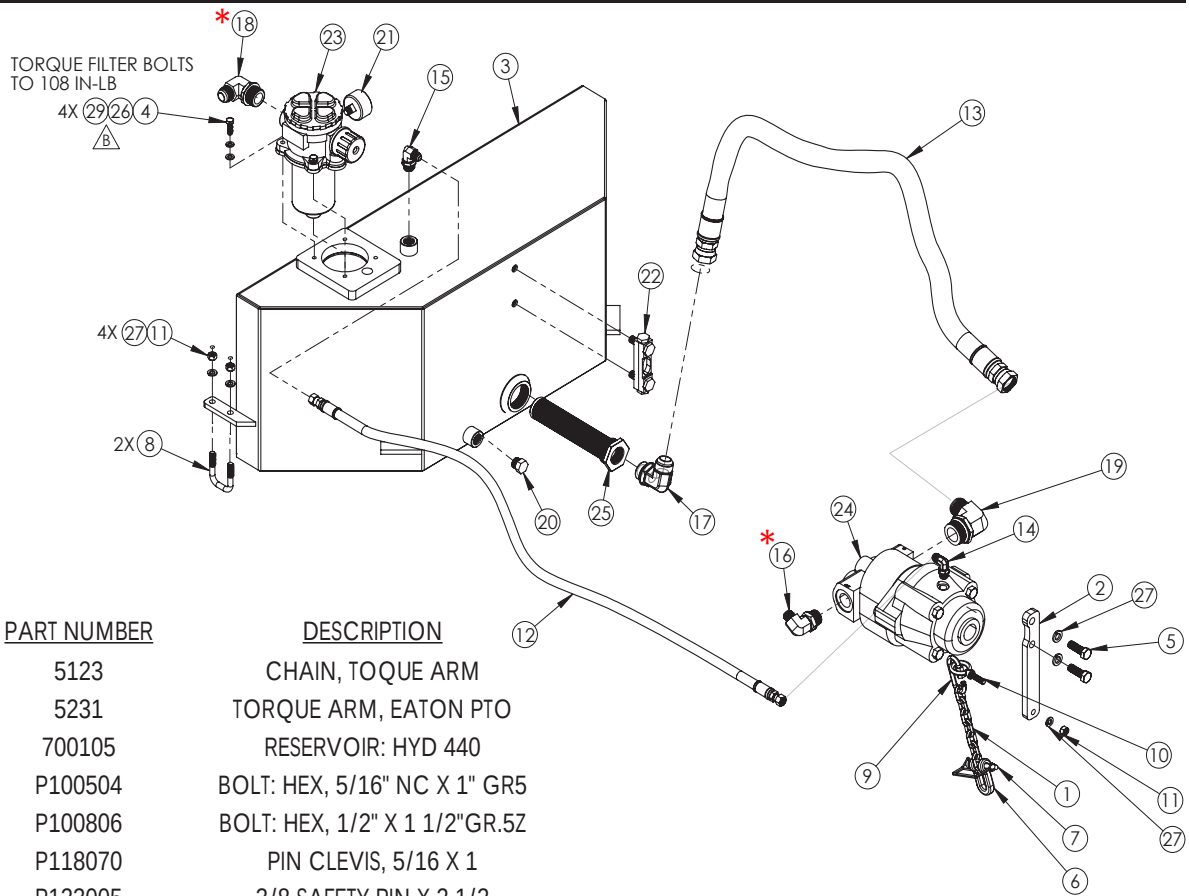


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# 440C, 440XLC PTO PUMP ASSEMBLY



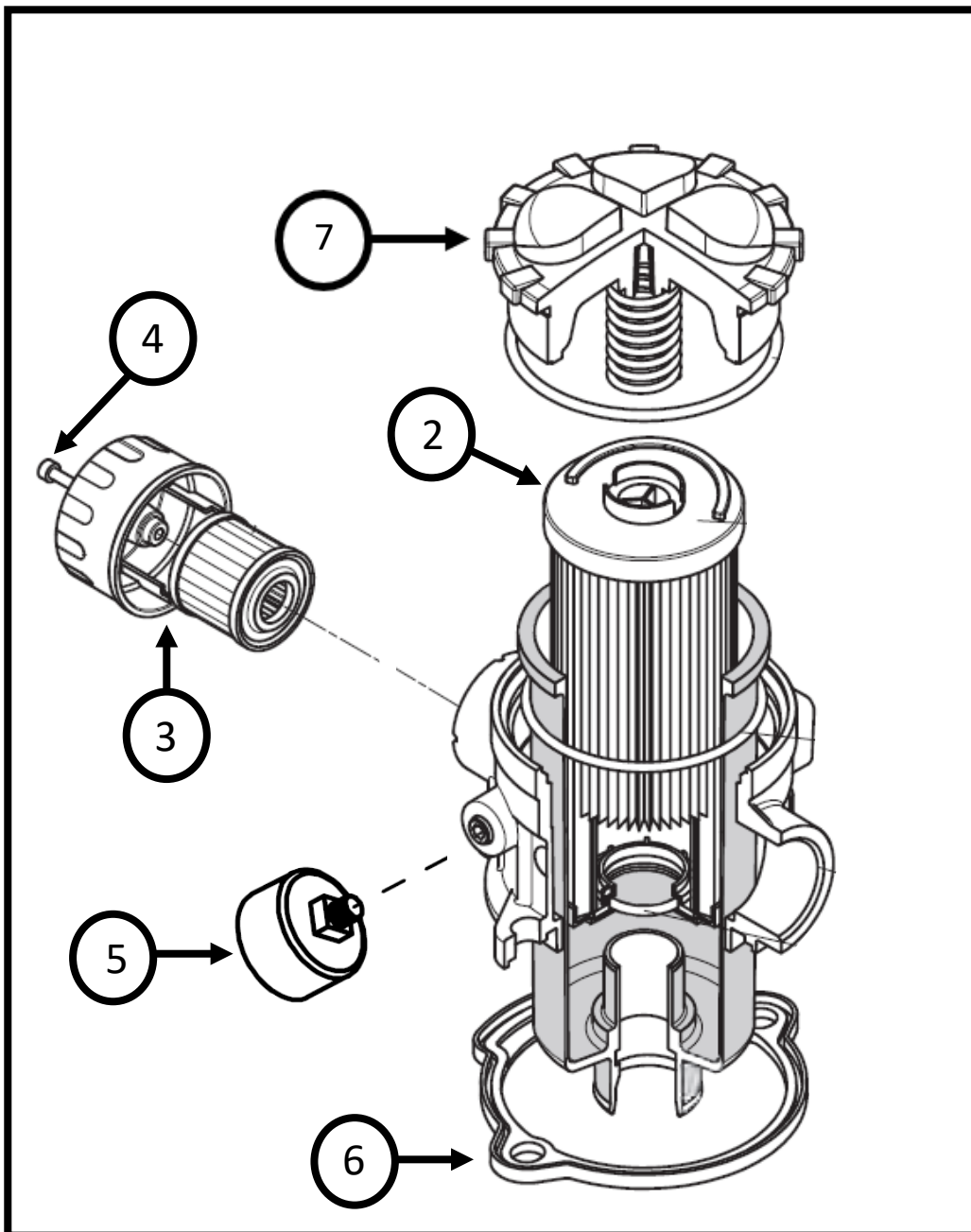
| ITEM | QTY. | PART NUMBER | DESCRIPTION                                                   |
|------|------|-------------|---------------------------------------------------------------|
| 1    | 1    | 5123        | CHAIN, TOQUE ARM                                              |
| 2    | 1    | 5231        | TORQUE ARM, EATON PTO                                         |
| 3    | 1    | 700105      | RESERVOIR: HYD 440                                            |
| 4    | 4    | P100504     | BOLT: HEX, 5/16" NC X 1" GR5                                  |
| 5    | 2    | P100806     | BOLT: HEX, 1/2" X 1 1/2" GR.5Z                                |
| 6    | 1    | P118070     | PIN CLEVIS, 5/16 X 1                                          |
| 7    | 1    | P123005     | 3/8 SAFETY PIN X 2 1/2                                        |
| 8    | 2    | P127204     | BOLT: U, 3/8" X 1 1/2" X 2 1/4"                               |
| 9    | 1    | P135005     | QUICK LINK, 5/16"                                             |
| 10   | 1    | P135102     | 3/8-16 X 1-1/4 FORGED EYE BOLT                                |
| 11   | 5    | P150600     | NUT: HEX 3/8-16                                               |
| 12   | 1    | P248062     | HOSE: -6 X 62" 6FJX 6FJX                                      |
| 13   | 1    | P255985     | HOSE: -16 X 50" 16FJX 16FJX                                   |
| 14   | 1    | P261350     | FITTING: 6MJ 6MB90                                            |
| 15   | 1    | P261530     | FITTING: 6MJ 8MB90                                            |
| 16   | 1    | P261650     | FITTING: 8MJ 12MB90                                           |
| 17   | 1    | P276700     | FITTING: 16MJ 16MB90                                          |
| 18   | 1    | P277102     | FITTING: 12MJ 16MB90                                          |
| 19   | 1    | P277165     | FITTING: 16MJ 20MB90                                          |
| 20   | 1    | P278005     | FITTING: PLUG 8MB                                             |
| 21   | 1    | P297170     | GAUGE, IND LP C1-20                                           |
| 22   | 1    | P297305     | SIGHT LEVEL-TEMP GAGE FILTER:                                 |
| 23*  | 1    | P371840     | MPT1042CAG8A10HBT HOUSING ASSEMBLY                            |
| 24   | 1    | P555950     | PUMP: PT77022-LBL 71.371841 REPLACEMENT HYDRAULIC FILTER ONLY |
| 25   | 1    | P610515     | STRAINER: SUCTION ST-15-100-RV3                               |
| 26   | 4    | P851105     | WASHER: LOCK 5/16"                                            |
| 27   | 5    | P851106     | WASHER: LOCK 3/8" ZP                                          |
| 27   | 2    | P851108     | WASHER: LOCK 1/2" ZP                                          |
| 29   | 4    | P852105     | WASHER: FLAT 5/16" NARROW                                     |

## HYDRAULIC HOSES NOT SHOWN:

- 71.P264120 PRESSURE HOSE PUMP TO VALVE (NON POWER ROLLER EQUIPPED) -8 X 120" -8FJ X -8FJ
- 71.P264133 PRESSURE HOSE PUMP TO VALVE (POWER ROLLER EQUIPPED) -8 X 133" -8FJ X -8FJ
- 71.P266055 RETURN HOSE VALVE TO TANK TOP FILTER (NON POWER ROLLER) -12 X 55" 12FJ X 8 FJ
- 71.P266068 RETURN HOSE VALVE TO TANK TOP FILTER (POWER ROLLER) -12 X 68" 12FJ X 8FJ

# HYDRAULIC FILTER HOUSING

- 1) 71.P371840 Complete filter housing: includes base gasket and 10-micron filter element
- 2) 71.P371841 Filter element 10-micron
- 3) 71.P371842 Breather filter element / housing
- 4) 71.P110160 Mounting screw M4 - .7 X 25 mm socket head cap screw
- 5) 71.P297170 Filter indicator gauge
- 6) 71.P371839 Base gasket
- 7) 71.P371844 Cover with spring

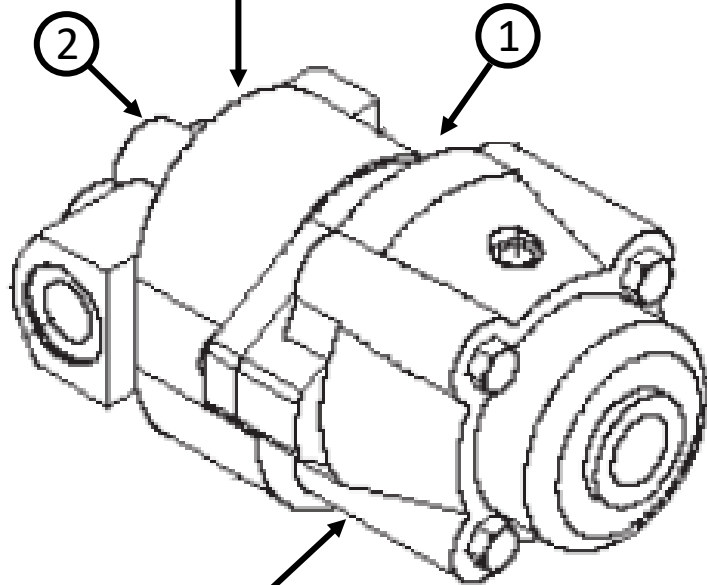


# PTO PUMP

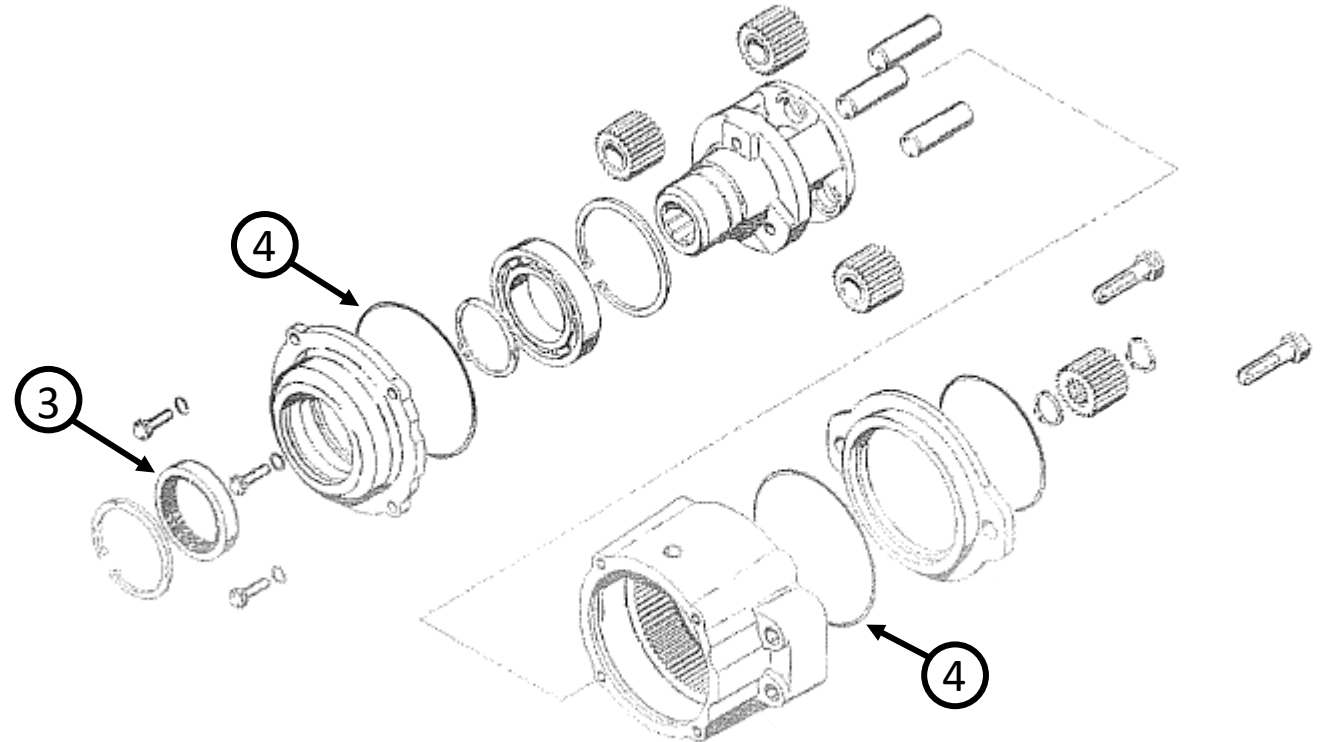
## PLANETARY GEARBOX DRIVE / HYDRAULIC GEAR PUMP

- 1) 71.P555950 COMPLETE PUMP ASSEMBLY (PLANETARY GEARBOX / HYDRAULIC GEAR PUMP FULLY ASSEMBLED)
- 2) 71.P556611 HYDRAULIC GEAR PUMP SEAL KIT
- 3) 71.V16253-34 PTO / PLANETARY GEARBOX INPUT SHAFT SEAL
- 4) 71.V160.15 O RING

