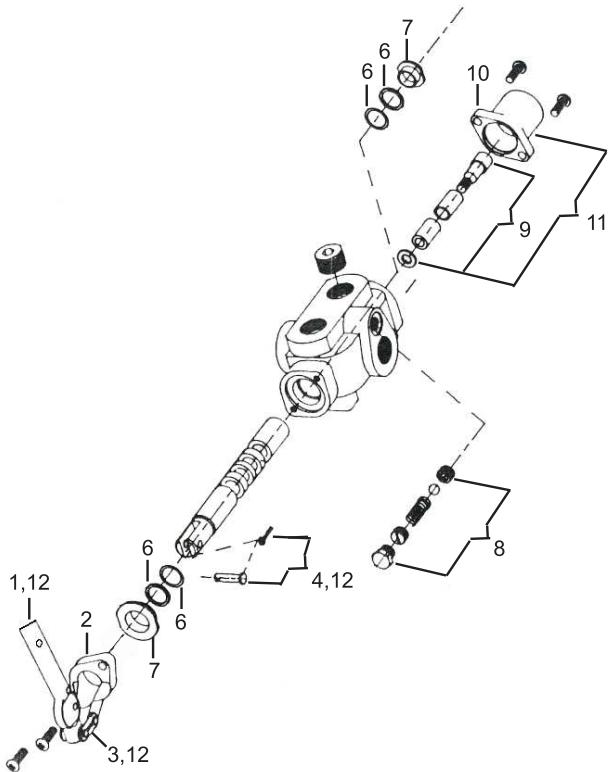
| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 900-3914-10 | Bolt for 1/2" Clamp   |
| 2.       | 900-3914-11 | Locking Plate for 1/2" Double Clamp                           |
| 3.       | 900-3926-46 | Plastic Clamp for 1/2" Double Clamp                           |
| 4. a.    | 900-3914-09 | Weld Plate for 1/4" Double Clamp                              |
| b.       | 900-3914-08 | Weld Plate for 1/2" Double Clamp                              |
| c.       | 900-3926-47 | Weld Plate for 3/4" Double Clamp                              |
| 5. a.    | 900-3917-25 | 1/4" Double Clamp Assembly (Includes #'s 1-4)                 |
| b.       | 900-3926-44 | 3/8" Double Clamp Assembly (Includes #'s 1-4)                 |
| c.       | 900-3928-19 | 1/2" Single Clamp Assembly (Includes #'s 1-4)                 |
| d.       | 900-3914-02 | 1/2" Single Clamp Assembly For Steel Lines (Includes #'s 1-4) |
| e.       | 900-3915-61 | 1/2" Double Clamp Assembly (Includes #'s 1-4)                 |
| f.       | 900-3913-32 | 1/2" Double Clamp Assembly For Steel Lines (Includes #'s 1-4) |
| g.       | 900-3914-03 | 3/4" Single Clamp Assembly (Includes #'s 1-4)                 |
| h.       | 900-3914-07 | 3/4" Double Clamp Assembly (Includes #'s 1-4)                 |
| i.       | 900-3914-04 | 1" Single Clamp Assembly (Includes #'s 1-4)                   |
| j.       | 900-3914-05 | 1 1/4" Single Clamp Assembly (Includes #'s 1-4)               |
| k.       | 900-3914-06 | 1 1/2" Single Clamp Assembly (Includes #'s 1-4)               |
| 6. a.    | 900-3914-10 | Stacking Bolt for 1/2" Double Clamp (Not Shown)               |
| b.       | 900-3920-11 | Stacking Bolt for 3/4" Double Clamp (Not Shown)               |

**HOSE GUARD**

| LOCATION | PART NUMBER | DESCRIPTION          |
|----------|-------------|----------------------|
| 1. a.    | 900-3934-76 | Hose Guard - 4" Long |
| b.       | 900-3934-77 | Hose Guard - 6" Long |
| c.       | 900-3934-78 | Hose Guard - 8" Long |

**FLOW DIVIDER**

| LOCATION | PART NUMBER | DESCRIPTION                 |
|----------|-------------|-----------------------------|
| 1.       | 900-3977-41 | Flow Divider Body Only      |
| 2.       | 900-3934-30 | Flow Divider Cartridge Only |

**TYPICAL SPRING LOADED CONTROL VALVE****TYPICAL FEEDWHEEL CONTROL VALVES**

**NOTICE** Parts may not be exactly as shown.

**TYPICAL SPRING LOADED CONTROL VALVE COMPONENTS**

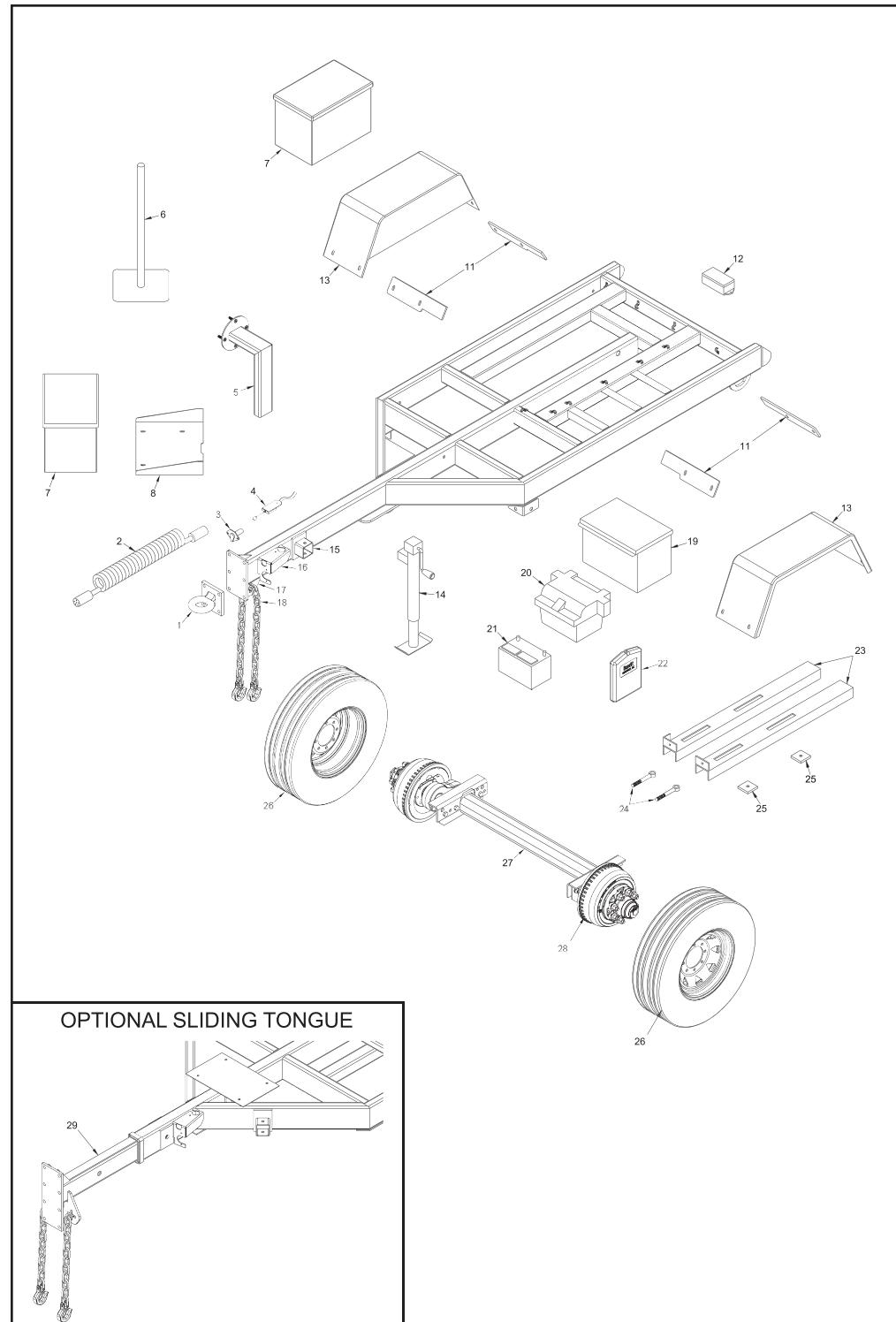
| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 904-0003-29 | Handle Only (Long)  |
| 2.       | 900-3905-95 | Valve Bracket Only With Screws  |
| 3.       | 904-0003-30 | Master Link Only Control Valve  |
| 4.       | 904-0003-31 | Pin And Cotter Key For Control Valve                                      |
| 5.       | 904-0003-32 | Bracket, Handle And Chain Link<br><b>NOTE:</b> INCLUDES #'s 1, 2, 3, 4    |
| 6.       | 900-3937-34 | Seal Kit For Control Valve  |
| 7.       | 904-0003-33 | Seal Retainer For Control Valve<br><b>NOTE:</b> NOT INCLUDED IN SEAL KIT  |
| 8.       | 900-3901-12 | Relief Valve Kit - Spring, Ball, Screw<br><b>NOTE:</b> SOLD ONLY AS A KIT |
| 9.       | 904-0003-34 | Valve Spool Stop For Spring Loaded Valve                                  |
| 10.      | 904-0003-35 | Valve Spool Spring  |
| 11.      | 904-0003-36 | Valve Spacer For Yoke Lift Valve  |
| 12.      | 900-A-2941  | Spring Center Kit For Spring Loaded Valve                                 |
| 13.      | 904-0003-37 | Detent Cap Only For Spring Loaded Valve (Short)                           |

**TYPICAL FEEDWHEEL CONTROL VALVE COMPONENTS**

| LOCATION | PART NUMBER  | DESCRIPTION   |
|----------|--------------|---|
| 1.       | 900-3905-95H | Handle Only (Short)   |
| 2.       | 900-3905-95  | Valve Bracket Only With Screws  |
| 3.       | 904-0003-30  | Master Link Only Control Valve  |
| 4.       | 904-0003-31  | Pin And Cotter Key For Control Valve                                      |
| 5.       | 904-0003-32  | Bracket, Handle And Chain Link<br><b>NOTE:</b> INCLUDES #'s 1, 2, 3, 4    |
| 6.       | 900-3937-34  | Seal Kit For Control Valve  |
| 7.       | 904-0003-33  | Seal Retainer For Control Valve<br><b>NOTE:</b> NOT INCLUDED IN SEAL KIT  |
| 8.       | 900-3901-12  | Relief Valve Kit - Spring, Ball, Screw<br><b>NOTE:</b> SOLD ONLY AS A KIT |
| 9.       | 900-3900-71  | Detent Kit For Feedwheel Control Valve<br><b>NOTE:</b> SOLD ONLY AS A KIT |
| 10.      | 900-390071C  | Detent Cap Only With Screws (Long)  |
| 11.      | 900-3900-71E | Detent Kit With Cap And Screws<br><b>NOTE:</b> INCLUDES #'s 9 & 10        |
| 12.      | 900-3905-59  | Handle, Pin, and Link<br><b>NOTE:</b> INCLUDES #'s 1, 3, & 4              |

**CONTROL VALVES**

| LOCATION | PART NUMBER  | DESCRIPTION  |
|----------|--------------|--|
| 1.       | 900-3927-73  | Yoke Lift Control Valve for Dual Control Yoke Lift |
| 2.       | 900-3920-01  | Winch, Hyd. Swivel Discharge, and Tongue Jack      |
| 3.       | 900-3920-06A | Feedwheel Control Valve With Relief                |
| 4.       | 900-3920-05A | Feedwheel Control Valve Without Relief             |



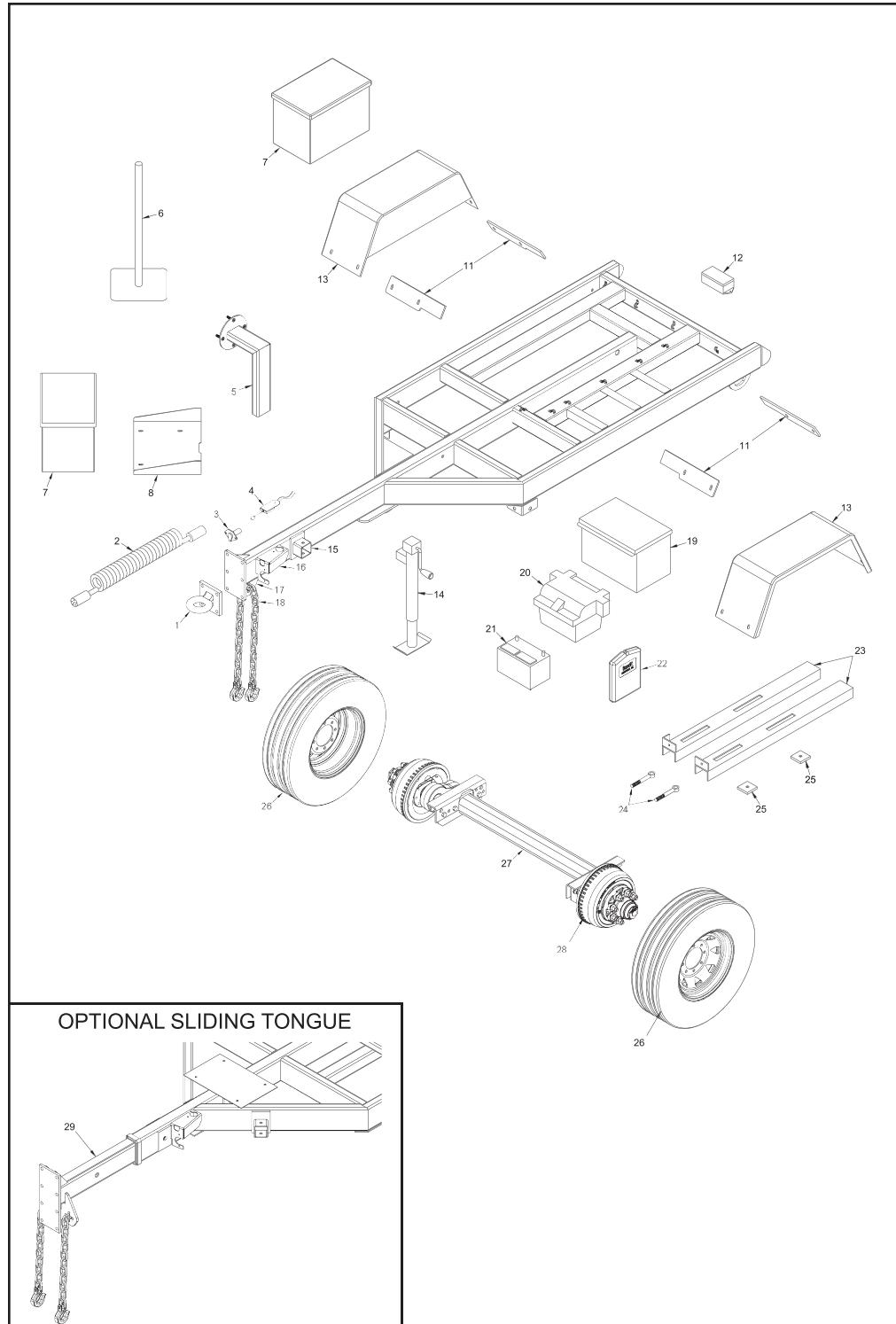
**NOTICE** Parts may not be exactly as shown.

