



# Utility Inspection Systems Parts Manual

2024

[www.subsite.com](http://www.subsite.com)

# Contact and Location Information:

## Subsite Oklahoma

1950 W Fir Street

Perry, OK 74074

PH 800.846.2713

[customerservice-ok@subsite.com](mailto:customerservice-ok@subsite.com)

[productsupport-ok@subsite.com](mailto:productsupport-ok@subsite.com)

## Subsite Kentucky

285 Midland Trail

Mt. Sterling, KY 40353

PH 859.499.0122

[support-ky@subsite.com](mailto:support-ky@subsite.com)

# Table of Contents:

## PAGE

### EQUIPMENT IDENTIFICATION ASSISTANCE

4-5

### CAMERAS

|             |   |
|-------------|---|
| MINI        | 6 |
| PROBE       | 7 |
| TRAKSTAR    | 8 |
| TRAKSTAR II | 8 |

### REELS

|           |         |
|-----------|---------|
| PUSH REEL | 9 - 10  |
| CPR       | 11 - 27 |
| M/L REEL  | 28 - 54 |

### TRANSPORTS

|                                                          |          |
|----------------------------------------------------------|----------|
| PROTRAK CRAWLERS                                         | 55 - 58  |
| STORM DRAIN TRACTOR                                      | 59 - 73  |
| TRANSTAR (INCLUDING TIRES, WHEELS & HUBS)                | 74 - 83  |
| TRANSTAR II                                              | 84 - 85  |
| MINI TRACTOR (INCLUDING TIRES, WHEELS & HUBS)            | 86 - 90  |
| LATERAL LAUNCHER, GEN 2 (INCLUDING TIRES, WHEELS & HUBS) | 91 - 101 |

Table of Contents Continued:

PAGE

**CONTROLLERS**

|                     |     |
|---------------------|-----|
| MAINLINE CONTROLLER | 102 |
|---------------------|-----|

**CABLES / CONNECTORS / BULLET KITS**

|                      |           |
|----------------------|-----------|
| TEST CABLES          | 103       |
| BULLET STYLE CABLES  | 103 - 104 |
| BULKHEAD CONNECTORS  | 104       |
| SINCON CABLE         | 105       |
| PUSH CABLE           | 105       |
| LATERAL LAUNCH CABLE | 105       |
| BULLET KITS          | 106-107   |

**MISC**

|                  |           |
|------------------|-----------|
| RECHARGE KIT     | 108       |
| ARTICULATING ARM | 109 - 110 |
| DOWNHOLE ROLLER  | 111 - 113 |

# UTILITY INSPECTION

## EQUIPMENT IDENTIFICATION ASSISTANCE

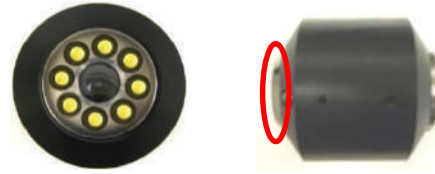
**PLEASE NOTE SERIAL # PREFIX IS BOLD & UNDERLINED**



### 1306

SERIAL NUMBER STRUCTURE

**C3E**XXXXX / **1306**XXXX



### 1545 SERIES

SERIAL NUMBER STRUCTURE

**C3N**XXXXX / **C3NX**XXXX

**C3S**XXXXX / **C3SX**XXXX



### TRAKSTAR (RECTANGLE BODY)

SERIAL NUMBER STRUCTURE

**C1C2**XXXX / **C7B**XXXXX / **TRKS**XXXX

### TRAKSTAR II (SHORT SQUARE BODY)

**C1E2**XXXX / **TKII**XXXX



### OMNISTAR PROBE

SERIAL NUMBER STRUCTURE

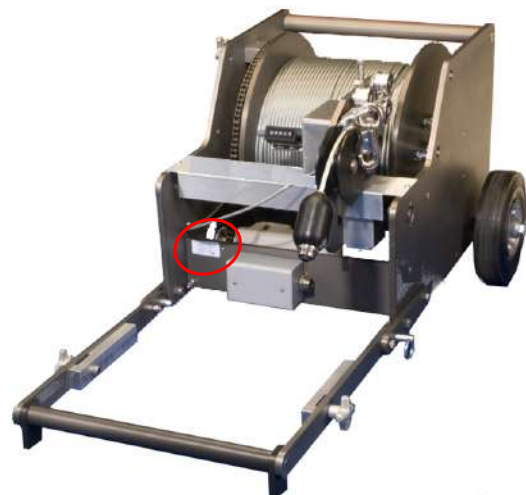
**C1A2**XXXX / **PROB**XXXX



### PUSH REEL

SERIAL NUMBER STRUCTURE

**R3C**XXXXX / **R3D**XXXXX / **PCR**XXXXX

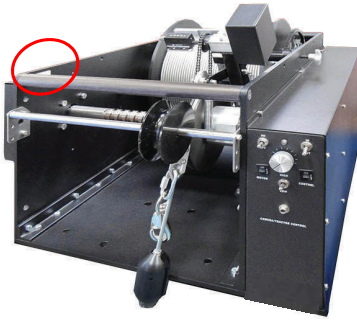


### COMPACT PORTABLE REEL

SERIAL NUMBER STRUCTURE

**R2K**XXXXX / **R2L**XXXXX / **CPR**XXXX

# EQUIPMENT IDENTIFICATION ASSISTANCE



**MAINLINE CABLE REEL**  
SERIAL NUMBER STRUCTURE  
R1CXXXXX / R1DXXXXX / MLRXXXXX



**PROTRAK**  
SERIAL NUMBER STRUCTURE  
D6EXXXXX/ D6FXXXXX / PRTKXXXXX



**LATERAL LAUNCHER GEN 2**  
SERIAL NUMBER STRUCTURE  
ZOOM CAMERA = C2D2XXXX / LLSXXXX  
TRANSPORTER = D6MXXXX / LLSXXXX  
MINI CAMERA = C3SXXXX / C3SXXXX



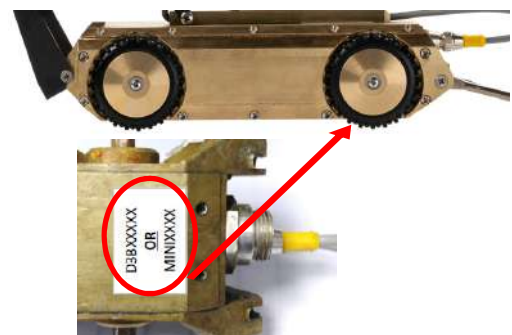
**TRANSTAR**  
SERIAL NUMBER START WITH  
T9NXXXXX / T9SXXXXX / T9TXXXXX / V2AXXXXX  
**TRANSTAR II (SHORT BODY)**  
T9UXXXXX/V3AXXXXX/V2BXXXXX/TSIIXXXX



**STORM DRAIN TRACTOR**  
SERIAL NUMBER START WITH  
D2AXXXXX / SDTXXXXX



**MAINLINE CONTROLLER**  
SERIAL NUMBER START WITH  
MAINLINE = P1EXXXXX / P1FXXXXX / MLCXXXXX



**MINI TRACTOR**  
SERIAL NUMBER START WITH  
D3BXXXXX / MINIXXXXX

# MINI CAMERA REPLACEMENT PARTS

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                 |
|---------------|---------------|----------------------------------------------------|
| <b>3</b>      | 867-33048     | CBL, TAIL ASSY, PLUG, 1306C CAMERA TO MINI TRACTOR |




---

|           |           |                                      |
|-----------|-----------|--------------------------------------|
| <b>12</b> | 633-12289 | FOCUS ADJUSTMENT TOOL (1306C CAMERA) |
|-----------|-----------|--------------------------------------|




---

|           |                                                     |
|-----------|-----------------------------------------------------|
| 450-36082 | PROTECTIVE SLEEVE ( <b>DELFIN</b> ) FOR 1545 CAMERA |
| 301-10827 | HARDWARE, 3 PER REQUIRED                            |



## DIMENSIONS

1.39" I.D.  
2.25" O.D.  
2.4" L

---

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| 807-40094 | PROTECTIVE SONDE SLEEVE, <b>SONDE INCLUDED (USE WITH C3S ONLY)</b> |
| 450-40100 | CAP, SLEEVE (TOP IN PHOTO)                                         |
| 450-40101 | BODY, SLEEVE (BOTTOM IN PHOTO)                                     |
| 301-10239 | HARDWARE, 3 PER REQUIRED, MSCR, SHCS, 8-32X.50 SS                  |
| 301-10827 | HARDWARE, 3 PER REQUIRED, MSCR, PAN, PHH, 4-40X.19 SS              |



## DIMENSIONS

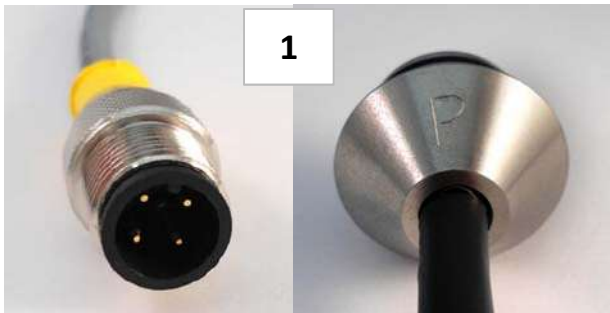
1.39" I.D.  
2.25" O.D.  
3.2" L

# OMNISTAR PROBE PAN & ROTATE CAMERA



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                            |
|---------------|---------------|---------------------------------------------------------------|
| 1             | 867-37197     | CABLE, TAIL, PLUG, MINI TRACTOR-OS PROBE, 4PIN EURO 17.5" LNG |
| 2             | 841-38670     | KIT, COMPLETION, OS PROBE V2 TYPE, MINI TRACTOR               |

**PARTS BREAKDOWN ON PG. 90, MINI TRACTOR SECTION**



# TRAKSTAR ZOOM CAMERA (RECTANGLE BODY) PARTS & ACCESSORIES



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                                |
|---------------|---------------|-------------------------------------------------------------------|
|               | 301-13742     | HARDWARE, <u>TOP BODY SKID</u>                                    |
|               | 301-18853     | HARDWARE, <u>FACE PLATE</u>                                       |
|               | 439-37693     | O-RING, <u>HARDWARE, FACE PLATE</u>                               |
|               | 439-34270     | O-RING, <u>FACE PLATE &amp; HEAD REAR COVER</u>                   |
|               | 450-37205     | TOP BODY SKID                                                     |
|               | 549-17208     | LENS WINDOW, SAPPHIRE                                             |
|               | 806-38138     | CABLE, 4 PIN TO 4 PIN                                             |
|               | 806-34469-13  | CABLE, 6PIN TO 4 PIN (13" LONG)                                   |
|               | 806-34469-16  | CABLE, 6PIN TO 4 PIN, <u>USE WITH ELEVATOR</u> (16" LONG)         |
|               | 806-38138-24  | CABLE, 4 PIN TO 4 PIN, <u>USE WITH PROTRAK</u> CRAWLER (24" LONG) |

## TRAKSTAR II (SHORT RECTANGLE BODY)

450-38147 TOP BODY SKID

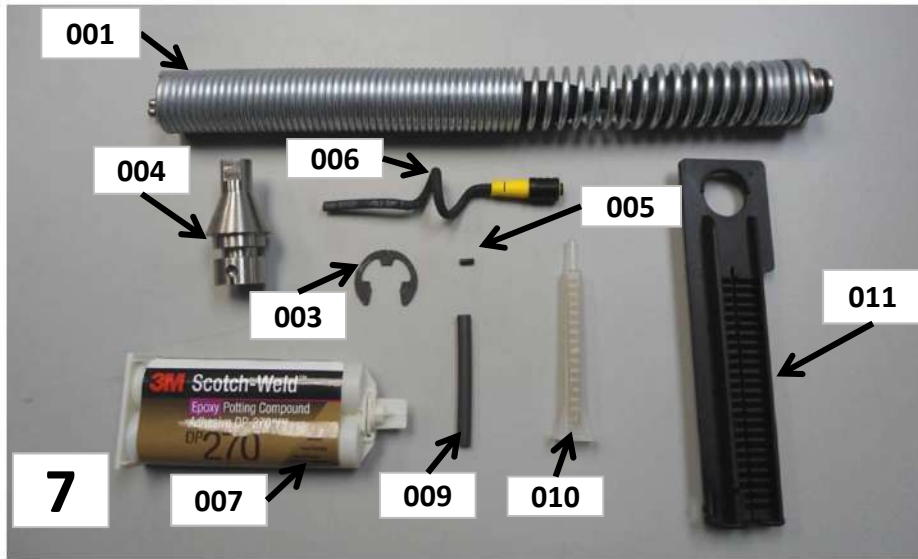
# PUSH REEL DIGITAL FOOTAGE COUNTER



| <u>ITEM #</u>                                            | <u>PART #</u> | <u>DESCRIPTION</u>                                                                          |
|----------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------|
|                                                          | 569-17755-61  | CBL,COAX,20AWG,,25 FIBERGLASS,HYTREL JACKET, <u>PRICED PER FOOT, SOLD IN 50' INCREMENTS</u> |
| <b><u>CABLE ASSEMBLIES, TERMINATED, SPRING READY</u></b> |               |                                                                                             |
|                                                          | 806-32316     | ASSY,CBL,150' LONG                                                                          |
|                                                          | 806-32318     | ASSY,CBL,200' LONG                                                                          |
|                                                          | 806-32319     | ASSY,CBL,250' LONG                                                                          |
|                                                          | 806-32320     | ASSY,CBL,300' LONG                                                                          |
|                                                          | 806-15999     | CBL,N PLUG > N PLUG,12'                                                                     |
|                                                          | 806-15660     | CBL,FTG,4 PIN,PLUG F- PLUG F,13', FTG COUNTER TO OVERLAY                                    |
|                                                          | 806-36140     | CBL, CAMERA PWR TO FTG, 1575                                                                |
|                                                          | 305-10123     | EYEBOLT WITH 12" SHANK                                                                      |

# PUSH REEL

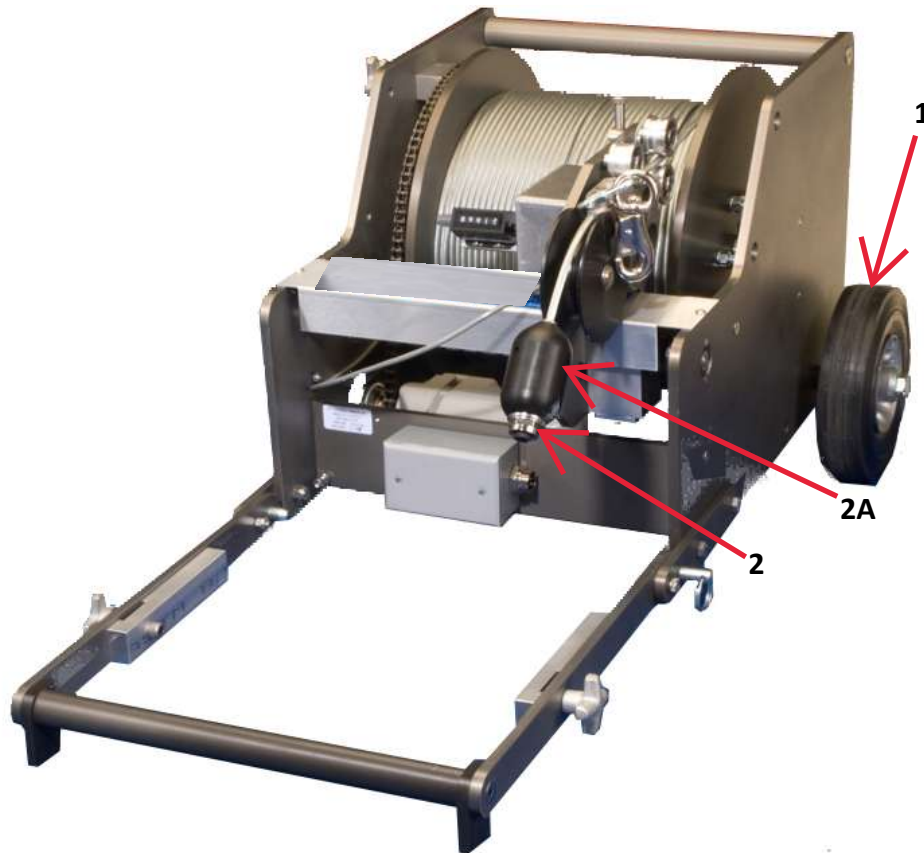
| ITEM # | PART #           | DESCRIPTION                                                 |
|--------|------------------|-------------------------------------------------------------|
| 7      | <b>841-33232</b> | KIT COMPLETE <u>WITH 512 Hz SONDE</u>                       |
| 7      | <b>841-37116</b> | KIT COMPLETE <u>W/OUT SONDE</u>                             |
| 001    | 867-30468-2      | SPRING COUPLER,W/O SONDE,.25"CABLE (SPRING/CONN/CABLE)      |
|        | 867-30469-2      | SPRING COUPLER,W/SONDE,.19/.25"CABLE                        |
| 003    | 410-30471        | RING,RETAINING,EXT,RADIAL,.75" SHAFT (E-CLIP)               |
| 004    | 408-30435        | BASE,SPRING COUPLER,.25" DIA.CABLE                          |
| 005    | 400-30735        | PIN,SPRING,ROLL,3/32" X 1/4"L, PLAIN STEEL                  |
| 006    | 557-30480        | CONN,W.R.,FEMALE PLUG,4 PIN,COILED,PICOFAST                 |
| 007    | 630-30608        | EPOXY,DP270,CLEAR,1:1,DUO-PAK,1.7FL.OZ(50ML)                |
| 009    | 632-10933        | HEATSHRINK,.187,POLYOLEFIN,125DEG,600V,BLACK,UL/CSA         |
| 010    | 633-14195        | NOZZLE,MIXING,50ML,SQUARE,SHORT (3M EPX PLUS II MIX NOZZLE) |
| 011    | 630-18878        | PLUNGER,EPOXY,2:1 RATIO,FOR 3M 50 ML APPLICATOR             |
|        | 970-32052        | TERMINATION INSTRUCTIONS                                    |



| ITEM # | PART #             | DESCRIPTION                                 |
|--------|--------------------|---------------------------------------------|
| 9      | <b>867-30469-1</b> | TERMINATION PORTION ONLY                    |
| 004    | 408-30435          | BASE,SPRING COUPLER,.25" DIA.CABLE          |
| 005    | 400-30735          | PIN,SPRING,ROLL,3/32" X 1/4"L, PLAIN STEEL  |
| 006    | 557-30480          | CONN,W.R.,FEMALE PLUG,4 PIN,COILED,PICOFAST |



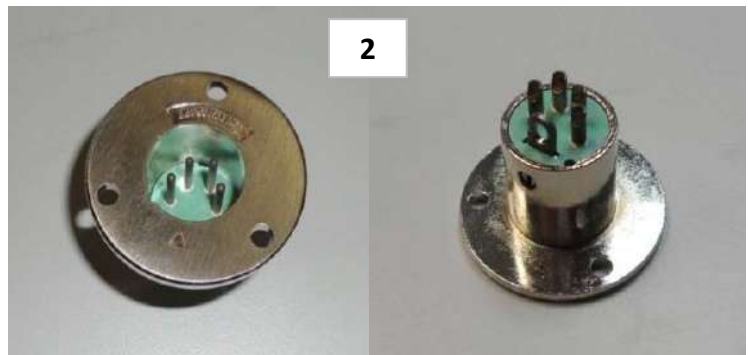
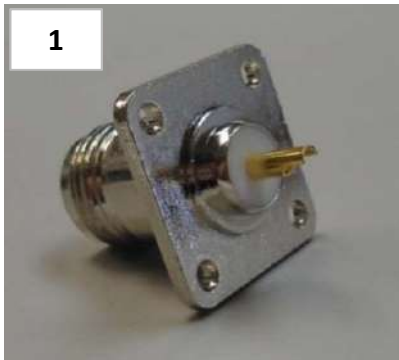
## COMPACT PORTABLE REEL (CPR)



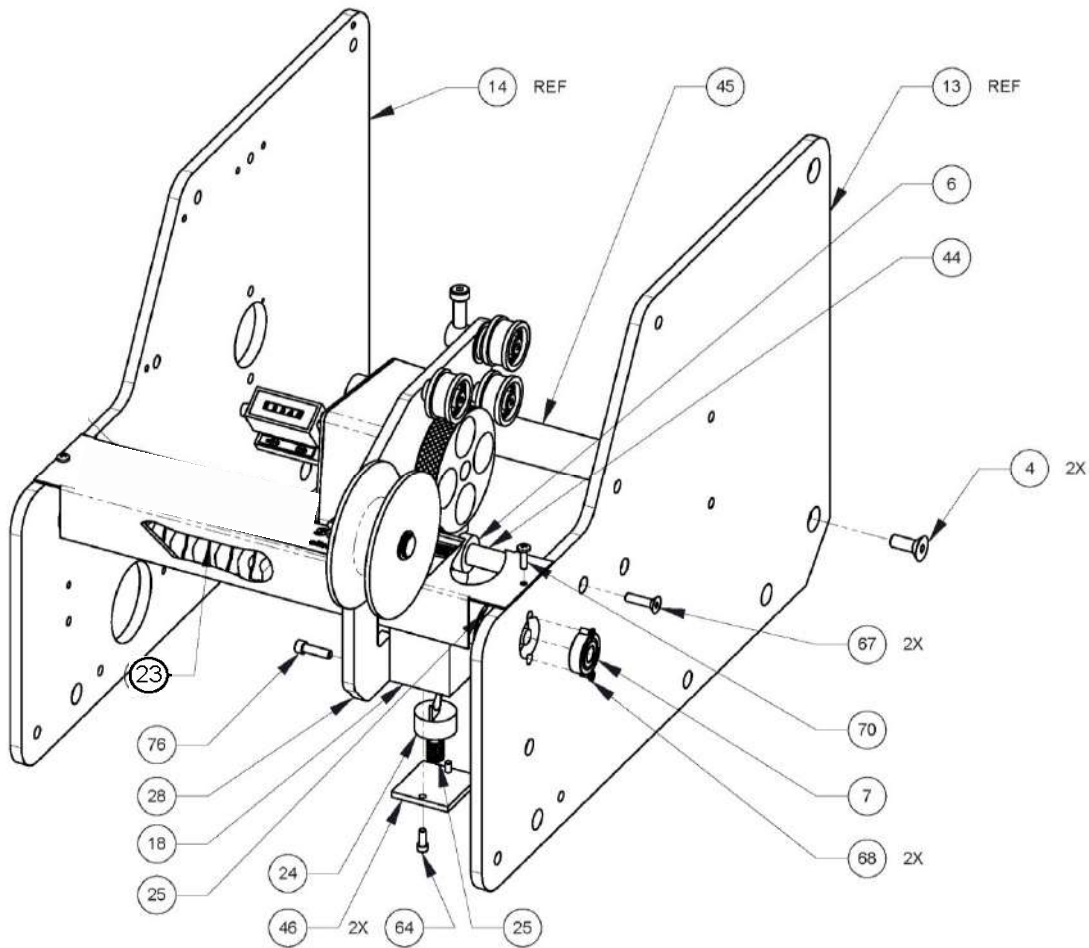
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                            |
|---------------|---------------|-----------------------------------------------|
| 1             | 443-10485     | TIRE,SEMI-PNEUMATIC,8 X 2.50,5/8"AXL          |
| 2             | 867-31751     | BULLET ASSY,REMOVABLE PIGTAIL,SINCON          |
| 2A            | 807-31639     | SLEEVE KIT, 2" DIA.,SINCON BULLET TERMINATION |