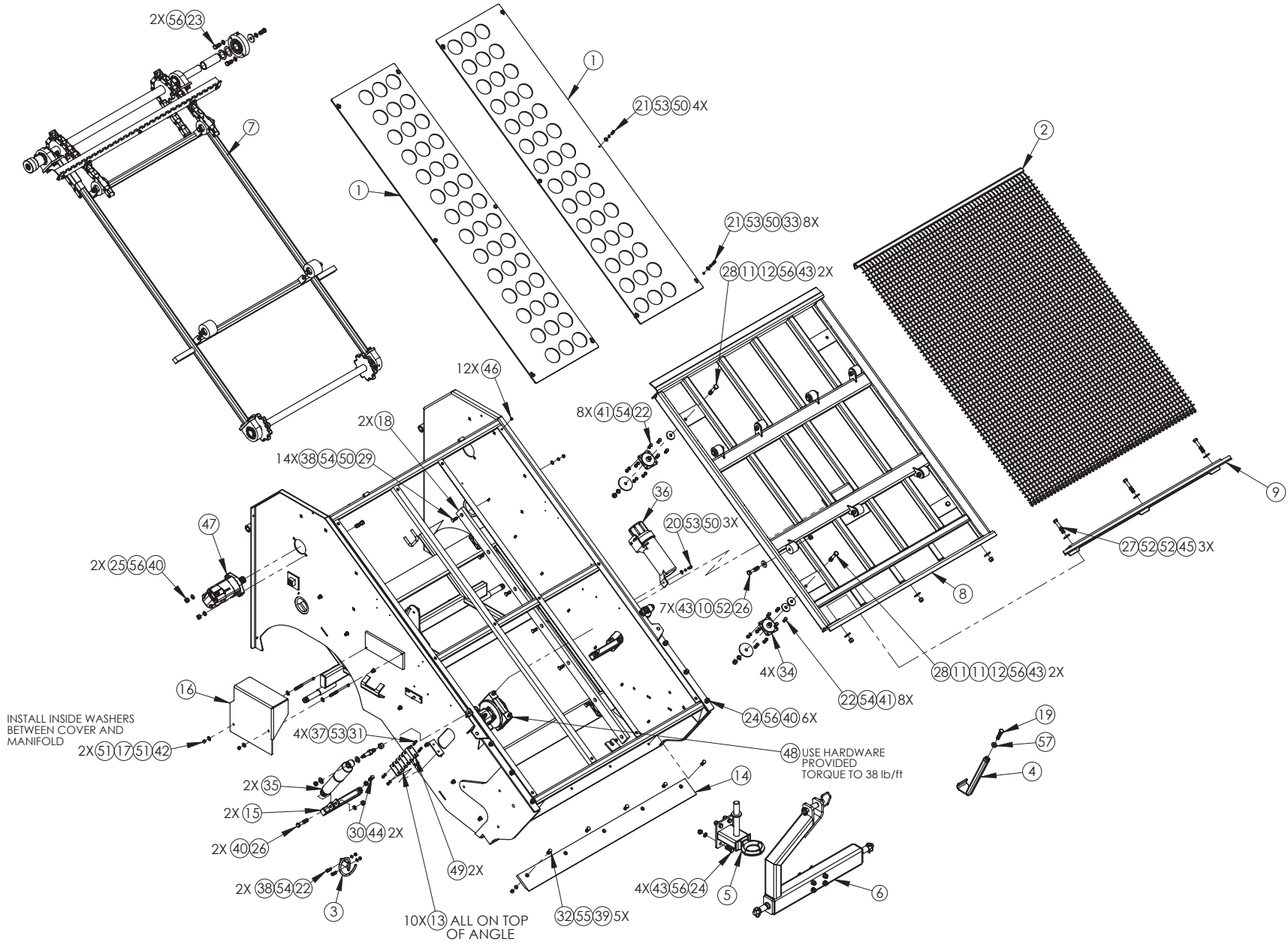
HYDRAULIC GEAR PUMP SECTION



PLANETARY GEARBOX DRIVE SECTION



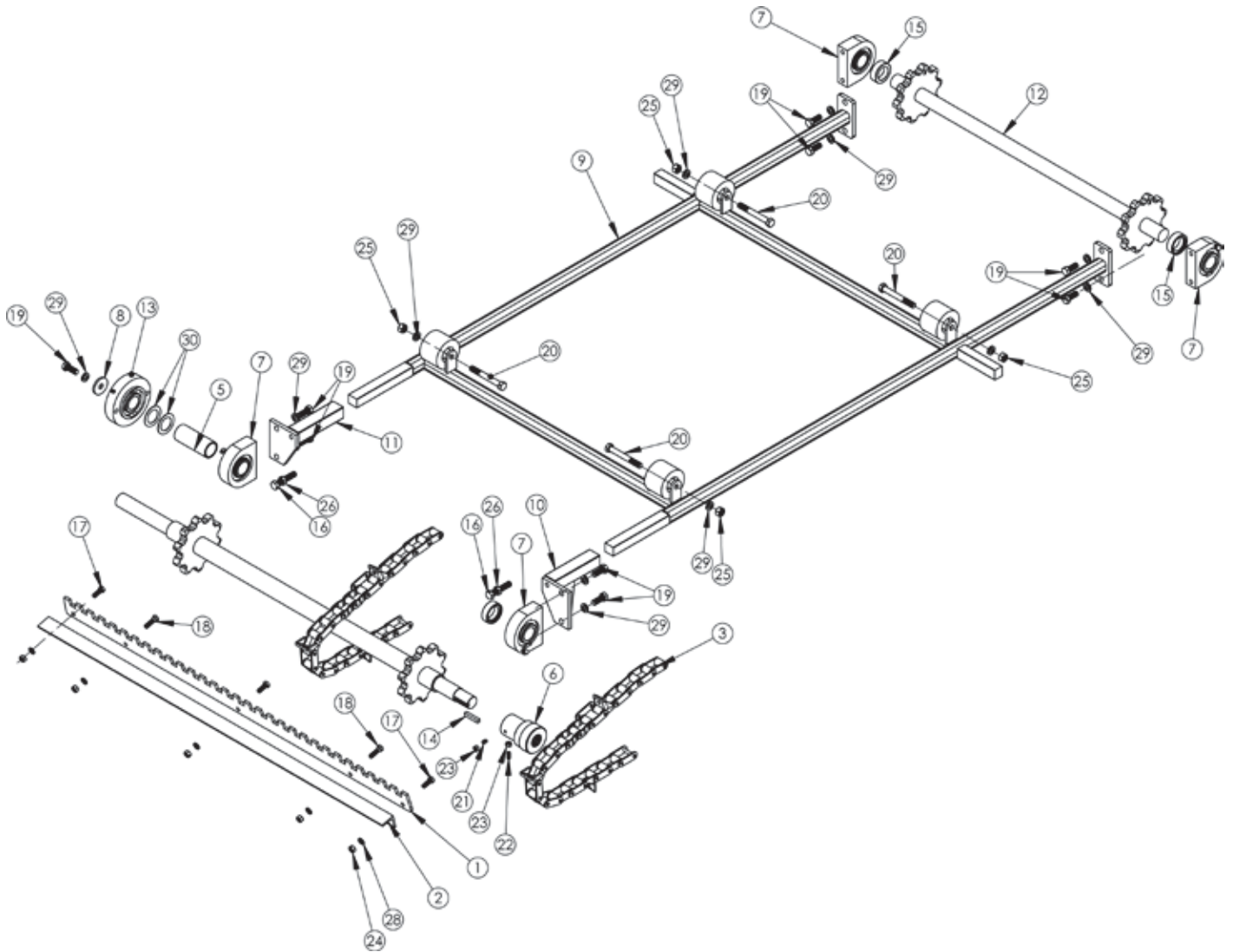
PLANETARY GEARBOX DRIVE EXPLODED VIEW



# BASE ASSEMBLY LEGEND

| ITEM # | QTY. | PART #  | DESCRIPTION                           |
|--------|------|---------|---------------------------------------|
| 1      | 2    | 470228  | SHIELD, CONVEYOR                      |
| 2      | 1    | 700014  | SCREEN: 3/4" 440 SERIES               |
| 3      | 1    | 700065  | HOSE LOOP HOLDER                      |
| 4      | 1    | 700080  | CONVEYOR LIFT TOOL                    |
| 5      | 1    | 700082  | 755 HITCH                             |
| 6      | 1    | 700117  | ASM: 3 PT LIGHT CAT1 OPEN             |
| 7      | 1    | 700119  | CONVEYOR ASM 440B                     |
| 8      | 1    | 700127  | WLDT: SCREEN FRAME 440                |
| 9      | 1    | 700132  | WLDT: SCREEN TENSIONER                |
| 10     | 7    | CP0043  | RISER: SCREEN- 90 A Duro (Blue)       |
| 11     | 6    | M5009-5 | 3/16" X 1/2" X 1-3/4" WASHER          |
| 12     | 4    | M6223   | 3/16" X 1/2" ID X 3" OD WASHER        |
| 13     | 10   | M30079  | SPACER: BUMPER                        |
| 14     | 1    | M40023  | CUTTER BAR; 1/2" X 4"                 |
| 15     | 2    | M40028  | LOWER SHOCK MT                        |
| 16     | 1    | M40093  | VALVE SHIELD WELDMENT                 |
| 17     | 2    | M40096  | VALVE THREADED ROD                    |
| 18     | 2    | M40187  | SCREEN GUIDE                          |
| 19     | 1    | P098810 | BOLT: HEX, 1/2"NC X 2 1/2"GR5 FULL TH |
| 20     | 3    | P100403 | BOLT: HEX, 1/4"NC X 3/4" GR5          |
| 21     | 12   | P100404 | BOLT: HEX, 1/4"NC X 1"GR5             |
| 22     | 18   | P100504 | BOLT: HEX, 5/16" NC X 1" GR5          |
| 23     | 2    | P100805 | BOLT: HEX, 1/2" X 1-1/4"              |
| 24     | 10   | P100806 | BOLT: HEX, 1/2" X 1 1/2"GR.5Z         |
| 25     | 2    | P100807 | BOLT: HEX 1/2-13 X 1-3/4"             |
| 26     | 9    | P100810 | BOLT: HEX, 1/2" X 2 1/2" GR.5         |
| 27     | 3    | P100811 | BOLT: HEX 1/2-13 X 2-3/4"             |
| 28     | 4    | P100812 | BOLT: HEX, 1/2" X 3"GR.5              |
| 29     | 14   | P104505 | 5/16-18 X 1-1/4" CARRIAGE BOLT        |
| 30     | 2    | P110820 | SET SCREW SQ HD 1/2 X 1-1/4           |
| 31     | 4    | P110912 | CAPSCREW, 1/4-20 X 1-1/4 ALLEN HD     |
| 32     | 5    | P114605 | BOLT: PLOW 3/8" X 1 1/4" #3           |
| 33     | 8    | P126900 | BUSHING: 3/8"OD X 1/4"ID X 1/4"L      |
| 34     | 4    | P133062 | ISOLATOR: PLATFORM MT #283P-120       |
| 35     | 2    | P133090 | SHOCK ABSORBER : NAPA #94005          |
| 36     | 1    | P136000 | MANUAL TUBE                           |
| 37     | 4    | P150400 | NUT: HEX, 1/4" PLATED                 |
| 38     | 16   | P150500 | NUT: HEX 5/16-18                      |
| 39     | 5    | P150600 | NUT: HEX 3/8-16                       |
| 40     | 10   | P150800 | NUT: HEX 1/2"-13NC ZP                 |
| 41     | 16   | P155350 | NUT: HEX, 5/16 TOP-LOCK               |
| 42     | 2    | P155402 | 5/16" ACORN NUT                       |
| 43     | 15   | P155850 | NUT: HEX 1/2"-13NC TOP-LOCK ZP        |
| 44     | 2    | P157200 | NUT, HEX JAM 1/2"-13 NC               |
| 45     | 3    | P158005 | 1/2-13 NYLOCK NUT                     |
| 46     | 12   | P160251 | NUT, 1/4-20 KLIK NUT .08-.14          |
| 47     | 1    | P350730 | MOTOR: HYD CL 2000, 11.9 DISP         |
| 48     | 1    | P358500 | VIBRATOR: C2-0.5-2HC                  |
| 49     | 2    | P605000 | SPRING BUMPER                         |
| 50     | 29   | P850104 | WASHER: FLAT 1/4" ZP                  |
| 51     | 4    | P850105 | WASHER: FLAT 5/16" ZP                 |
| 52     | 13   | P850108 | WASHER: FLAT 1/2" ZP                  |
| 53     | 19   | P851104 | WASHER: LOCK 1/4"                     |
| 54     | 32   | P851105 | WASHER: LOCK 5/16"                    |
| 55     | 5    | P851106 | WASHER: LOCK 3/8" ZP                  |
| 56     | 20   | P851108 | WASHER: LOCK 1/2" ZP                  |
| 57     | 1    | P852608 | 1/2" HARD WASHER                      |