| LOCATION | PART NUMBER  | DESCRIPTION  |
|----------|--------------|--|
| 1. a.    | 900-5900-13  | 2 1/2" Heavy Duty Pintle Ring Hitch                              |
| b.       | 900-5905-73  | 3" Heavy Duty Pintle Ring Hitch                                  |
| c.       | 980-0505-33  | 2 5/16" Ball Coupler Assembly                                    |
| d.       | 980-0501-47  | 2" Ball Coupler Assembly   |
| e.       | *--*         | Other Hitch Options Available                                    |
| 2. a.    | 900-2916-63  | Coil Cable Assembly With 6 Prong Plugs - 15'                     |
| b.       | 900-2904-12  | 6-Prong Trailer Plug Male Plug Only                              |
| 3.       | 900-2904-13  | 6-Prong Trailer Plug Female Plug Only                            |
| 4.       | 900-5900-09  | Electrical Breakaway Switch                                      |
| 5.       | 915-2000-29  | Optional Spare Tire Mount  |
| 6. a.    | 980-200202   | Optional Cone Holder   |
| b.       | 980-200215   | Optional Bolt-On Cone Holder (Not Shown)                         |
| c.       | 905-2001-03  | Optional Weld-On Hoop Style Cone Holder (Not Shown)              |
| d.       | 911-2001-42  | Optional Bolt-On Hoop Style Cone Holder (Not Shown)              |
| e.       | 900-7900-86  | Cap For Cone Holder (Not Shown)                                  |
| 7. a.    | 900-7900-78  | Aluminum Tool Box - 18" Wide                                     |
| b.       | 900-7901-63  | Aluminum Tool Box - 19" Wide                                     |
| c.       | 980-0508-37  | Steel Tool Box   |
| 8.       | 980-300407   | Tool Box Mount   |
| 9. a.    | 900-2927-86  | LED Amber Marker Light - 3/4" Round                              |
| b.       | 900-2915-97  | LED Amber Marker Light - Oval                                    |
| 10. a.   | 900-5904-43  | Aluminum Fender  |
| b.       | 981-2001-08  | Right Side Heavy Duty Aluminum Fender                            |
| c.       | 980-0506-81  | Right Side Heavy Duty Steel Weld-On Fender                       |
| d.       | 937-2003-68  | Heavy Duty Steel Bolt-On Fender                                  |
| 11. a.   | 911-3001-90  | Aluminum Fender Mount - 10,000 lb Axle                           |
| b.       | 911-1002-84  | Aluminum Fender Mount - 8000 lb Axle                             |
| c.       | 980-0128-14  | Aluminum Fender Mount - 7000 lb Axle                             |
| 12.      | 900-2902-41  | Junction Box for Wiring  |
| 13. a.   | 900-5904-43  | Aluminum Fender  |
| b.       | 981-2001-08  | Left Side Heavy Duty Aluminum Fender                             |
| c.       | 980-0509-23  | Left Side Heavy Duty Steel Weld-On Fender                        |
| d.       | 937-2003-68  | Heavy Duty Steel Bolt-On Fender                                  |
| 14. a.   | 900-5908-17  | 8,000 Lbs. Drop Leg Jack - Zinc                                  |
| b.       | 980-1002-12  | 8,000 Lbs. Jack With HD Castor Wheel - Zinc                      |
| c.       | 900-5908-44  | 5,000 Lbs. Side Crank Jack - Zinc - Square Mount                 |
| 15. a.   | 900-5905-71  | Mount For 8,000 Lbs. Drop Leg Jack                               |
| b.       | 980-0127-44  | Pin For 8,000 Lbs. Drop Leg Jack (Not Shown)                     |
| c.       | 900-5905-71  | Pivot Mount For 5,000 Lbs. Jack - Square Mount                   |
| 16.      | 980-300106   | Trailer Plug Receptacle Mount                                    |
| 17.      | 980-0121-31  | Safety Chain Holder  |
| 18. a.   | 900-4912-70  | Safety Chain With Hooks and Spring Latches for Standard Tongue   |
| b.       | 900-4908-01  | Safety Chain With Hooks and Spring Latches for Telescopic Tongue |
| c.       | 900-4905-77  | Hook For Safety Chain  |
| 19. a.   | 900-7900-78B | Optional Aluminum Battery Box - 18" Wide                         |
| b.       | 900-7901-63B | Optional Aluminum Battery Box - 19" Wide                         |
| c.       | 914-0501-46  | Steel Battery Box for 1400 CCA Battery                           |
| 20.      | 900-7900-08  | Plastic Battery Liner Box for 1000 CCA Battery                   |

\*\* Order Brake Hub and Drum Assembly According to Axle Type.  
(Grease Type, Oil Type, Never Lube Type).

\*-\* Engine Rails and Adjusters Will Vary Depending on Engine and Component Options.  
Order By Serial Number of Chipper or Physical Description.

**NOTICE** Other fenders and fender stone shields are optional.



**NOTICE** Parts may not be exactly as shown.

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 21. a.   | 900-6915-42 | 1000 CCA Battery  |
| b.       | 900-6907-88 | 1400 CCA Battery  |
| 22. a.   | 900-9910-28 | Manual Holder - 8" x 11" x 2"   |
| b.       | 900-9902-07 | Manual Holder - 10" x 12-1/2" x 2" (Stored In Tool Box)   |
| 23.      | *_*         | Engine Rails  |
| 24. a.   | 900-4905-11 | Engine Adjuster Rod End - 5/8"-11NC x 6"  |
| b.       | 900-4902-29 | Engine Adjuster Rod End - 1/2"-13NC x 6"  |
| c.       | 900-4902-28 | Engine Adjuster Rod End - 1/2"-13NC x 8 1/2"  |
| 25. a.   | 922-0003-38 | Engine Mount Pad For 1/2" Engine Hold Down  |
| b.       | 980-0101-33 | Engine Mount Pad For 5/8" Engine Hold Down  |
| 26. a.   | 900-5904-76 | 235/75R-17.5" Tire and Solid Gray, 8-Bolt Rim   |
| b.       | 900-5908-81 | 235/75R-17.5" Tire and Aluminum, 8-Bolt Rim   |
| c.       | 900-5904-48 | 235/75R-17.5" Tire Only   |
| d.       | 900-5904-49 | 17" x 6.75" Solid Gray, 8-Bolt Rim Only   |
| e.       | 900-5908-78 | 17" x 6.75" Aluminum, 8-Bolt Rim Only   |
| f.       | 900-5908-39 | 215/75R-17.5" Tire and Solid Gray, 8-Bolt Rim (Start 8/06)  |
| g.       | 900-5908-80 | 215/75R-17.5" Tire and Aluminum, 8-Bolt Rim   |
| h.       | 900-5903-54 | 215/75R-17.5" Tire Only   |
| i.       | 900-5905-03 | 235/85R-16" Tire and White Spoke, 8-Bolt Rim (Pre 8/06)   |
| j.       | 900-5905-01 | 235/85R-16" Tire Only   |
| k.       | 900-5904-22 | 16" x 6" White Spoke, 8-Bolt Rim Only   |
| 27. a.   | 900-5910-70 | 10,000 Lb. Torflex Axle Assembly - Electric Brake (0° Down Trail)<br>(Models 15XP/1390HD) (Start 9/12)  |
| b.       | 900-5910-23 | 10,000 Lb. Torflex Axle Assembly - Electric Brake (45° Down Trail)<br>(Models 15XP/1390HD) (Start 9/12) |
| c.       | 900-5910-65 | 10,000 Lb. Leaf Spring Assembly - Electric Brake<br>(Models 15XP/1390HD) (Start 9/12)                   |
| d.       | 900-5910-25 | 8,000 Lb. Torflex Axle Assembly - Electric Brake (Model 1390STD) (Start 9/12)                           |
| e.       | 900-5909-36 | 8,000 Lb. Torflex Axle Assembly - Electric Brake (Model 1390STD) (Start 9/12)                           |
| f.       | 900-5905-60 | 7,000 Lb. Torflex Axle Assembly - Electric Brake (Pre 6/12)   |
| 28.      | **          | Brake Hub And Drum Assembly   |
| 29.      | 981-0501-18 | Telescopic Tongue Assembly - 20" Adjustment   |
| 30.      | 900-2915-98 | LED Red Marker Light - Oval (Not Shown)   |
| 31. a.   | 980-0508-25 | Optional Wheel Chock Holders Aluminum Bolt-On (Not Shown)   |
| b.       | 980-0118-61 | Optional Wheel Chock Holders Metal Weld-On (Not Shown)  |
| 32.      | 900-5902-32 | Optional Rubber Wheel Chock (Not Shown)   |
| 33.      | 900-5904-52 | Optional Safety Marker For Fenders (Not Shown)  |
| 34.      | 900-7900-48 | Optional Mud Flap (Not Shown)   |
| 35. a.   | 900-9904-94 | Optional Vice (Not Shown)   |
| b.       | 980-300113  | Optional Weld-On Vice Mount (Not Shown)   |
| 36. a.   | 900-5904-59 | 5/8"-18NF Wheel Flange Nut  |
| b.       | 900-5910-82 | 9/16"-18NF Cone Nut   |

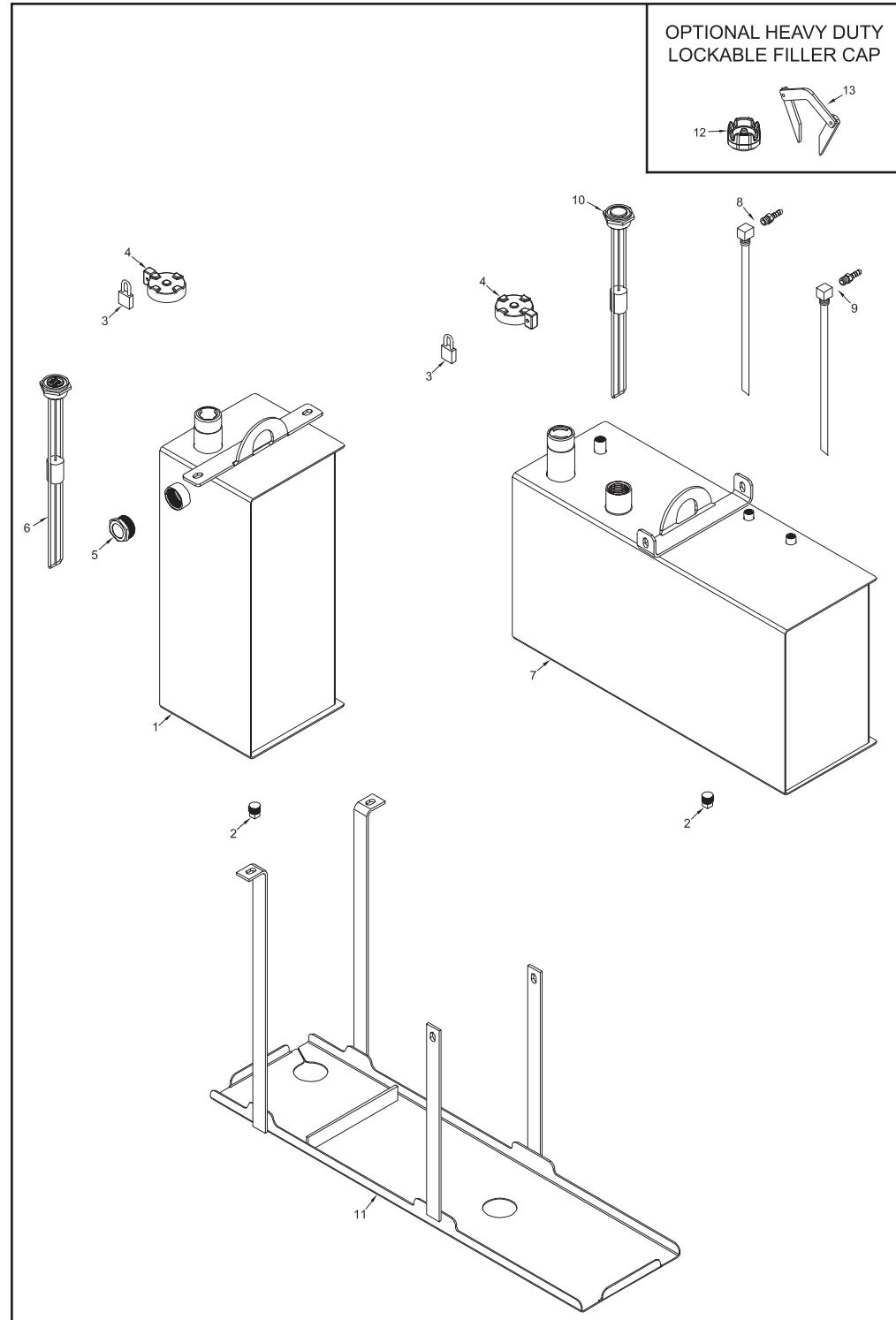
\*\* Order Brake Hub And Drum Assembly According To Axle Type.

(Grease Type, Oil Type, Never Lube Type).

\*-\* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.

Order By Serial Number Of Chipper Or Physical Description.