# COMPACT PORTABLE REEL (CPR) ELECTRICAL REPLACEMENT PARTS

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                             |
|---------------|---------------|------------------------------------------------|
| 1             | 555-13488     | N' CONN, SQ FLANGE MT, SOLDER CUP              |
| 2             | 556-10977     | JACK, 4PIN, PANEL MT, (FOOTAGE CONNECTOR)      |
| 43            | 560-17861     | CONN, SLIP RING, RCPT, 3COND, COAX, 3-6" LEADS |
| 44            | 560-17862     | SLIP RING, 3 CONDUCTOR, COAX                   |
| 5             | 806-18586     | FOOTAGE ENCODER, W/CABLE, W/BRKT               |
| 6             | 806-30342     | CBL,FTG,4 PIN,F-F,14.5'                        |
| 7             | 806-30348     | CBL,N PLUG>N PLUG,DBL SHIELDED,14.5FT          |

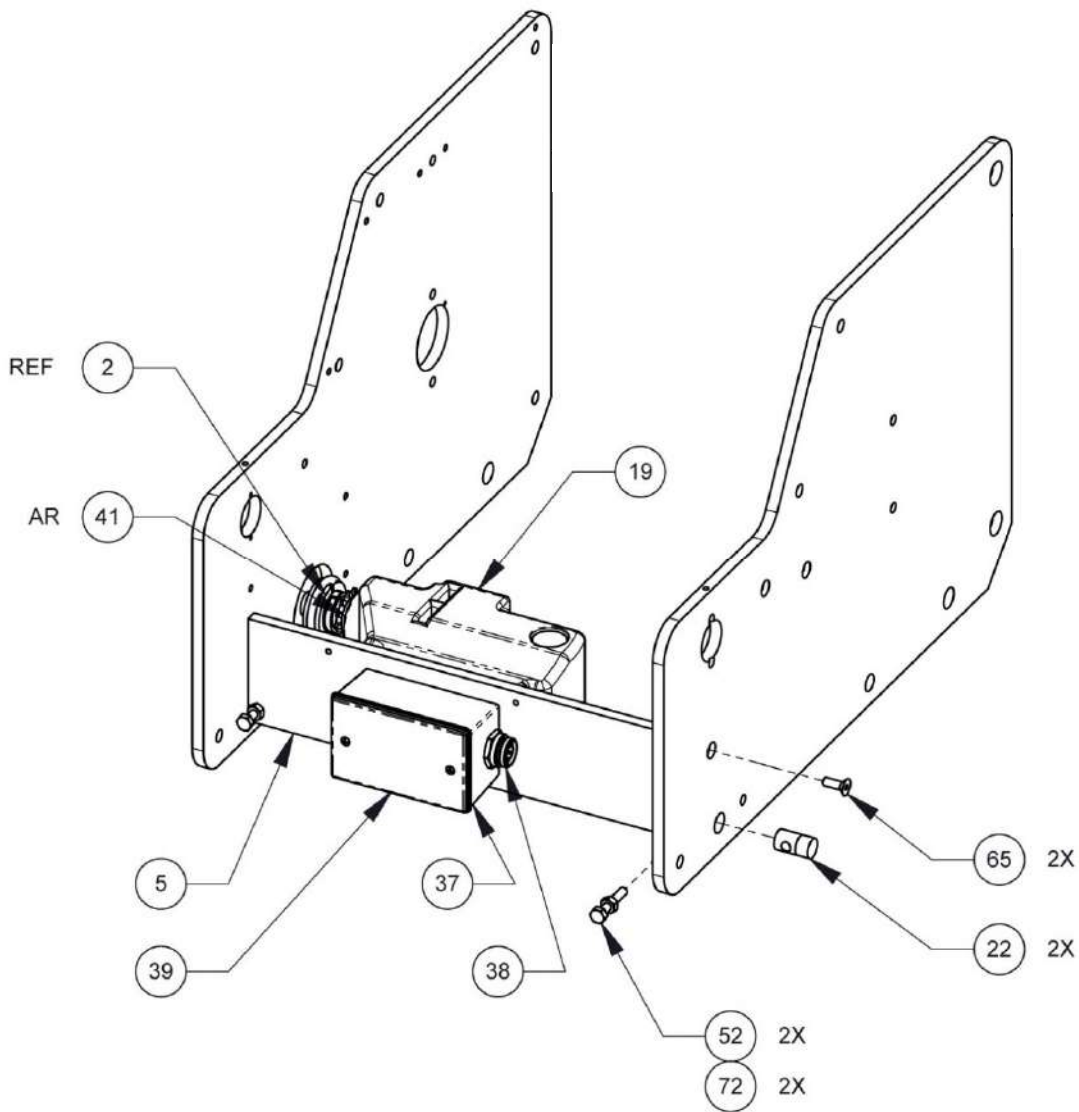


# COMPACT PORTABLE REEL (CPR)



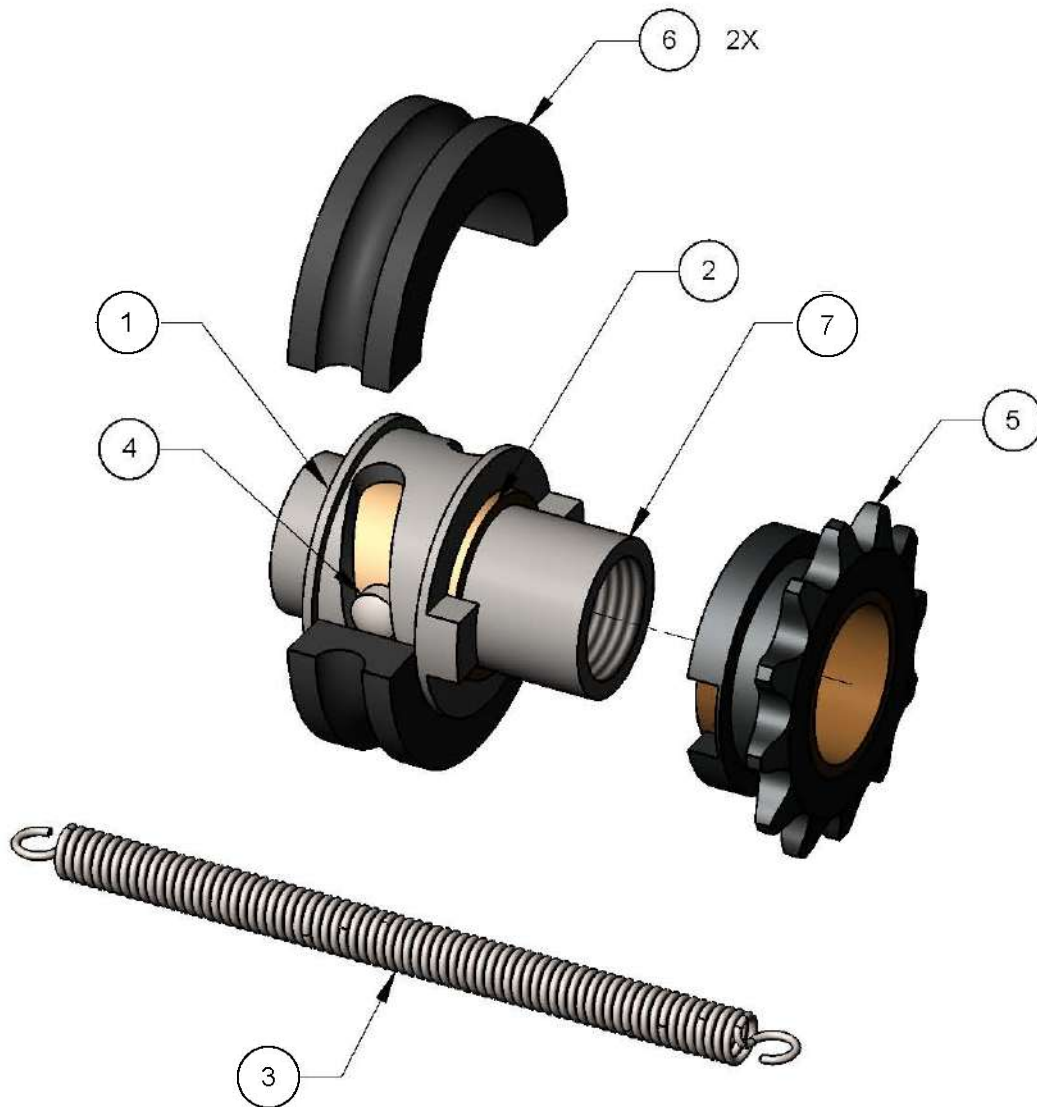
| ITEM # | PART #       | DESCRIPTION                               |
|--------|--------------|-------------------------------------------|
| 4      | 301-11595    | MSCR,FLT,HXS,3/8-16X1 SS                  |
| 6      | 405-14558    | BUSHING,TORQUE ARM,PRWCPR                 |
| 7      | 404-14210    | BEARING,BALL,1.26OD,.472BORE,.394W,SEALED |
| 13     | 453-19715-21 | PLATE,SIDE,LFT                            |
| 14     | 453-19716-21 | PLATE,SIDE,RT                             |
| 18     | 451-19723    | FOLLOWER BLOCK                            |
| 23     | 407-19728    | SHAFT, LEVEL WIND                         |
| 24     | 407-15913    | PAWL,LEVEL WIND FOLLOWER                  |
| 25     | 446-14273    | SPRING,COMPRESS,1"L,44.6LBS,STL/ZINC      |
| 28     | 867-19495    | ASSY,COUNTER,FTG                          |
| 44     | 407-19731    | SHAFT,TORQUE ARM                          |
| 45     | 447-19729-21 | HANDLE,SUPPORT                            |
| 46     | 453-39038    | PLATE,COVER,FOLLOWER PAWL,LEVELWIND       |
| 64     | 301-11241    | MSCR,SHCS,10-32X.50 SS                    |
| 67     | 301-34289    | MSCR,FLT,HXS,1/4-20X 1 SS                 |
| 68     | 301-12823    | MSCR,FLT,PHH,8-32X.37,UNDERCUT SS         |
| 70     | 301-14203    | MSCR,PAN,PHH,10-32X.62 SS                 |
| 76     | 301-15608    | MSCR,SHCS,1/4-20X.87 SS                   |

# COMPACT PORTABLE REEL (CPR) MOTOR / JUNCTION BOX



| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                         |
|---------------|---------------|--------------------------------------------|
| <b>2</b>      | 805-31064     | <b>REFER TO FOLLOWING PAGE</b>             |
| <b>5</b>      | 453-19705-21  | PLATE,MTG,MOTOR                            |
| <b>19</b>     | 635-14080     | MOTOR,1/2 HP                               |
| <b>22</b>     | 448-19727     | PIVOT,ADJ,MOTOR                            |
| <b>37</b>     | 452-20458     | BOX,JUNCTION,ELECTRICAL,MOTOR              |
| <b>38</b>     | 557-15071     | CONN,W.R.,BHD,MALE,5SKT                    |
| <b>39</b>     | 600-15644     | PLATE,WALL,1GANG,ALUM,EXT,GRAY,BLANK       |
| <b>41</b>     | 451-19761     | BRKT,DRAG CLUTCH                           |
| <b>52</b>     | 301-36992     | MSCR,HEXHD,1/4-20X1.50,FULL THREAD 18-8 SS |
| <b>65</b>     | 301-11183     | MSCR,FLT,HXS,1/4-20X.75 SS                 |
| <b>72</b>     | 309-12653     | NUT,HEX,1/4-20 SS                          |

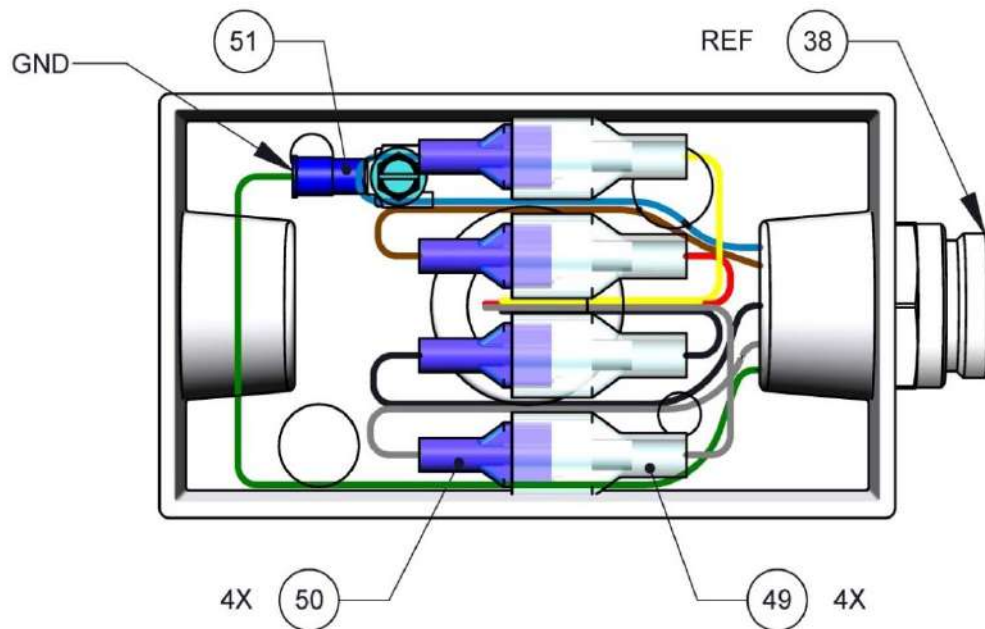
# COMPACT PORTABLE REEL (CPR) CLUTCH ASSEMBLY



| ITEM # | PART #    | DESCRIPTION                           |
|--------|-----------|---------------------------------------|
|        | 805-31064 | ENTIRE CLUTCH ASSEMBLY                |
| 1      | 408-19700 | COUPLING, MALE                        |
| 2      | 405-19701 | BUSHING                               |
| 3      | 446-20053 | SPRING, 3"L, 2.4 LBS, MUSIC WIRE/ZINC |
| 4      | 400-36161 | DOWEL PIN                             |
| 5      | 805-31750 | DRIVE SPROCKET                        |
| 6      | 453-19726 | COLLAR                                |
| 7      | 407-19451 | CLUTCH SHAFT                          |

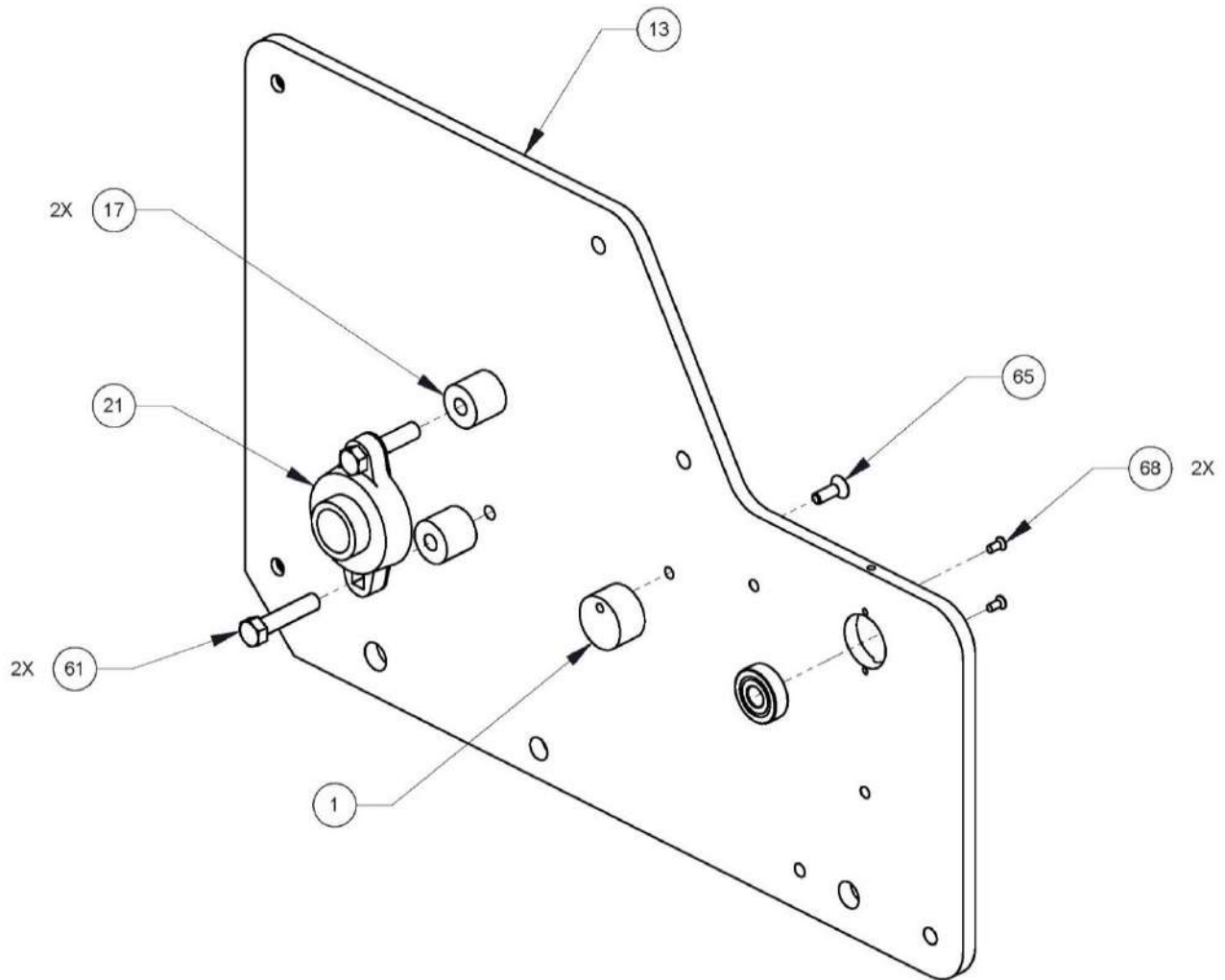
# COMPACT PORTABLE REEL (CPR) JUNCTION BOX WIRING DIAGRAM

| WIRING DIAGRAM |        |                  |           |
|----------------|--------|------------------|-----------|
|                | WIRE   | PIN              | CONNECTOR |
| MOTOR          | YELLOW | BLUE (2)         |           |
|                | RED    | BROWN (4)        |           |
|                | BLACK  | BLACK (1)        |           |
|                | WHITE  | WHITE (5)        |           |
|                |        | GREEN/YELLOW (3) | GND       |