# CONVEYOR ASSEMBLY SCHEMATIC





## CONVEYOR ASSEMBLY LEGEND

| <u>ITEM</u> | <u>QTY</u> | <u>PART #</u> | <u>DESCRIPTION</u>                    |
|-------------|------------|---------------|---------------------------------------|
| 1           | 16         | 700013        | FLIGHT BLADE: 700 SERIES              |
| 2           | 16         | 700015        | FLIGHT ANGLE: 700 SERIES              |
| 3           | 2          | 700051        | CHAIN: CONVEYOR 700                   |
| 4           | 1          | 700055        | SHAFT WLD: REAR CONV                  |
| 5           | 1          | 700061        | SLEEVE: 1.66" X 1.38" X 4.094"        |
| 6           | 1          | 700112        | COUPLER: SPLINED CONV MTR             |
| 7           | 4          | 700121        | BEARING ASSY                          |
| 8           | 1          | M5009-5       | 3/16" X 1/2" X 1-3/4" WASHER          |
| 9           | 1          | M40047        | CONVEYOR FRAME                        |
| 10          | 1          | M40050        | TOP BEARING SLIDE FLANGE RH           |
| 11          | 1          | M40075        | TOP BEARING SLIDE FLANGE LH           |
| 12          | 1          | M40192        | SHAFT WLD: CONV FRONT 440             |
| 13          | 1          | M40208        | BEARING ASSEMBLY: 1-3/8 PILOT         |
| 14          | 1          | M50005        | KEY, SQUARE 5/16 X 1 3/4              |
| 15          | 3          | P009501-1     | BEARING ECCENTRIC COLLAR              |
| 16          | 2          | P098810       | BOLT: HEX, 1/2"NC X 2 1/2"GR5 FULL TH |
| 17          | 48         | P100604       | BOLT: HEX 3/8"-16NC X 1 GR5ZP         |
| 18          | 32         | P100605       | BOLT: HEX, 3/8"NC X 1 1/4"GR5 ZN      |
| 19          | 9          | P100805       | BOLT: HEX, 1/2" X 1-1/4"              |
| 20          | 4          | P100816       | BOLT: HEX 1/2"-13NC X 4 GR5ZP         |
| 21          | 1          | P108508       | SCREW: SET, 5/16 X 1/2                |
| 22          | 1          | P108512       | SCREW: SET, 5/16 X 3/4                |
| 23          | 2          | P155300       | NUT: HEX, 5/16"-18 JAM                |
| 24          | 80         | P155450       | NUT: HEX 3/8"-16NC TOP-LOCK ZP        |
| 25          | 4          | P155850       | NUT: HEX 1/2"-13NC TOP-LOCK ZP        |
| 26          | 2          | P157200       | NUT, HEX JAM 1/2"-13 NC               |
| 27          | 4          | P477500       | SNUGULATOR: 2 1/2 X 2.240,2-BGB       |
| 28          | 80         | P851106       | WASHER: LOCK 3/8" ZP                  |
| 29          | 13         | P851108       | WASHER: LOCK 1/2" ZP                  |
| 30          | 2          | P855522       | MACHINE BUSHING: 1-3/8" X 18 GA       |

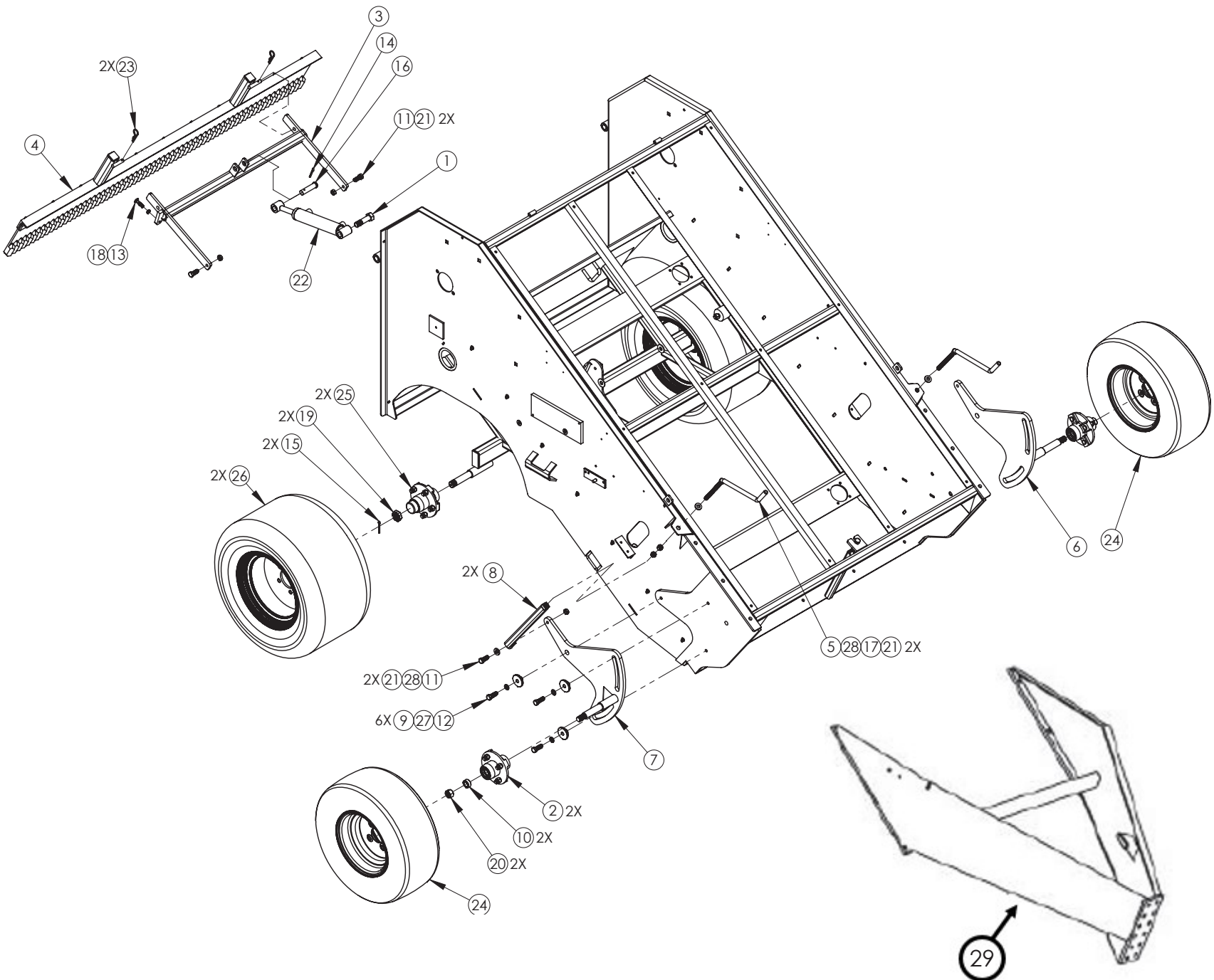
### CHAIN REPAIR ITEMS:

71.M40206 ATTACHMENT CLEAT LINK

71.P630403 OFFSET 1/2 LINK

71.P630400 MASTER CONNECTING LINK





# WHEELS / GROOMER ASSEMBLY SCHEMATIC

# WHEELS / GROOMER ASSEMBLY LEGEND

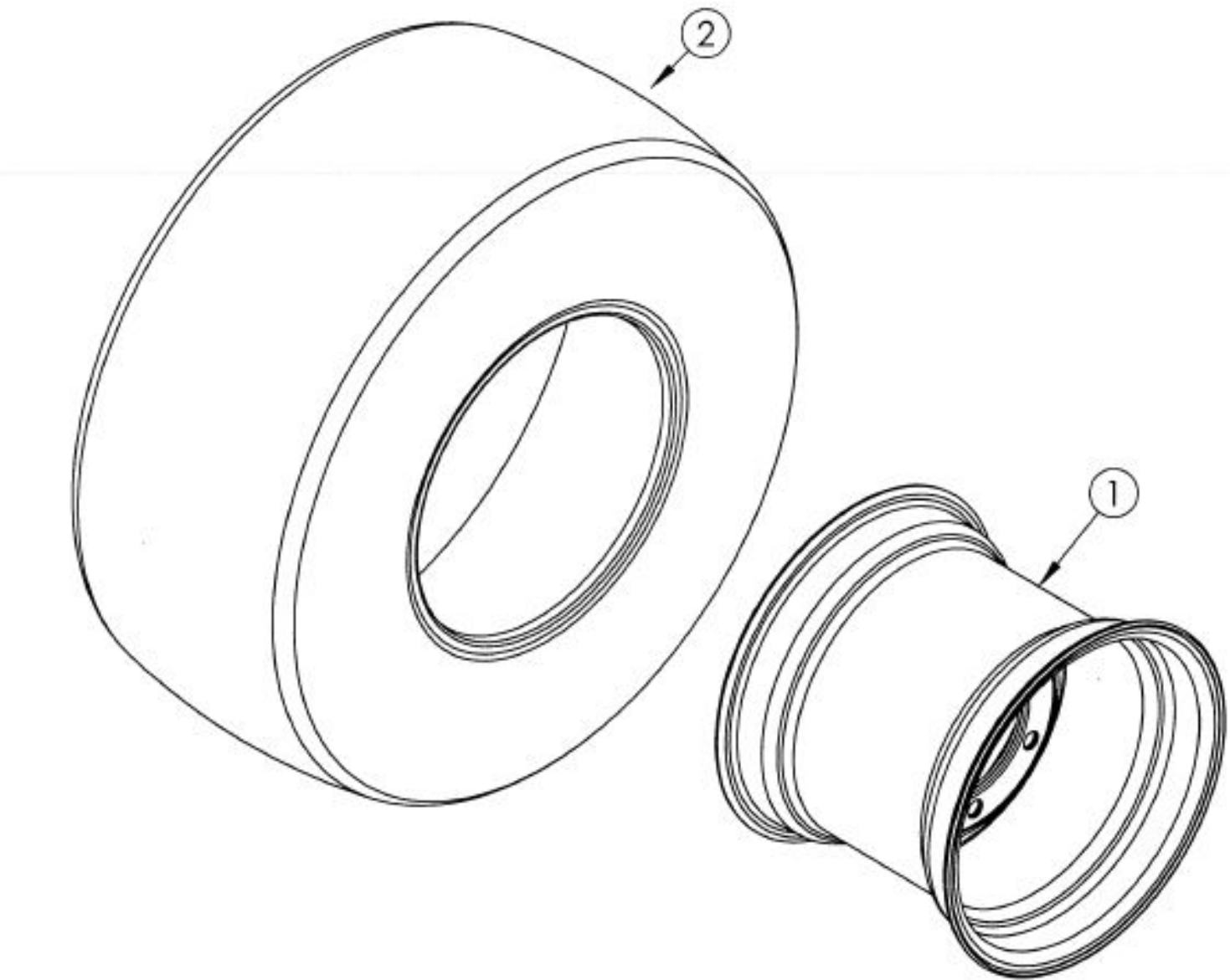
| ITEM # | QTY. | PART #  | DESCRIPTION                                           |
|--------|------|---------|-------------------------------------------------------|
| 1      | 1    | M5499   | CYL BOLT: 3/4" X 2.812"                               |
| 2      | 2    | M16120  | HUB ASM: 4 STUD                                       |
| 3      | 1    | M40026  | COMB FRAME                                            |
| 4      | 1    | M40027  | COMB ASSEMBLY                                         |
| 5      | 2    | M40060  | ARM: CRANK 440                                        |
| 6      | 1    | M40062  | GAGE WHEEL ARM LEFT                                   |
| 7      | 1    | M40063  | ARM: GAGE WHEEL RIGHT                                 |
| 8      | 2    | M40066  | BAR: DEPTH ADJ                                        |
| 9      | 6    | M40091  | BUSHING: GAUGE SLIDE                                  |
| 10     | 2    | M40107  | SPACER: 1.25" X .78" X .5"                            |
| 11     | 4    | P100805 | BOLT: HEX, 1/2" X 1-1/4"                              |
| 12     | 6    | P100806 | BOLT: HEX, 1/2" X 1 1/2" GR.5Z                        |
| 13     | 1    | P104606 | BOLT: CARRIAGE, 3/8" X 1-1/2"                         |
| 14     | 1    | P116256 | 5/32" X 1-1/2" COTTER PIN                             |
| 15     | 2    | P116306 | 3/16" X 1-1/2" COTTER PIN                             |
| 16     | 1    | P120600 | 3/4" X 2-7/8" PIN                                     |
| 17     | 2    | P150800 | NUT: HEX 1/2"-13NC ZP                                 |
| 18     | 1    | P155400 | NUT: HEX, 3/8" JAM                                    |
| 19     | 2    | P156402 | 1"-14 SLOTTED HEX JAM NUT                             |
| 20     | 2    | P157120 | NUT: HEX, 3/4"-10 TOP-LOCK                            |
| 21     | 6    | P157200 | NUT, HEX JAM 1/2"-13 NC                               |
| 22     | 1    | P256300 | CYLINDER: 1 1/2" X 6" HYD.                            |
| 23     | 2    | P622600 | CLIP: HAIR PIN # 00012                                |
| 24     | 2    | P756300 | TIRE & RIM: #65101 20.5 X 8 X 10                      |
| 25 *   | 2    | P765100 | HUB ASM: 5 STUD ON 4.5BC BT150-S                      |
| 26     | 2    | P770350 | 740 REAR WHEEL AND TIRE                               |
| 27     | 6    | P851108 | WASHER: LOCK 1/2" ZP                                  |
| 28     | 4    | P852608 | 1/2" HARD WASHER                                      |
| 27     | 6    | P851108 | WASHER: LOCK 1/2" ZP                                  |
| 28     | 4    | P852608 | 1/2" HARD WASHER                                      |
| 29     | 1    | 700073  | HITCH: SHORT *ALL MODELS EXCEPT POWER ROLLER EQUIPPED |

\* #25 REAR HUB INDIVIDUAL COMPONENTS:

71.P762200 BEARING

71.P756163 SEAL

PART NO.  
P756300



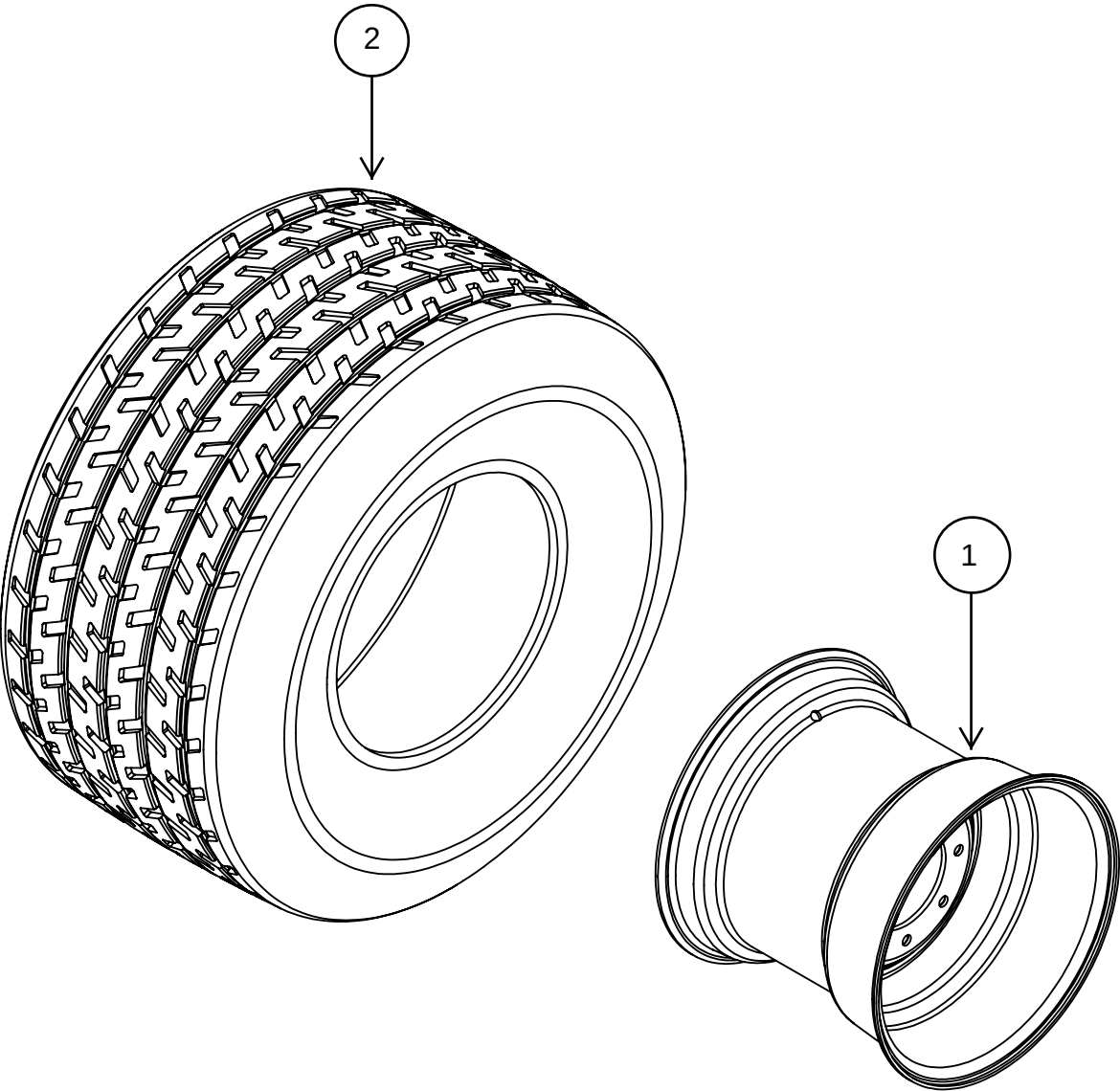
COMPLETE TIRE AND WHEEL ASSY P/N: P756300

|      |      |             |                                          |
|------|------|-------------|------------------------------------------|
| 2    | 1    | P756310     | TIRE: 20.5 X 8 X 10 CARLISLE P/N: 519143 |
| 1    | 1    | P756320     | RIM: 10 X 6                              |
| ITEM | QTY. | PART NUMBER | DESCRIPTION                              |



P.O. BOX 2135  
JAMESTOWN, ND 58402

|                                 |                                                                                                                                                                                    |                        |           |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|
| DRAWN BY                        | PROPRIETARY AND CONFIDENTIAL                                                                                                                                                       | UNLESS OTHERWISE NOTED |           |
| DATE                            | THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CHERRINGTON. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CHERRINGTON IS PROHIBITED. | TOLERANCES ON          |           |
| DO NOT SCALE                    |                                                                                                                                                                                    | DECIMALS               | FRACTIONS |
| PAGE                            |                                                                                                                                                                                    | .XX±.060               | ± 1/32    |
| TITLE                           |                                                                                                                                                                                    | ANGLES                 | ± 1°      |
| ASSY: WHEEL FRONT 20.5 X 8 X 10 | PART NO. P756300                                                                                                                                                                   | Pur/Mfg                | X         |



COMPLETE REAR TIRE / WHEEL ASSEMBLY P/N: P770350

|      |      |             |                                         |
|------|------|-------------|-----------------------------------------|
| 2    | 1    | P770351     | TIRE: 24 X 13.00 - 12 NHS 4PR ULTRATRAC |
| 1    | 1    | M40215      | RIM: WLD RIM SHELL & INSERT             |
| ITEM | QTY. | PART NUMBER | DESCRIPTION                             |



DRAWN BY

DATE

TOLERANCES ON

DECIMALS FRACTIONS ANGLES

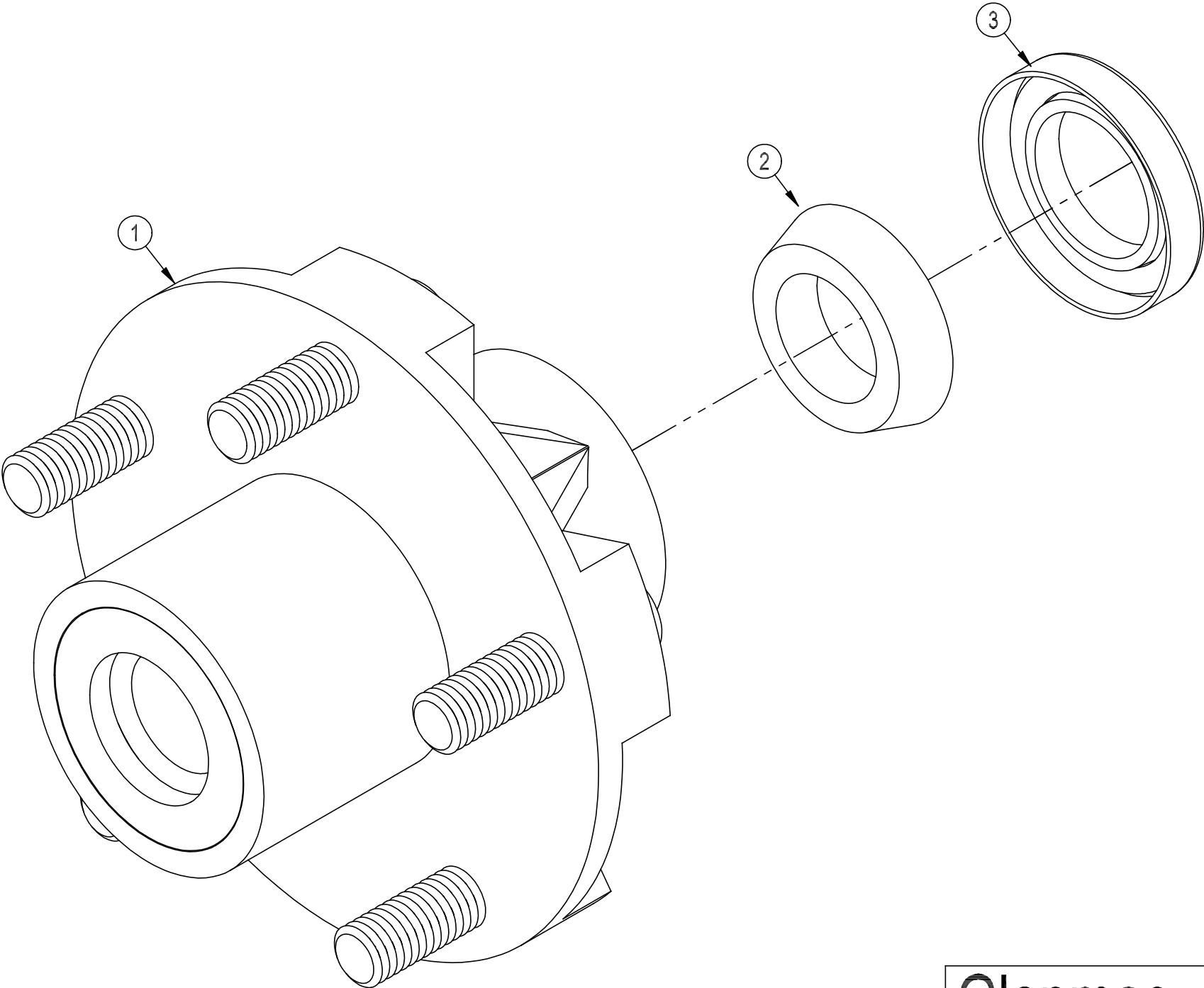
.XX±.060 ±1/32 ±1°

.XXX±.030

TITLE TIRE & WHEEL ASSY REAR 440

PART NO. P770350

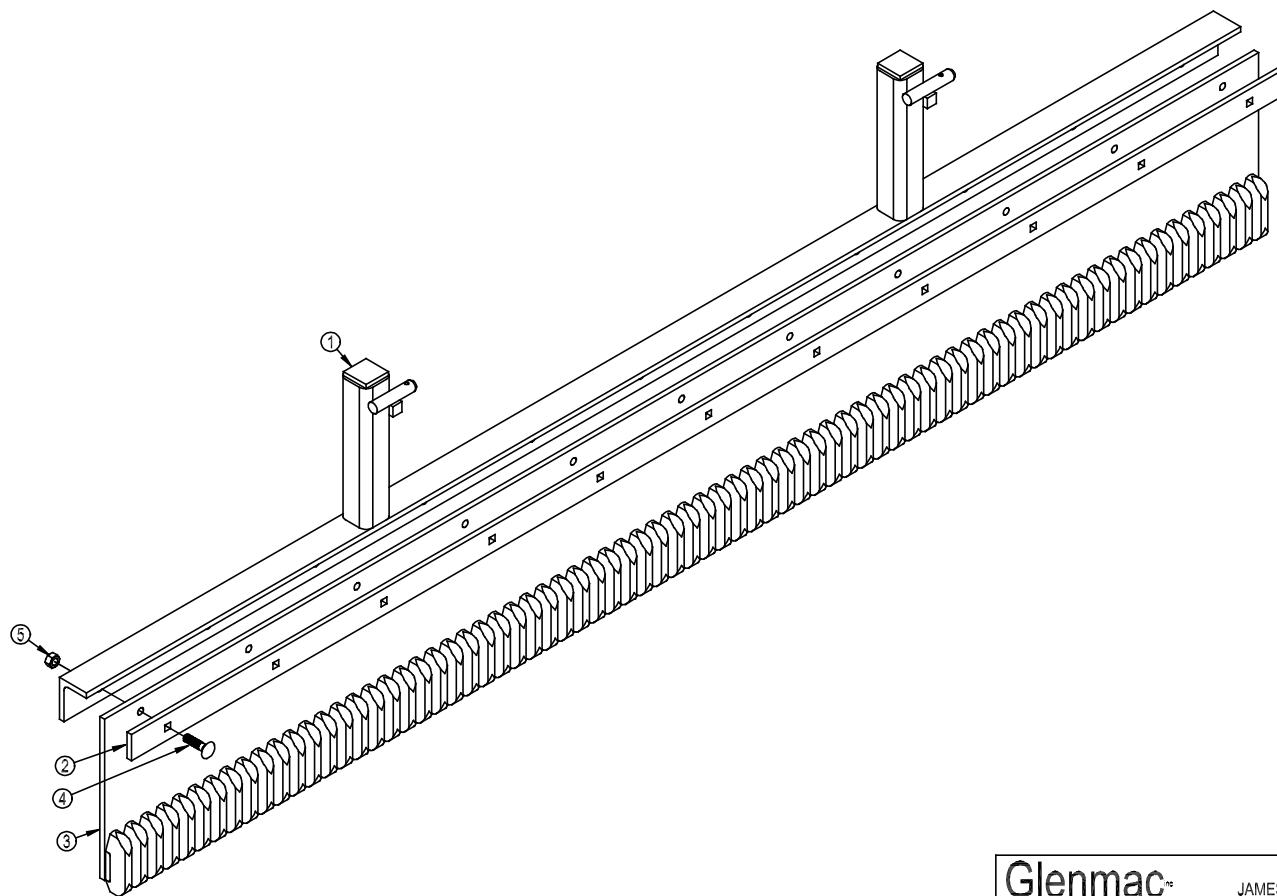
PART NO  
P765100



|      |     |         |                                              |
|------|-----|---------|----------------------------------------------|
| 3    | 1   | P756163 | GREASE SEAL                                  |
| 2    | 1   | P762200 | 1" BEARING CONE                              |
| 1    | 1   | P765100 | COMPLETE 5 BOLT HUB ASSY. CONTAINS ITEMS 1-3 |
| ITEM | QTY | PART NO | DESCRIPTION                                  |

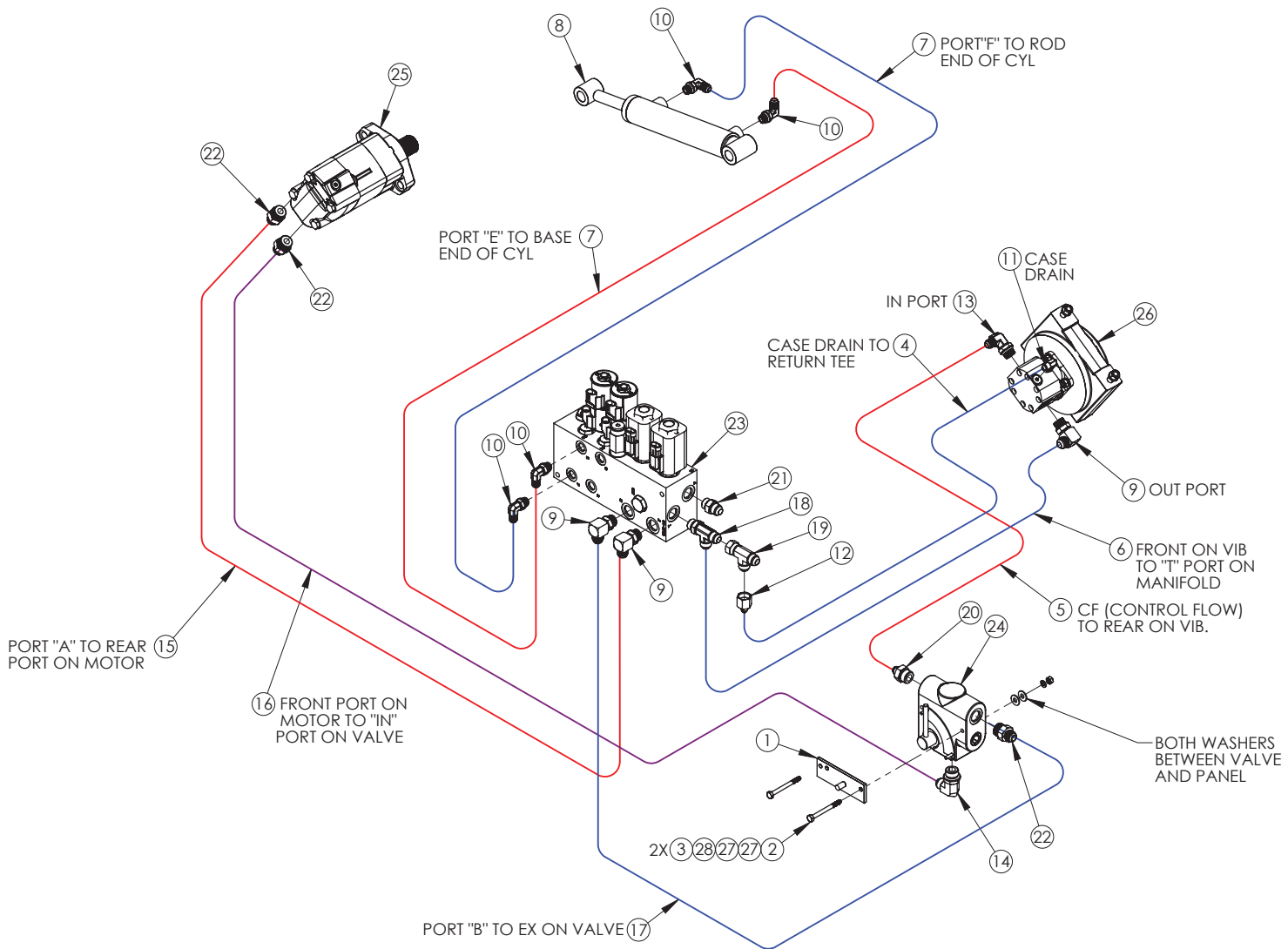
|                               |           |                                      |           |        |
|-------------------------------|-----------|--------------------------------------|-----------|--------|
| <b>Glenmac</b> <sup>inc</sup> |           | P.O. BOX 2135<br>JAMESTOWN, ND 58402 |           |        |
| DRAWN BY LEM                  |           | UNLESS OTHERWISE SPECIFIED           |           |        |
| DATE 6-21-05                  | SCALE 1:1 |                                      |           |        |
|                               |           |                                      |           |        |
|                               |           |                                      |           |        |
|                               |           | TOLERANCES ON                        |           |        |
|                               |           | DECIMALS                             | FRACTIONS | ANGLES |
|                               |           | .XX ±                                | ±         | ±      |
|                               |           | .XXX ±                               |           |        |
| TITLE 5 BOLT HUB ASSEMBLY     |           | PART NO                              | P765100   |        |