**NOTICE** Other fenders and fender stone shields are optional.



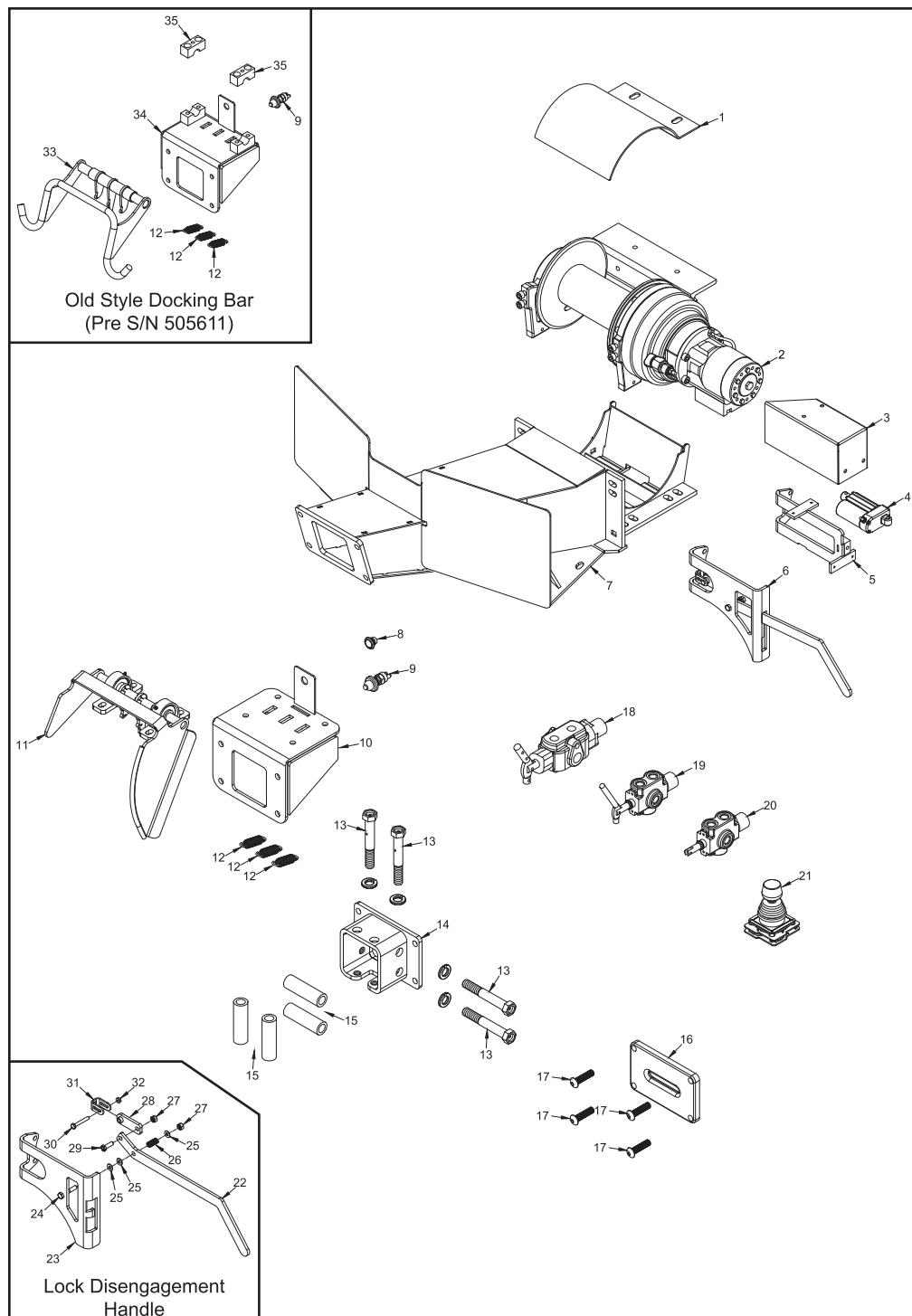
**NOTICE** Parts may not be exactly as shown.

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1. a.    | 909-1000-25 | 12 Gallon Rectangle Hydraulic Tank Assembly (Includes 2 - 5)                  |
| b.       | 909-2000-08 | 12 Gallon Rectangle Hydraulic Tank Assembly                                   |
| 2.       | 900-3922-60 | Magnetic Drain Plug   |
| 3. a.    | 900-4912-40 | Padlock With Short Shackle For Tank With Locking Cap                          |
| b.       | 900-4917-21 | Key For Padlock (Not Shown)   |
| 4. a.    | 900-3934-55 | Hydraulic Locking Fill Cap - Black  |
| b.       | 900-3934-56 | Fuel (Diesel) Locking Fill Cap - Green  |
| c.       | 900-3966-01 | Fuel (Gasoline) Locking Fill Cap - Red  |
| d.       | 900-3935-06 | Keeper for Locking Fill Cap (Not Shown)                                       |
| 5.       | 900-3975-03 | Sight Gauge (Start 10/15)   |
| 6. a.    | 900-2903-93 | Rochester Sight Gauge (Pre 10/15)   |
| b.       | 900-2903-55 | Face For Sight Gauge Only   |
| 7. a.    | 909-1000-24 | 24 1/2 Gallon Fuel Tank (Includes 2 - 4, 8 - 10)                              |
| b.       | 909-2000-21 | 24 1/2 Gallon Fuel Tank   |
| c.       | 915-1000-45 | Optional 40 Gallon Fuel Tank (Includes 2 - 4, 8 - 10)                         |
| d.       | 915-2000-26 | Optional 40 Gallon Fuel Tank  |
| 8. a.    | 900-3926-84 | Suction Drop Pipe Ass'y Without Hose Barb (1/2" NPTF Male x 3/8" NPTF Female) |
| b.       | 900-3926-83 | 3/8" NPTF To 1/2" Hose Barb   |
| c.       | 900-3926-82 | 3/8" NPTF To 3/8" Hose Barb   |
| d.       | 900-3931-53 | 3/8" NPTF To 5/16" Hose Barb  |
| 9. a.    | 900-3909-00 | Return Drop Pipe Ass'y Without Hose Barb (3/8" NPTF Male x 1/4" NPTF Female)  |
| b.       | 900-3925-48 | 1/4" NPTF To 3/8" Hose Barb   |
| c.       | 900-3909-01 | 1/4" NPTF To 5/16" Hose Barb  |
| d.       | 900-3909-02 | 1/4" NPTF To 1/4" Hose Barb   |
| e.       | 900-3943-22 | 3/16" NPTF To 3/16" Hose Barb   |
| f.       | 900-3943-21 | 1/4" NPTF To 3/16" NPTF Bushing   |
| 10. a.   | 900-2903-95 | Rochester Sight Gauge For 24 1/2 Gallon Rectangle Fuel Tank                   |
| b.       | 900-0104-95 | Rubber Tank Pad (Not Shown)   |
| c.       | 900-7900-35 | Tank Cushion Material (Not Shown)   |
| 11.      | 909-2000-23 | Tank Tray Assembly  |
| 12.      | 900-3917-71 | Optional Fill Cap Only No Dipstick (Steel Tank)                               |
| 13.      | 980-0506-85 | Optional Fill Cap Lock Assembly For Steel Tank With 900-3917-71 Fill Cap      |

**NOTICE** Components vary with fuel type. Specify gas or diesel when ordering fuel tank components.

**NOTICE** Tank assemblies vary with options. Specify all options when ordering.

## DINAMIC WINCH



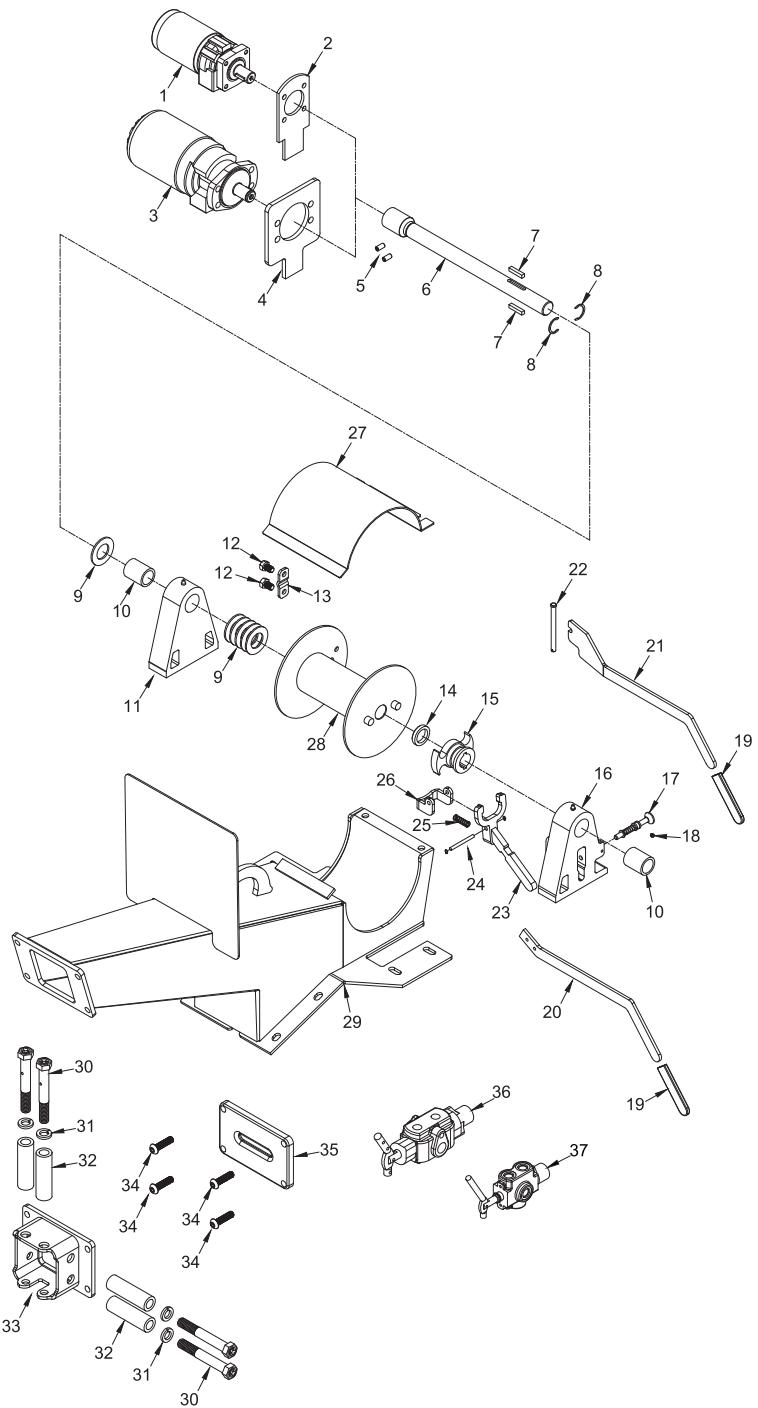
**NOTICE** Parts may not be exactly as shown.

**DINAMIC WINCH**

| LOCATION | PART NUMBER | DESCRIPTION                                      |
|----------|-------------|--|
| 1.       | 980-3012-41 | Winch Spool Cover                                |
| 2.       | 900-3974-40 | Winch  |
| 3.       | 980-3012-51 | Electric Actuator Cover                          |
| 4.       | 900-2930-89 | Electric Actuator                                |
| 5.       | 980-2004-22 | Electric Actuator Mount                          |
| 6.       | 980-2004-90 | Lock Disengagement Handle Assembly               |
| 7. a.    | 980-2004-14 | Winch Tunnel                                     |
| b.       | 911-3005-87 | Decal Plate                                      |
| 8.       | 900-2927-86 | Feed Deactivate Light                            |
| 9.       | 900-2903-07 | Limit Switch                                     |
| 10.      | 980-2005-14 | Winch Switch Frame                               |
| 11.      | 980-2005-35 | Winch Line Docking Bar                           |
| 12.      | 900-4919-82 | Spring   |
| 13. a.   | 900-4902-27 | Winch Roller Bolt                                |
| b.       | 900-4907-17 | 3/4" Lock Washer                                 |
| 14.      | 980-0505-82 | Winch Roller Assembly (Includes 12 - 13)         |
| 15.      | 914-1004-18 | Winch Roller                                     |
| 16.      | 980-3011-25 | Fairlead   |
| 17.      | 900-4923-41 | 1/2"-13NC x 2" Plated Button Head Cap Screw      |
| 18.      | 900-3920-01 | Winch Valve                                      |
| 19. a.   | 900-3936-39 | Winch Selector Control Valve                     |
| b.       | 900-3936-40 | 5/16" Replacement Stud For Selector Valve        |
| 20. a.   | 900-3956-26 | Momentary Feed Valve                             |
| b.       | 905-3002-14 | Push Plate for Momentary Feed Switch (Not Shown) |
| c.       | 900-2903-07 | Momentary Feed Push Button Switch (Not Shown)    |
| 21.      | 900-2931-26 | Feed Assist Joystick                             |
| 22.      | 980-3014-34 | Lock Disengagement Handle                        |
| 23.      | 980-3014-33 | Lock Disengagement Handle Mount                  |
| 24.      | 900-4910-78 | 5/16"-18NC x 1 3/4" Hex Head Bolt                |
| 25.      | 900-4903-59 | 1/4" Flat Washer                                 |
| 26.      | 900-4921-85 | Spring   |
| 27.      | 900-4906-45 | 5/16"-18NC Nut                                   |
| 28. a.   | 980-3014-35 | Lock Disengagement Linkage                       |
| b.       | 980-3014-36 | Linkage Bushing                                  |
| 29.      | 900-4906-37 | 5/16"-18 x 1" Hex Head Bolt                      |
| 30.      | 900-4913-36 | 1/4"-20NC x 1 3/4" Hex Head Bolt                 |
| 31.      | 980-3012-62 | Lock Disengagement Clevis                        |
| 32.      | 900-4906-32 | 1/4"-20NC Nut                                    |
| 33.      | 980-2004-48 | Winch Line Docking Bar                           |
| 34.      | 980-2004-47 | Winch Switch Frame                               |
| 35. a.   | 980-2004-51 | Bearing Block                                    |
| b.       | 900-4900-06 | Grease Zerk                                      |

**NOTICE** Nuts, bolts, washers, and all other components can be ordered by physical description.

## RKI WINCH



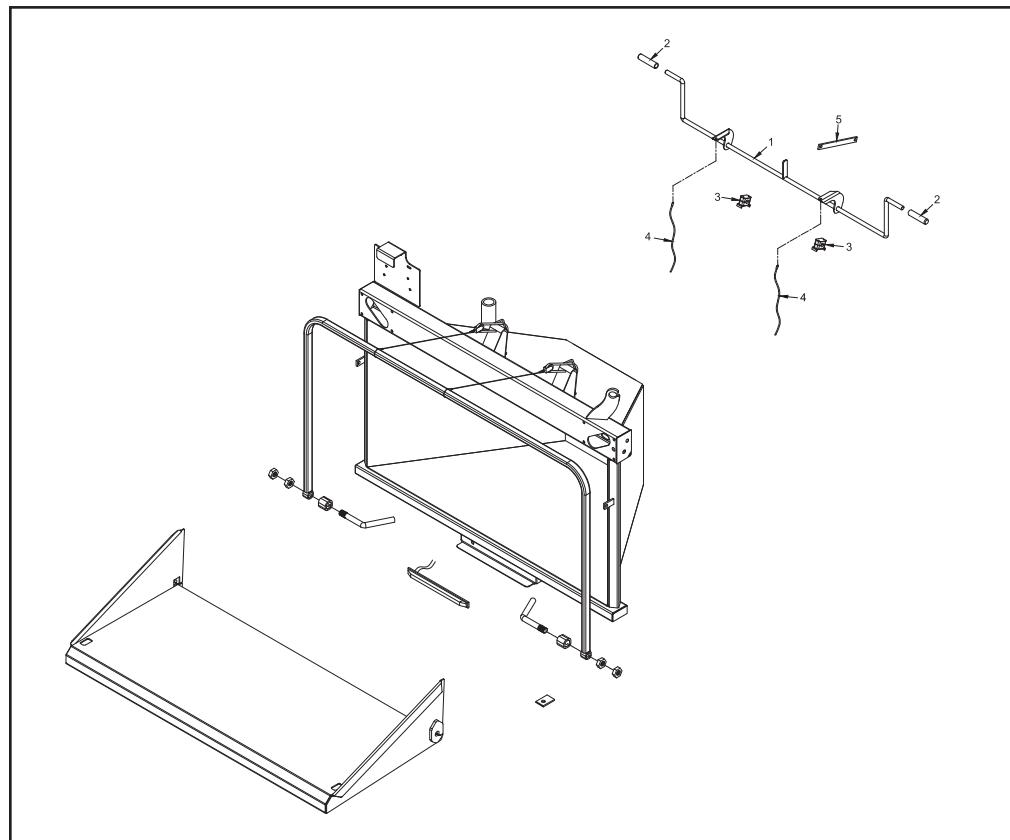
**NOTICE** Parts may not be exactly as shown.