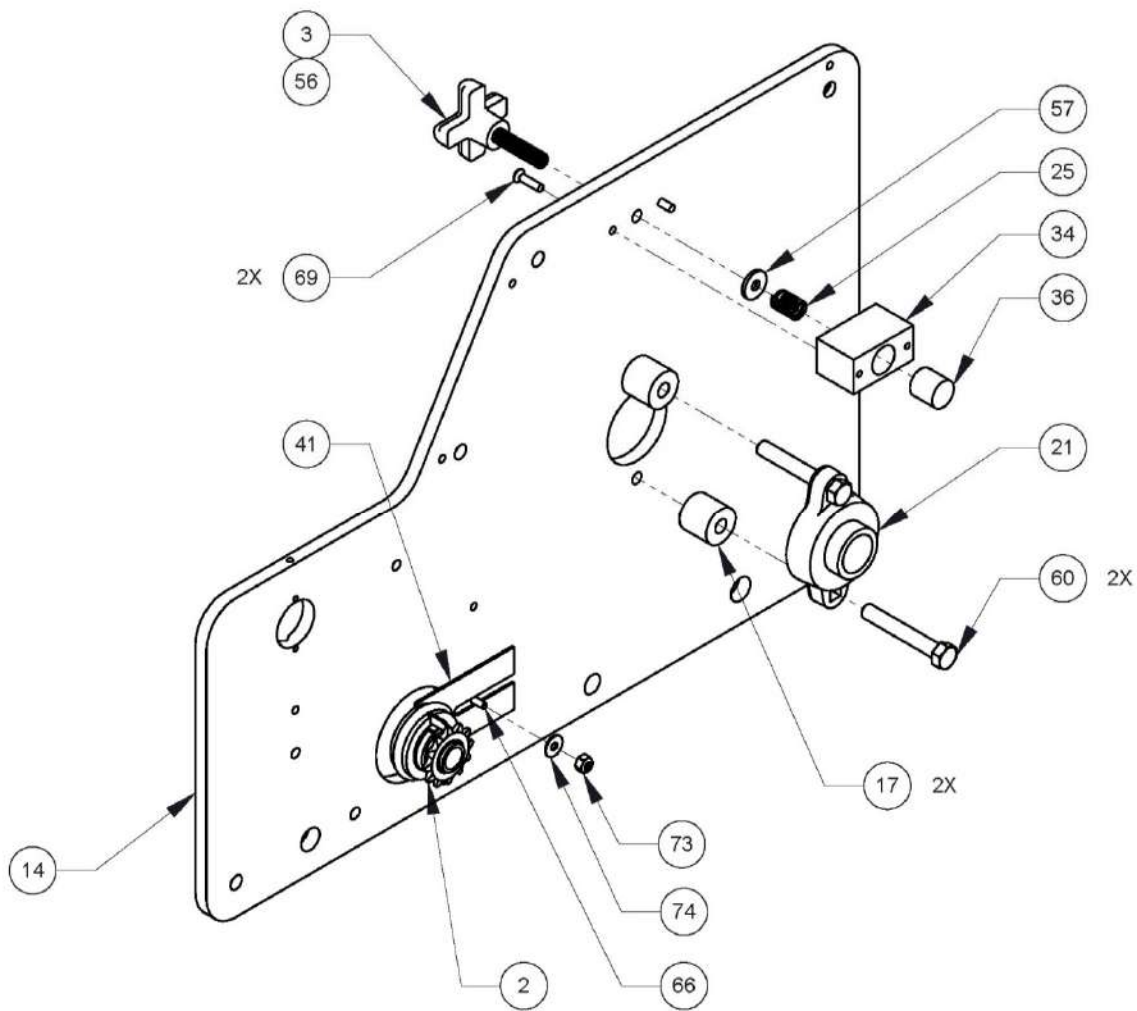
| ITEM # | PART #    | DESCRIPTION                                    |
|--------|-----------|------------------------------------------------|
| 38     | 557-15071 | CONN,W.R.,BHD,MALE,5SKT                        |
| 49     | 565-11393 | TERM,QD,.25,MALE,14-16AWG,FULLY INSULATED BLUE |
| 50     | 565-11747 | TERM,QD,.25,FEM,14-16AWG,FULLY INSULATED BLUE  |
| 51     | 565-13206 | TERM,SPADE,LKG,#10,14-16AWG,INSUL              |

# COMPACT PORTABLE REEL (CPR) LEFT SIDE PLATE



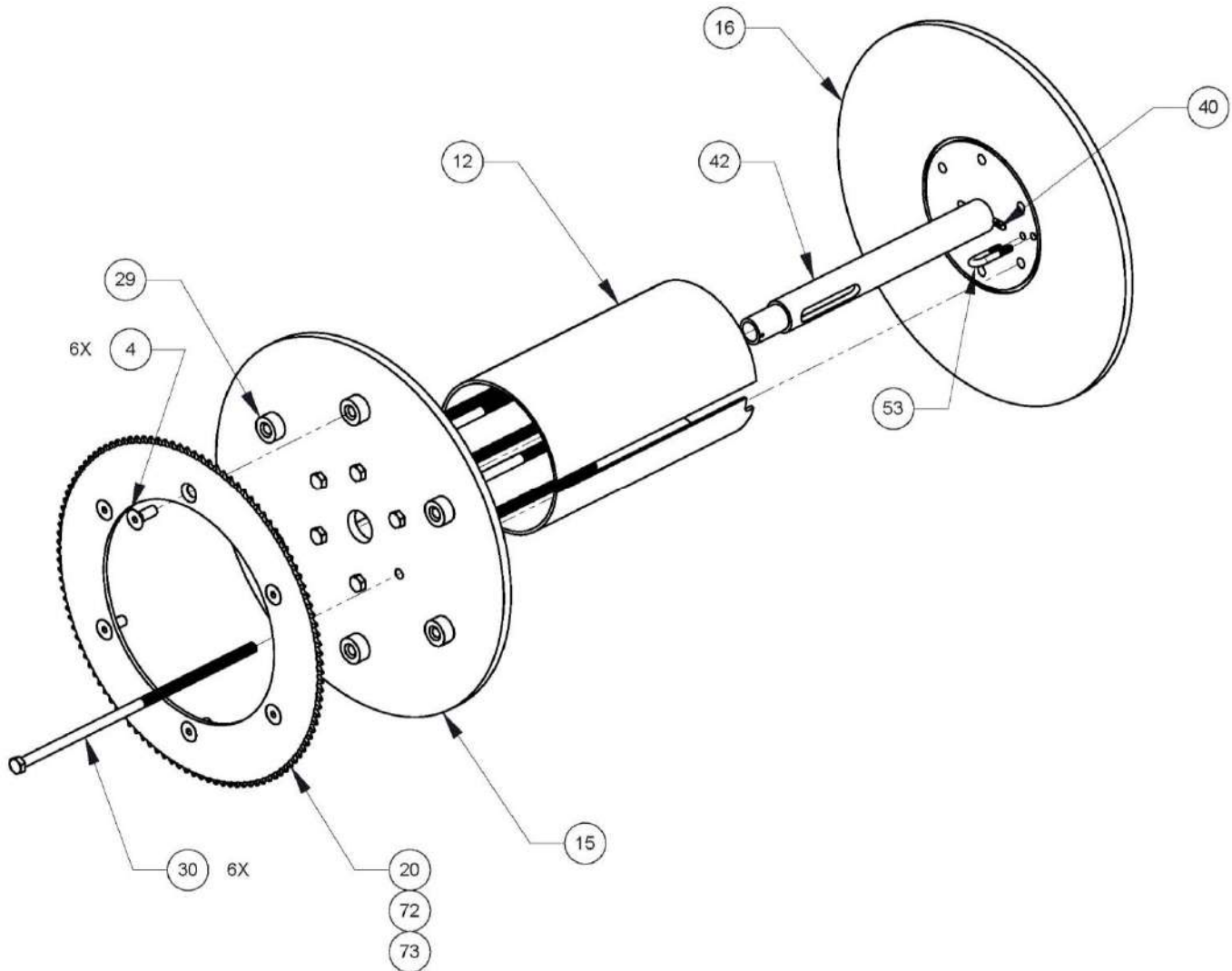
| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                            |
|---------------|---------------|-----------------------------------------------|
| <b>1</b>      | 440-38252     | IDLER,CHAIN,LVL WND                           |
| <b>13</b>     | 453-19715-21  | PLATE,SIDE,LFT                                |
| <b>17</b>     | 403-19721     | SPACER,BEARING,LVL WND                        |
| <b>21</b>     | 404-19288     | BEARING,FLANGE,2 BOLT,1" BORE W/SAE SET SCREW |
| <b>61</b>     | 300-14378     | MSCR,HEXHD,3/8-16X1.75 ZINC                   |
| <b>65</b>     | 301-11183     | MSCR,FLT,HXS,1/4-20X.75 SS                    |
| <b>68</b>     | 301-12823     | MSCR,FLT,PHH,8-32X.37,UNDERCUT SS             |

# COMPACT PORTABLE REEL (CPR) RIGHT SIDE PLATE



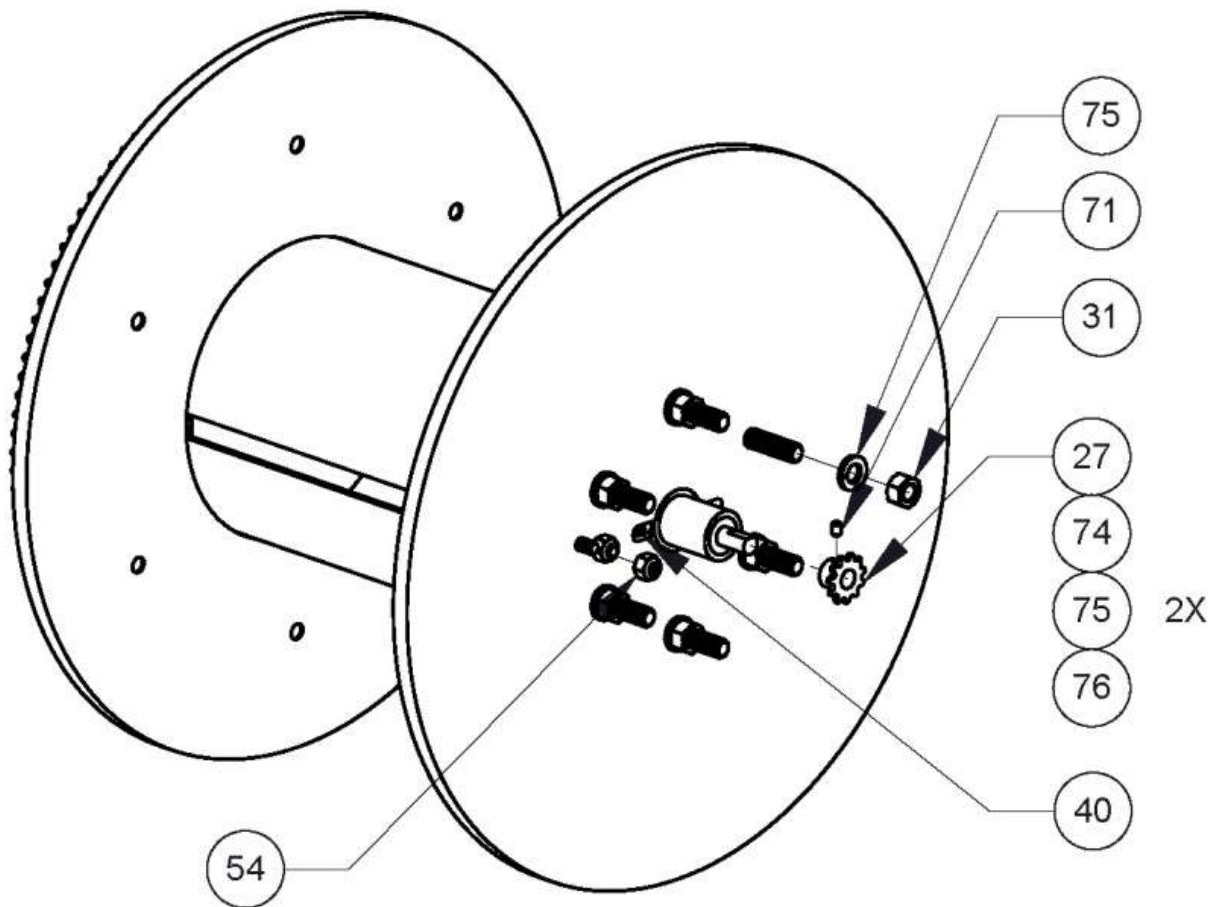
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                            |
|---------------|---------------|-----------------------------------------------|
| 2             | 805-31064     | ASSY,CLUTCH                                   |
| 3             | 447-10073     | KNOB,CAST IRON                                |
| 14            | 453-19716-21  | PLATE,SIDE,RT                                 |
| 17            | 403-19721     | SPACER,BEARING,LVL WND                        |
| 21            | 404-19288     | BEARING,FLANGE,2 BOLT,1" BORE W/SAE SET SCREW |
| 25            | 446-14273     | SPRING,COMPRESS,1"L,44.6LBS,STL/ZINC          |
| 34            | 452-19741     | DRAG BRAKE HOUSING                            |
| 36            | 443-16139     | PAD/PLUNGER,DRAG BRAKE                        |
| 41            | 451-19761     | BRKT,DRAG CLUTCH                              |
| 56            | 304-13517     | SSCR,CUP PT,HXS,3/8-16X2.50 STLBLX            |
| 57            | 319-20051     | WASHER,FLT,.258X.747X.090                     |
| 60            | 300-10061     | MSCR,HEXHD,3/8-16X2.50 ZINC                   |
| 66            | 301-12591     | MSCR,FLT,PHH,8-32X.75 SS                      |
| 69            | 301-13913     | MSCR,FLT,PHH,10-32X.75 SS                     |
| 73            | 309-13575     | NUT,HEX,10-32,NYLOCK SS                       |
| 74            | 316-11835     | WASHER,FLT,#10 SS                             |

# COMPACT PORTABLE REEL (CPR) SPOOL ASSEMBLY



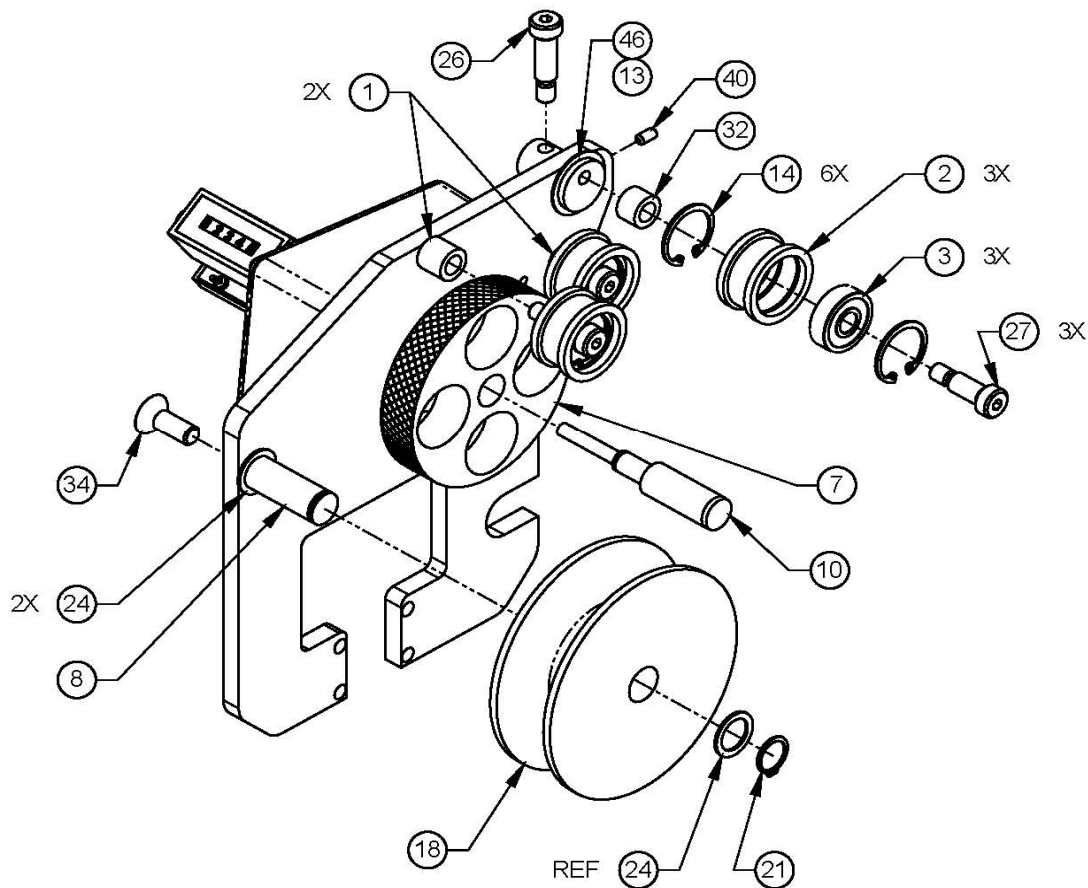
| ITEM # | PART #       | DESCRIPTION                                 |
|--------|--------------|---------------------------------------------|
| 4      | 301-11595    | MSCR,FLT,HXS,3/8-16X1 SS                    |
| 12     | 443-19714    | CORE,SPOOL,10" CPR                          |
| 15     | 453-19717-31 | PLATE,SIDE,SPOOL,LVL WND SIDE               |
| 16     | 453-19718-31 | COLLAR,CLUTCH,DRAG                          |
| 20     | 441-19492    | SPRKT,DRIVE,DRUM                            |
| 29     | 403-19493    | SPACER,SPKT,DRUM                            |
| 30     | 300-19342    | MSCR,HEXHD,3/8-16X12 ZINC                   |
| 40     | 400-20050    | PIN,SPRING,ROLL,5/16" X 1-3/4", PLAIN STEEL |
| 42     | 867-20457    | ASSY,SHAFT,SPOOL,CPR                        |
| 53     | 449-12431    | CLAMP,3/16",U BOLT ONLY                     |
| 72     | 309-12653    | NUT,HEX,1/4-20 SS                           |
| 73     | 309-13575    | NUT,HEX,10-32,NYLOCK SS                     |

# COMPACT PORTABLE REEL (CPR) SPOOL COMPONENTS



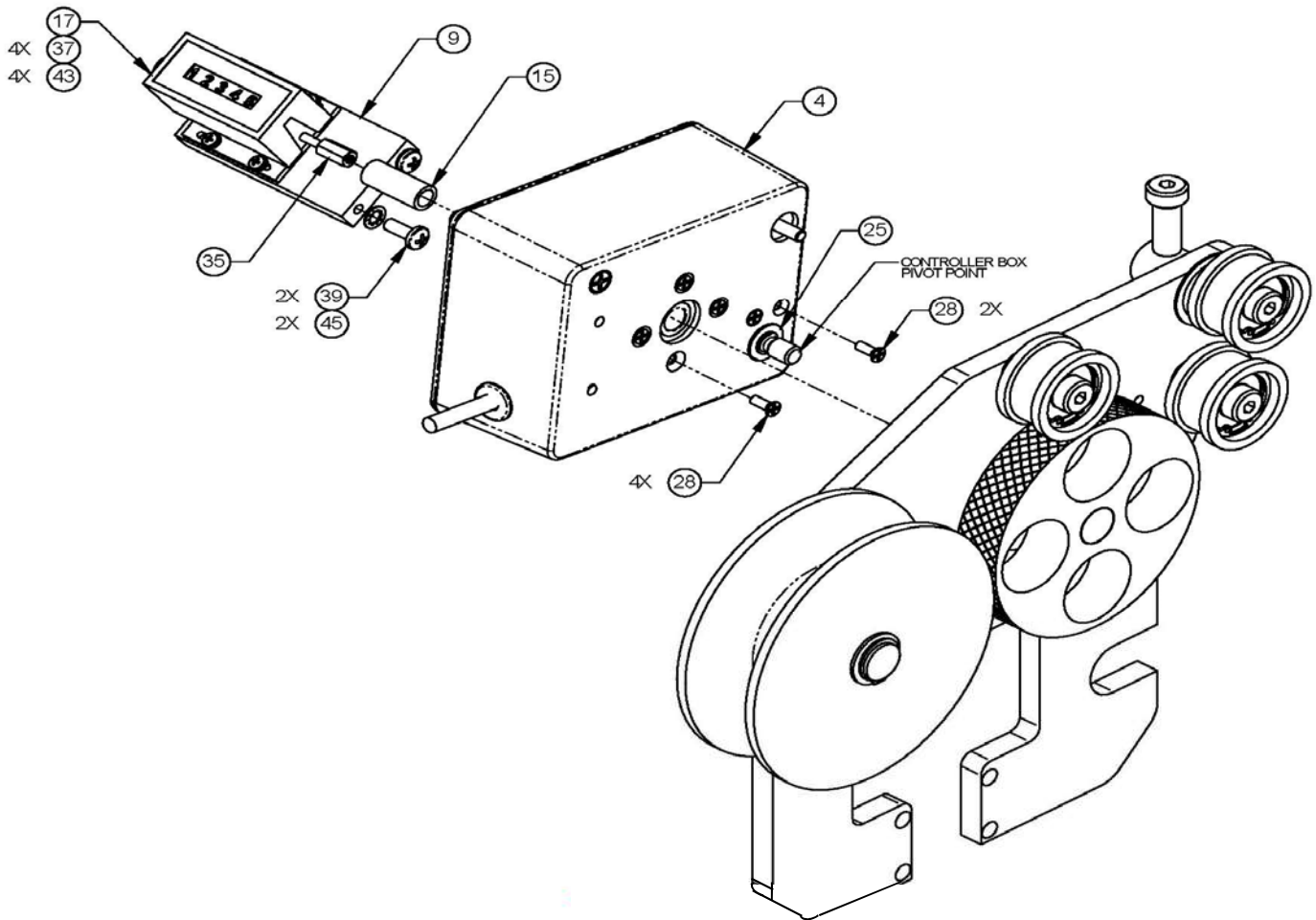
| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                          |
|---------------|---------------|---------------------------------------------|
| <b>27</b>     | 441-39130     | SPRKT,DRIVER,11T,25 PITCH,3/8 ID            |
| <b>31</b>     | 308-12769     | NUT,HEX,3/8-16 ZINC                         |
| <b>40</b>     | 400-20050     | PIN,SPRING,ROLL,5/16" X 1-3/4", PLAIN STEEL |
| <b>54</b>     | 308-14265     | NUT,HEX,1/4-20,NYLOCK ZINC                  |
| <b>71</b>     | 304-11125     | SSCR,CUP PT,HXS,10-32X.25 SS                |
| <b>74</b>     | 316-11835     | WASHER,FLT,#10 SS                           |
| <b>75</b>     | 318-14963     | WASHER,LKG,.375,HELICAL ZINC                |
| <b>76</b>     | 301-15608     | MSCR,SHCS,1/4-20X.87 SS                     |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER ENGLISH