PART NO  
M40027



|      |     |         |                            |
|------|-----|---------|----------------------------|
| 5    | 11  | P155350 | 5/16 TOP LOCK NUT          |
| 4    | 11  | P104505 | 5/16 X 1-1/4 CARRIAGE BOLT |
| 3    | 1   | M40074  | COMB                       |
| 2    | 1   | M40042  | COMB STRAP                 |
| 1    | 1   | M40041  | COMB ANGLE WELDMENT        |
| ITEM | QTY | PART NO | DESCRIPTION                |

|                                                                                       |           |                                      |           |
|---------------------------------------------------------------------------------------|-----------|--------------------------------------|-----------|
|  |           | P.O. BOX 2135<br>JAMESTOWN, ND 58402 |           |
| DRAWN BY LEM                                                                          |           | UNLESS OTHERWISE SPECIFIED           |           |
| DATE 1-20-05                                                                          | SCALE 1:4 | TOLERANCES ON                        |           |
|                                                                                       |           | DECIMALS                             | FRACTIONS |
|                                                                                       |           | .XX ±                                | ANGLES ±  |
|                                                                                       |           | .XXX ±                               | ±         |
| TITLE COMB ASSEMBLY                                                                   |           | PART NO                              | M40027    |





# DRIVE MOTORS / GROOMER HYDRAULICS LEGEND

| <u>ITEM #</u> | <u>QTY.</u> | <u>PART #</u> | <u>DESCRIPTION</u>                |
|---------------|-------------|---------------|-----------------------------------|
| 1             | 1           | 700128        | WLDT: VALVE STOP, VIB             |
| 2             | 2           | P100411       | BOLT: HEX, 1/4"NC X 2 3/4" GR5 ZN |
| 3             | 2           | P150400       | NUT: HEX, 1/4" PLATED             |
| 4             | 1           | P242045       | HOSE: D6-4 X 45" 4FJX 4FJX        |
| 5             | 1           | P243944       | HOSE: D6-6 X 44" 6FJX 6FJX90      |
| 6             | 1           | P244046       | HOSE: D6-8 X 46" 8FJX 8FJX        |
| 7             | 2           | P246258       | HOSE: D6-4 X 57" 6FJX 6FJX        |
| 8             | 1           | P256300       | CYLINDER: 1 1/2" X 6" HYD.        |
| 9             | 3           | P261010       | FITTING: 8MJ 8MB90                |
| 10            | 4           | P261350       | FITTING: 6MJ 6MB90                |
| 11            | 1           | P261400       | FITTING: 4MJ 4MB90                |
| 12            | 1           | P261456       | FITTING 8FJ 4MJ                   |
| 13            | 1           | P261530       | FITTING: 6MJ 8MB90                |
| 14            | 1           | P261610       | FITTING: 8MJ 10MB 90 ELBOW        |
| 15            | 1           | P264044       | HOSE: D6-8 X 44" 8FJX 8FJX        |
| 16            | 1           | P264052       | HOSE: D6-8 X 52" 8FJX 8FJX        |
| 17            | 1           | P264931       | HOSE: D6-8 X 31" 8FJX 8FJX90      |
| 18            | 1           | P265653       | FITTING: 8MB 8MJ 8MJ TEE          |
| 19            | 1           | P265655       | FITTING: 8MJ 8FJX 8MJ TEE         |
| 20            | 1           | P276215       | FITTING: 6MJ 10MB                 |
| 21            | 1           | P276310       | FITTING: 8MJ 8MB                  |
| 22            | 3           | P276430       | FITTING: 8MJ-10MB ADAPTER         |
| 23            | 1           | P291100       | VALVE: 740 ASSY MANIFOLD          |
| 24            | 1           | P294150       | VALVE: BRAND FC55-10-SAE*37       |
| 25            | 1           | P350730       | MOTOR: HYD CL 2000, 9.6 DISP      |
| 26            | 1           | P358500       | VIBRATOR: C2-0.5-2HC              |
| 27            | 4           | P850104       | WASHER: FLAT 1/4" ZP              |
| 28            | 2           | P851104       | WASHER: LOCK 1/4"                 |
| 29            | 1           | P251688       | HOSE: 8 X 88" 8FJX 8FJX           |
| 30            | 1           | P264044       | HOSE: 6 X 44" 8FJX 8FJX           |
| 31            | 1           | P264052       | HOSE; 6 X 52 8FJX 8FJX            |

PART NO.  
P291100

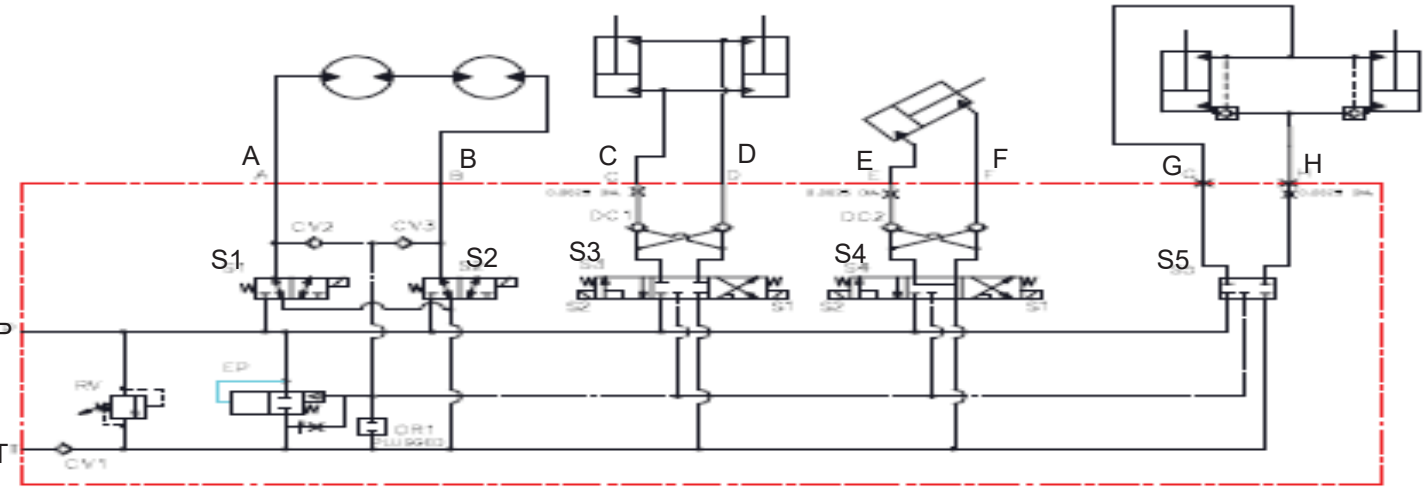
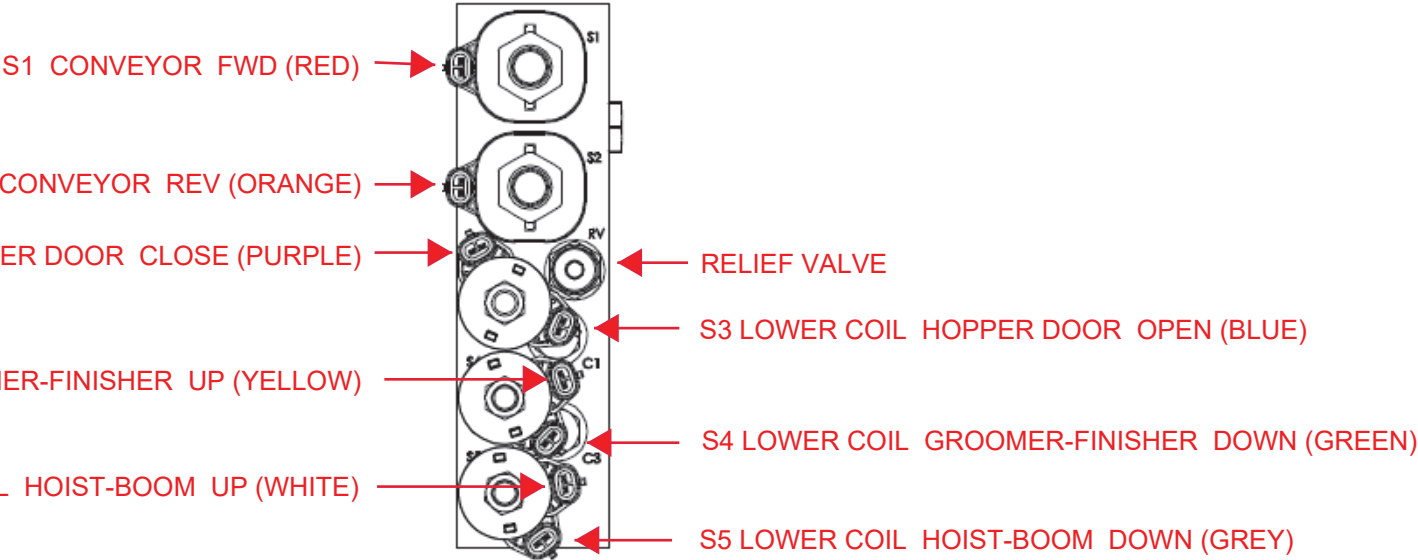
WORK SECTION CONTROL FUNCTION:  
S1 CONVEYOR FORWARD  
S2 CONVEYOR REVERSE  
S3 HOPPER DOOR OPEN / CLOSE  
S4 GROOMER - FINISHER RAISE / LOWER  
S5 BOOM - HOIST RAISE / LOWER (NOT USED ON GROUND DUMP VERSION MACHINES)

| LOCATION     | CARTRIDGE  | COIL       | COIL SPACER | SEAL KIT   |
|--------------|------------|------------|-------------|------------|
| RELIEF VALVE | 71.P291101 |            |             |            |
| EP VALVE     | 71.P291113 |            |             |            |
| S1           | 71.P291122 | 71.P291130 |             | 71.P291123 |
| S2           | 71.P291122 | 71.P291130 |             | 71.P291123 |
| S3           | 71.P292402 | 71.P291110 | 71.P291112  | 71.P291117 |
| S4           | 71.P291111 | 71.P291110 | 71.P291112  | 71.P291117 |
| S5           | 71.P291111 | 71.P291110 | 71.P291112  | 71.P291117 |

71.P276107 .0625 DIA. ORFICE DISC INSTALLED PORTS: C, E, H

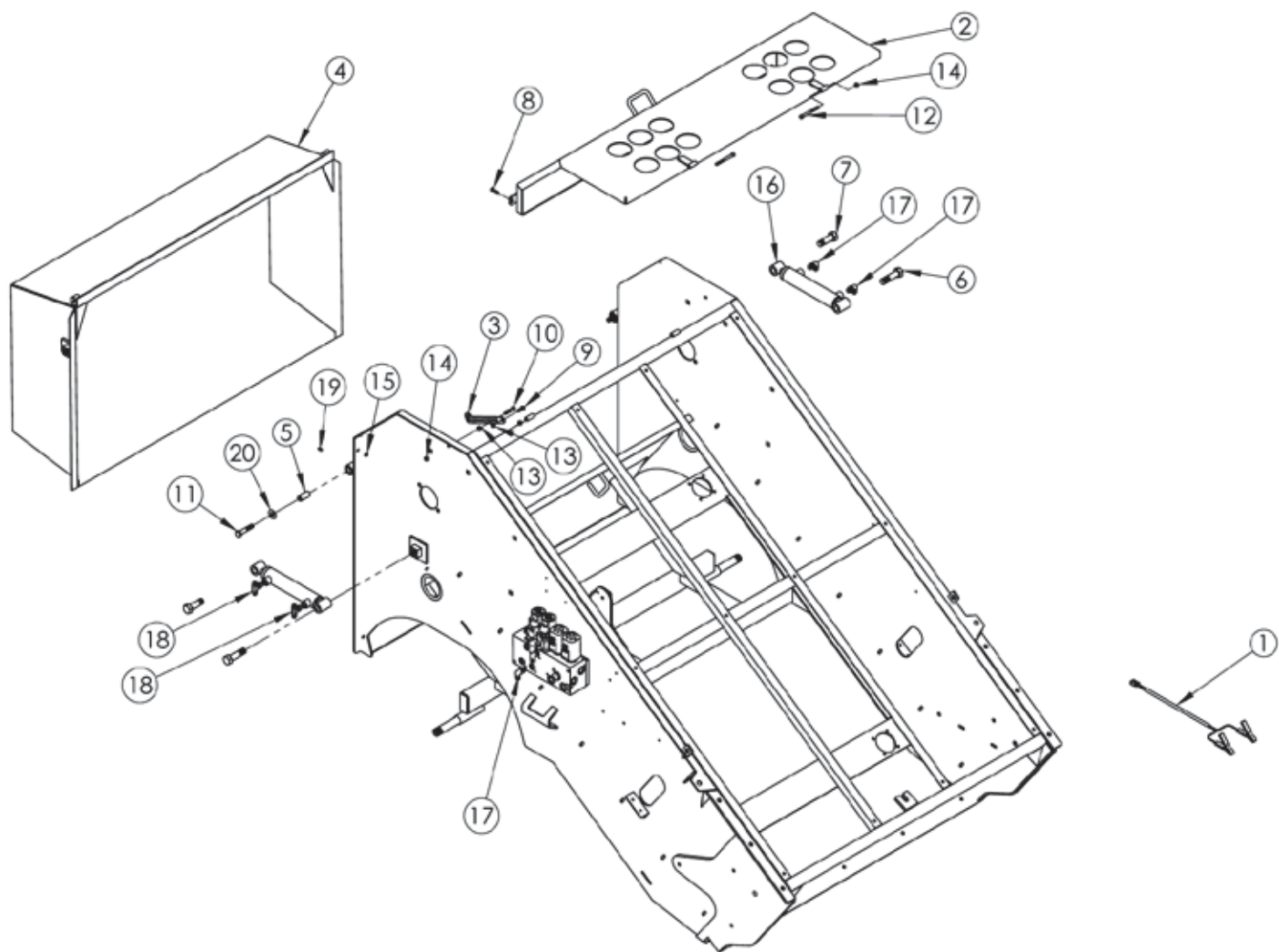
RELIEF PRESSURE SETTING 1500 PSI

WORK SECTION / CONTROL FUNCTION / COIL / WIRE COLOR LOCATION



|              |                                                                                                                                                                                    |                                         |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| DRAWN BY     | PROPRIETARY AND CONFIDENTIAL                                                                                                                                                       | UNLESS OTHERWISE NOTED                  |
| DATE         | THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CHERRINGTON. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CHERRINGTON IS PROHIBITED. | TOLERANCES ON DECIMALS FRACTIONS ANGLES |
| DO NOT SCALE |                                                                                                                                                                                    | .XX±.060 ±1/32 ±1°                      |
| PAGE         |                                                                                                                                                                                    | .XXX±.030                               |
| TITLE        | VALVE ASSEMBLY                                                                                                                                                                     | PART NO. 700109 / P291100               |
|              |                                                                                                                                                                                    | Pur/Mfg X                               |