**RKI WINCH**

| LOCATION | PART NUMBER  | DESCRIPTION  |
|----------|--------------|--|
| 1. a.    | 900-3972-06  | Winch Hydraulic Motor (SAE O-ring) "TE" - Square                     |
| b.       | 900-3973-28  | Winch Hydraulic Motor (Pipe Fitting) "TE" - Square                   |
| 2.       | 981-1001-01  | Winch Motor Torque Arm For "RS/TE" Motor                             |
| 3.       | 900-3973-39  | Winch Hydraulic Motor (SAE O-ring) "TG" - Round                      |
| 4.       | 955-1011-71  | Winch Motor Torque Arm For "RE/TG" Motor                             |
| 5.       | 900-4910-65  | 3/8"-16NC x 3/8" Cup Point Socket Set Screw                          |
| 6. a.    | 980-900002   | Winch Shaft Only   |
| b.       | 900-3905-22  | Winch Shaft With Keys  |
| 7.       | 900-3962-42  | Winch Shaft Key  |
| 8.       | 900-3963-08  | Retaining Ring   |
| 9.       | 900-3963-29  | Thrust Washer  |
| 10.      | 900-1915-24  | Bronze Bushing For A Frame Arm                                       |
| 11.      | 910-1000-08  | Steel Winch A Frame Arm (Includes 10)                                |
| 12.      | 900-3965-33  | Rope/Line Clamp Bolt - 1/2"-13NC x 3/4" Hex Head Bolt                |
| 13.      | 900-3965-32  | Rope/Line Clamp  |
| 14.      | 900-3966-71  | Clutch Spacer  |
| 15.      | 900-3905-17  | Winch Clutch   |
| 16.      | 910-1000-07  | Steel Winch A Frame Arm (Includes 10)                                |
| 17.      | 900-3905-14  | Winch Release Lever Pin Assembly                                     |
| 18.      | 900-3970-52  | Set Screw for Winch Release Lever Pin                                |
| 19.      | 900-9904-59  | Vinyl Cap for Handle Extension (If Applicable)                       |
| 20.      | 955-300376   | Winch Shift Lever Extension (If Applicable)                          |
| 21.      | 955-300377   | Lock Pin Handle Extension (If Applicable)                            |
| 22.      | 900-4913-00  | Pivot Pin For Winch Handle Extension (If Applicable)                 |
| 23. a.   | 900-3959-59  | Winch Shift Lever Only   |
| b.       | 900-3905-16  | Winch Shift Lever (Includes 25 & 26)                                 |
| 24. a.   | 900-3961-21  | Winch Pin for Brake Assembly   |
| b.       | 900-3958-59  | Snap Ring for Winch Pin  |
| 25.      | 900-3958-61  | Winch Spring   |
| 26.      | 900-3964-49  | Winch Brake Shoe Only  |
| 27.      | 980-300260   | Winch Drum Cover   |
| 28. a.   | 900-3905-19  | Winch Drum (Includes Bushings)                                       |
| b.       | 900-3963-28  | Bushing Only For Winch Drum (Not Shown)                              |
| 29. a.   | 980-200162   | Winch Tunnel Assembly  |
| b.       | 980-3009-01  | Mount Plate  |
| c.       | 980-0137-82  | Decal Plate  |
| 30.      | 900-4902-27  | Winch Roller Bolt  |
| 31.      | 900-4907-17  | 3/4" Lock Washer   |
| 32.      | 914-1004-18  | Winch Roller   |
| 33.      | 980-0505-82  | Winch Roller Assembly (Includes 30 - 32)                             |
| 34.      | 900-4923-41  | 1/2"-13NC x 2" Plated Button Head Cap Screw                          |
| 35.      | 980-3011-25  | Fairlead   |
| 36. a.   | 900-3920-01A | Winch Valve (SAE O-rings)  |
| b.       | 900-3901-42  | Winch Valve (Pipe Fittings)  |
| 37. a.   | 900-3936-39  | Winch Selector Control Valve (Replaces 900-3920-58) (SAE O-ring)     |
| b.       | 900-3913-41  | Winch Selector Control Valve (Pipe Fitting)                          |
| c.       | 900-3936-40  | 5/16" Replacement Stud For Selector Valve (900-3936-39)              |
| d.       | 900-3924-48  | 1/4" Replacement Stud For Selector Valve (900-3920-58 & 900-3913-41) |
| 38.      | 904-0002-60  | Winch Kit - Specify Fairlead or Rollers (Includes 1 - 18, 23 - 29)   |

**NOTICE** Nuts, bolts, washers, and all other components can be ordered by physical description.

## HYDRAULIC ACTIVATED LAST CHANCE

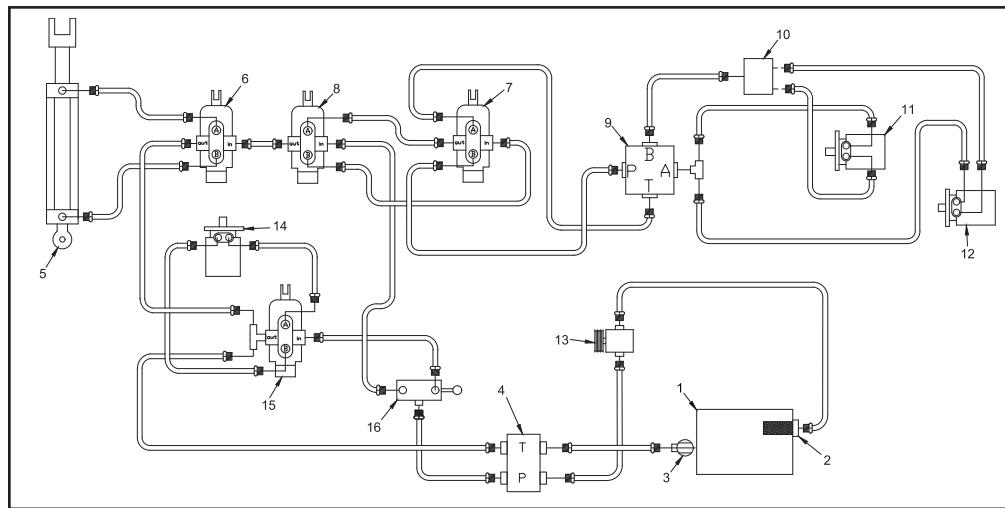


| LOCATION | PART NUMBER | DESCRIPTION                       |
|----------|-------------|-----------------------------------|
| 1.       | 980-300185  | Hydraulic Last Chance Control Bar |
| 2. a.    | 900-7900-96 | Vinyl Grip - Black                |
| b.       | 900-7901-41 | Vinyl Grip - Yellow               |
| 3.       | 900-3914-02 | Control Bar Pivot Bracket         |
| 4.       | 900-4907-43 | Cables                            |
| 5.       | 955-300054  | Linkage                           |

**NOTICE** Nuts, bolts, washers, and all other components can be ordered by physical description.

**NOTICE** Parts may not be exactly as shown.

## HYDRAULIC ACTIVATED LAST CHANCE



| LOCATION | PART NUMBER         | DESCRIPTION   |
|----------|---------------------|---|
| 1.       | See Pages 126 - 127 | Hydraulic Tank  |
| 2.       | 900-3951-22         | Hydraulic Tank Strainer                               |
| 3. a.    | 900-3900-09         | Filter Head   |
| b.       | 900-3900-10         | Filter  |
| 4.       | See Page 116        | Relief Block  |
| 5. a.    | 900-3925-04         | Yoke Lift Cylinder - Welded                           |
| b.       | 904-0007-14         | Pin For Welded Cylinder (Not Shown)                   |
| c.       | 904-0006-90         | Seal Kit - Welded Lift Cylinder (Not Shown)           |
| 6.       | 900-3927-73         | Yoke Lift Control Valve For Dual Control Yoke Lift    |
| 7.       | 900-3954-43         | Hydraulic Activated Last Chance Valve                 |
| 8.       | 900-3920-05A        | Feedwheel Control Valve Without Relief - SAE O-ring   |
| 9.       | See Page 117        | Reversing "Autofeed Plus"                             |
| 10.      | See Pages 118 - 119 | Flow Divider  |
| 11. a.   | 900-3973-17         | Top Feedwheel Hydraulic Motor (Models 15XP/1390HD)    |
| b.       | 900-3972-04         | Top Feedwheel Hydraulic Motor (Model 1390STD)         |
| 12. a.   | 900-3973-16         | Bottom Feedwheel Hydraulic Motor (Models 15XP/1390HD) |
| b.       | 900-3972-05         | Bottom Feedwheel Hydraulic Motor (Model 1390STD)      |
| 13.      | **                  | Hydraulic Pump  |
| 14.      | 900-3921-57         | Winch Motor (Optional)                                |
| 15.      | 900-3920-01         | Winch Control Valve (Optional)                        |
| 16.      | 900-3936-39         | Winch Selector Control Valve (Optional)               |

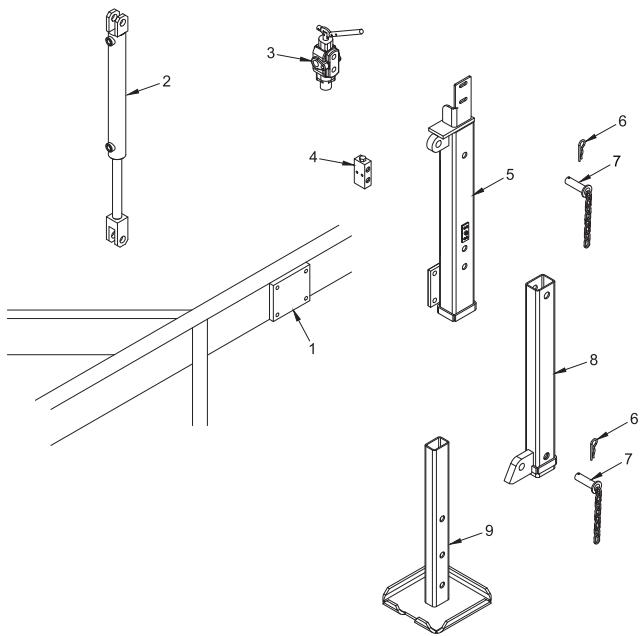
\*\* Hydraulic components, fittings, hoses will vary depending on optional equipment. Order by physical description.

\*\* Hydraulic pumps need to be ordered by physical description and serial number of machine.