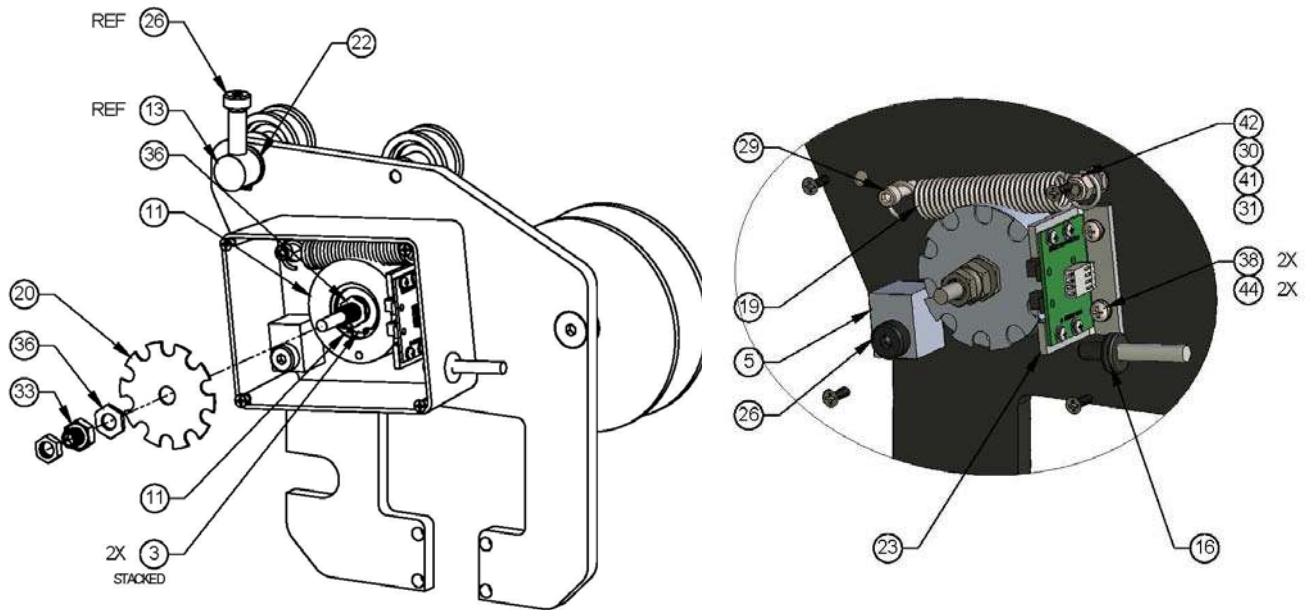
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                            |
|---------------|---------------|-----------------------------------------------|
| 1             | 403-19702     | SPACER,ROLLER,CPR                             |
| 2             | 443-19707     | ROLLER,GUIDE,TOP,1.5",CPR                     |
| 3             | 404-12482     | BEARING,BALL,1.181OD,.394BORE                 |
| 7             | 443-19713-21  | WHEEL,FOOTAGE COUNTER,CPR,HARD CLEAR ANODIZE  |
| 8             | 402-19720     | POST,ROLLER GUIDE,OUTPUT,CPR                  |
| 10            | 407-17328     | SHAFT,WHEEL,COUNTER,ENGLISH,CPR               |
| 13            | 448-19732     | PIVOT,ROLLER,GUIDE,CPR                        |
| 14            | 410-20001     | RING,SNAP,INT,1.18"                           |
| 18            | 449-15325     | ROLLER,GUIDE,POLYURETHANE                     |
| 21            | 410-13006     | RING,SNAP,EXT,.625                            |
| 24            | 474-16008     | SHIM,WASHER,.630 X .875 X .048T,SS            |
| 26            | 305-11716     | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1 ALLOY STEEL |
| 27            | 305-11834     | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 3/4           |
| 32            | 403-19762     | SPACER,ROLLER,PIVOT,CPR                       |
| 34            | 301-11595     | MSCR,FLT,HXS,3/8-16X1 SS                      |
| 40            | 304-11243     | SSCR,CUP PT,HXS,10-32X.37,SS                  |
| 46            | 317-13291     | WASHER,FLT,.750X1.250X.031 TEFLON             |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER ENGLISH



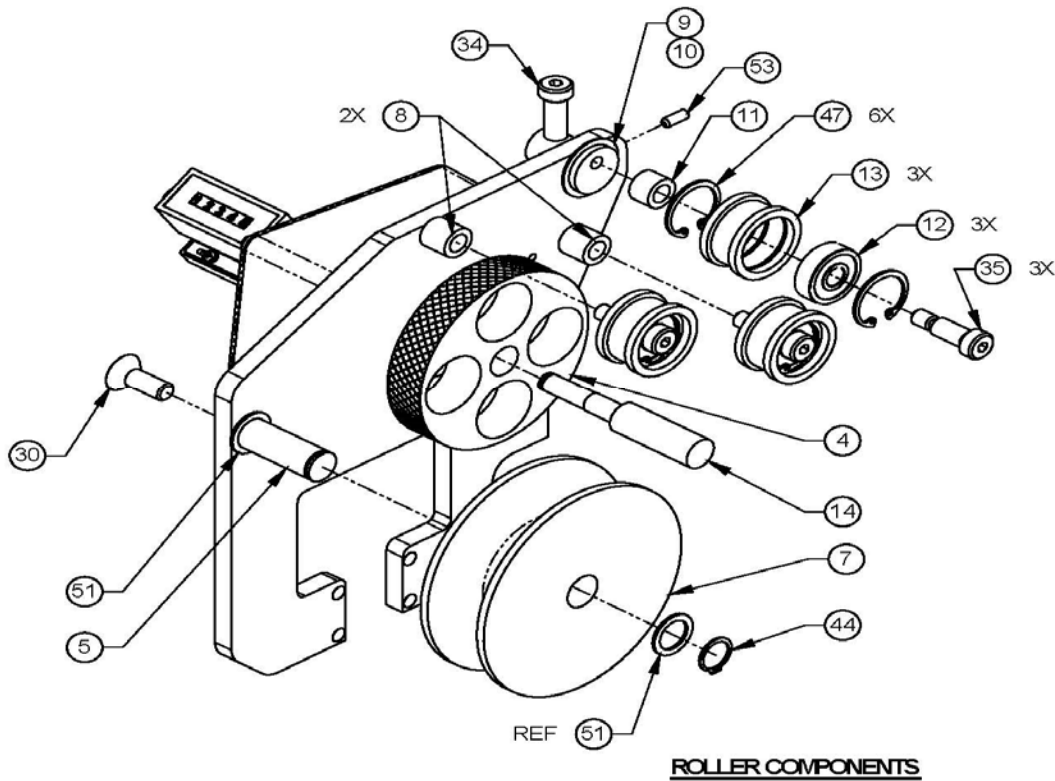
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                                       |
|---------------|---------------|--------------------------------------------------------------------------|
| 9             | 451-19724     | BLOCK,MTG,COUNTER,CPR                                                    |
| 15            | 606-11516     | HOSE,RUBBER,VACUUM,5/32"                                                 |
| 17            | 867-20485     | COUNTER,MECHANICAL,5 DIGIT,10CTS <b><u>INCLUDES ADAPTER ITEM #35</u></b> |
| 25            | 474-12204     | SHIM,WASHER,3/8 X 5/8 X .030T,SS                                         |
| 28            | 301-11948     | MSCR,FLT,PHH,6-32X.37,UNDERCUT SS                                        |
| 35            | 408-12425     | ADPTR,SHAFT,FOOTAGE COUNTER                                              |
| 37            | 301-11122     | MSCR,PAN,PHH,4-40X.37 SS                                                 |
| 39            | 301-13685     | MSCR,PAN,PHH,10-32X.50 SS                                                |
| 43            | 318-14498     | WASHER,LKG,#4,INT TOOTH SS                                               |
| 45            | 318-14788     | WASHER,LKG,#10,INT TOOTH SS                                              |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER ENGLISH



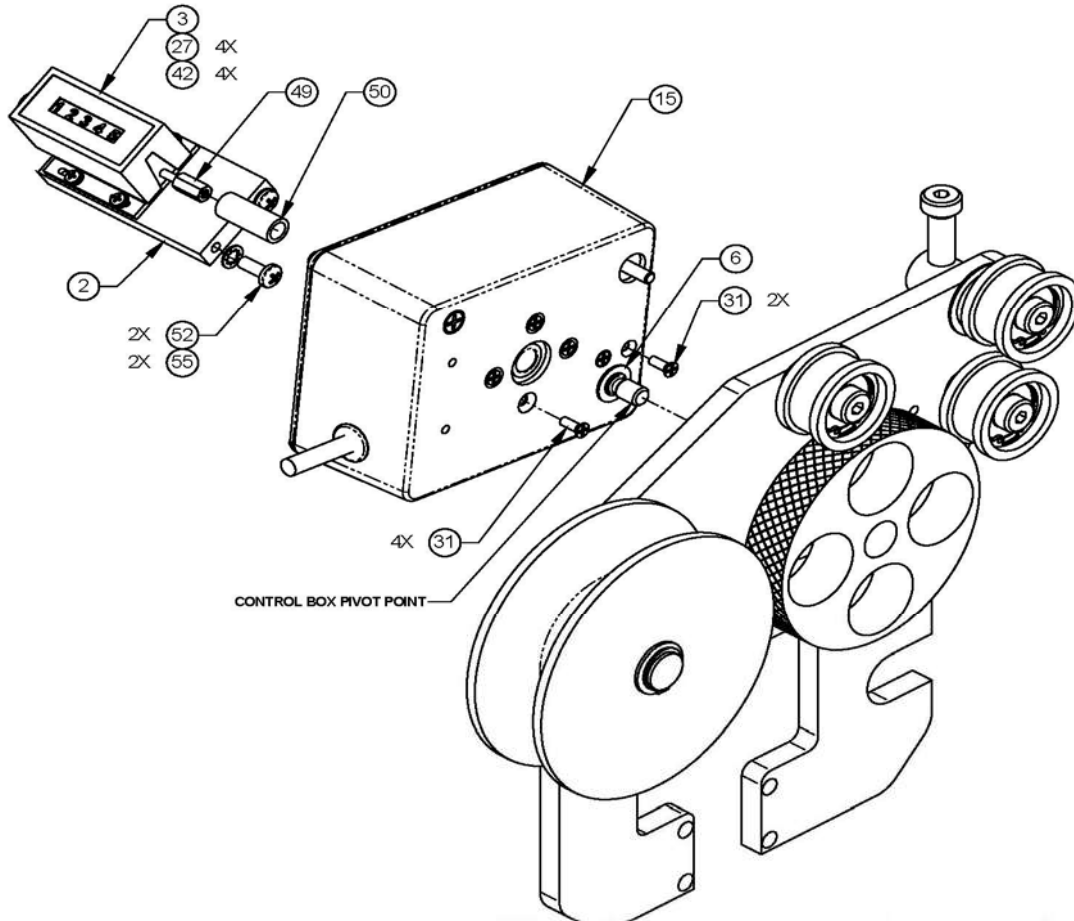
| ITEM # | PART #    | DESCRIPTION                                   |
|--------|-----------|-----------------------------------------------|
| 3      | 404-12482 | BEARING,BALL,1.181OD,.394BORE                 |
| 5      | 451-19711 | BLOCK,PIVOT,CNTR,CPR                          |
| 11     | 451-21007 | RETAINER,BEARING,SUPPORT,SHAFT,FTG CNTR,CPR   |
| 13     | 448-19732 | PIVOT,ROLLER,GUIDE,CPR                        |
| 16     | 449-15089 | GROMMET,RUBBER,1/4ID 7/16 HOLE                |
| 19     | 446-14157 | SPRING,WHEEL TENSION,FOOTAGE COUNTER          |
| 20     | 443-13810 | WHEEL,SENSOR,FOOTAGE COUNTER                  |
| 22     | 410-13180 | RING,SNAP,EXT,.750                            |
| 23     | 806-18586 | ASSY,HARNESS,FOOTAGE ENCODER,W/CABLE, W/BRKT  |
| 26     | 305-11716 | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1 ALLOY STEEL |
| 29     | 301-11536 | MSCR,SHCS,10-32X1 SS                          |
| 30     | 301-13913 | MSCR,FLT,PHH,10-32X.75 SS                     |
| 31     | 317-14382 | WASHER,FLT,#10,.19T NYLON                     |
| 33     | 505-10486 | SHAFT LOCK,1/4"                               |
| 36     | 505-19289 | BUSHING,MTG,POT SHAFT-DIAL                    |
| 38     | 301-12533 | MSCR,PAN,PHH,8-32X.25 SS                      |
| 41     | 309-12537 | NUT,HEX,10-32 SS                              |
| 42     | 309-13575 | NUT,HEX,10-32,NYLOCK SS                       |
| 44     | 318-14730 | WASHER,LKG,#8,INT TOOTH SS                    |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER METRIC



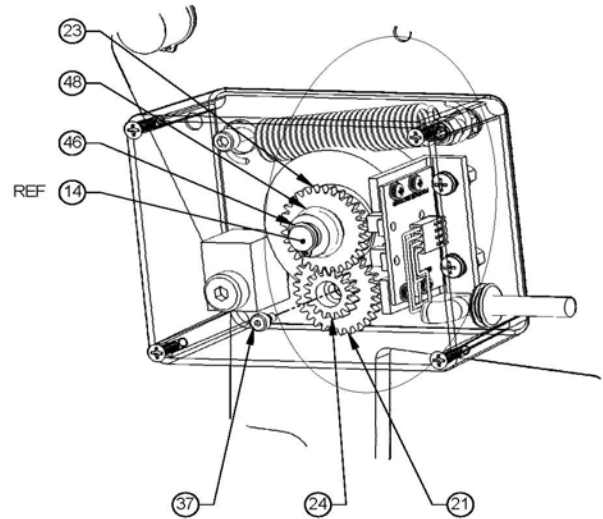
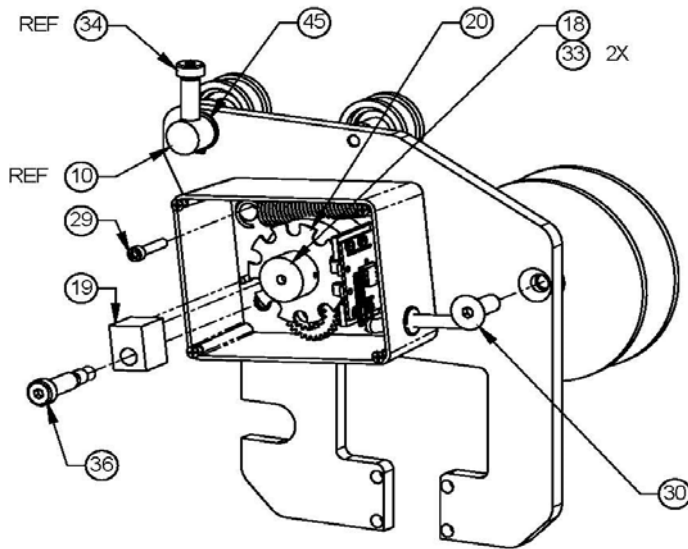
| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                           |
|---------------|---------------|----------------------------------------------|
| 4             | 443-19713-21  | WHEEL,FOOTAGE COUNTER,CPR,HARD CLEAR ANODIZE |
| 5             | 402-19720     | POST,ROLLER GUIDE,OUTPUT,CPR                 |
| 7             | 449-15325     | ROLLER,GUIDE,POLYURETHANE                    |
| 8             | 403-19702     | SPACER,ROLLER,CPR                            |
| 9             | 317-13291     | WASHER,FLT, .750X1.250X.031 TEFLON           |
| 10            | 448-19732     | PIVOT,ROLLER,GUIDE,CPR                       |
| 11            | 403-19762     | SPACER,ROLLER,PIVOT,CPR                      |
| 12            | 404-12482     | BEARING,BALL,1.181OD,.394BORE                |
| 13            | 443-19707     | ROLLER,GUIDE,TOP,1.5",CPR                    |
| 14            | 407-21005     | SHAFT,WHEEL,COUNTER,METRIC CPR               |
| 30            | 301-11595     | MSCR,FLT,HXS,3/8-16X1 SS                     |
| 34            | 305-13719     | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1 SS         |
| 35            | 305-11834     | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 3/4          |
| 44            | 410-13006     | RING,SNAP,EXT,.625                           |
| 47            | 410-20001     | RING,SNAP,INT,1.18"                          |
| 51            | 474-16008     | SHIM,WASHER,.630 X .875 X .048T,SS           |
| 53            | 304-11066     | SSCR,CUP PT,HXS,10-32X.50 SS                 |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER METRIC



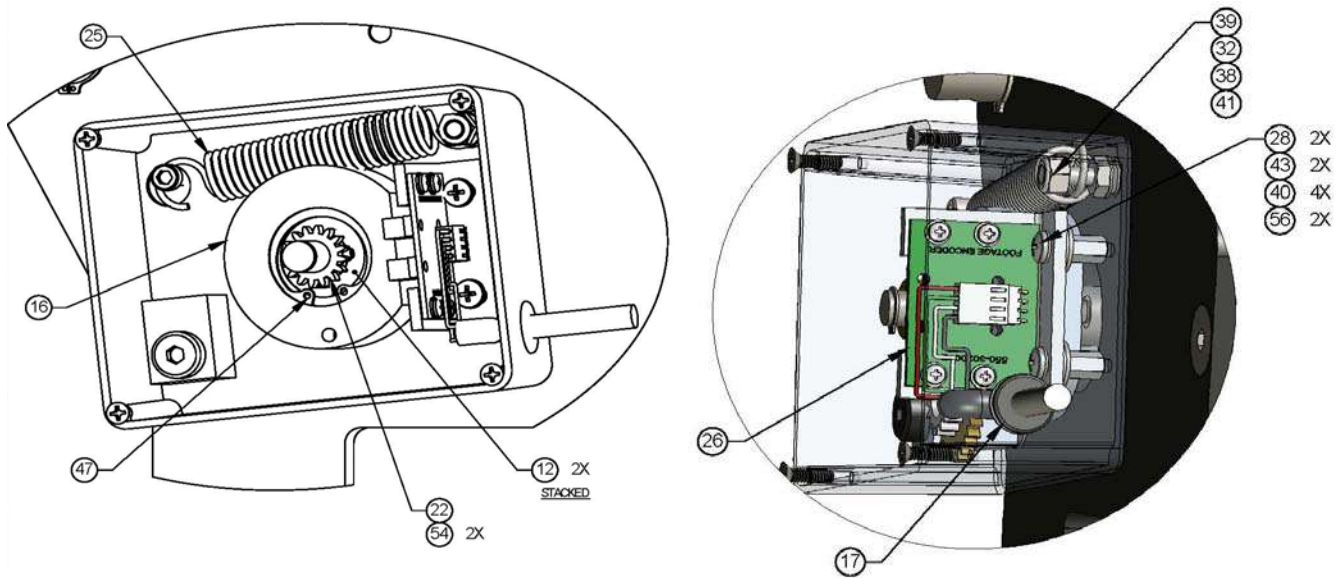
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                           |
|---------------|---------------|----------------------------------------------|
| 2             | 451-19724     | BLOCK,MTG,COUNTER,CPR                        |
| 3             | 867-13456     | COUNTER,MECHANICAL,5 DIGIT,10CTS SMALL SHAFT |
| 6             | 474-12204     | SHIM,WASHER,3/8 X 5/8 X .030T,SS             |
| 15            | 452-19710     | BOX,CONTROL,FOOTAGE COUNTER,CPR              |
| 27            | 301-11122     | MSCR,PAN,PHH,4-40X.37 SS                     |
| 31            | 301-11948     | MSCR,FLT,PHH,6-32X.37,UNDERCUT SS            |
| 42            | 318-14498     | WASHER,LKG,#4,INT TOOTH SS                   |
| 49            | 408-12425     | ADPTR,SHAFT,FOOTAGE COUNTER                  |
| 50            | 606-11516     | HOSE,RUBBER,VACUUM,5/32"                     |
| 52            | 301-13685     | MSCR,PAN,PHH,10-32X.50 SS                    |
| 55            | 318-14788     | WASHER,LKG,#10,INT TOOTH SS                  |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER METRIC



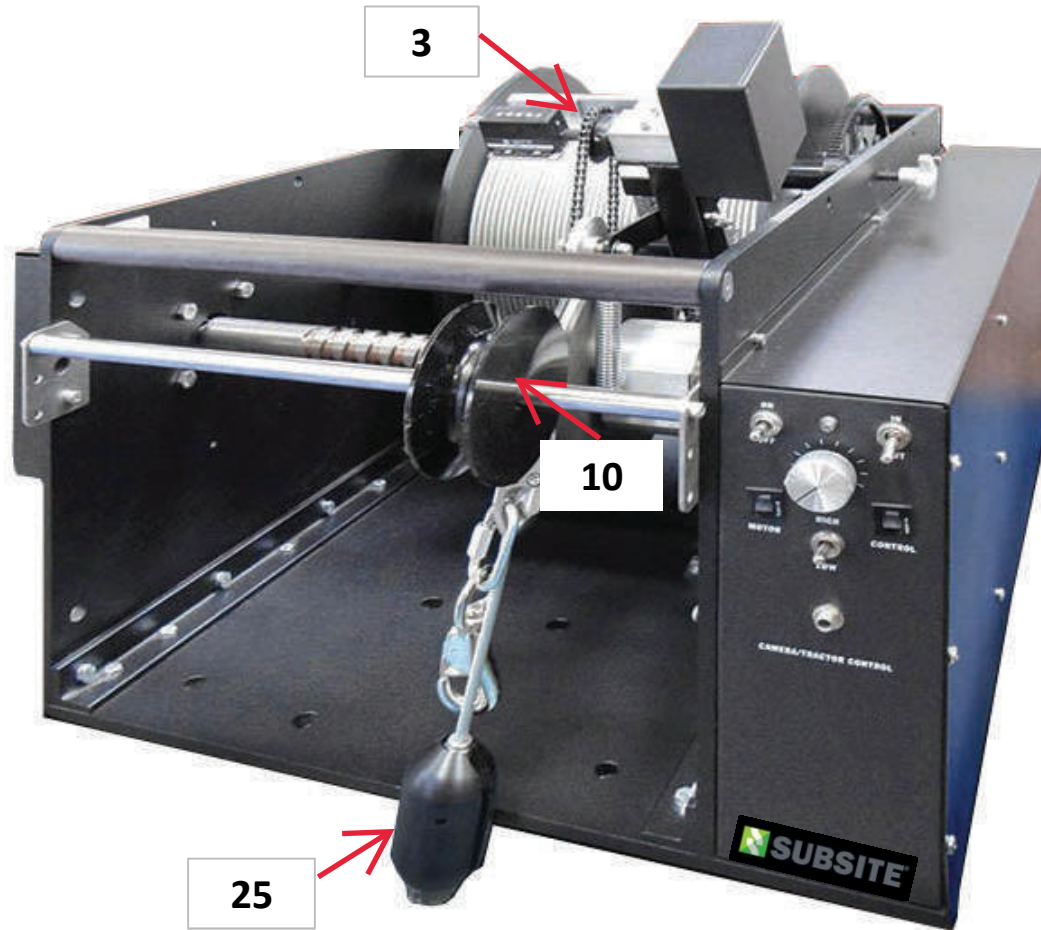
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                               |
|---------------|---------------|--------------------------------------------------|
| 10            | 448-19732     | PIVOT,ROLLER,GUIDE,CPR                           |
| 14            | 407-21005     | SHAFT,WHEEL,COUNTER,METRIC CPR                   |
| 18            | 408-21006     | COLLAR,RETAINER,ENCODER WHEEL,METRIC COUNTER,CPR |
| 19            | 451-19711     | BLOCK,PIVOT,CNTR,CPR                             |
| 20            | 443-21008     | WHEEL,SENSOR,FOOTAGE,METRIC COUNTER,CPR          |
| 21            |               | <b>CALL TECH SUPPORT</b>                         |
| 23            |               | <b>CALL TECH SUPPORT</b>                         |
| 24            |               | <b>CALL TECH SUPPORT</b>                         |
| 29            | 301-11536     | MSCR,SHCS,10-32X1 SS                             |
| 30            | 301-11595     | MSCR,FLT,HXS,3/8-16X1 SS                         |
| 33            | 304-12128     | SSCR,CUP PT,HXS,6-32X.25 SS                      |
| 34            | 305-13719     | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1 SS             |
| 36            | 305-11716     | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1 ALLOY STEEL    |
| 37            | 305-21021     | BOLT,SHLDR,SKT HD,10-32,1/4 X 1/4,303 SS         |
| 45            | 410-13180     | RING,SNAP,EXT,.750                               |
| 46            | 410-16057     | RING,SNAP,EXT,.375                               |
| 48            | 439-14212     | O-RING,BUNA,016                                  |

# COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER METRIC



| ITEM # | PART #    | DESCRIPTION                                  |
|--------|-----------|----------------------------------------------|
| 12     | 404-12482 | BEARING,BALL,1.181OD,.394BORE                |
| 16     | 451-21007 | RETAINER,BEARING,SUPPORT,SHAFT,FTG CTR,CPR   |
| 17     | 449-15089 | GROMMET,RUBBER,1/4ID 7/16 HOLE               |
| 22     |           | <b>CALL TECH SUPPORT</b>                     |
| 25     | 446-14157 | SPRING,WHEEL TENSION,FOOTAGE COUNTER         |
| 26     | 806-18586 | ASSY,HARNESS,FOOTAGE ENCODER,W/CABLE, W/BRKT |
| 28     | 301-12939 | MSCR,PAN,PHH,8-32X.62 SS                     |
| 32     | 301-13913 | MSCR,FLT,PHH,10-32X.75 SS                    |
| 38     | 309-12537 | NUT,HEX,10-32 SS                             |
| 39     | 309-13575 | NUT,HEX,10-32,NYLOCK SS                      |
| 40     | 316-11068 | WASHER,FLT,#8 SS                             |
| 41     | 317-14382 | WASHER,FLT,#10,.19T NYLON                    |
| 43     | 318-14730 | WASHER,LKG,#8,INT TOOTH SS                   |
| 47     | 410-20001 | RING,SNAP,INT,1.18"                          |
| 54     | 304-31783 | SSCR,CONE PT,HXS,4-40X0.188,18-8SS           |

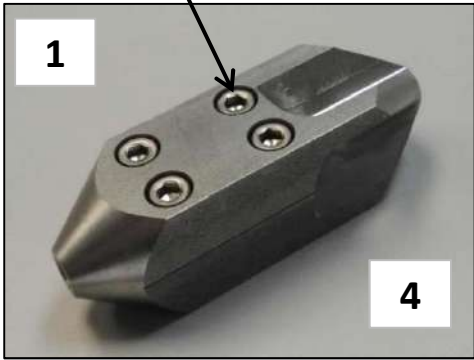
## MAINLINE REEL



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                  |
|---------------|---------------|-------------------------------------|
| 3             | 840-20802     | KIT, CHAIN REPLACEMENT, FTG COUNTER |
|               | 441-11486     | MASTER LINK FOR ABOVE               |
| 10            |               | REFER TO FOLLOWING PAGE             |
| 25            |               | REFER TO BULLET KIT SECTION         |

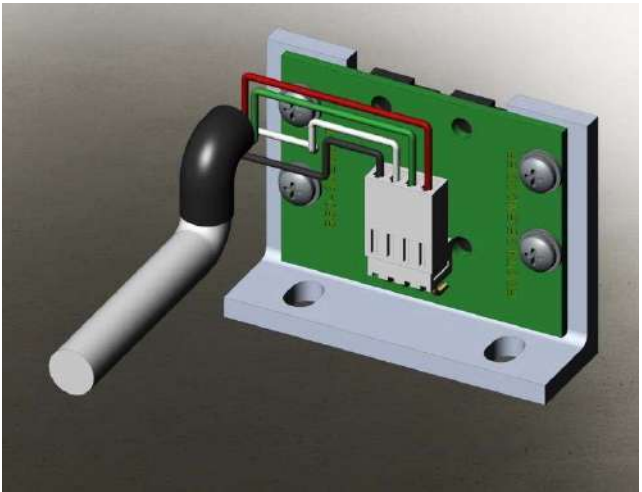
# MAINLINE REEL

| ITEM #    | PART #    | DESCRIPTION                                        | QTY      |
|-----------|-----------|----------------------------------------------------|----------|
| <b>10</b> | 448-11253 | ASSEMBLY, CABLE GRIP <u>(ALL 3 ITEMS INCLUDED)</u> | COMP KIT |
| <b>1</b>  | 448-11312 | CABLE GRIP, SINCON                                 | 1        |
| <b>2</b>  | 444-12255 | HOOK,SNAP SWIVEL                                   | 1        |
| <b>3</b>  | 444-11901 | QUICK LINK,1/4 IN                                  | 1        |
|           | 301-11477 | HARDWARE, 10-32X.75 SOCKET HEAD SS                 |          |





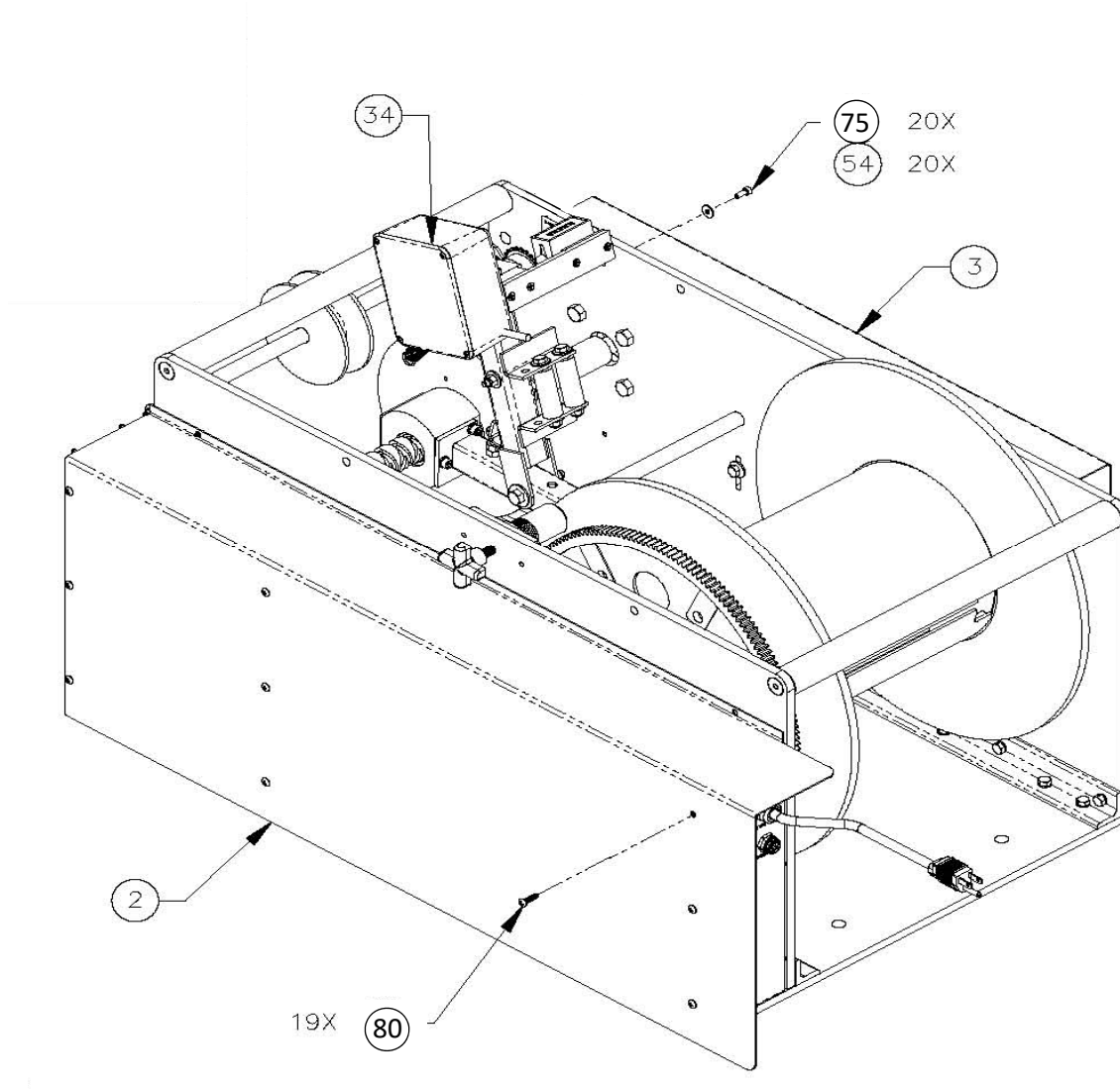
| ITEM #    | PART #    | DESCRIPTION                                                      |
|-----------|-----------|------------------------------------------------------------------|
| <b>20</b> | 806-18586 | ASSEMBLY FOOTAGE ENCODER HARNESS <u>WITH CABLE &amp; BRACKET</u> |

**CALL TECH SUPPORT FOR IMPORTANT INSTALLATION INFORMATION**

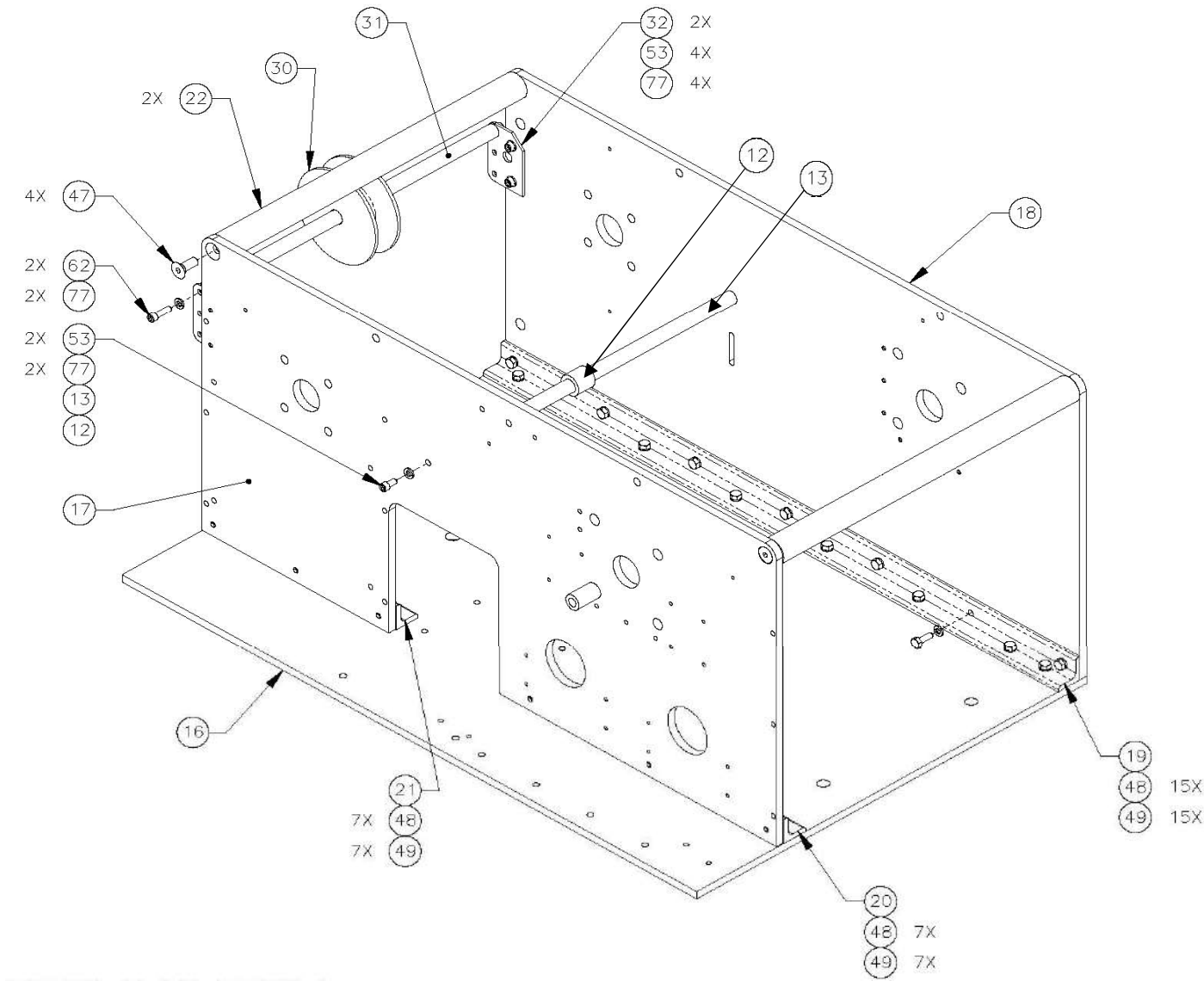
| ITEM # | PART #    | DESCRIPTION                                          |
|--------|-----------|------------------------------------------------------|
|        | 806-30347 | CABLE, N PLUG > N PLUG, 20 FT (REEL TO CONTROLLER)   |
|        | 806-30348 | CABLE, N PLUG > N PLUG, 14.5 FT (REEL TO CONTROLLER) |

# MAINLINE REEL



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                        |
|---------------|---------------|-------------------------------------------|
| 2             | 453-11906-31  | COVER,SIDE RH,MLCR,BLACK                  |
| 3             |               | <b>CALL TECH SUPPORT</b>                  |
| 34            | 867-13684     | ASSY,COUNTER,FTG,LEVEL WIND,STANDARD,MLCR |
| 54            | 316-11835     | WASHER,FLT,#10 SS                         |
| 80            | 303-13573     | TSCR,PAN,PHH,10X.75,SMS ZINC              |
| 75            | 301-11241     | MSCR,SHCS,10-32X.50 SS                    |

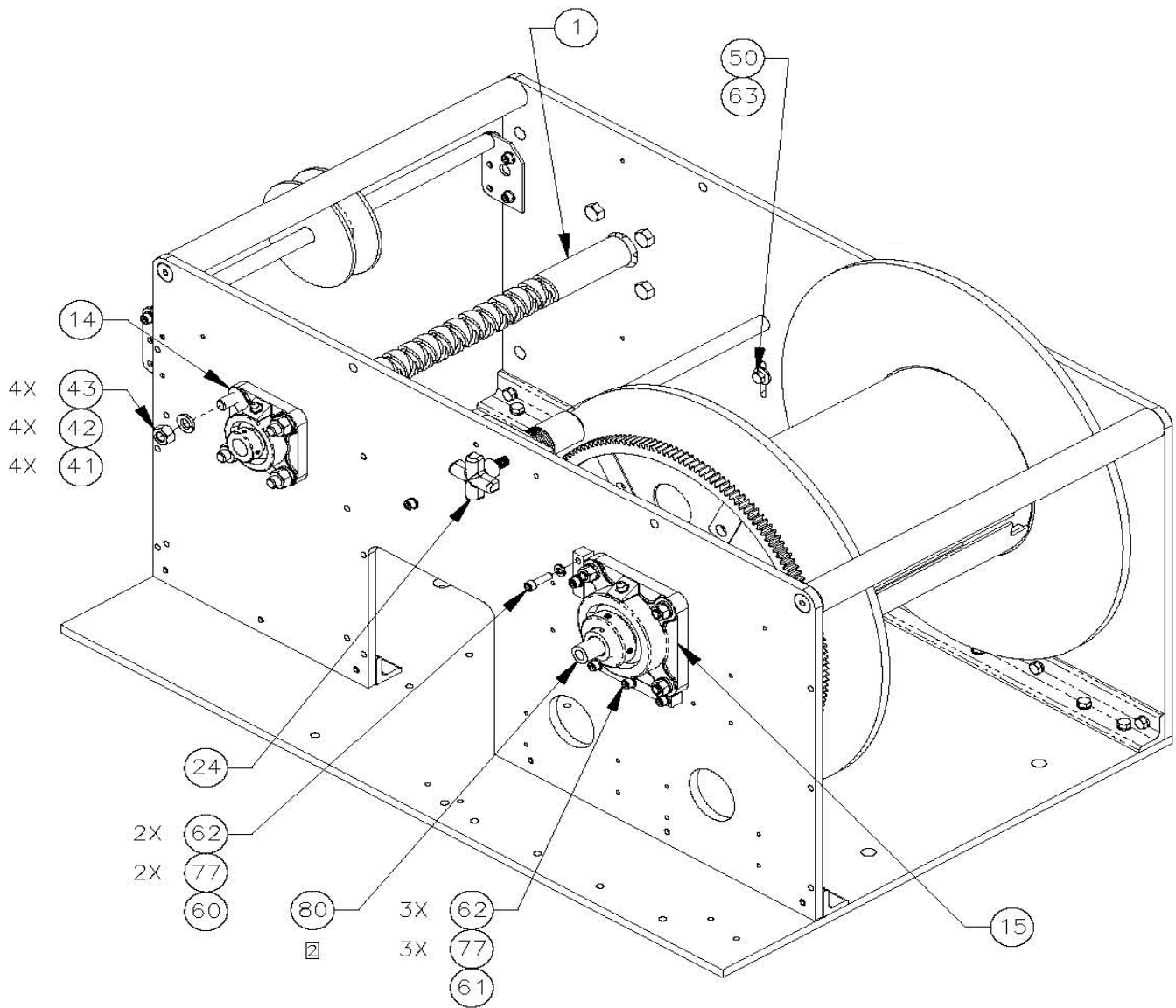
# MAINLINE REEL



# MAINLINE REEL

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>        |
|----------------------|----------------------|----------------------------------|
| <b>12</b>            | 405-15319            | BUSHING,TORQUE ARM               |
| <b>13</b>            | 407-15497            | SHAFT,TORQUE ARM,17.00 IN        |
| <b>16</b>            | 453-10492-31         | BASE PLATE                       |
| <b>17</b>            | 453-10374-31         | SIDE PLATE, <b><u>RIGHT</u></b>  |
| <b>18</b>            | 453-10433-31         | SIDE PLATE, <b><u>LEFT</u></b>   |
| <b>19</b>            | 451-14045-31         | ANGLE,SIDE FRAME MTG.,33.00"     |
| <b>20</b>            | 451-13987-31         | ANGLE,SIDE FRAME MTG.,14.75"     |
| <b>21</b>            | 451-13929-31         | ANGLE,SIDE FRAME MTG.,10.75"     |
| <b>22</b>            | 447-10545-31         | CENTER SUPPORT BAR, 17"          |
| <b>30</b>            | 449-15325            | ROLLER,GUIDE,POLYURETHANE        |
| <b>31</b>            | 407-37799            | SHAFT,ROLLER,GUIDE,16.75"        |
| <b>32</b>            | 453-37798            | BRKT,MTG,SHAFT,ROLLER,GUIDE      |
| <b>47</b>            | 301-11595            | MSCR,FLT,HXS,3/8-16X1 SS         |
| <b>48</b>            | 300-13972            | MSCR,HEXHD,1/4-20X.75 ZINC       |
| <b>49</b>            | 318-14846            | WASHER,LKG,.25(1/4),HELICAL ZINC |
| <b>53</b>            | 301-10651            | MSCR,SHCS,1/4-20X.50 SS          |
| <b>62</b>            | 301-15608            | MSCR,SHCS,1/4-20X.87 SS          |
| <b>77</b>            | 318-15671            | WASHER,LKG,.25,HELICAL SS        |