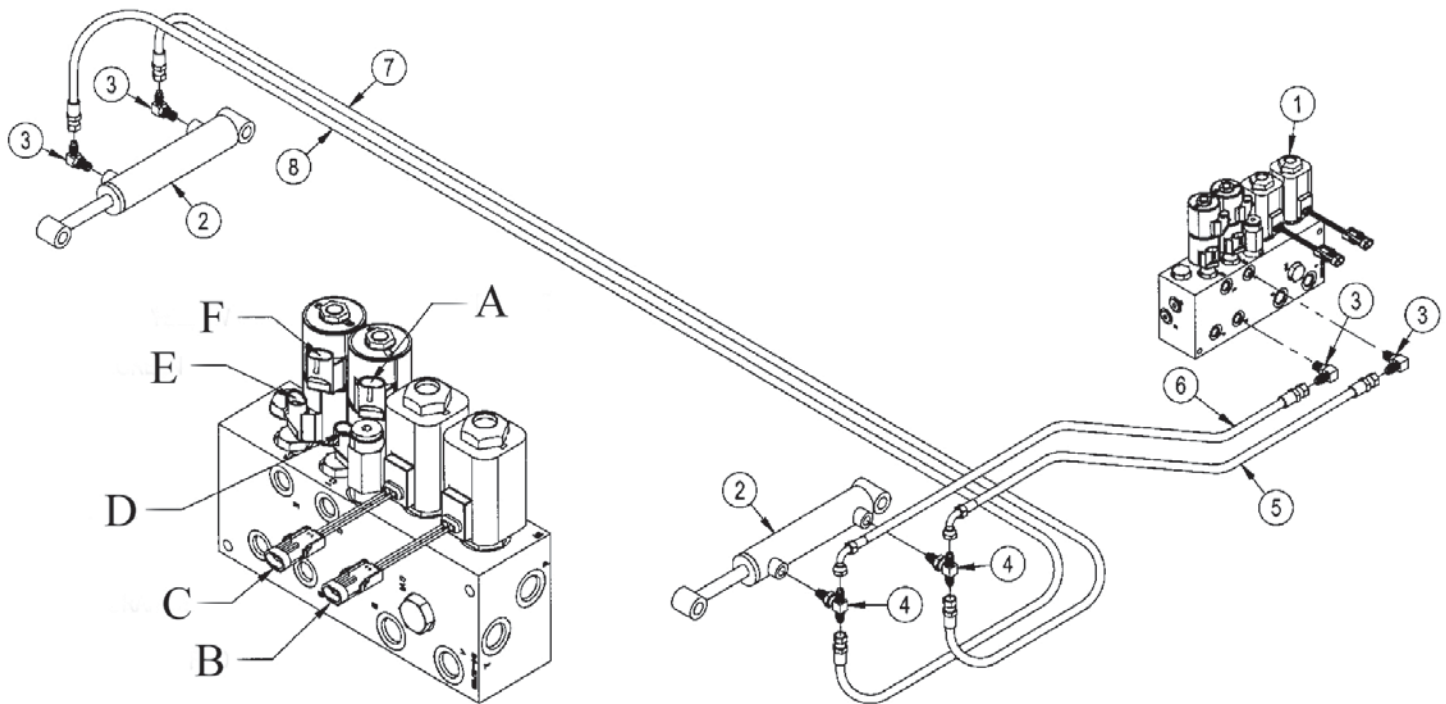
# 440C GROUND DUMP ASSEMBLY SCHEMATIC



## 440C GROUND DUMP ASSEMBLY LEGEND

| <u>ITEM NO.</u> | <u>QTY.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                |
|-----------------|-------------|-----------------|-----------------------------------|
| 1               | 1           | 470317          | CORD, POWER ADAPTER               |
| 2               | 1           | 700074          | SHIELD WLD: REAR CONV             |
| 3               | 1           | M30139          | HOOD LOCK                         |
| 4               | 1           | M40011          | HOPPER: 700 SERIES GROUND DUMP    |
| 5               | 2           | M40106          | BUSHING: .75" X .5" X 1.56"       |
| 6               | 2           | M5499           | CYL BOLT: 3/4" X 2.812"           |
| 7               | 2           | M5500           | CYL BOLT: 3/4" X 2.312"           |
| 8               | 2           | P100404         | BOLT: HEX, 1/4"NC X 1"GR5         |
| 9               | 1           | P100503         | BOLT: HEX, 5/16"NC X 3/4"GR5      |
| 10              | 1           | P100506         | BOLT: HEX, 5/16" NCX 1 1/2"GR5    |
| 11              | 2           | P100810         | BOLT: HEX, 1/2" X 2 1/2"GR.5      |
| 12              | 2           | P110512         | 5/16"-18 X 3" SOCKET HD CAP SCREW |
| 13              | 2           | P155300         | NUT: HEX, 5/16"-18 JAM            |
| 14              | 3           | P155350         | NUT: HEX, 5/16 TOP-LOCK           |
| 15              | 2           | P158003         | NUT, HEX, 1/4 ELASTIC STOP        |
| 16              | 2           | P256300         | CYLINDER: 1 1/2" X 6" CH          |
| 17              | 4           | P261350         | FITTING: 6MJ 6MB90                |
| 18              | 2           | P265500         | FITTING: 6MJ 6MJ 6MB TEE          |
| 19              | 2           | P620200         | FITTING: GREASE, 1/4"-28 STRT     |
| 20              | 2           | P850107         | WASHER: FLAT ZINC- 7/16"          |

# 440C GROUND DUMP HYDRAULICS ASSEMBLY

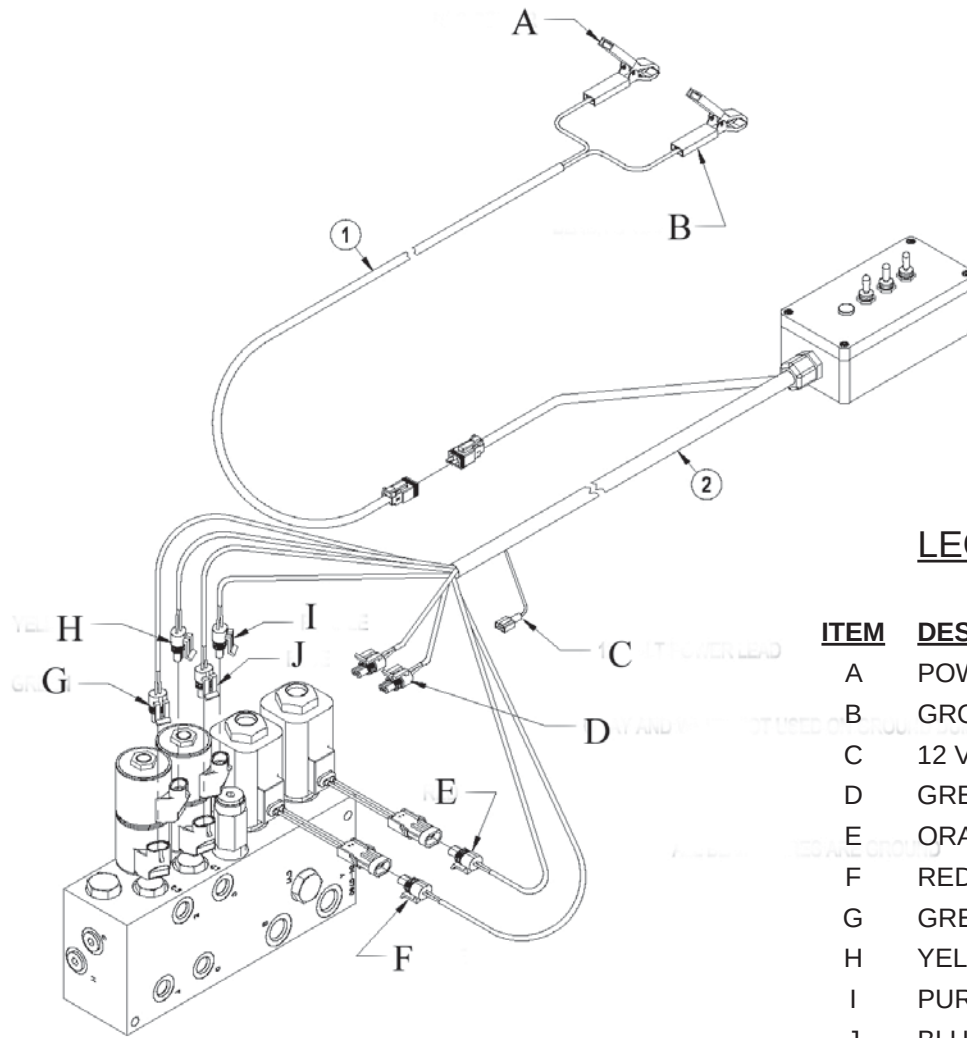


## LEGEND

| ITEM | DESCRIPTION |
|------|-------------|
| A    | PURPLE      |
| B    | RED         |
| C    | ORANGE      |
| D    | BLUE        |
| E    | GREEN       |
| F    | YELLOW      |

| Item | Qty | Part ID | Description                    |
|------|-----|---------|--------------------------------|
| 1    | 1   | P291100 | HYDRAULIC MANIFOLD 04-0760     |
| 2    | 2   | P256250 | HYDRAULIC CYLINDER 1-1/2" X 6" |
| 3    | 4   | P261350 | ELBOW 6MB-6MJ90°               |
| 4    | 2   | P265500 | TEE 6MJ-6MJ-6MB                |
| 5    | 1   | P246129 | 1/4" HOSE 6FJX-6FJX90° (29")   |
| 6    | 1   | P246136 | 1/4" HOSE 6FJX-6FJX90° (36")   |
| 7    | 1   | P246367 | 1/4" HOSE 6FJX-6FJX (66")      |
| 8    | 1   | P246377 | 1/4" HOSE 6FJX-6FJX (77")      |

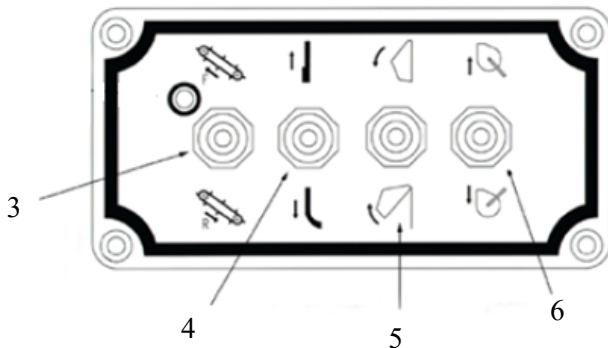
# 440C GROUND DUMP ELECTRICAL ASSEMBLY



## LEGEND

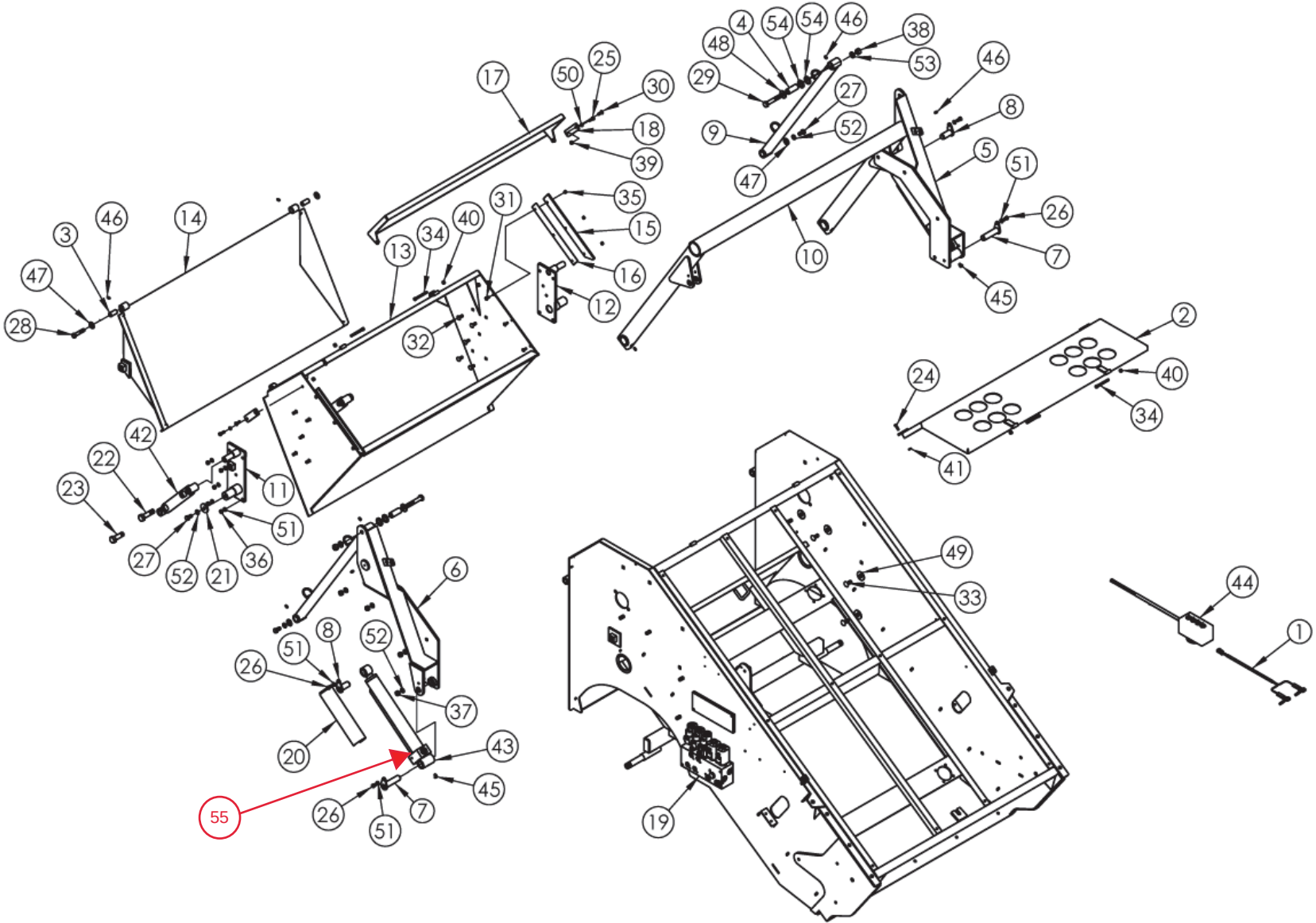
| ITEM | DESCRIPTION                |
|------|----------------------------|
| A    | POWER (RED)                |
| B    | GROUND (BLACK)             |
| C    | 12 VOLT POWER LEAD         |
| D    | GREY AND WHITE (NOT USED)  |
| E    | ORANGE                     |
| F    | RED                        |
| G    | GREEN                      |
| H    | YELLOW                     |
| I    | PURPLE                     |
| J    | BLUE                       |
| *    | ALL BLACK WIRES ARE GROUND |