**NOTICE** Make sure to order components according to fitting type, fittings may vary on all components.

**NOTICE** Parts may not be exactly as shown.

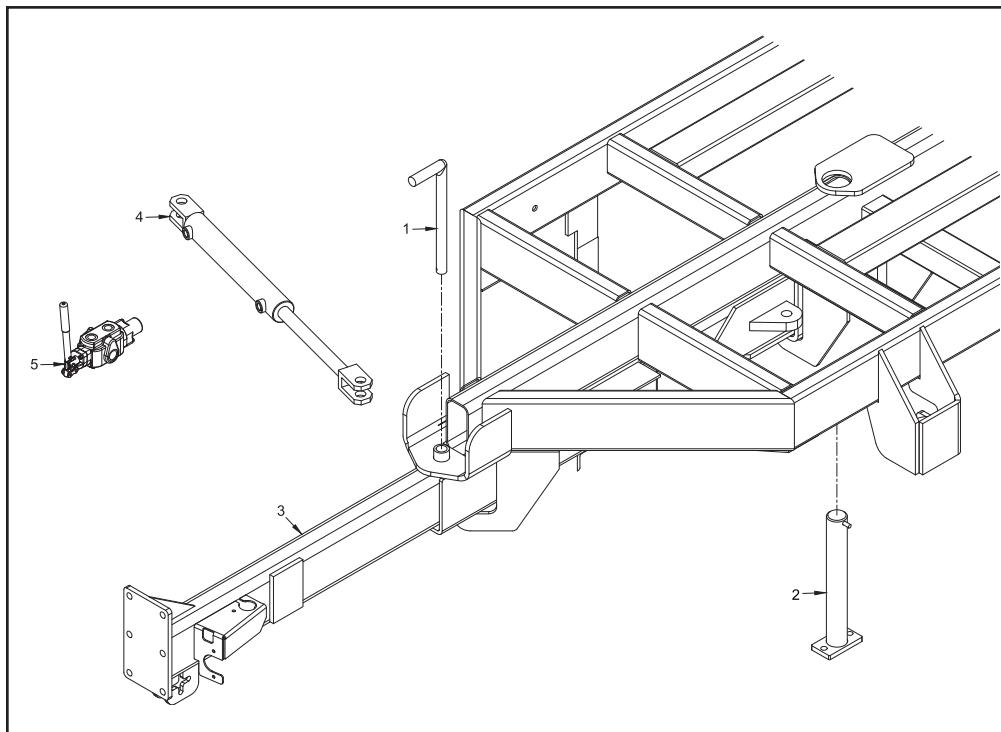
## HYDRAULIC TONGUE JACK



| LOCATION | PART NUMBER | DESCRIPTION  |
|----------|-------------|--|
| 1.       | 920-300340  | Tongue Jack Mount Plate                                |
| 2. a.    | 900-3934-24 | Tongue Jack Cylinder - Welded                          |
| b.       | 904-0007-14 | Pin For Welded Cylinder (Not Shown)                    |
| 3. a.    | 900-3920-01 | Tongue Jack Valve (SAE O-rings)                        |
| b.       | 900-3901-42 | Tongue Jack Valve (Pipe Fittings)                      |
| 4.       | 900-3949-09 | Check Valve  |
| 5.       | --          | Outside Tube Assembly                                  |
| 6.       | 900-4907-60 | Cotter Hair Pin  |
| 7.       | 914-1000-38 | Lock Pin   |
| 8.       | 980-0131-50 | Inside Tube Assembly                                   |
| 9.       | 980-0509-53 | Drop Leg Foot Pad Assembly                             |
| 10.      | 980-0509-00 | Bolt-On Hydraulic Tongue Jack Kit (Includes #'s 1 - 9) |

**NOTICE** Parts may not be exactly as shown.

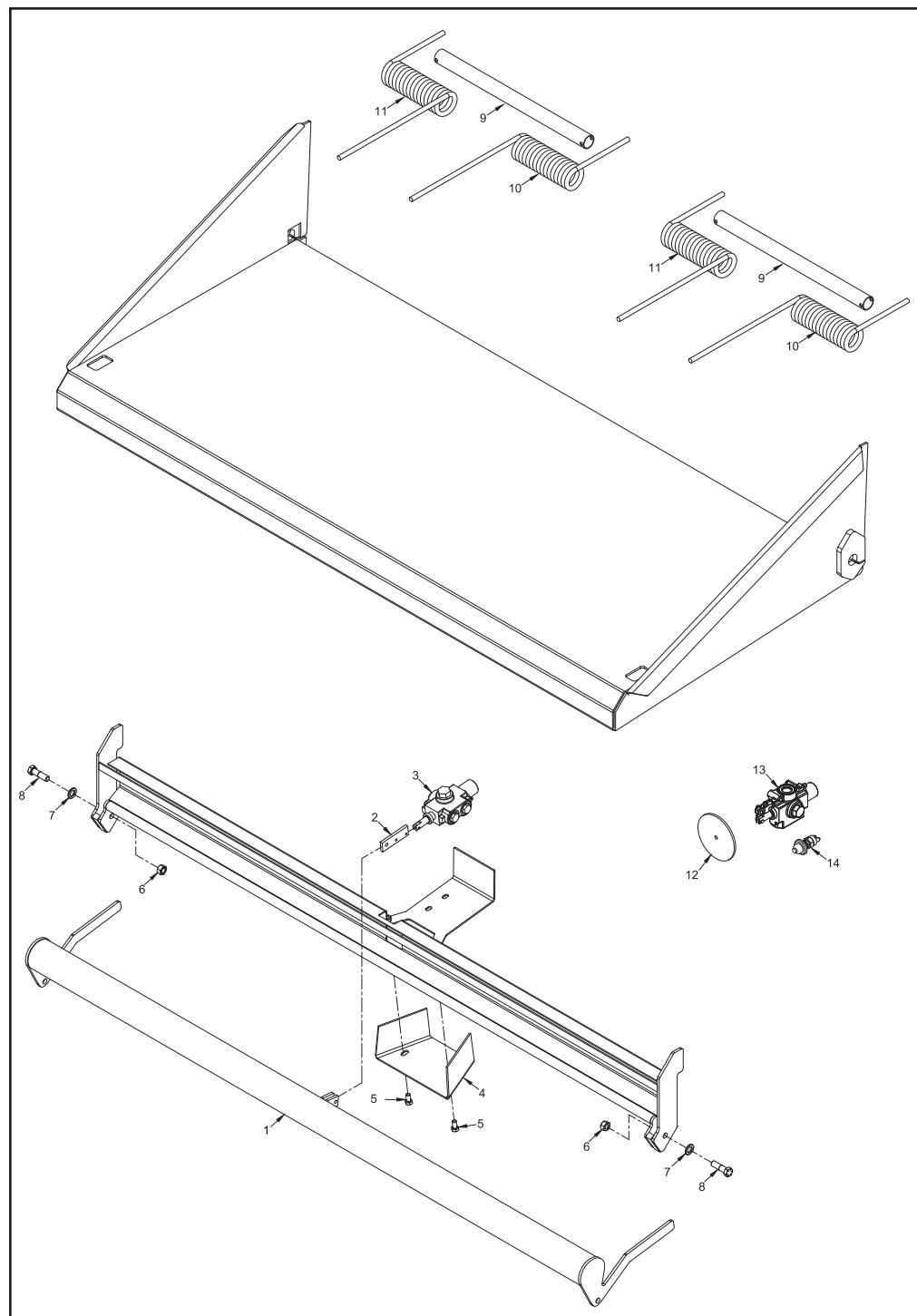
## PIVOTING TONGUE



| LOCATION | PART NUMBER  | DESCRIPTION                           |
|----------|--------------|---------------------------------------|
| 1.       | 955-1015-32A | Pivoting Lock Pin                     |
| 2.       | 980-0510-37  | Pivoting Tongue Pin                   |
| 3.       | 980-0510-45  | 6" Pivoting Tongue Assembly           |
| 4.       | 900-3906-27  | Pivoting Tongue Cylinder              |
| 5. a.    | 900-3920-01  | Pivoting Tongue Valve (SAE O-Rings)   |
| 5. b.    | 900-3901-42  | Pivoting Tongue Valve (Pipe Fittings) |

**NOTICE** Nuts, bolts, washers, and all other components can be ordered by physical description.

**NOTICE** Parts may not be exactly as shown.

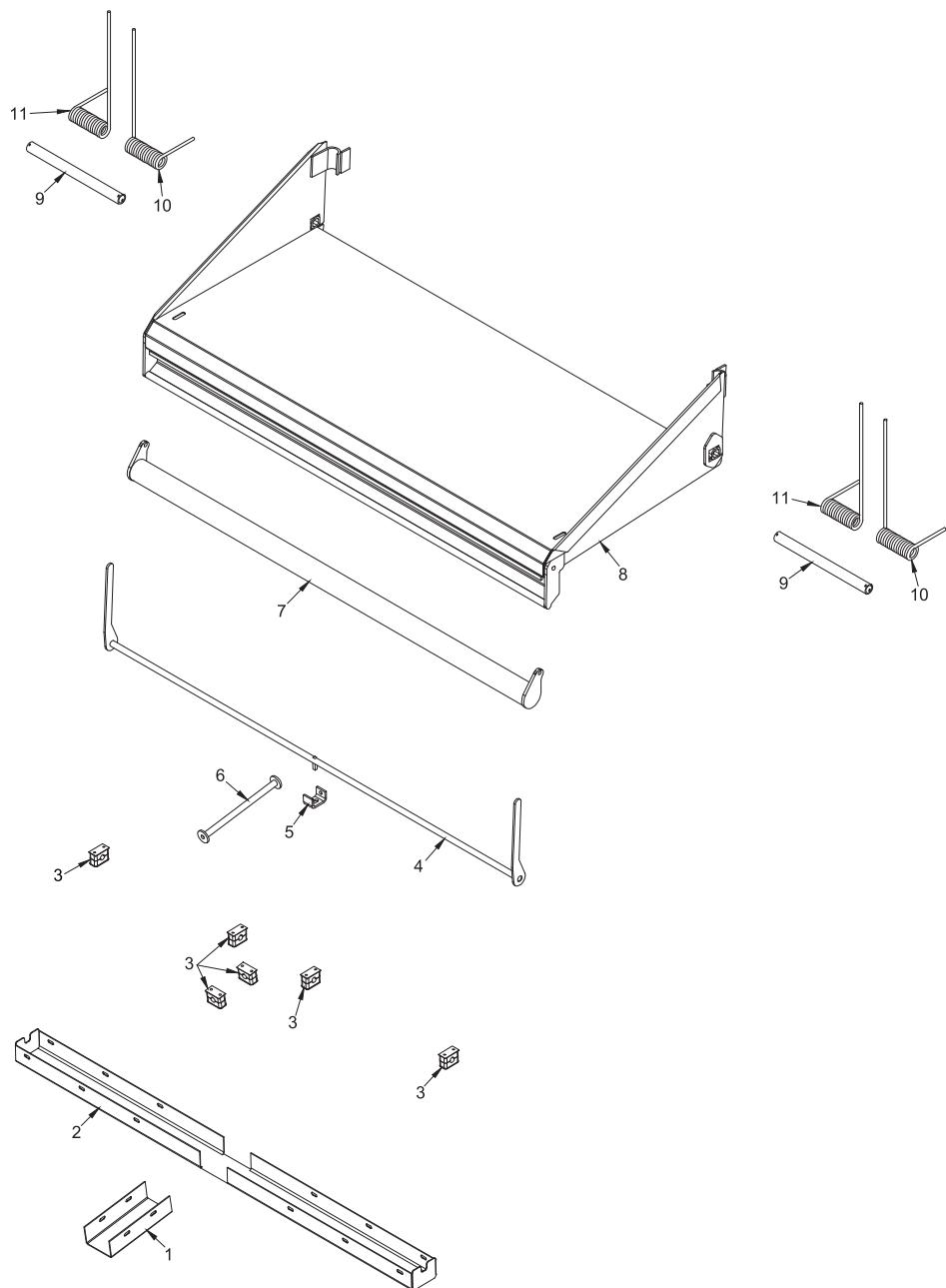
**HYDRAULIC BUMP BAR Version 2**

**NOTICE** Parts may not be exactly as shown.

**HYDRAULIC BUMP BAR Version 2**

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1. a.    | 980-2005-44 | Hydraulic Bump Bar Assembly - 35"                                     |
| b.       | 626-2002-07 | Hydraulic Bump Bar Assembly - 42"                                     |
| c.       | 980-2005-39 | Hydraulic Bump Bar Assembly - 45"                                     |
| d.       | 915-2000-73 | Hydraulic Bump Bar Assembly - 54"                                     |
| e.       | 911-2002-52 | Hydraulic Bump Bar Assembly - 64"                                     |
| 2.       | 911-3003-66 | Bump Bar Valve Linkage  |
| 3.       | 900-3956-74 | Bump Bar Valve  |
| 4.       | 915-3002-17 | Bump Bar Valve Cover  |
| 5.       | 900-4906-54 | 3/8"-16NC x 3/4" Bolt   |
| 6.       | 900-4906-84 | 1/2"-13NC Lock Nut  |
| 7.       | 900-4906-88 | 1/2" Flat Washer  |
| 8.       | 900-4906-73 | 1/2"-13 x 1 3/4" Bolt   |
| 9. a.    | 980-3011-43 | Spring Tube for Spring Assist - Single Springs                        |
| b.       | 937-3009-68 | Spring Tube for Spring Assist - Double Springs (64" Infeed Tray Only) |
| 10.      | 900-4917-76 | Left Spring for Spring Assist   |
| 11.      | 900-4917-77 | Right Spring for Spring Assist  |
| 12.      | 905-3002-14 | Push Plate for Momentary Override Switch                              |
| 13.      | 900-3956-26 | Momentary Override Valve  |
| 14. a.   | 900-2903-07 | Momentary Override Push Button Switch                                 |
| b.       | 999-8001-88 | Momentary Override Timer (Not Shown)                                  |

## HYDRAULIC BUMP BAR



**NOTICE** Parts may not be exactly as shown.

**HYDRAULIC BUMP BAR**

| LOCATION | PART NUMBER | DESCRIPTION   |
|----------|-------------|---|
| 1.       | 905-3001-99 | Valve Push Bar Cover  |
| 2. a.    | 980-2003-42 | Reset Pivot Handle Cover Assembly - 35"                     |
| b.       | 626-2001-29 | Reset Pivot Handle Cover Assembly - 42"                     |
| c.       | 905-2000-57 | Reset Pivot Handle Cover Assembly - 45"                     |
| d.       | 917-2000-22 | Reset Pivot Handle Cover Assembly - 54"                     |
| e.       | 911-2001-18 | Reset Pivot Handle Cover Assembly - 64"                     |
| 3.       | 900-3914-02 | Clamp   |
| 4. a.    | 980-2003-41 | Reset Pivot Handle Assembly - 35"                           |
| b.       | 626-2001-30 | Reset Pivot Handle Assembly - 42"                           |
| c.       | 905-2000-58 | Reset Pivot Handle Assembly - 45"                           |
| d.       | 917-2000-23 | Reset Pivot Handle Assembly - 44"                           |
| e.       | 911-2001-17 | Reset Pivot Handle Assembly - 64"                           |
| 5.       | 905-3002-08 | Bump Bar Trip Bracket                                       |
| 6.       | 905-2000-59 | Valve Push Bar Assembly                                     |
| 7. a.    | 980-2003-40 | Hydraulic Bump Bar Assembly - 35"                           |
| b.       | 626-2001-28 | Hydraulic Bump Bar Assembly - 42"                           |
| c.       | 905-2000-50 | Hydraulic Bump Bar Assembly - 45"                           |
| d.       | 917-2000-19 | Hydraulic Bump Bar Assembly - 54"                           |
| e.       | 911-2000-99 | Hydraulic Bump Bar Assembly - 64"                           |
| 8. a.    | 980-2003-37 | Bump Bar Infeed Tray Assembly - 35"                         |
| b.       | 626-2001-26 | Bump Bar Infeed Tray Assembly - 42"                         |
| c.       | 905-2000-56 | Bump Bar Infeed Tray Assembly - 45"                         |
| d.       | 917-2000-20 | Bump Bar Infeed Tray Assembly - 54"                         |
| e.       | 911-2001-13 | Bump Bar Infeed Tray Assembly - 64"                         |
| 9. a.    | 980-3011-43 | Spring Tube for Spring Assist - Single Spring (Start 4/14)  |
| b.       | 980-0129-86 | Spring Tube for Spring Assist - Single Spring (Pre 4/14)    |
| c.       | 937-3009-68 | Spring Tube for Spring Assist - Double Springs (Start 4/14) |
| d.       | 980-3010-34 | Spring Tube for Spring Assist - Double Springs (Pre 4/14)   |
| 10. a.   | 900-4917-76 | Left Spring for Spring Assist (Start 4/14)                  |
| b.       | 900-4905-39 | Left Spring for Spring Assist (Pre 4/14)                    |
| c.       | 900-4908-70 | "HD" Left Spring for Spring Assist (Pre 4/14)               |
| 11. a.   | 900-4917-77 | Right Spring for Spring Assist (Start 4/14)                 |
| b.       | 900-4905-40 | Right Spring for Spring Assist (Pre 4/14)                   |
| c.       | 900-4908-71 | "HD" Right Spring for Spring Assist (Pre 4/14)              |
| 12.      | 900-3956-74 | Bump Bar Valve (Not Shown)                                  |
| 13. a.   | 900-3956-26 | Momentary Override Valve (Not Shown)                        |
| b.       | 905-3002-14 | Push Plate for Momentary Override Switch (Not Shown)        |
| c.       | 900-2903-07 | Momentary Override Push Button Switch (Not Shown)           |
| d.       | 999-8001-88 | Momentary Override Timer (Not Shown)                        |

## **SERVICE RECORD**

**HAND FED**

**BANDIT CONTROLS**

**(FUEL SAVER)**

**(RADIO)**

**(WINCH w/ FEED ASSIST)**

**(DUMP VALVE)**

**(BUMP BAR)**

Main Page



To Start, turn key to ON position. In cold weather the engine may pre heat glow plugs or heater grid and the WAIT TO START symbol will appear on the splash screen. When pre heat is complete the Display will continue to Main Page.