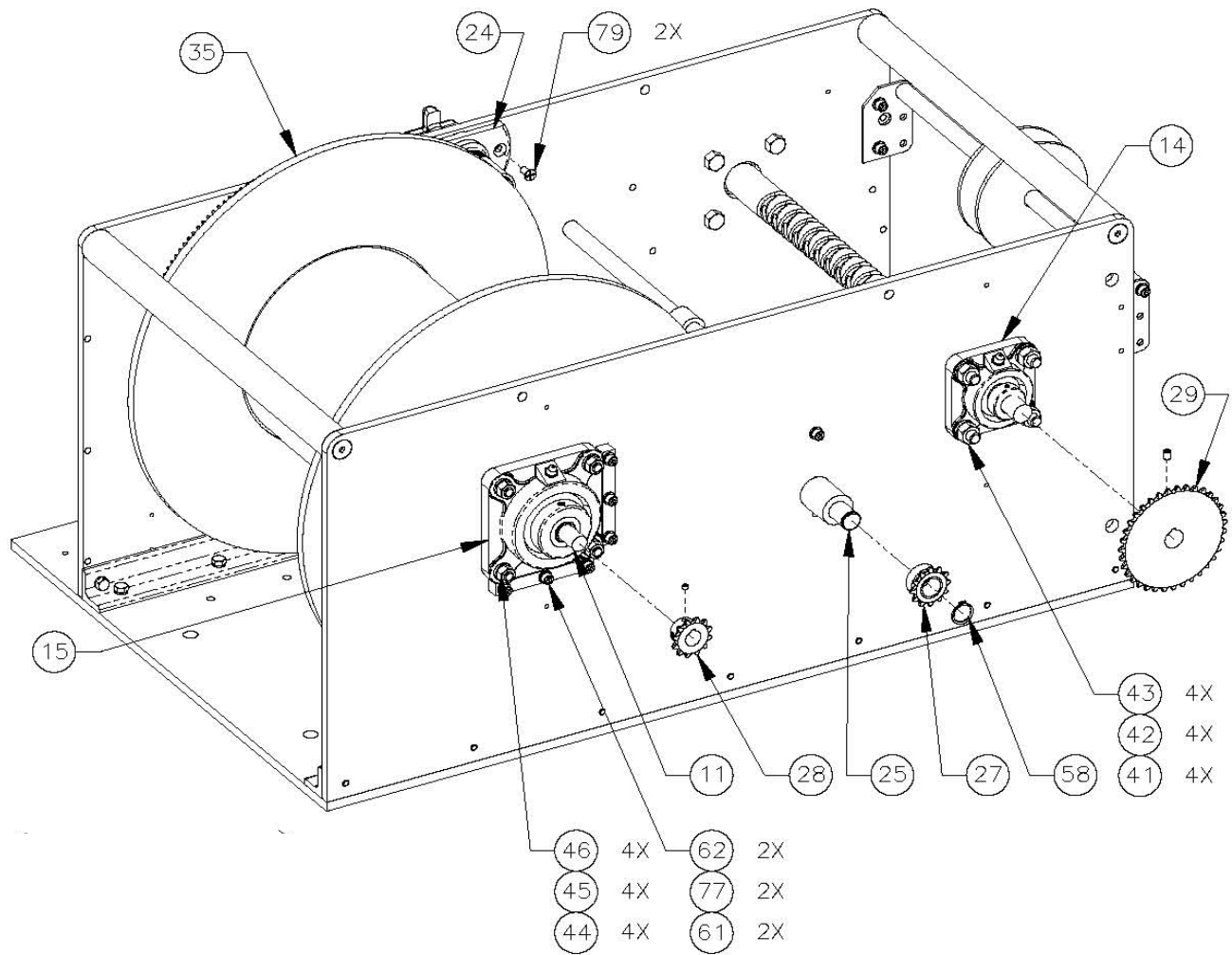
# MAINLINE REEL



# MAINLINE REEL

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                    |
|----------------------|----------------------|----------------------------------------------|
| <b>1</b>             | 407-13465            | SHAFT,LEVEL WIND,.75" PITCH X 11.25"         |
| <b>14</b>            | 404-14094            | BEARING,FLANGE,3/4",4 BOLT W/SAE SET SCREW   |
| <b>15</b>            | 404-14036            | BEARING,FLANGE,1-1/4" 4 BOLT W/SAE SET SCREW |
| <b>24</b>            | 805-12469            | ASSY,DRAG BRAKE,MLCR                         |
| <b>41</b>            | 300-32268            | MSCR,HEXHD,7/16-14X1.75 ZINC                 |
| <b>42</b>            | 318-15081            | WASHER,LKG,.44 (7/16),HELICAL ZINC           |
| <b>43</b>            | 308-12885            | NUT,HEX,7/16-14 ZINC                         |
| <b>50</b>            | 300-14725            | MSCR,HEXHD,1/4-20X1 ZINC                     |
| <b>60</b>            | 451-17713            | BLOCK,BEARING ADJUST,SOLID SIDE,MLCR         |
| <b>61</b>            | 451-17714            | BLOCK,BEARING ADJUST,MLCR                    |
| <b>62</b>            | 301-15608            | MSCR,SHCS,1/4-20X.87 SS                      |
| <b>63</b>            | 316-11245            | WASHER,FLT,.25,SAE SS                        |
| <b>77</b>            | 318-15671            | WASHER,LKG,.25,HELICAL SS                    |
| <b>80</b>            | 408-30590            | COLLAR,SLIP RING,3 CONDUCTOR                 |

# MAINLINE REEL

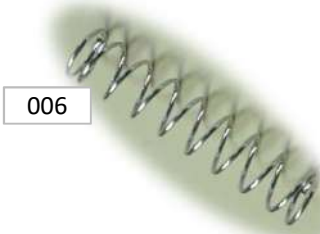


ITEMS 59 AND 70  
NOT SHOWN FOR CLARITY

# MAINLINE REEL

| ITEM # | PART #    | DESCRIPTION                                  |
|--------|-----------|----------------------------------------------|
| 11     | 407-11661 | ASSY,SHAFT,SPOOL,MLCR                        |
| 14     | 404-14094 | BEARING,FLANGE,3/4",4 BOLT W/SAE SET SCREW   |
| 15     | 404-14036 | BEARING,FLANGE,1-1/4" 4 BOLT W/SAE SET SCREW |
| 24     | 805-12469 | ASSY,DRAW BRAKE,MLCR                         |
| 25     | 407-11720 | SHAFT,CHAIN TENSIONER,LEV.WIND DR.,LH        |
| 27     | 805-11368 | ASSY,SPRKT,CHAIN TENSIONER,MLCR              |
| 28     | 441-14677 | SPRKT,35PITCH,12TOOTH,HUB,SSCR,5/8"          |
| 29     | 441-14410 | SPRKT,35PITCH,35TOOTH,3/4",w/2 SET SCREWS    |
| 35     | 864-14106 | ASSY,SPOOL,M/L REEL PHN                      |
| 41     | 300-32268 | MSCR,HEXHD,7/16-14X1.75 ZINC                 |
| 42     | 318-15081 | WASHER,LKG,.44 (7/16),HELICAL ZINC           |
| 43     | 308-12885 | NUT,HEX,7/16-14 ZINC                         |
| 44     | 301-10357 | MSCR,HEXHD,3/8-16X1.50 SS                    |
| 45     | 318-14963 | WASHER,LKG,.375,HELICAL ZINC                 |
| 46     | 308-12769 | NUT,HEX,3/8-16 ZINC                          |
| 58     | 410-13180 | RING,SNAP,EXT,.750                           |
| 61     | 451-17714 | BLOCK,BEARING ADJUST,MLCR                    |
| 62     | 301-15608 | MSCR,SHCS,1/4-20X.87 SS                      |
| 77     | 318-15671 | WASHER,LKG,.25,HELICAL SS                    |
| 79     | 301-14783 | MSCR,FLT,PHH,1/4-20X.50 SS                   |

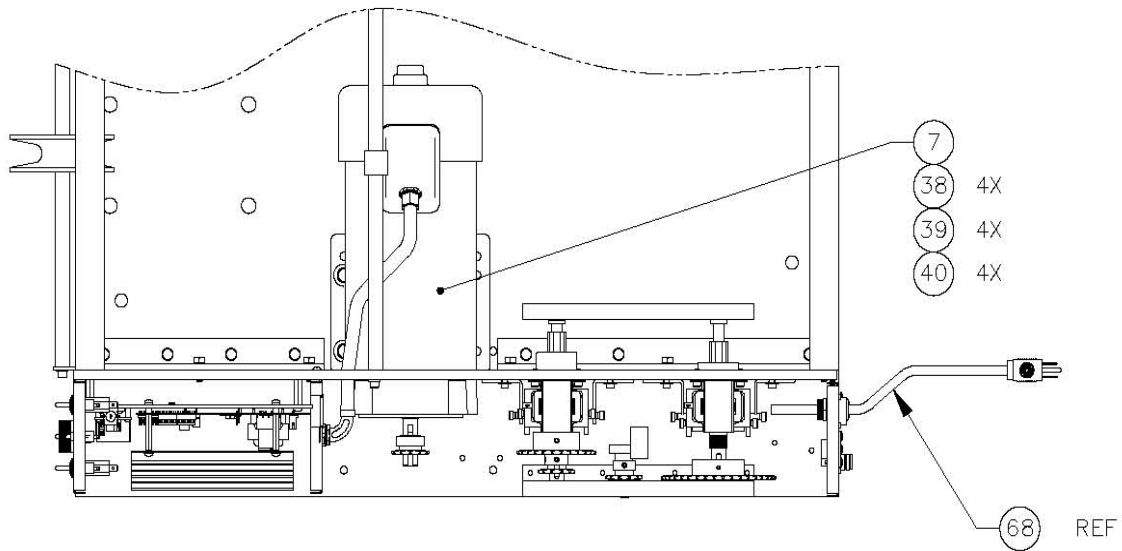
| ITEM #    | PART #           | DESCRIPTION                              | QTY      |
|-----------|------------------|------------------------------------------|----------|
| <b>24</b> | <b>805-12469</b> | <b>DRAW BRAKE ASSY</b>                   | KIT COMP |
| 006       | 446-13983        | SPRING, COMPRESS, 2-3/8" L, 12.6 LBS     | 1        |
| 007       | 446-14041        | SPRING, DRAW BRAKE, OUTER                | 1        |
| 002       | 448-11430        | FOLLOWER, DRAW BRAKE                     | 1        |
| 001       | 448-11548        | PAD, DRAW BRAKE, 1.0" O.D., DELRIN       | 1        |
| 003       | 805-19193-31     | ASSY, HOUSING, DRAW BRAKE, BLK PWDR COAT | 1        |



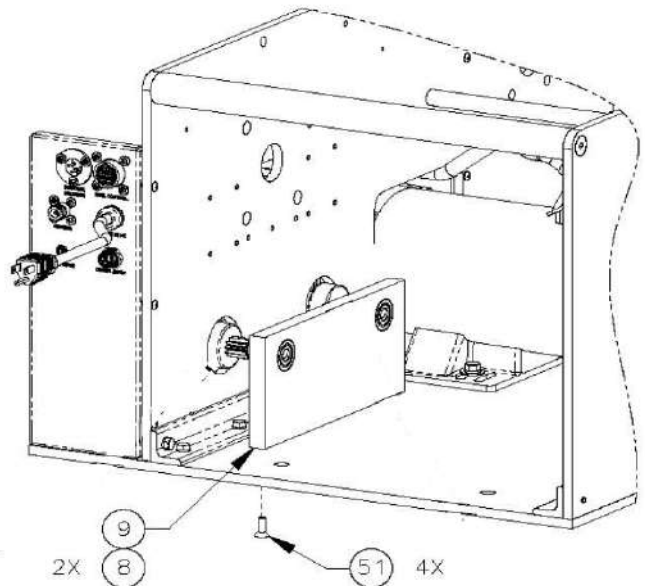




# MAINLINE REEL

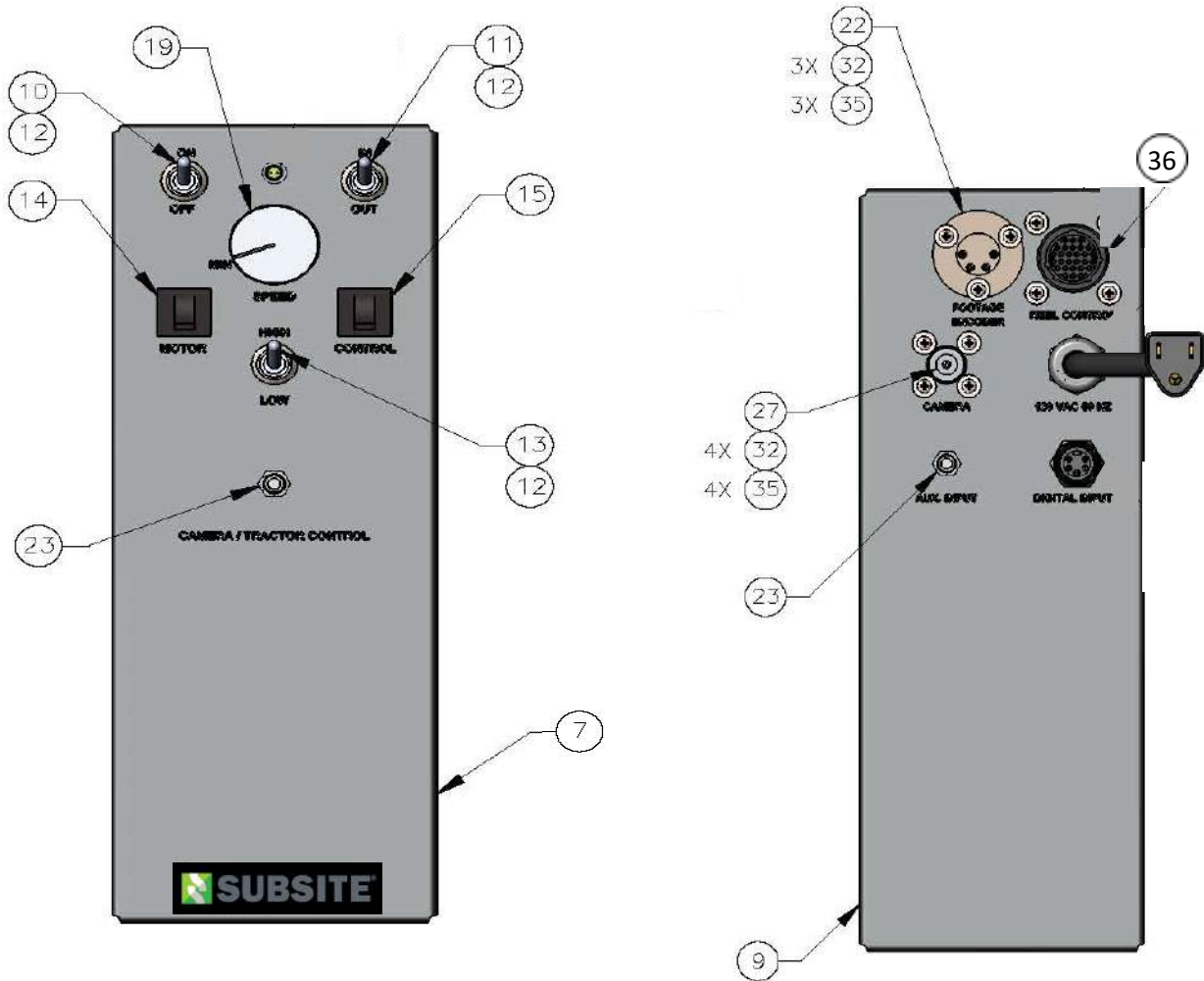


| ITEM # | PART #    | DESCRIPTION                        |
|--------|-----------|------------------------------------|
| 7      | 635-13163 | MOTOR,90VDC,3/4HP,8.2A,1725RPM,56C |
| 38     | 301-15548 | MSCR,HEXHD,5/16-18X.75 SS          |
| 39     | 318-14904 | WASHER,LKG,.31(5/16),HELICAL SS    |
| 40     | 316-11953 | WASHER,FLT,.312 SS                 |



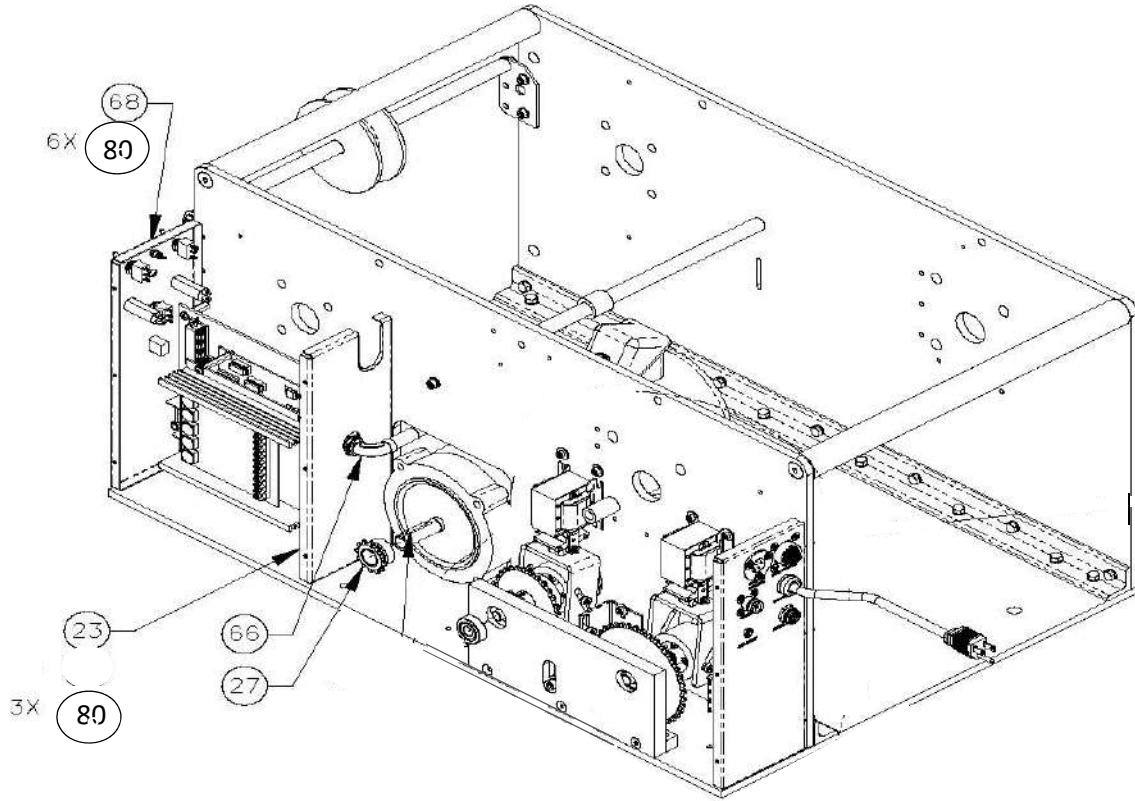
| ITEM # | PART #       | DESCRIPTION                                      |
|--------|--------------|--------------------------------------------------|
| 8      | 404-14210    | BEARING,BALL,1.26OD, .472 BORE, .394W, SEALED    |
| 9      | 451-12141-31 | BLOCK,PINION BEARING,INNER,4.5" TALL,BLK PWDR CT |
| 51     | 301-11183    | MSCR,FLT,HXS,1/4-20 X .75 SS                     |

# MAINLINE REEL



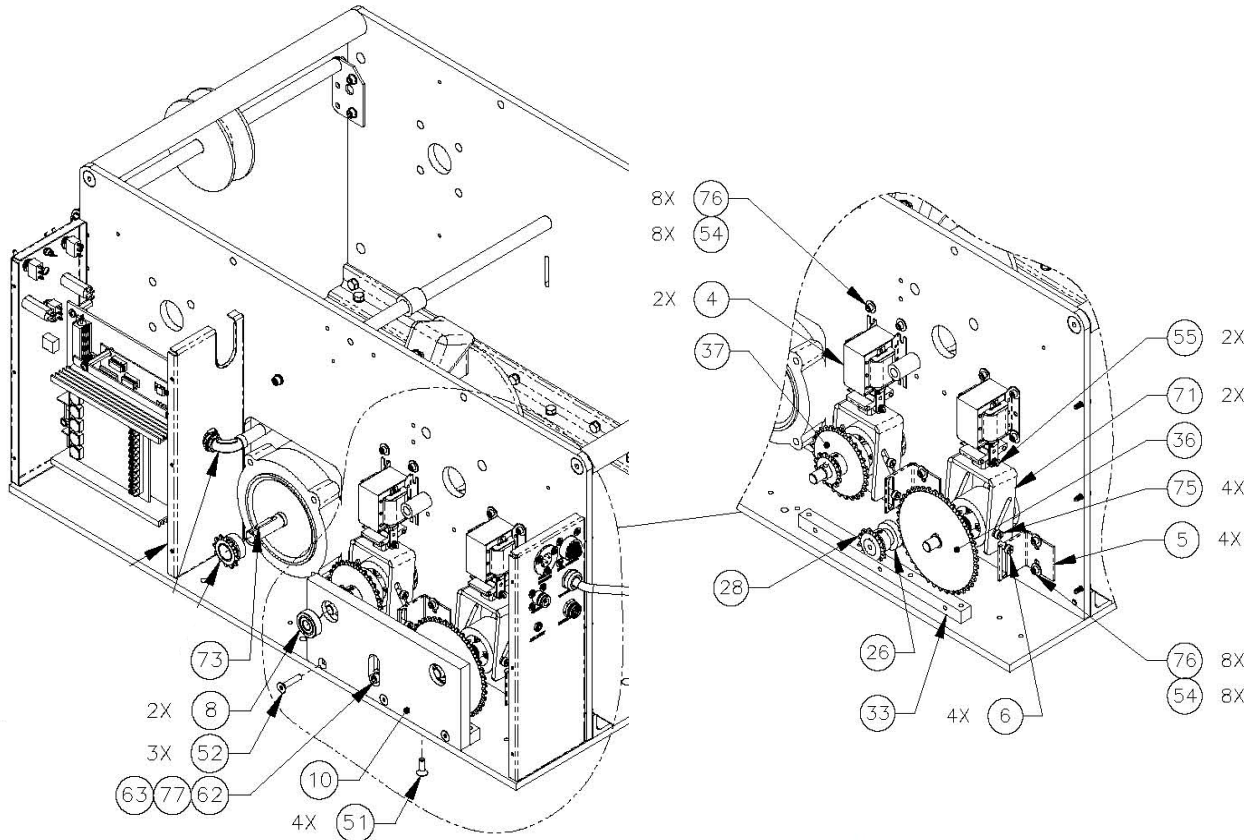
| ITEM # | PART #       | DESCRIPTION                                          |
|--------|--------------|------------------------------------------------------|
| 7      | 453-12668-43 | FRONT PANEL                                          |
| 9      | 453-12726-43 | REAR PANEL                                           |
| 10     | 542-30154    | TOGGLE SWITCH, SPDT,MOM,15A,.25QD,(ON)OFF(ON)        |
| 11     | 542-14697    | TOGGLE SWITCH, SPST,MAN,15A,.25QD,ON/NONE/OFF UL/CSA |
| 12     | 311-18914    | NUT,FACENUT,DECORATIVE,SWITCH,15/32-32               |
| 13     | 542-14407    | TOGGLE SWITCH, SPDT,15A,.25QD,ON/OFF/ON              |
| 14     | 529-10384    | CIRCUIT BREAKER,12AMP,PNL MNT,1/2"X 9/16" HOLE       |
| 15     | 529-10502    | CIRCUIT BREAKER,3A,PNL MT                            |
| 19     | 447-10663    | KNOB,ALUM,.25SHAFT,1.25DIA,.63H                      |
| 22     | 556-10977    | CONN,JACK,4PIN,PANEL MT,XLR-C4M ( FOOTAGE CONN )     |
| 23     | 806-31764    | ASSY,CBL,REMOTE AUX CNTRLR,MLCR HARNESS              |
| 27     | 806-31703    | ASSY,HARNESS,N-JACK > 3 COND. SLIP RING CONN,MLCR    |
| 32     | 301-10473    | MSCR,PAN,PHH,4-40X.50 SS                             |
| 35     | 316-10891    | WASHER,FLT,#4 SS                                     |
| 36     | 806-34521    | ASSY,CBL,28 PIN, MLR DFTL-MLC, 18'                   |