| Item | Qty | Part ID | Description                     |
|------|-----|---------|---------------------------------|
| 1    | 1   | 470317  | POWER CABLE ASSEMBLY            |
| 2    | 1   | P296860 | CONTROL BOX                     |
| REF  |     | P296860 | "A" CONTROL BOX WITH CONNECTORS |
| REF  |     | P296860 | "B" CABLE ASSEMBLY              |
| 3    | 1   | P298180 | CONVEYOR FWD/REV SWITCH         |
| 4    | 1   | P295009 | FUNCTION SWITCH                 |
| 5    | 1   | P259009 | FUNCTION SWITCH                 |
| 6    | 1   | P259009 | FUNCTION SWITCH                 |





# 440XL HIGH LIFT ASSEMBLY SCHEMATIC

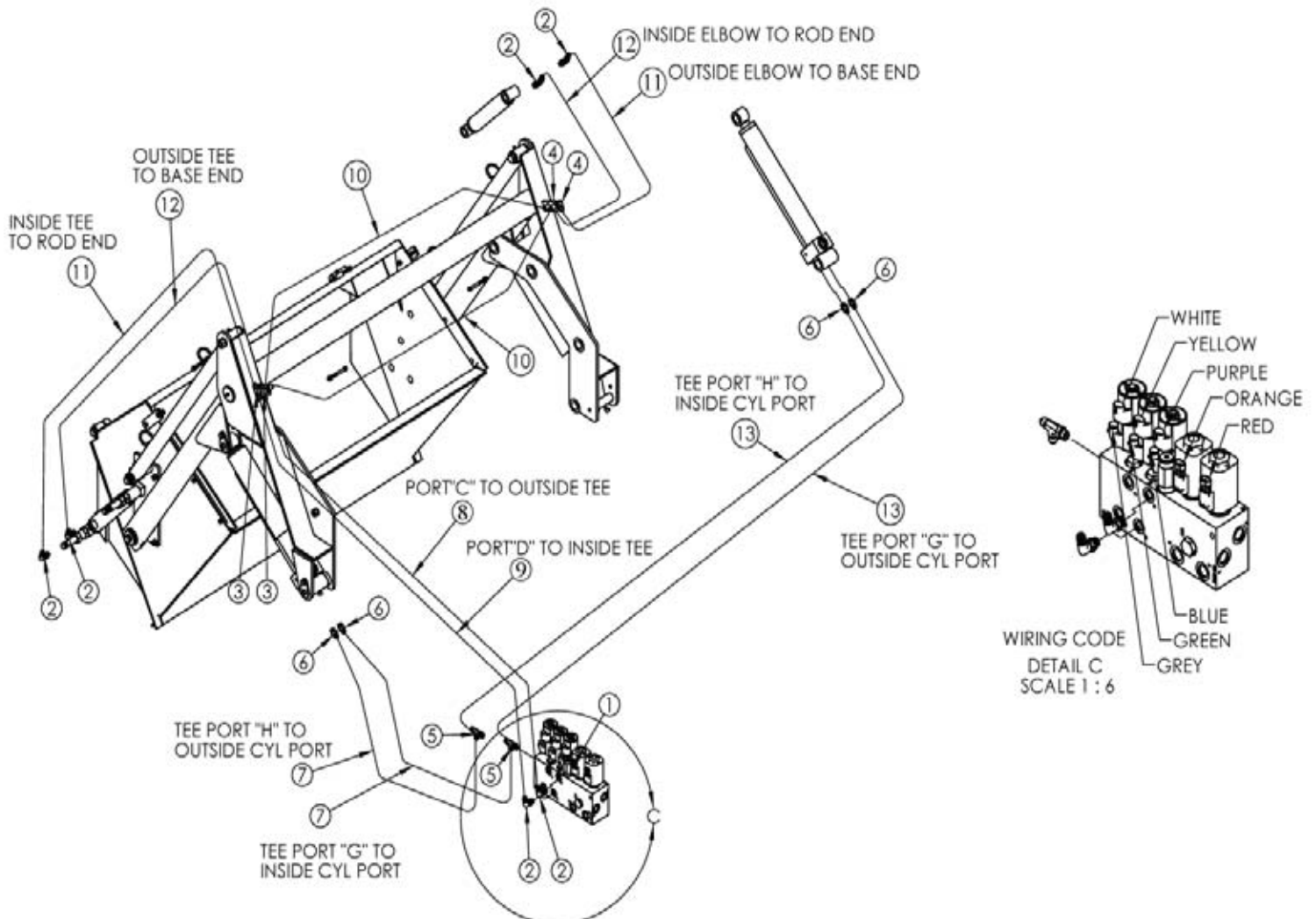




# 440XL HIGH LIFT ASSEMBLY LEGEND

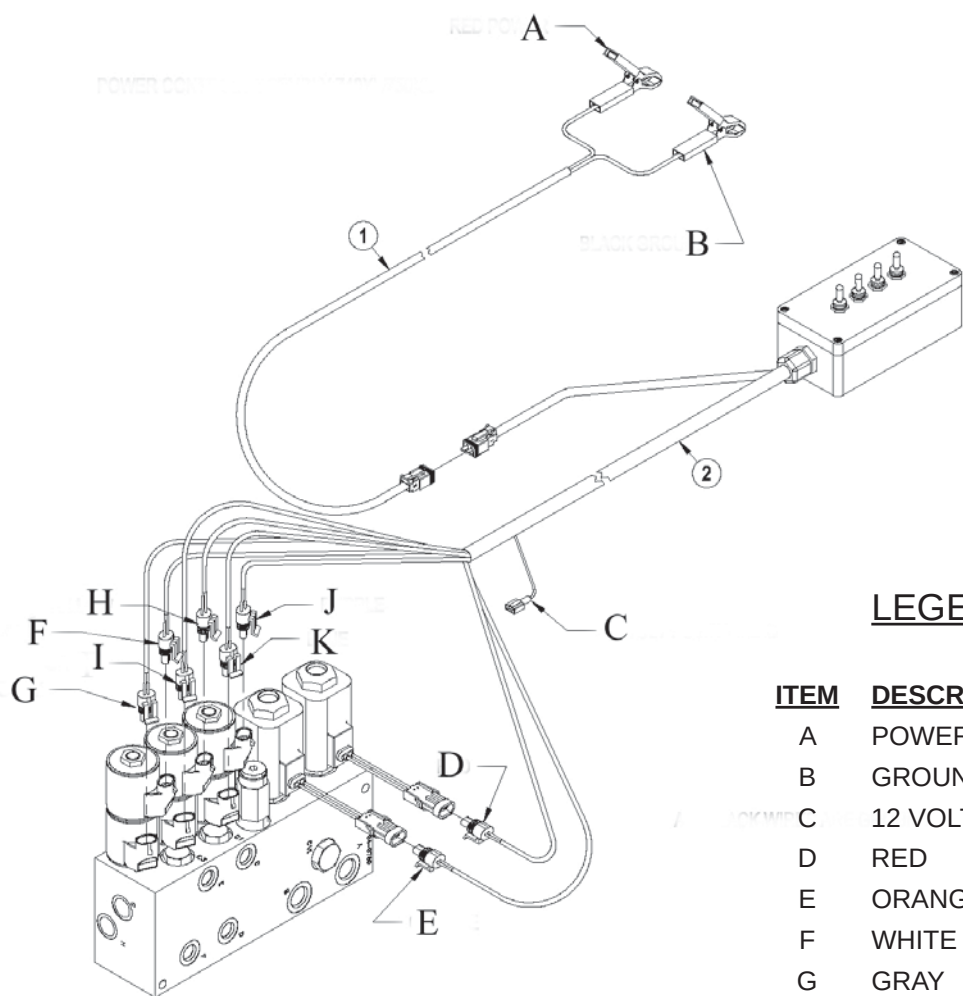
| <u>ITEM NO.</u> | <u>QTY.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                                |
|-----------------|-------------|-----------------|---------------------------------------------------|
| 1               | 1           | 470317          | CORD, POWER ADAPTER                               |
| 2               | 1           | 700076          | SHIELD WLD: REAR CONV XL                          |
| 3               | 2           | M40106          | BUSHING: .75" X .5" X 1.56"                       |
| 4               | 2           | M40116          | BUSHING: BOOM LINK PIVOT                          |
| 5               | 1           | M40124          | BOOM ASSEMBLY LEFT                                |
| 6               | 1           | M40125          | BOOM ASSEMBLY RIGHT                               |
| 7               | 2           | M40127          | PIN: LOCK, 3-13/16"                               |
| 8               | 2           | M40128          | LOCK PIN: 2-3/16"                                 |
| 9               | 2           | M40131          | STABILIZER ARM                                    |
| 10              | 1           | M40138          | BOOM WELDMENT 700 SERIES                          |
| 11              | 1           | M40142          | LIFT PLATE ASM RIGHT                              |
| 12              | 1           | M40143          | LIFT PLATE ASM LEFT                               |
| 13              | 1           | M40165          | HOPPER BODY XL                                    |
| 14              | 1           | M40166          | HOPPER DOOR XL                                    |
| 15              | 2           | M40167          | RUBBER RAIL: HOPPER                               |
| 16              | 2           | M40168          | STRAP: HOPPER RAIL                                |
| 17              | 1           | M40170          | DEFLECTOR ASM: XL HOPPER                          |
| 18              | 2           | M40173          | DEFLECTOR LINK                                    |
| 19              | 1           | 700109          | ASSY: XLA HYD MANIFOLD                            |
| 20              | 2           | M40212          | CYL PROP BAR ASM                                  |
| 21              | 2           | M5009-5         | 3/16" X 1/2" X 1-3/4" WASHER                      |
| 22              | 2           | M5499           | CYL BOLT: 3/4" X 2.812"                           |
| 23              | 2           | M5500           | CYL BOLT: 3/4" X 2.312"                           |
| 24              | 2           | P100404         | BOLT: HEX, 1/4"NC X 1"GR5                         |
| 25              | 2           | P100504         | BOLT: HEX, 5/16" NC X 1" GR5                      |
| 26              | 4           | P100603         | BOLT: HEX, 3/8"NC X 3/4" GR5                      |
| 27              | 4           | P100804         | 1/2-13 X 1" HEX BOLT                              |
| 28              | 2           | P100810         | BOLT: HEX, 1/2" X 2 1/2"GR.5                      |
| 29              | 2           | P101014         | BOLT: HEX, 5/8" X 3 1/2"GR.5                      |
| 30              | 2           | P103504         | SCK HD CAP SC FLAT: 5/16" x 1                     |
| 31              | 6           | P104403         | BOLT: CARRIAGE, 1/4" x 3/4" GR5                   |
| 32              | 10          | P104604         | BOLT: CARRIAGE, 3/8" X 1"GR.5                     |
| 33              | 8           | P104805         | BOLT: CARRIAGE, 1/2" X 1 1/4" GR5                 |
| 34              | 4           | P110512         | 5/16"-18 X 3" SOCKET HD CAP SCREW                 |
| 35              | 6           | P150400         | NUT: HEX, 1/4" PLATED                             |
| 36              | 10          | P150600         | 3/8-16 HEX NUT                                    |
| 37              | 8           | P150800         | NUT: HEX 1/2"-13NC ZP                             |
| 38              | 2           | P151000         | NUT: HEX, 5/8" PLATED                             |
| 39              | 2           | P155300         | NUT: HEX, 5/16"-18 JAM                            |
| 40              | 4           | P155350         | NUT: HEX, 5/16 TOP-LOCK                           |
| 41              | 2           | P158003         | NUT, HEX, 1/4 ELASTIC STOP                        |
| 42              | 2           | P256300         | CYLINDER: 1 1/2" X 6" CH                          |
| 43              | 2           | P257850         | CYLINDER: 2" X 12" W-LC CH                        |
| 44              | 1           | P296860         | ASSM; XL CONTROL BOX                              |
| 45              | 2           | P620100         | FITTING: GREASE, 1/4"-28 x 90°                    |
| 46              | 10          | P620200         | FITTING: GREASE, 1/4"-28 STRT                     |
| 47              | 4           | P850107         | WASHER: FLAT ZINC- 7/16"                          |
| 48              | 2           | P850109         | WASHER: FLAT ZINC- 9/16"                          |
| 49              | 8           | P850110         | WASHER: FLAT ZINC- 5/8"                           |
| 50              | 2           | P851105         | WASHER: LOCK 5/16"                                |
| 51              | 14          | P851106         | WASHER: LOCK 3/8" ZP                              |
| 52              | 12          | P851108         | WASHER: LOCK 1/2" ZP                              |
| 53              | 2           | P851110         | WASHER: LOCK 5/8"                                 |
| 54              | 4           | P855116         | BUSH: N.R.MACH 10GA X 1"                          |
| 55              | 2           | 71.P294270      | LOAD CHECK CARTRIDGE - NOT SUPPLIED WITH CYLINDER |