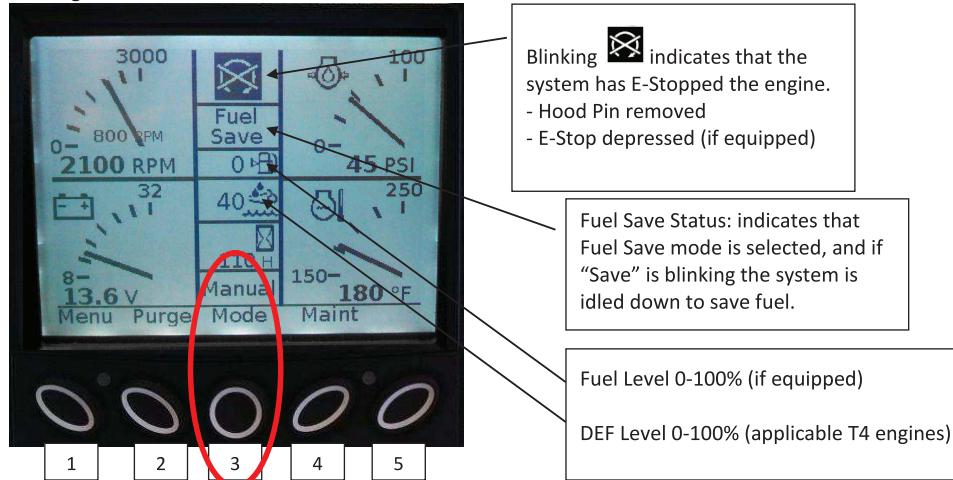
The fuse box may have a foam retainer under the cover to help hold the relays in place. The fuse decal is located under the foam.

The control panel is equipped with an Anti-Restart key switch to prevent grinding the starter while the engine is running. If the engine does not start immediately, it may be necessary to cycle the key back to the OFF position, wait 15-20sec (allow engine ECU time to shut down), and then go through the starting sequence again.

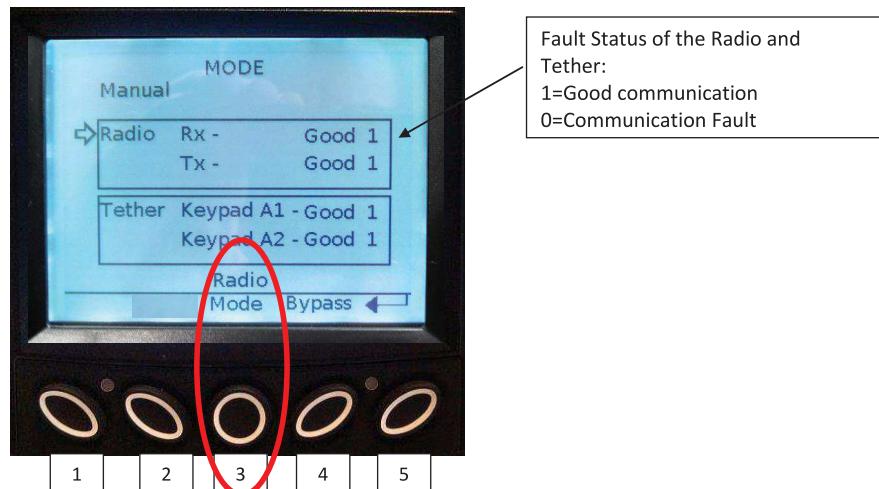
To turn off AutoFeed and run auxiliary functions at startup, navigate to the Mode page on the display and see instructions below on pages 3 and 4.



## Main Page



2. Press 'Purge' button to trigger a reverse cycle on the radiator fan (if equipped).
3. Press this button to Navigate to the Mode page and select Radio or Tether operating mode.  
(On Displays with software version 57193\_D1 (19Jun2015) and later, the Display automatically returns to this Main Engine page 60sec after last button press).

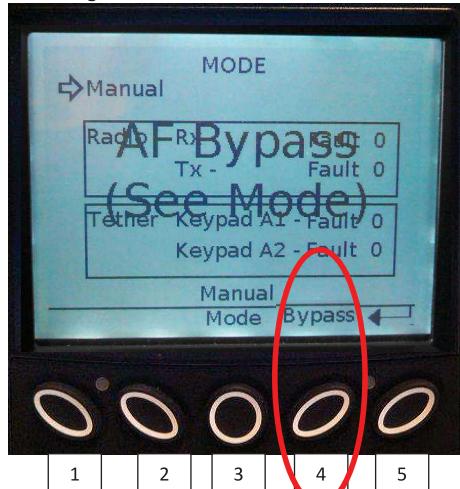


Press the Mode button to select between Manual, Radio, or Tether operating mode.

### Lost Communication:

If Controller 1 (C1) loses communication with the Display, C1 will default to Radio mode.  
If C1 loses comm with the Display AND the radio receiver, it will default to Tether Mode.  
If C1 loses comm with display and receiver and tether, it will remain in Manual mode internally. Manual Mode still allows the operator to at least start and idle and override valves manually.

### Mode Page



4. Press the "Bypass" button to manually run Feed Fwd at low Eng RPM and bypass the AutoFeed control. This will allow auxiliary functions to be operated on certain machines equipped with dump valve hydraulics. To turn AutoFeed back on, press the same "Bypass" button again. At startup, the machine always defaults to AutoFeed ON when the key is first turned on.

(A popup alert indicating the controls are in Bypass will blink on every screen because certain control features are disabled while in Bypass).

(While feeding fwd when *not* in Bypass, when you throttle down Feed Fwd will drop out and AutoRev will fire one time. However, if you are in Manual Bypass, AutoRev will momentarily fire every time the engine is throttled down past the AutoFeed Low RPM setting. This is to give the operator a chance to observe the AutoRev settings).

5. Go back.

## BANDIT CONTROLS

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### Main Page



Press the Maint button to navigate to the Maintenance Pages.

| 57744 D1 MAINT1 INPUTS       |          | 57744 C1 |
|------------------------------|----------|----------|
| C1 to Disp (CAN comm)        | 0        | 0        |
| Eng to C1 (CAN comm)         | 0        | 0        |
| FS On/Off Sw (C1-C3)         | 0        | 0        |
| Key Start (C1-C2)            | 0        | 0        |
| Hood Pin (C1-B3)             | 0        | 0        |
| Throttle Up/Dn (C1-C6,C7)    | 00       | 00       |
| Wnch-Stow-FA (C1-B7r,A3,A7)  | 00       | 00       |
| FS Throttle Up Sw (C1-B2)    | 0        | 0        |
| Bump Bar Override Sw (C1-A6) | 0        | 0        |
| E-Stop (C1-B6)               | 0        | 0        |
| Tether E-Stop Sw (C1-A2)     | 0        | 0        |
| Chip Time 0 : 0 : 0          | Maint2 ← |          |

(Software Serial Numbers)

Function Status

Error Counts

### MAINT1 INPUTS

Shows the status of communication between devices and various inputs to Controller1 (C1).

1=Good/Active

0=Bad/Inactive

The number behind many of the device status is an error count. Each time communication is lost or the status is bad this number will count up to a maximum of 15 until keyswitch is cycled and that memory is cleared.

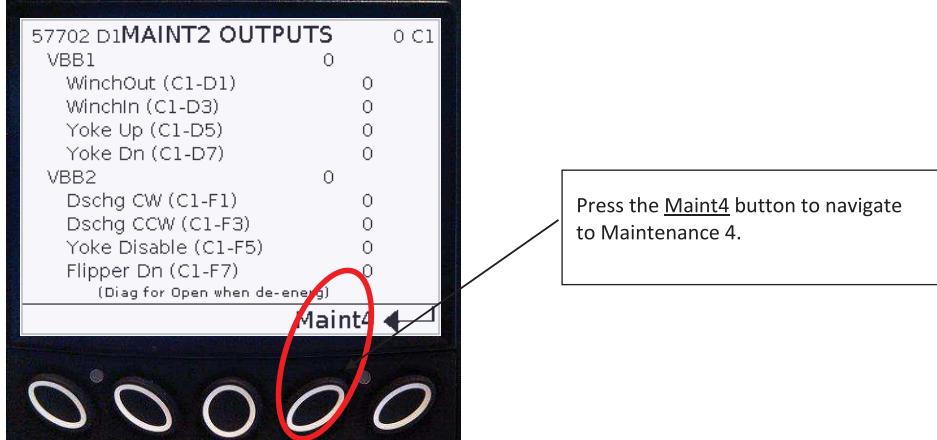
This is to provide a limited history of errors in case an operator is unable to watch this screen continuously and likely miss a status value momentarily showing 0.

(The Tether E-Stop error counter will only watch for E-Stops while in Tether Mode).

Chip Time is a measure of time accumulated when engine load is above FuelSave Load and Feeding Fwd.

57744 is 21Dec2016

### Maint Pages



### MAINT2 OUTPUTS

Shows the status of Controller1 (C1) outputs that are able to be diagnosed.

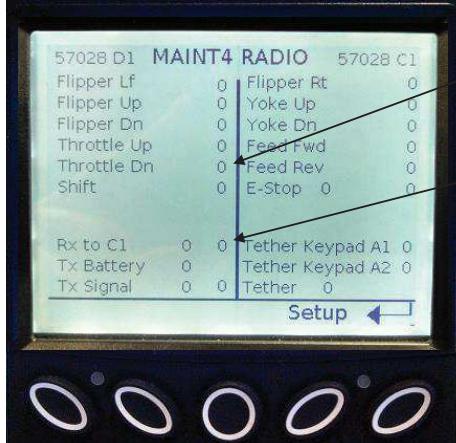
Observe the note on the screen that output wiring can only be diagnosed for open/broken connection while the output is **de-energized**.

The Outputs in Controller1 (C1) are organized into 2 groups, each group has a supply fuse. The status of each fuse is shown at the top of each group. If multiple outputs from the same group have bad (0) status, check the supply fuse for that group as well as the individual wires to each coil.

## BANDIT CONTROLS

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### Maint Pages



Input values change from 0 to 1 when that Radio function is active.

Error counts for how many times the controller has lost comm with the receiver or transmitter.

### MAINT4 RADIO

The radio and tether systems (optional on some machines) send all of their signals via CAN messages and therefore cannot be checked physically at the receivers with a voltmeter. This Maintenance screen is a tool used to function check all inputs coming from the radio and tether keypads to ensure they are working properly. With the ignition ON but ENGINE NOT RUNNING, work through each button on the radio and tether and make sure the corresponding values change. The numbers shown are raw values that the program translates into commands.

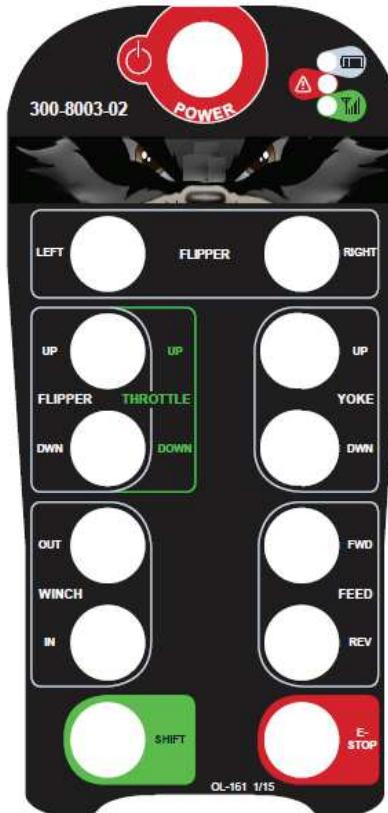
The number close behind E-Stop, Rx to C1, and Tether descriptions is an error count.

(If Fuel Saver mode is turned on and the machine idles down due to light load conditions, simply press Throttle Up and then press Feed Fwd to resume feeding).

(If the Winch Stow Switch indicates that the winch is out, Feed Fwd will stop automatically and the Radio Winch functions will be enabled. The Radio Feed Fwd button then can be used to Feed Assist on Electric Feed Assist machines. Once the Winch is properly stowed, Radio winch functions will be disabled and Feed Fwd will operate as normal to resume chipping).

The Yoke/Lift is disabled while winch is deployed. Except, Yoke/Lift can momentarily operate with Feed-Assist-Fwd. Yoke/Lift is fully enabled again once the winch is properly stowed tight on the stow bar.

When the mechanical control bar is in the reverse position a switch interrupts the FeedRev coils to prevent a double reverse which would then feed forward.