# MAINLINE REEL



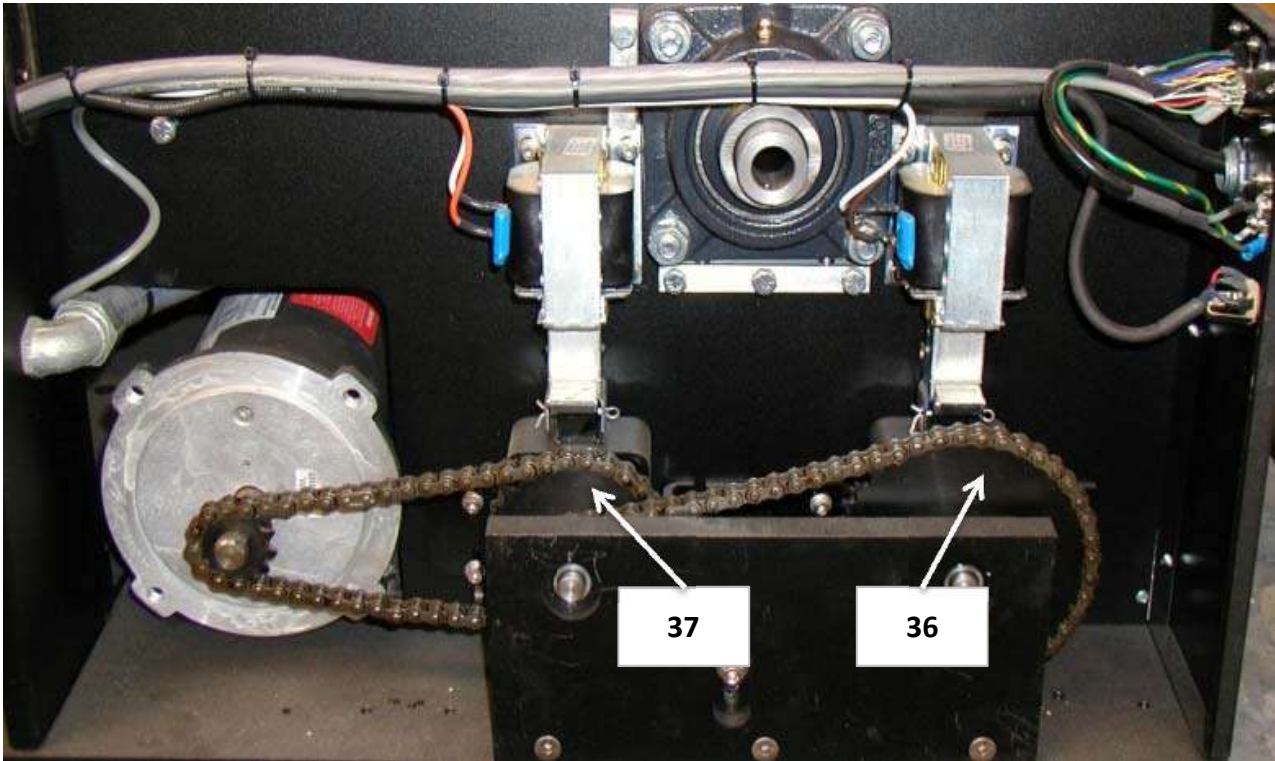
| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                                          |
|---------------|---------------|-------------------------------------------------------------|
| <b>23</b>     | 453-12610-31  | SIDE PANEL, <b>RIGHT, CENTER SUPPORT</b>                    |
| <b>27</b>     | 805-11368     | ASSY,SPRKT,CHAIN TENSIONER,MLCR                             |
| <b>80</b>     | 303-13573     | TSCR,PAN,PHH,10X.75,SMS ZINC                                |
|               | 806-31347     | ASSY,HARNESS,MLCR,DIGITAL,COMPLETE W/MTG PLATE (SMART REEL) |
|               | 448-16021     | KEY,3/16 X 3/16 X .88                                       |

# MAINLINE REEL



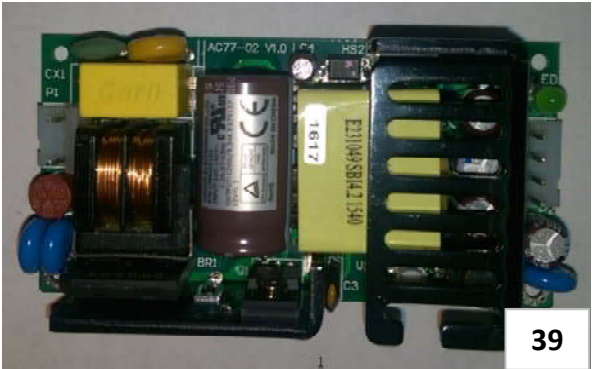
| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                               |
|---------------|---------------|--------------------------------------------------|
| 4             | 543-10858     | SOLENOID,120VAC,6.5 OHM,PULL TYPE                |
| 5             | 451-10487     | BRKT,GUIDE,ENGAGEMENT CAM,M/L REEL               |
| 6             | 305-11126     | BOLT,SHLDR,SKT HD,10-24,1/4 X 1/2                |
| 8             | 404-14210     | BEARING,BALL,1.26OD,.472BORE,.394W,SEALED        |
| 10            | 451-12200-31  | BLOCK,PINION BEARING,OUTER,4.5" TALL BLK PWDR CT |
| 26            | 407-11779     | SHAFT,CHAIN TENSIONER,PINION SIDE                |
| 28            | 441-14677     | SPRKT,35PITCH,12TOOTH,HUB,SSCR,5/8"              |
| 33            | 451-11256-31  | BLOCK,SUPPORT,PINION BEARING,OUTER,BLK PWDR CT   |
| 36            | 805-14140     | REFER TO FOLLOWING PAGE                          |
| 37            | 805-14198     | REFER TO FOLLOWING PAGE                          |
| 51            | 301-11183     | MSCR,FLT,HXS,1/4-20X.75 SS                       |
| 52            | 301-11360     | MSCR,FLT,HXS,1/4-20X1.25 SS                      |
| 54            | 316-11835     | WASHER,FLT,#10 SS                                |
| 55            | 400-12072     | PIN,COTTER,.125"X2                               |
| 62            | 301-15608     | MSCR,SHCS,1/4-20X.87 SS                          |
| 63            | 316-11245     | WASHER,FLT,.25,SAE SS                            |
| 71            | 442-11959     | CAM,PINION ENGAGEMENT, PAINTED                   |
| 75            | 305-10064     | BOLT,SHLDR,SKT HD,10-24,1/4 X 3/8 STL            |
| 76            | 301-11241     | MSCR,SHCS,10-32X.50 SS                           |
| 77            | 318-15671     | WASHER,LKG,.25,HELICAL SS                        |

# MAINLINE REEL

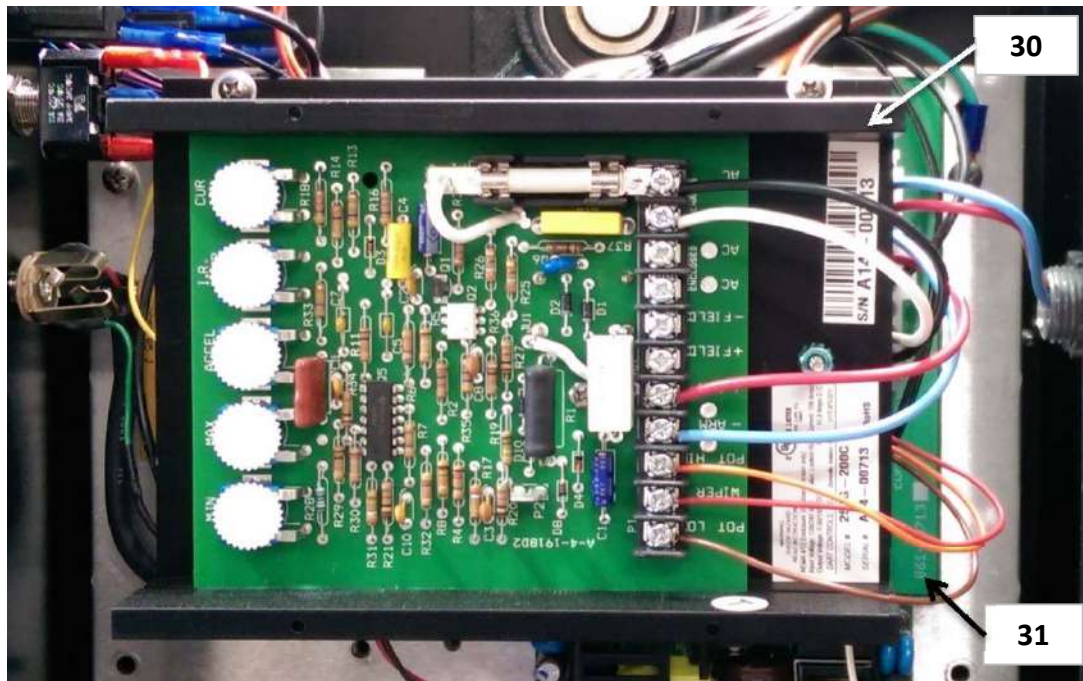


| ITEM #    | PART #    | DESCRIPTION                                          | QTY      |
|-----------|-----------|------------------------------------------------------|----------|
| <u>36</u> | 805-14140 | <u>LOW SPEED</u> BENDIX ASSEMBLY (WITH 1 SPROCKET)   | COMP KIT |
| <u>37</u> | 805-14198 | <u>HIGH SPEED</u> BENDIX ASSEMBLY (WITH 2 SPROCKETS) | COMP KIT |
|           | 441-11191 | CHAIN #35 PITCH (24" FOR LOW / 20" FOR HIGH)         |          |

|    |             |                                             |
|----|-------------|---------------------------------------------|
| 38 | 548-32556   | PWR SPLY,12VDC, OPEN FRAME (OLD STYLE)      |
| 39 | 548-35924   | PWR SPLY,SWITCHING,12V@3.2A,40W (NEW STYLE) |
|    | 548-40288-1 | PWR SPLY, 12V@2.5A, 30W                     |



# MAINLINE REEL ELECTRICAL PARTS



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                |
|---------------|---------------|---------------------------------------------------|
| <b>30</b>     | 863-10905     | CONTROLLER, MOTOR SPEED                           |
| <b>31</b>     | 861-33713-34  | SMART BOARD, PCB CONTROLLER                       |
|               | 501-13595     | RES, WW, 50W, AL HSG, 0.5 OHM                     |
|               | 451-11315     | BRACKET, LIMIT SWITCH                             |
|               | 503-12789     | RES, VAR, 2W, 10% 10K (MOTOR SPEED CONTROL)       |
|               | 529-10384     | CIRCUIT BREAKER, 12A                              |
|               | 529-10502     | CIRCUIT BREAKER, 3A, ½ MTG HOLE                   |
|               | 529-11682     | FUSE, 10-AMP, MOTOR CONTROL BOARD                 |
|               | 542-12389     | LIMIT SWITCH                                      |
|               | 543-10209     | RELAY, 48V (2 REQUIRED)                           |
|               | 543-15755     | RELAY, 120V (3 REQUIRED)                          |
|               | 806-11413     | ASSY, HARNESS, M/L 10K VARIABLE RESISTOR          |
| <b>32</b>     | 806-31703     | ASSY,HARNESS,N-JACK > 3 COND. SLIP RING CONN,MLCR |



# MAINLINE REEL

## SLIP RINGS

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                              |
|---------------|---------------|-------------------------------------------------|
|               | 560-11569     | SLIP RING, MERCURY WETTED, SEALED (6 CONDUCTOR) |
|               | 560-11628     | SLIP RING, MERCURY WETTED, SEALED (2 CONDUCTOR) |



|           |                               |
|-----------|-------------------------------|
| 560-11687 | SLIP RING CAP (2 SOLDER TABS) |
|-----------|-------------------------------|



|           |                                    |
|-----------|------------------------------------|
| 560-11746 | SLIP RING CONNECTOR (TWO 6" LEADS) |
|-----------|------------------------------------|



|           |                               |
|-----------|-------------------------------|
| 560-17860 | SLIP RING CAP (3 SOLDER TABS) |
|-----------|-------------------------------|



|           |                       |
|-----------|-----------------------|
| 806-31703 | ASSY, HARNESS, 3 COND |
|-----------|-----------------------|



|           |                                                 |
|-----------|-------------------------------------------------|
| 560-17861 | SLIP RING CONNECTOR (THREE 6" LEADS)            |
| 560-17862 | SLIP RING, MERCURY WETTED, SEALED (3 CONDUCTOR) |

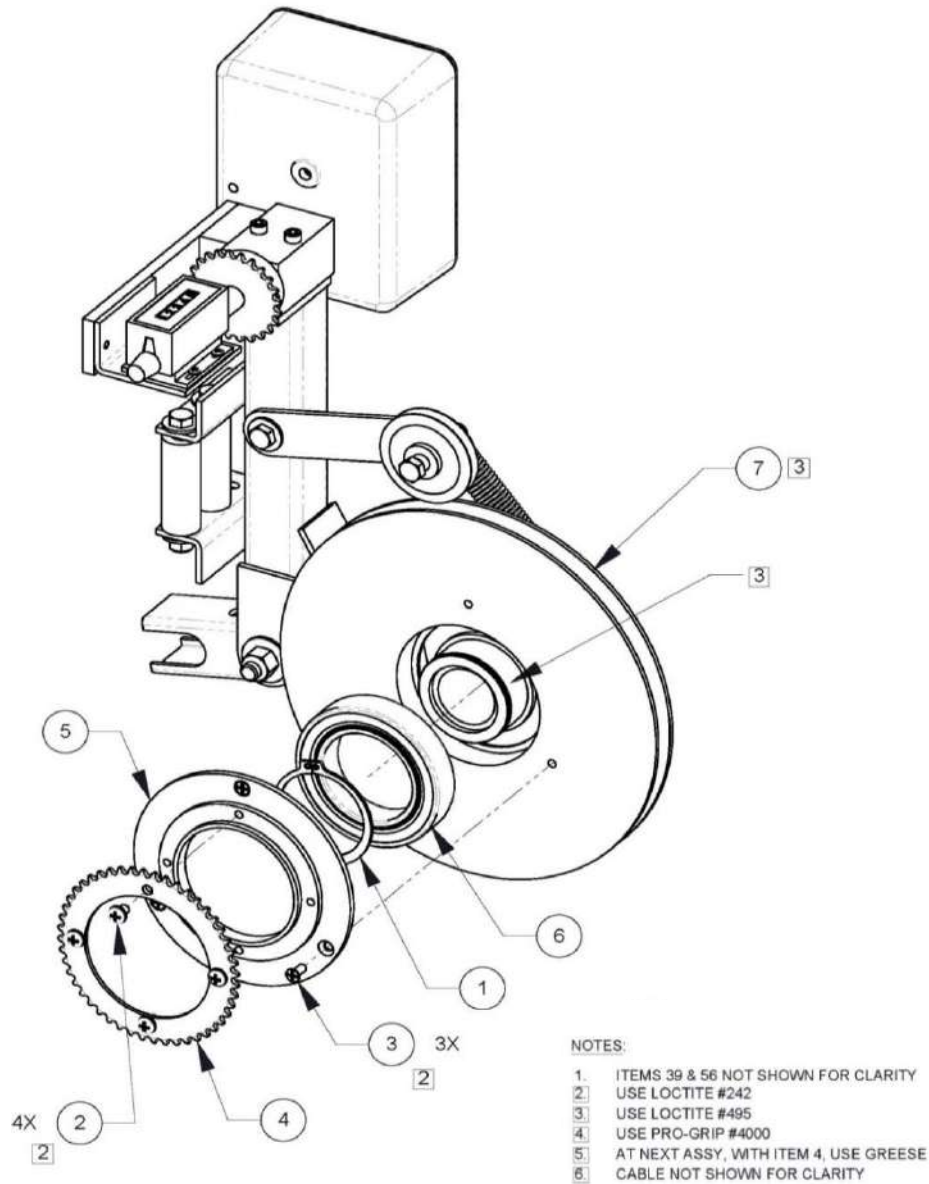


|           |                                                 |
|-----------|-------------------------------------------------|
| 560-21904 | SLIP RING, MERCURY WETTED, SEALED (8 CONDUCTOR) |
| 560-34363 | SLIP RING, MERCURY WETTED, SEALED (4 CONDUCTOR) |



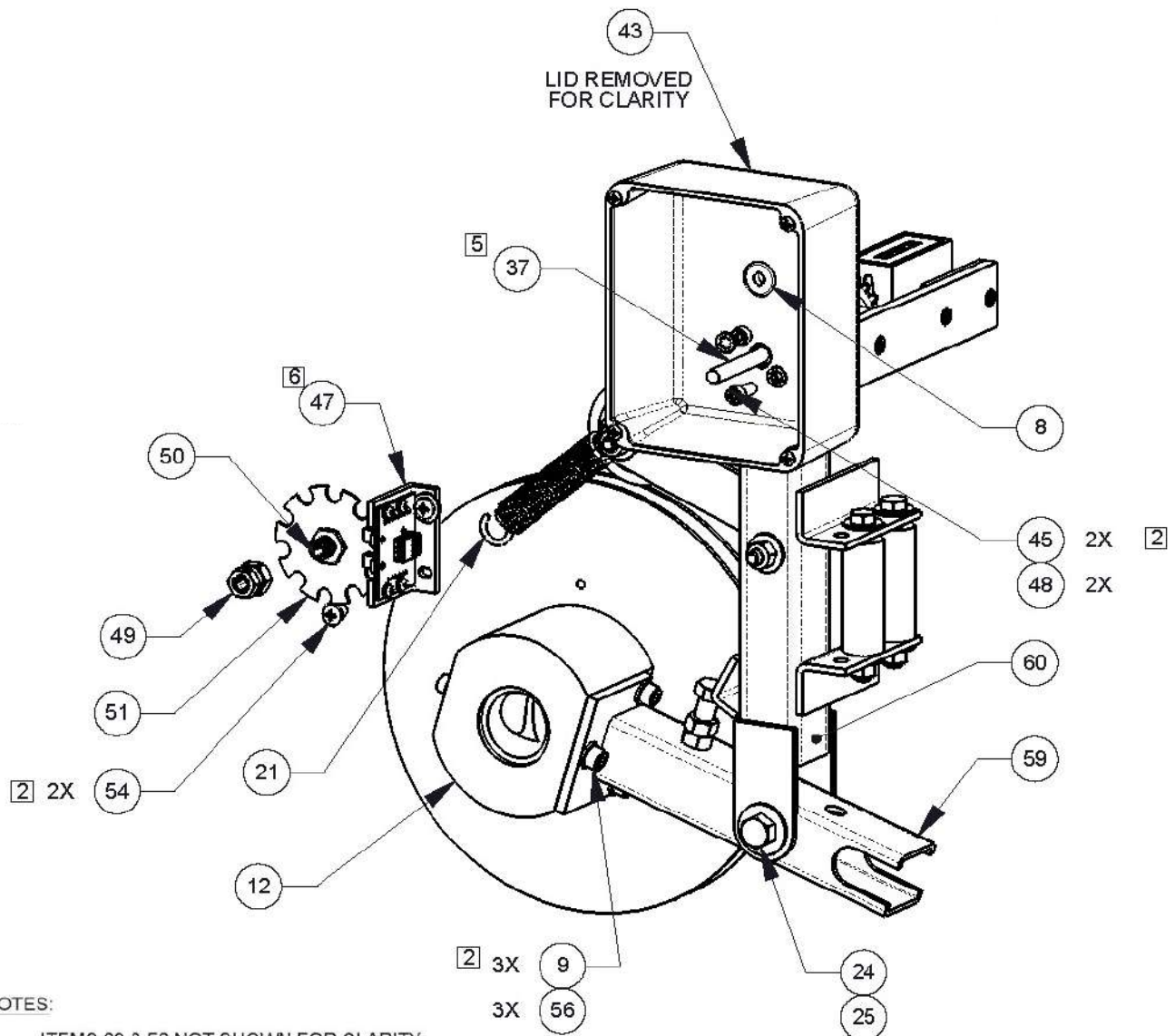
# MAINLINE REEL

## FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD



| ITEM # | PART #           | DESCRIPTION                                      |
|--------|------------------|--------------------------------------------------|
|        | <b>867-13684</b> | <b>ASSY,COUNTER,FTG,LEVEL WIND,STANDARD,MLCR</b> |
| 1      | 410-30471        | RING,RETAINING,EXT,RADIAL,.75" SHAFT (E-CLIP)    |
| 2      | 301-13799        | MSCR,PAN,PHH,10-32X.25 SS                        |
| 3      | 301-12707        | MSCR,FLT,PHH,8-32X.37 SS                         |
| 4      | 441-11722        | SPRKT,COUNTER DRIVE,48T,MODIFIED                 |
| 5      | 451-15032        | MOUNT,DRIVE SPRKT,FOOTAGE COUNTER                |
| 6      | 404-13635        | BEARING,BALL,3.149OD,1.968BORE,.63W,SEALED       |
| 7      | 443-13753-21     | WHEEL,COUNTER, FOOTAGE,HARD CLEAR ANODIZED       |