# 440XLC HIGH LIFT HYDRAULICS ASSEMBLY



| ITEM NO. | QTY. | PART NO. | DESCRIPTION                         |
|----------|------|----------|-------------------------------------|
| 1        | 1    | 700109   | ASSY: XLA HYD MANIFOLD              |
| 2        | 6    | P261350  | FITTING: 6MJ 6MB90                  |
| 3        | 2    | P265400  | FITTING: 6MJ 6MJ 6MJ BLKHD DROP TEE |
| 4        | 2    | P265410  | FITTING: 6MJ 6MJ BLKHD 90           |
| 5        | 2    | P265460  | FITTING: 6MJ 6MB 6MJ TEE            |
| 6        | 4    | P276101  | ADAPTER 6MB-6MJ                     |
| 7        | 2    | P246018  | HOSE: -4 X 18 6FJX 6FJX90           |
| 8        | 1    | P246131  | HOSE: -4 X 31 6FJX 6FJX             |
| 9        | 1    | P246133  | HOSE: -4 X 33.5 6FJX 6FJX           |
| 10       | 2    | P246254  | HOSE: -4 X 54 6FJX 6FJX             |
| 11       | 2    | P246258  | HOSE: -4 X 57 6FJX 6FJX             |
| 12       | 2    | P246361  | HOSE: -4 X 61 6FJX 6FJX             |
| 13       | 2    | P246492  | HOSE: -4 X 92 6FJX 6FJX             |

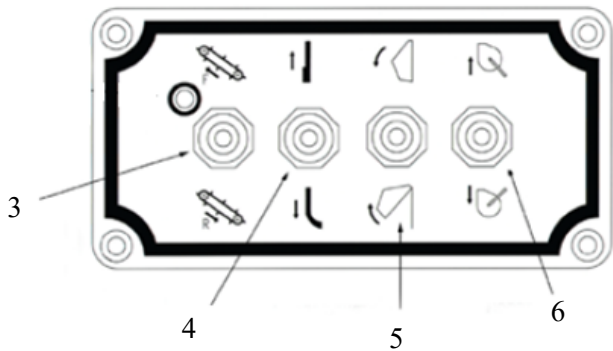
# 440XLC HIGH LIFT ELECTRICAL ASSEMBLY



## LEGEND

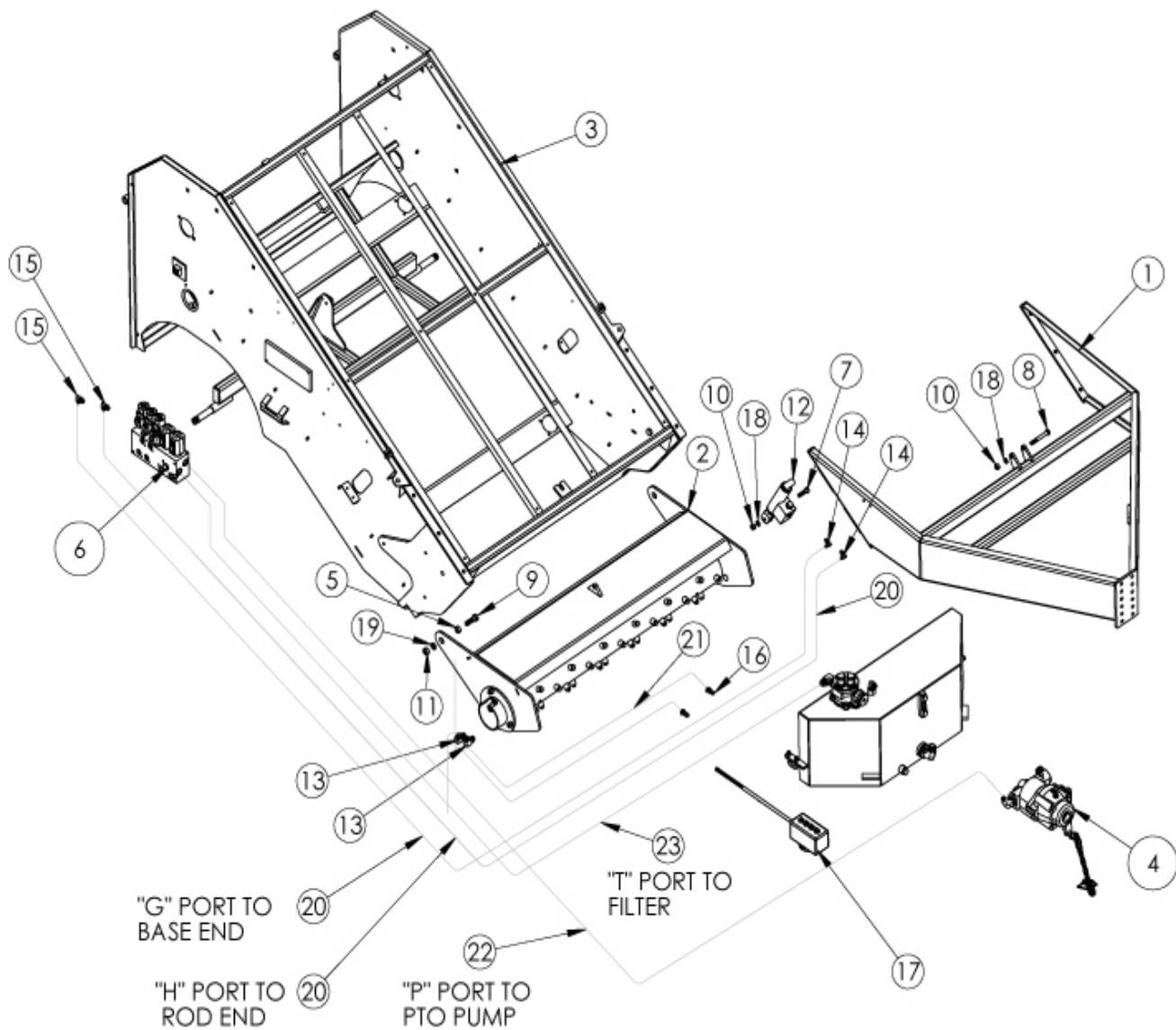
| ITEM | DESCRIPTION        |
|------|--------------------|
| A    | POWER (RED)        |
| B    | GROUND (BLACK)     |
| C    | 12 VOLT POWER LEAD |
| D    | RED                |
| E    | ORANGE             |
| F    | WHITE              |
| G    | GRAY               |
| H    | YELLOW             |
| I    | GREEN              |
| J    | PURPLE             |
| K    | BLUE               |

\* ALL BLACK WIRES ARE GROUND



| Item | Qty | Part ID | Description                     |
|------|-----|---------|---------------------------------|
| 1    | 1   | 470317  | POWER CABLE ASSEMBLY            |
| 2    | 1   | P296860 | CONTROL BOX ASSEMBLY            |
| REF  |     | P296860 | "A" CONTROL BOX WITH CONNECTORS |
| REF  |     | P296860 | "B" CABLE ASSEMBLY              |
| 3    | 1   | P298180 | CONVEYOR FWD/REV SWITCH         |
| 4    | 1   | P295009 | FUNCTION SWITCH                 |
| 5    | 1   | P259009 | FUNCTION SWITCH                 |
| 6    | 1   | P259009 | FUNCTION SWITCH                 |

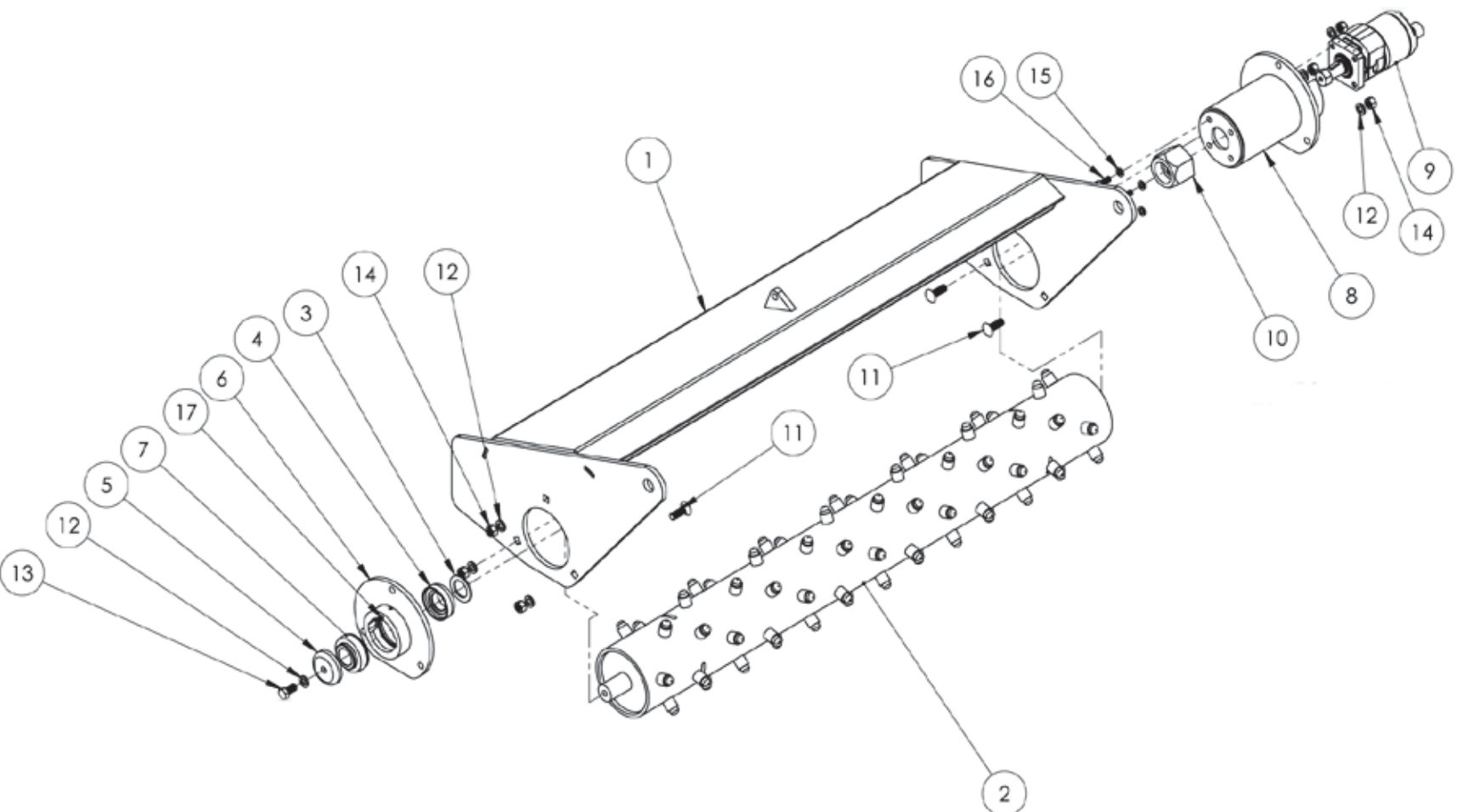
# 440RC BASE ASSEMBLY SCHEMATIC



## 440RC BASE ASSEMBLY LEGEND

| <u>ITEM NO.</u> | <u>QTY.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u>                 |
|-----------------|-------------|-----------------|------------------------------------|
| 1               | 1           | 700019          | HITCH WELD LONG                    |
| 2               | 1           | 700043          | POWER RAKE ASSEMBLY                |
| 3               | 1           | 700046          | MAIN FRAME WELDMENT                |
| 4               | 1           | 700102          | KIT: PTO PUMP ASM                  |
| 5               | 2           | CP0018          | BUSHING: 1" X 5/8" X .438"         |
| 6               | 1           | M40182          | VALVE ASM: XL MANIFOLD             |
| 7               | 1           | P100807         | 1/2-13 X 1-3/4" HEX BOLT           |
| 8               | 1           | P100815         | BOLT: HEX, 1/2-13 NC X 3 3/4" GR.5 |
| 9               | 2           | P101008         | BOLT: HEX, 5/8-11 NC X 2           |
| 10              | 2           | P155850         | NUT: HEX, 1/2" TOP-LOCK            |
| 11              | 2           | P157500         | NUT: HEX, 5/8"-11 TOP-LOCK         |
| 12              | 1           | P259160         | CYLINDER: 1-1/2B X 4S W/CAV CH     |
| 13              | 2           | P261010         | ELBOW 8MB-8MJ90°                   |
| 14              | 2           | P261400         | FITTING: 4MJ 4MB90                 |
| 15              | 2           | P261460         | FITTING: 4MJ 6MB90                 |
| 16              | 2           | P272661         | COUPLER, MALE HYD                  |
| 17              | 1           | P296860         | ASSM; XL CONTROL BOX               |
| 18              | 2           | P851108         | 1/2" LOCK WASHER                   |
| 19              | 2           | P851110         | WASHER: LOCK 5/8"                  |
| 20              | 2           | P262097         | HOSE: D6-4 X 97" 4FJX 4FJX         |
| 21              | 2           | P264102         | HOSE: D6-8 X 102" 10MB 8FJX        |
| 22              | 1           | P264133         | HOSE: D6-8 X 133" 8FJX 8FJX        |
| 23              | 1           | P266068         | HOSE: D6-12 X 68" 12FJX 8FJX       |

# 440 RC ROLLER ASSEMBLY SCHEMATIC





## 440 RC ROLLER ASSEMBLY LEGEND

| <u>ITEM</u> | <u>QTY</u> | <u>PART#</u> | <u>DESCRIPTION</u>                |
|-------------|------------|--------------|-----------------------------------|
| 1           | 1          | 700034       | FRAME: POWER RAKE 700             |
| 2           | 1          | 700023       | ROLLER ASM                        |
| 3           | 1          | P855122      | BUSH: N.R.MACH 10GA. X 1 3/8"     |
| 4           | 1          | CP0016       | COLLAR: IPTCI 1-3/8" BEARING      |
| 5           | 1          | CP0017       | CAP: IPTCI 1-3/8" BEARING         |
| 6           | 1          | 700035       | BEARING HOUSING WLD: 1-3/8"       |
| 7           | 1          | P009501      | BEARING INSERT:1 3/8"             |
| 8           | 1          | 700036       | MOTOR HOUSING WLD: RAKE           |
| 9           | 1          | 700092       | MOTOR, HYD MODIFIED               |
| 10          | 1          | CP0020       | DRIVER HUB: 1" TAPER X 2.5 HEX    |
| 11          | 6          | P104806      | BOLT: CARRIAGE, 1/2" X 1-1/2" GR5 |
| 12          | 7          | P851108      | WASHER: LOCK 1/2"                 |
| 13          | 1          | P100804      | BOLT: HEX, 1/2" X 1"GR.5ZINC      |
| 14          | 6          | P150800      | NUT: HEX, 1/2" PLATED             |
| 15          | 4          | P851106      | WASHER: LOCK 3/8"                 |
| 16          | 4          | P100604      | BOLT: HEX, 3/8"NC X 1"GR5 ZN      |
| 17          | 1          | P620200      | FITTING: GREASE, 1/4"-28 STRT     |