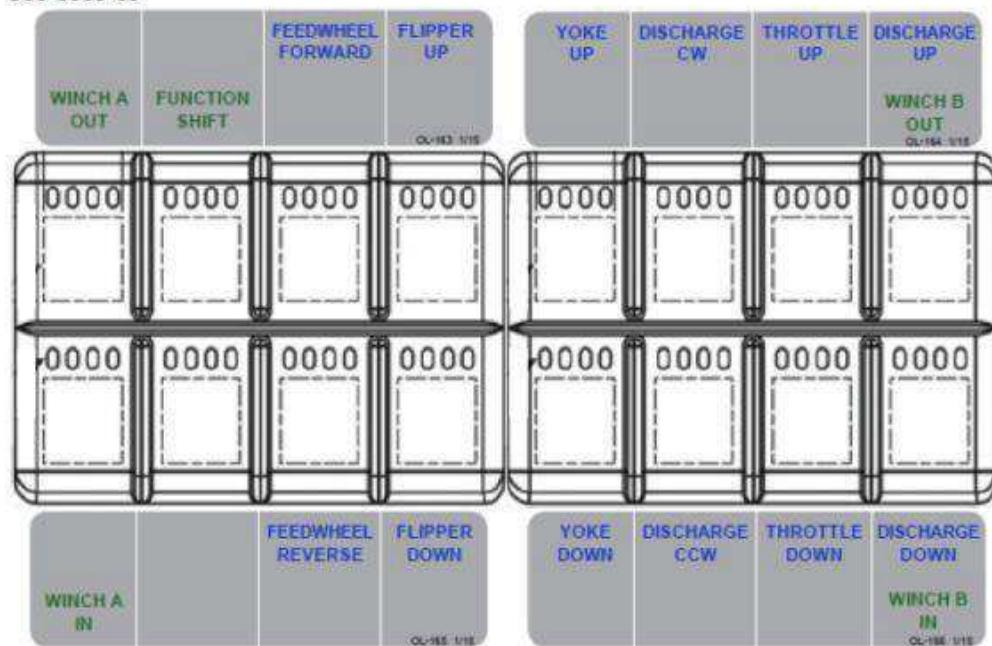


## BANDIT CONTROLS

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Notes

300-8003-09



The tether is a back-up tool in case the radio fails. The tether has 2 (8) button keypads that communicate with the main controller via CAN messages. The machine must be in Tether mode in order to activate the Tether.  
Note: If Controller 1 (C1) loses communication with both the Display and the Radio receiver, C1 will default to Tether mode internally.

There is a hardwired E-Stop switch to ground in the tether box. If the machine is in Tether mode and this switch is open (or the tether cable broken), the system will E-Stop the engine.

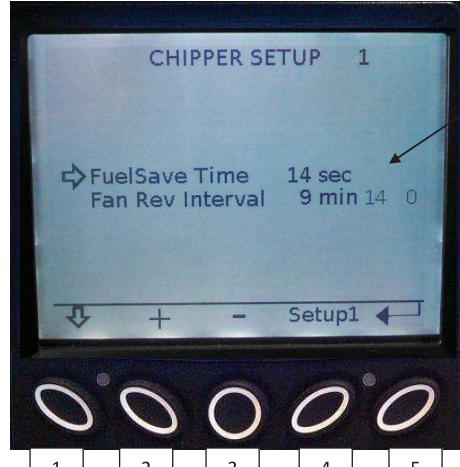
(If Fuel Saver mode is turned on and the machine idles down due to light load conditions, simply press Throttle Up and then press Feed Fwd to resume feeding).

(If the Winch Stow Switch indicates that the winch is out, Feed Fwd will stop automatically and the Tether Winch functions will be enabled. The Tether Feed Fwd button then can be used to Feed Assist on Electric Feed Assist machines. Once the Winch is properly stowed, Tether winch functions will be disabled and Feed Fwd will operate as normal to resume chipping).

The Yoke/Lift is disabled while winch is deployed. Except, Yoke/Lift can momentarily operate with Feed-Assist-Fwd. Yoke/Lift is fully enabled again once the winch is properly stowed tight on the stow bar.

When the mechanical control bar is in the reverse position a switch interrupts the FeedRev coils to prevent a double reverse which would then feed forward.

### Setup Page



FuelSave Time: this is the amount of time the machine will wait at "no load" until it idles down.

Fan Reverse Interval is optional on some machines. It is the time between fan reversing cycles to purge debris from the radiator.

The numbers behind the Fan Rev Interval is engine fan state and communication error count.

1. Select down to the parameter you wish to adjust.

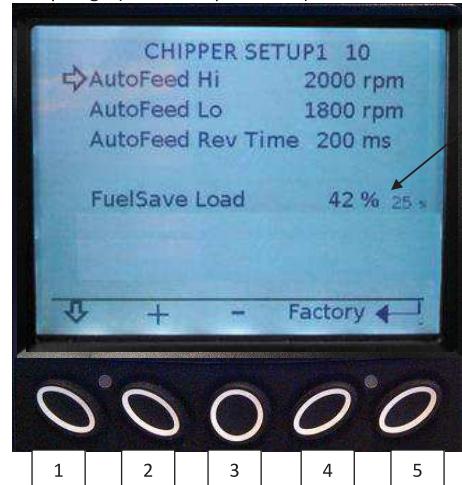
2. & 3. Increase or decrease the value of the selected parameter, or select through various options.

4. Go to more Settings (password protected).

5. Go back.

Fan Reverse Interval is optional on some machines. It is the time between fan reversing cycles to purge debris from the radiator. The reverse cycle typically lasts between 20-30 seconds. The first number behind the 'Fan Rev Interval' time setting is the engine fan state (0=neutral, 1=pulling forward, 14=reversing purge). The second number behind the time setting is an error count of how many times the main controller (C1) has lost communication with the fan control module since the last key cycle.

### Setup Page (Password protected)



Fuel Saver - Behind the FuelSave Load setting (42% as shown) is the actual Load on the engine (25% as shown). The setting is typically 5-10% higher than actual load at high idle with clutch engaged.

In this case we would have seen between 30-35% engine load when clutch is engaged and engine at full speed, no material being fed. And so 42% was selected as the FuelSave Load setting; this assumes that loads above 42% indicate material is being fed.

1. Select down to the parameter you wish to adjust.
2. & 3. Increase or decrease the value of the selected parameter, or select through various options.
4. Go to Factory Settings (password protected).
5. Go back.

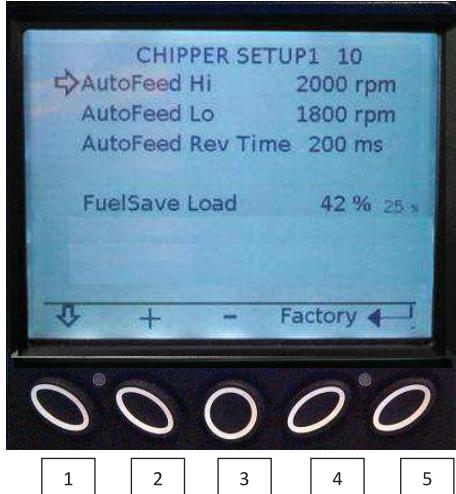
#### AutoFeed

During normal operation the feed system will reverse, stop, and resume based on the AutoFeed Engine Speed settings. In the example screen shot above,

when Eng RPM falls below AutoFeed Lo 1800rpm,  
the feed wheels will briefly reverse for AutoFeed Rev Time 200ms and then stop.  
The system will wait for Eng RPM to recover above AutoFeed Hi 2000rpm  
and then Feed Fwd will resume.

(Note: if AutoFeed Hi setting value is mistakenly set higher than the engine can run, the Feed system will not Feed Fwd because it is waiting for the engine to reach a speed it cannot attain. Correct the AutoFeed Hi setting to approx 100-200rpm lower than max engine speed).

### Setup Page



### FuelSaver

If Fuel Saver Mode is turned on, the machine will throttle down on its own to 200 RPM above low idle if it runs too long with no load. Two settings affect Fuel Saver mode.

1. FuelSave Time: this is the amount of time the machine will wait at "no load" until it idles down (as selected on SETUP1, see page 9).
2. FuelSave Load: based on engine percent torque load; anything below this setting is considered "no load".

Ex settings: 10seconds, 42% load.

During normal operation the load on the engine might range from 50-90% while chipping. When no material is being fed into the chipper it will just run at high rpm but maybe only 35% load. With actual load being lower than the 42% setting, the controller sees "no load" and after 10 seconds will idle the machine down to approximately 1,000 RPM.



Tap Throttle Up to bring the RPM back to full speed.

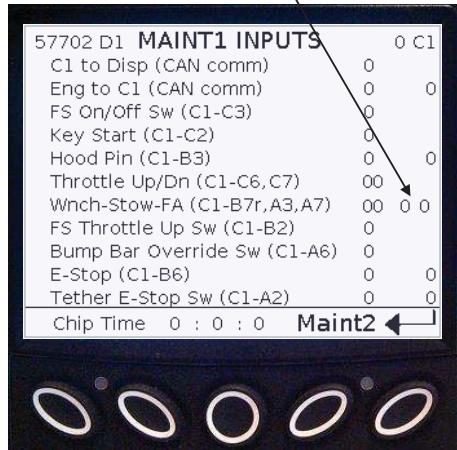
The buttons on the infeed are tied into Throttle Up when FuelSave is turned on.



When you turn Fuel Saver OFF, the machine will throttle down to idle (approx 800rpm), EXCEPT if engine RPM is above AutoFeed Hi setting. In this case, the controller assumes the operator is at full engine speed and wants to keep working.

Push Button Feed Assist

Stow Switch,  
Feed Assist Switch



### Manual Winch with Push Button Feed Assist

There is a switch on the winch that sends a 12V signal to enable the winch valve. The winch stow switch indicates to the control system whether the winch is stowed or deployed. The status of this switch is displayed on Maint1 as shown above right.

When the Winch is deployed away from its stow point the Stow Switch energizes the winch selector valve and now the winch can be operated using the manual winch control valve. While the winch is still out, the Feed Assist Push Button can be used to enable Feed Fwd for approx 1/2 sec, then it will timeout and stop; this can be repeated.

In order for the Feed Assist timer to work and allow oil during Feed Assist, the controller must see :

- a 12V signal from the Winch Stow Switch
- a 0V signal from Feed Assist Push Button Switch

When the operator is finished with winch operations, the winch rope must be stowed properly to tighten down on the Stow Bar. The Stow Switch will now indicate that the winch is no longer deployed and normal chipper functions can resume feed fwd, etc.

The Yoke/Lift is disabled while winch is deployed. Except, Yoke/Lift can momentarily operate with Feed-Assist-Fwd. Yoke/Lift is fully enabled again once the winch is properly stowed tight on the stow bar.

If the Push Button Switch is disconnected a 0V signal will be sent to the control system. The Feed Assist will then time out and prevent Feeding until the switch is reconnected to a 12V signal.

(If a Radio is added to the control system of a machine with Push Button Feed Assist, the Feed Assist will only work when the Push Button valve and button are pressed).

### Electric Feed Assist



Winch In-Out Switches,  
Stow Switch,  
Feed Assist Switch

|                              | 0 C1   |
|------------------------------|--------|
| C1 to Disp (CAN comm)        | 0      |
| Eng to C1 (CAN comm)         | 0 0    |
| FS On/Off Sw (C1-C3)         | 0      |
| Key Start (C1-C2)            | 0      |
| Hood Pin (C1-B3)             | 0 0    |
| Throttle Up/Dn (C1-C6,C7)    | 00     |
| Wnch-Stow-FA (C1-B7r,A3,A7)  | 00 0 0 |
| FS Throttle Up Sw (C1-B2)    | 0      |
| Bump Bar Override Sw (C1-A6) | 0      |
| E-Stop (C1-B6)               | 0 0    |
| Tether E-Stop Sw (C1-A2)     | 0 0    |
| Chip Time 0 : 0 : 0          | Maint2 |

### Electric Winch with Feed Assist

There is a switch on the winch that sends a 12V signal to enable the winch valve. The winch switch indicates to the control system whether the winch is stowed or deployed. The status of this switch is displayed on Maint1 as shown above right.

Electric Feed Assist is designed to operate both Feed and Winch functions at the same time but only for short durations. When the Winch is deployed away from its stow point and the Winch valve is enabled, moving the Feed Assist joystick to the right will also enable Feed Fwd for approx 1/2 sec, then it will timeout and stop; this can be repeated.

In order for the Feed Assist timer to work and allow oil during Feed Assist, the controller must see :

- a 12V signal from the Winch Stow Switch
- a 0V signal from Feed Assist Joystick Feed Fwd

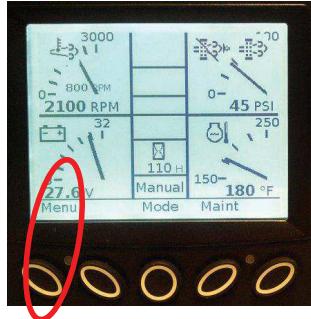
When the operator is finished with winch operations, the winch rope must be stowed properly to tighten down on the Stow Bar. The Stow Switch will now indicate that the winch is no longer deployed, winch functions will be disabled, and normal chipper functions can resume feed fwd, etc.

The Yoke/Lift is disabled while winch is deployed. Except, Yoke/Lift can momentarily operate with Feed-Assist-Fwd. Yoke/Lift is fully enabled again once the winch is properly stowed tight on the stow bar.

If the Feed Assist Joystick is disconnected a 0V signal will be sent to the control system. The Feed Assist will then time out and prevent Feeding until the switch is reconnected to a 12V signal.

(If a Radio is added to the control system of a machine with an Electric Winch Feed Assist, the Feed Assist will also work when the Radio/Tether Feed Fwd button is pressed. This will provide the same 1/2 sec pulse forward as the Joystick/Button feed assist).

### Main Page



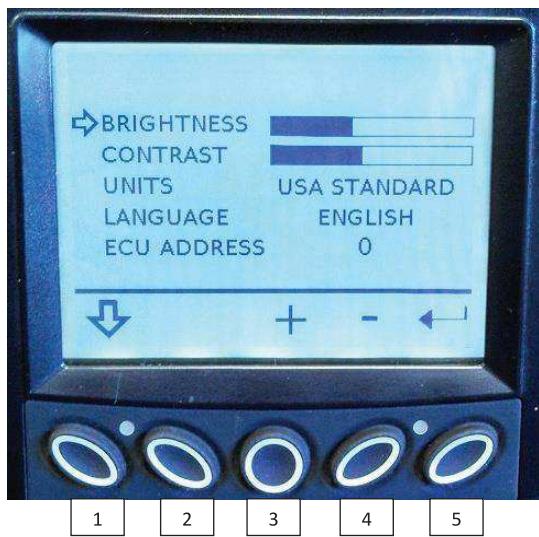
Press this button for the popup menu (Popup menu disappears after 5sec).



#### Popup Menu Options:

1. Press this button for Display Menu.
2. Press for DPF Options (If equipped with relevant T4 engine).
3. Press to view System Faults.
4. Press to change Service Reminder options.
5. Press to display other engine parameters.

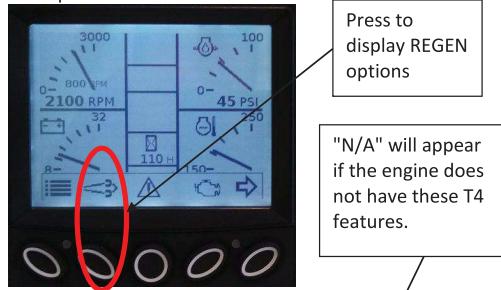
### Display Menu



1. Select down to the parameter you wish to adjust.
3. & 4. Increase or decrease the value of the selected parameter, or select through various options.
5. Go back.

(Engine ECU address is default 0).

### DPF Options



(Main Page will show DPF icons as well)



(DPF options are only applicable on T4 engine).

1. & 2. Select the parameter you wish to adjust.

3. Select the DPF Regen Mode (Auto or Inhibit) or Request/Force a Regen.

(In general, always leave the DPF system in Auto. The only time you may want to inhibit regen burn cycles is in the rare case where higher exhaust temperatures may elevate the risk of fire in the surrounding environment).



Exhaust gas temperature is high. Auto Regen is in process of burning out accumulated soot.



Soot level in the DPF indicates need for Regen (if in Auto, the engine typically conducts the regen on its own and the exhaust gas temperature indicator will come on to show it is in process). If the symbol has a crossout through it, Auto Regen cycles are Inhibited (disabled) by the operator.

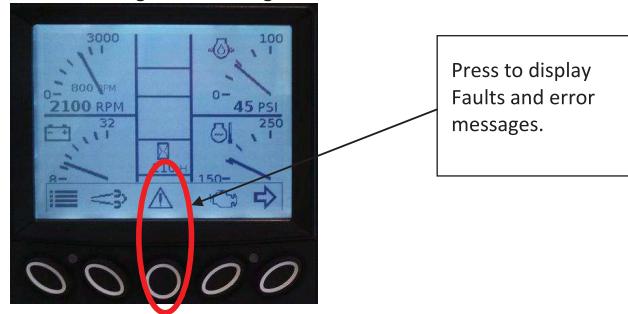


Diesel Exhaust Fluid (DEF) tank level. Indicator will blink at low level, for ex: less than 12%



On some engines this icon is used to indicate a malfunction with the emission system.

### Faults and Diagnostic Messages



1. & 2. Select the parameter you wish to select.

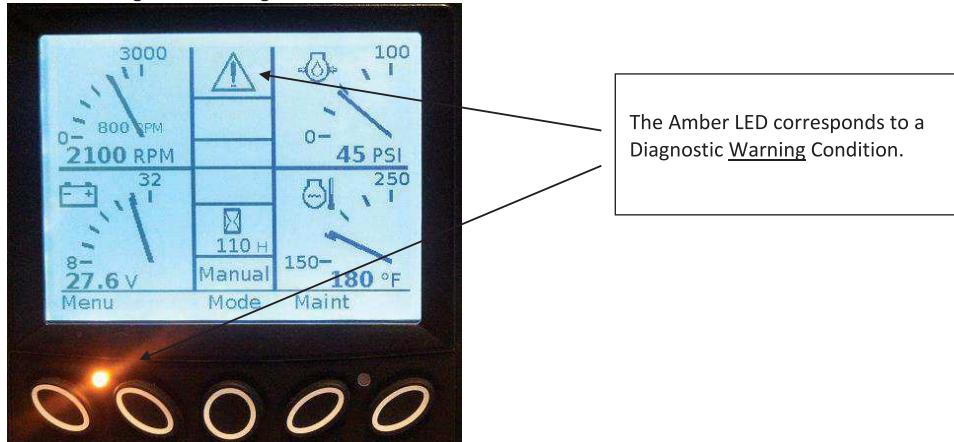
3. Enter OK to view those faults. If there are no active or stored faults, none will be available to scroll through.

5. Go back.

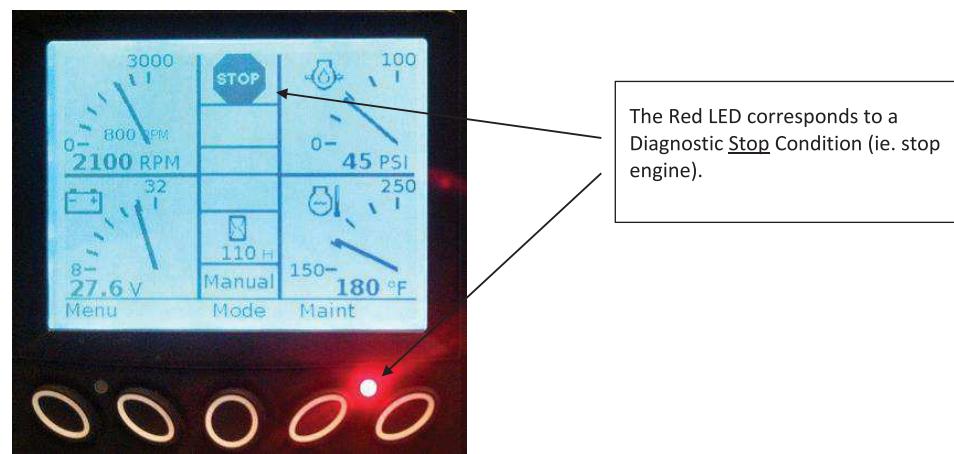
If the engine or other system controller sends a diagnostic message (as shown at right), it will appear as a popup error with applicable details. The popup message can be hidden (press button 5) while still being active. The LED's on the face of the display will remain lit indicating an error is still active.

- Yellow LED is a WARNING level error.
- Red LED is a STOP level error.

### Faults and Diagnostic Messages

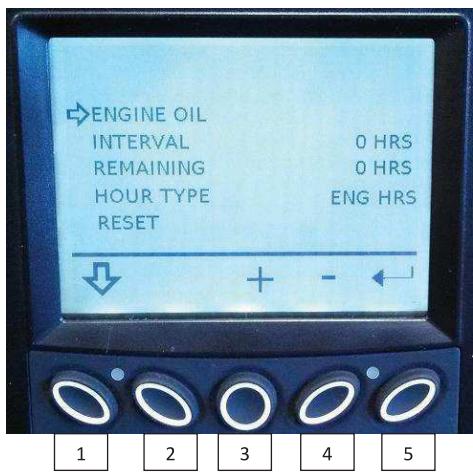
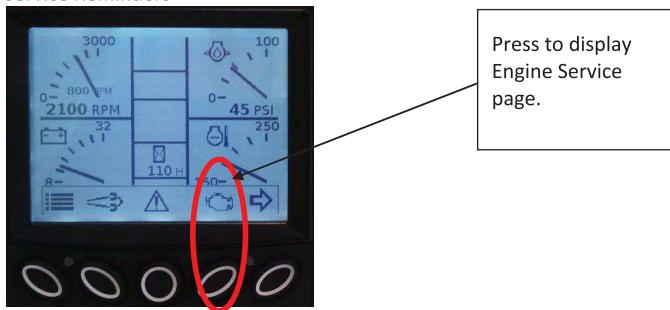


The Amber LED corresponds to a Diagnostic Warning Condition.



The Red LED corresponds to a Diagnostic Stop Condition (ie. stop engine).

### Service Reminders



1. Select down to the parameter you wish to adjust.
3. & 4. Increase or decrease the value of the selected parameter, or select through various options.
5. Go back.

### Other Engine Parameters

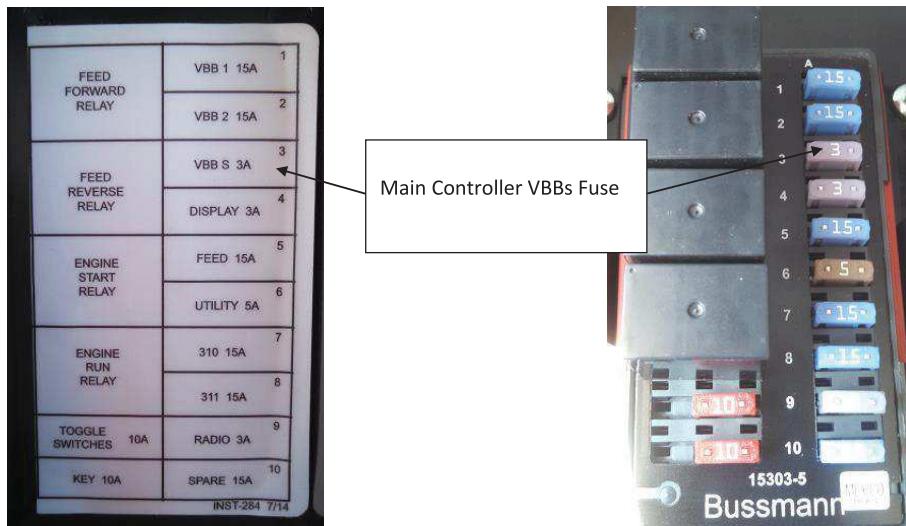


Press to display  
other engine  
parameters.



The engine may send information on other parameters it is monitoring. These can be read on 1 of 4 engine pages. Cycle through the engine pages to return to the Main Page.

### Engine Service Tools



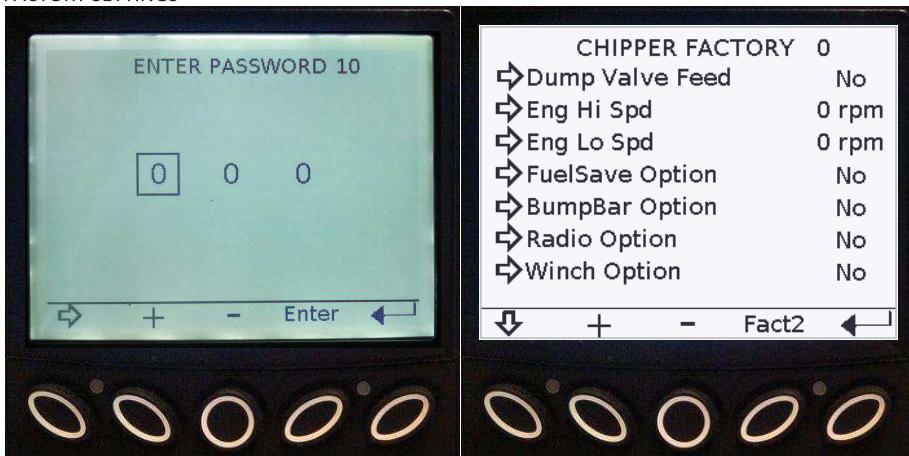
When connecting a laptop to the engine with certain engine service tools (ex CAT-ET, etc) it may be necessary to disconnect the main Controller by unplugging the 3amp VBBs fuse in station 3. The engine can still Key ON, start, and idle with the main Controller OFF.

Bump Bar Option



If the Chipper is equipped with a Bump Bar and Bump Bar Bypass valve, a Bypass Button is connected to the valve which together allow Feed Fwd for 5 seconds even if the Bump Bar has disabled the feed system.

### FACTORY SETTINGS



### Program Notes

#### Display

- If Controller 1 (C1) loses communication with the Display, C1 will default to Radio mode.
- If C1 loses comm with the Display AND the radio receiver, it will default to Tether Mode.
- If C1 loses comm with display and receiver and tether, it will remain in Manual mode internally.

#### Radio (Rx=receiver; Tx=Transmitter)

- If C1 loses comm with receiver, all messages zeroed/centered
- BadCount03: RadioEStop (counts only while in Radio Mode)

#### Tether

- In order to Feed Fwd must have RPM above AutoFeed Hi or be in AutoFeed Bypass
- Things that will automatically disengage Feed Fwd:

- Change the machine mode away from Tether to Radio or Manual
- Lose comm with either Tether keypad while in tether mode
- RPM command goes below AutoFeed Lo setting (make sure AutoFeed Hi is not set higher than Engine Hi Speed).
- Winch un-stowed will stop Feed Fwd and make it Feed Assist

#### Engine

- Critical engine faults related to Tier4 DPF soot levels:

- these faults will trigger the engine to idle down and request action from the operator
- engine may also derate or shutdown in severe cases

| SPN  | FMI | Description   |
|------|-----|---|
| 3251 | 0   | cu DPF is full of soot. Contact engine service center.                                |
| 3251 | 16  | cu DPF is nearly full of soot. Goto MENU - DPF and Force a Regen.                     |
| 3703 | 31  | ca DPF is nearly full of soot. Goto MENU - DPF and Force a Regen.                     |
| 3714 | 31  | ca DPF is nearly full of soot. Goto MENU - DPF and Force a Regen.                     |
| 3715 | 31  | ca DPF is full of soot. Contact engine service center.                                |
| 3719 | 0   | ca jd DPF is full of soot. Goto MENU - DPF and Force a Regen. Contact service center. |
| 3719 | 15  | jd DPF is nearly full of soot. Goto MENU - DPF and Force a Regen.                     |
| 3719 | 16  | ca jd DPF is nearly full of soot. Goto MENU - DPF and Force a Regen.                  |

- C1 will idle Eng down for

- Key to start position
- C1 loses comm with Eng
- RadioMode and RxComm Good and TxComm Bad (Tx out of range, Tx OFF, Tx batteries low)
- RadioMode and RxComm Bad
- TetherMode and Tether Comm bad
- DPF DTC's
- Push 'Force' in Maint2-DPF
- Manual Mode and Lost Display
- FuelSaver is shut off when Eng RPM is below AF Hi setting

#### Feed

- When you throttle down while feeding fwd, Feed Fwd will drop out and AutoRev will fire one time (within 6sec).

## BANDIT CONTROLS

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### Inputs

- BadCount01: Hood Pin
- BadCount02: EStop
- BadCount04: TetherEStop (counts only while in TetherMode)
- The buttons on the infeed are tied into Throttle Up when FuelSave is turned on.
- Winch In-Out Sw R to Gnd; Open=60,000; In 0Ω=0; Out 1000Ω=AtoD=12,300; compare LT 20,000

### FuelSaver

- FuelSave Time has a range of 10-255sec.

Document notes  
21Dec2016 – First Draft