# MAINLINE REEL FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD



## NOTES:

1. ITEMS 39 & 56 NOT SHOWN FOR CLARITY
2. USE LOCTITE #242
3. USE LOCTITE #495
4. USE PRO-GRIP #4000
5. AT NEXT ASSY, WITH ITEM 4, USE GREASE
6. CABLE NOT SHOWN FOR CLARITY

PART NUMBERS ON FOLLOWING PAGE

# MAINLINE REEL

## FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD

| ITEM # | PART #    | DESCRIPTION                                            |
|--------|-----------|--------------------------------------------------------|
| 8      | 449-15089 | GROMMET,RUBBER,1/4ID 7/16 HOLE                         |
| 9      | 301-10651 | MSCR,SHCS,1/4-20X.50 SS                                |
| 12     | 864-16909 | ASSY,FOLLOWER BLOCK                                    |
| 21     | 446-14157 | SPRING,WHEEL TENSION,FOOTAGE COUNTER                   |
| 24     | 300-10120 | MSCR,HEXHD,3/8-16X2.25,GRD5 ZINC                       |
| 25     | 315-11717 | WASHER,FLT,.37 ZINC                                    |
| 37     | 407-12367 | SHAFT,FOOTAGE COUNTER                                  |
| 43     | 452-11199 | BOX,COUNTER HOUSING,W/ LID                             |
| 45     | 301-11241 | MSCR,SHCS,10-32X.50 SS                                 |
| 47     | 806-18586 | ASSY,HARNESS,FOOTAGE ENCODER,W/CABLE, W/BRKT           |
| 48     | 318-14788 | WASHER,LKG,#10,INT TOOTH SS                            |
| 51     |           | SHAFT LOCK,1/4" & BUSHING SOLD TOGETHER, FOOTAGE WHEEL |
| 52     | 505-42200 | ITEMS 51 & 52 SOLD TOGETHER AS ONE PART                |
| 54     | 301-14087 | MSCR,PAN,PHH,10-32X.31 SS                              |
| 56     | 318-15671 | WASHER,LKG,.25,HELICAL SS                              |
| 59     | 445-13183 | ASSY,ARM,TORQUE,LEVEL WIND                             |
| 60     | 800-14139 | ASSY,COUNTER ARM                                       |

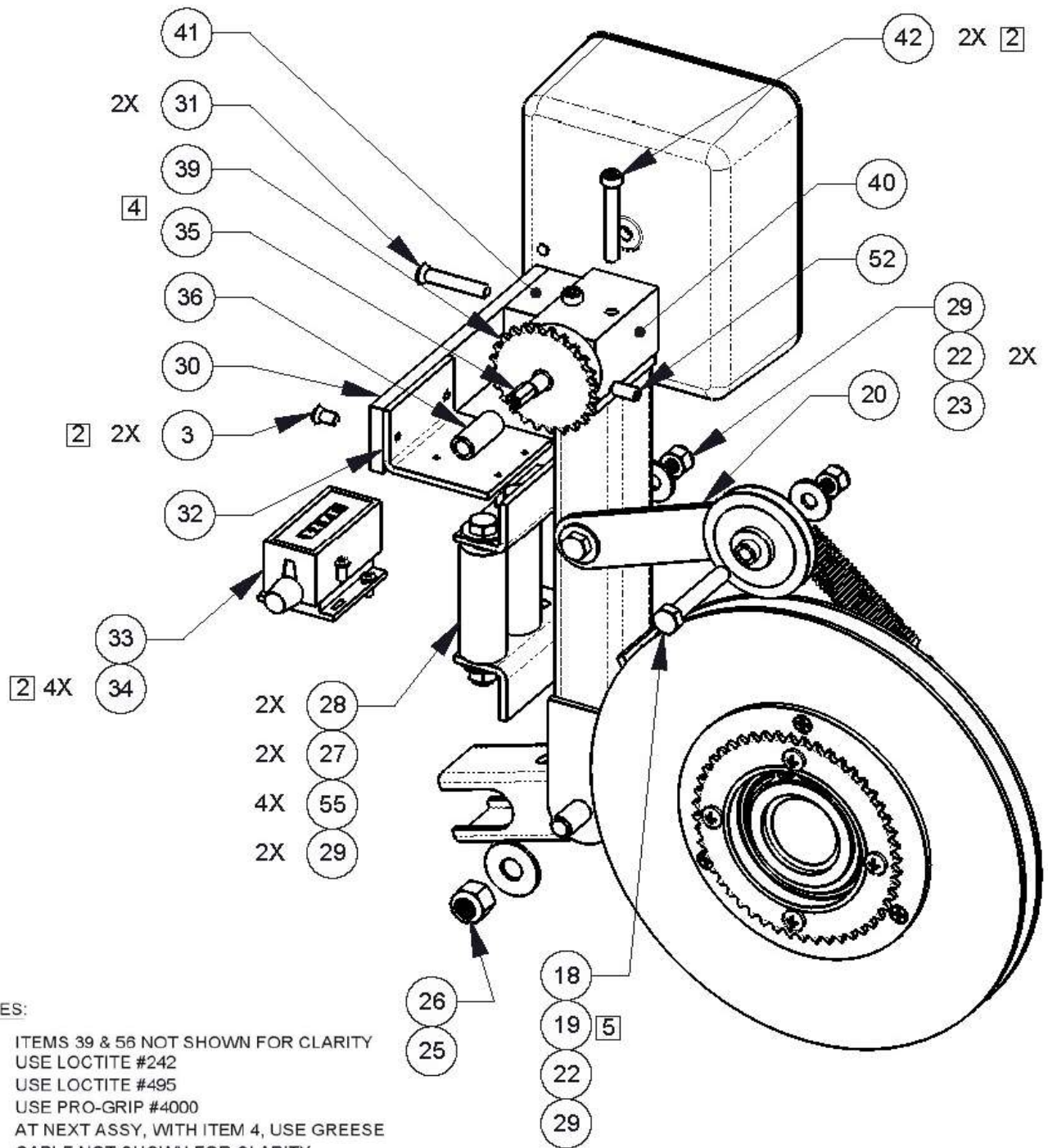
| ITEM # | PART #           | DESCRIPTION                                         | QTY      |
|--------|------------------|-----------------------------------------------------|----------|
|        | <b>841-11414</b> | <b>REPAIR KIT, FOOTAGE ENCODER (DAISY WHL)</b>      | COMP KIT |
| 38     | 407-12367        | SHAFT, FOOTAGE COUNTER                              | 1        |
| 49     | 806-18586        | ASSY, HARNESS, FOOTAGE ENCODER, W/CABLE, W/BRKT     | 1        |
| 51     | 505-42200        | <b>SHAFT LOCK, 1/4" &amp; BUSHING SOLD TOGETHER</b> | 1        |
| 52     |                  | <b>ITEMS 51 &amp; 52 SOLD TOGETHER AS ONE PART</b>  |          |
| 53     | 443-13810        | FOOTAGE SENSOR WHEEL (DAISY WHEEL)                  | 1        |



**505-42200**



# MAINLINE REEL FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD



PART NUMBERS ON FOLLOWING PAGE

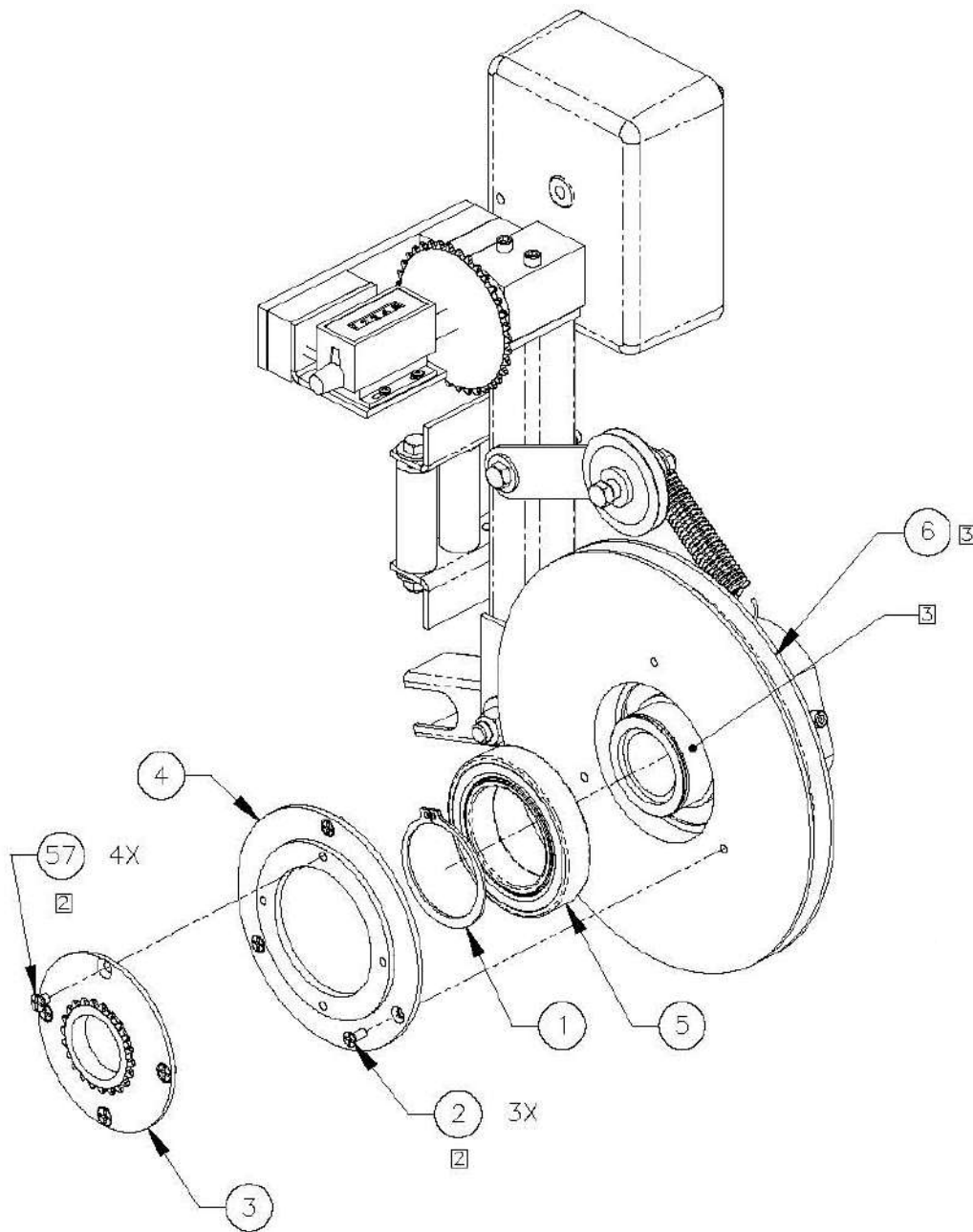
# MAINLINE REEL

## FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                         |
|---------------|---------------|--------------------------------------------|
| 3             | 301-12707     | MSCR,FLT,PHH,8-32X.37 SS                   |
| 18            | 300-11419     | MSCR,HEXHD,1/4-20X1.75 ZINC                |
| 19            | 805-21529     | PINCH ROLLER ASSEMBLY                      |
| 20            | 445-13298-31  | ARM,PINCH ROLLER                           |
| 22            | 315-11304     | WASHER,FLT,.25,SAE ZINC                    |
| 23            | 300-15194     | MSCR,HEXHD,1/4-20X2 ZINC                   |
| 25            | 315-11717     | WASHER,FLT,.37 ZINC                        |
| 26            | 308-13975     | NUT,HEX,3/8-16,NYLOCK ZINC                 |
| 27            | 300-15253     | MSCR,HEXHD,1/4-20X3,GRD 5 ZINC             |
| 28            | 800-21109     | ASSY,ROLLER,GUIDE,FOOTAGE COUNTER          |
| 29            | 308-14265     | NUT,HEX,1/4-20,NYLOCK ZINC                 |
| 30            | 451-12722     | BAR,MTG,COUNTER                            |
| 31            | 301-13856     | MSCR,FLT,PHH,10-32X1.25 SS                 |
| 32            | 451-12664     | ANGLE,COUNTER MOUNTING                     |
| 33            | 867-20485     | COUNTER,MECHANICAL,5 DIGIT,10CTS W/ADAPTER |
| 34            | 301-11181     | MSCR,PAN,PHH,4-40X.31 SS                   |
| 35            | 408-12425     | ADPTR,SHAFT,FOOTAGE COUNTER                |
| 36            | 606-11516     | HOSE,RUBBER,VACUUM,5/32"                   |
| 39            | 805-11663     | ASSY,SPRKT,COUNTER DRIVE,24TOOTH           |
| 40            | 864-16911     | ASSY,BEARING BLOCK,COUNTER DRIVE           |
| 41            | 451-12780     | BLOCK,COUNTER MOUNTING,COUNTER             |
| 42            | 301-11300     | MSCR,SHCS,10-32X1.50 SS                    |
| 52            | 304-11066     | SSCR,CUP PT,HXS,10-32X.50 SS               |
| 55            | 316-11245     | WASHER,FLT,.25,SAE SS                      |

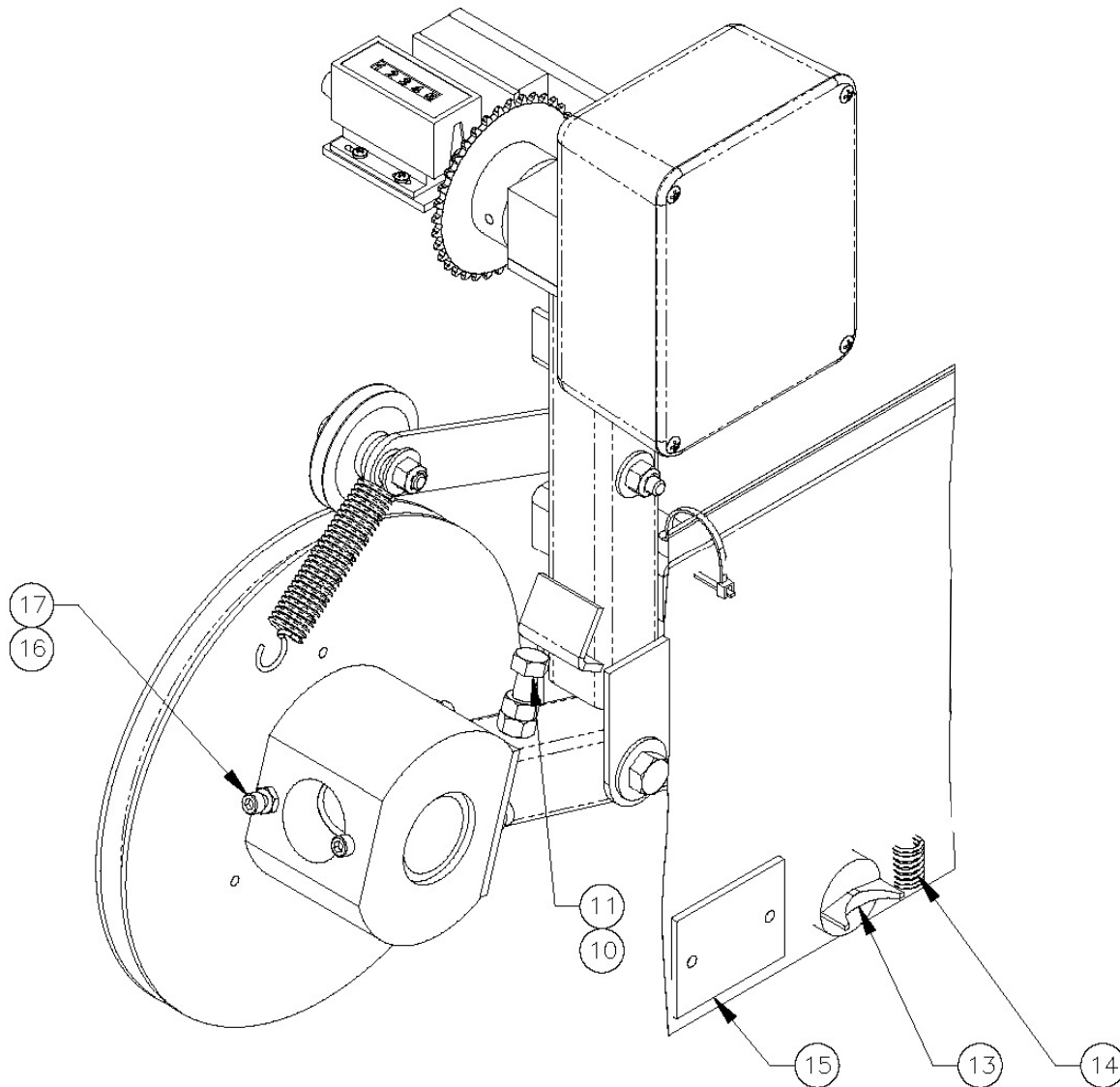
# MAINLINE REEL

## FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC



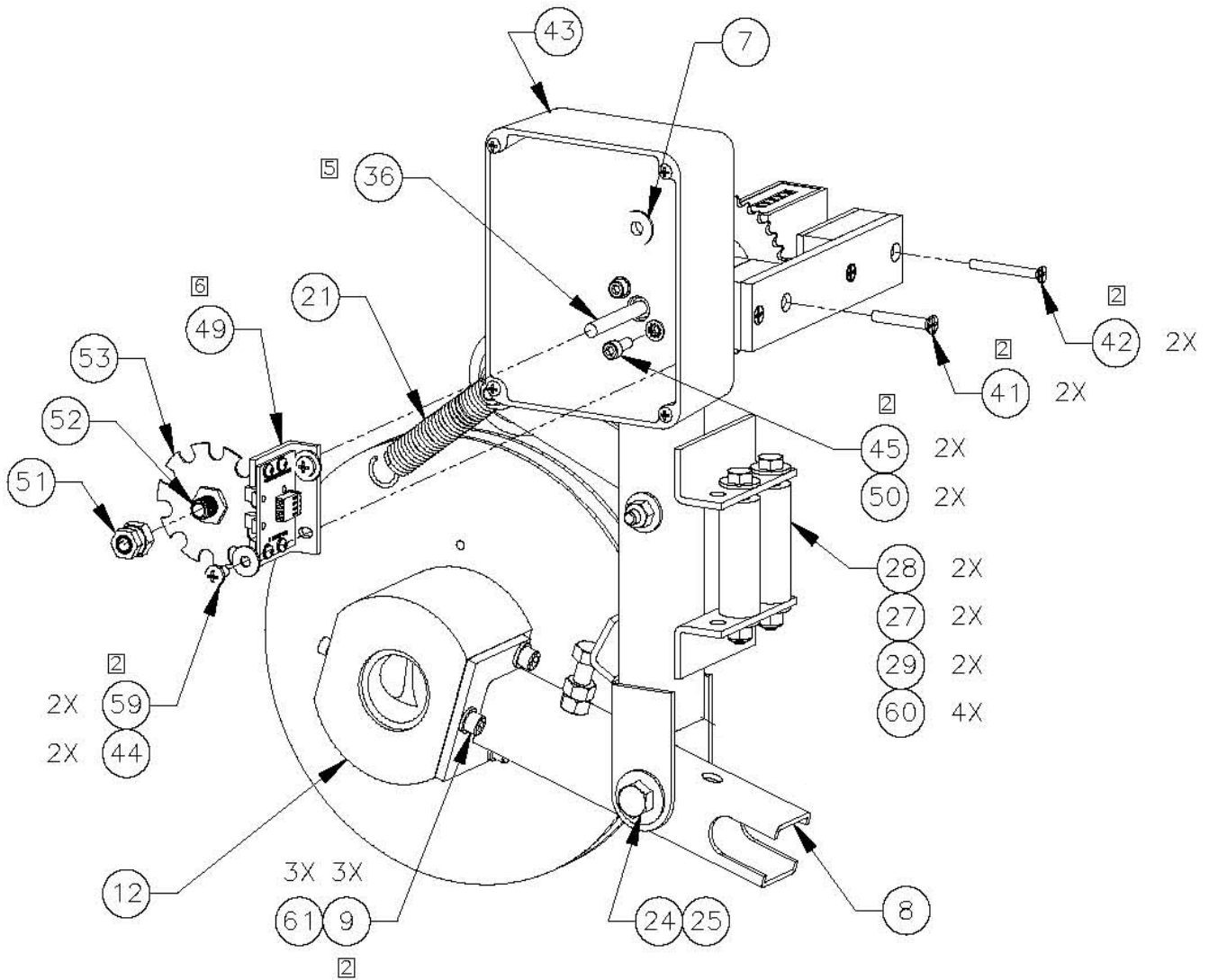
| ITEM # | PART #           | DESCRIPTION                                         |
|--------|------------------|-----------------------------------------------------|
|        | <b>867-13662</b> | <b>ASSY, COUNTER, FTG, LEVEL WIND, METRIC, MLCR</b> |
| 1      | 410-12600        | RING, SNAP, EXT, 1.968                              |
| 2      | 301-12707        | MSCR, FLT, PHH, 8-32X.37 SS                         |
| 3      | 805-14314        | ASSY, SPRKT WITH SPACER, METRIC                     |
| 4      | 441-11074        | MOUNT, SPRKT, DRIVE USED IN METRIC                  |
| 5      | 404-13635        | BEARING, BALL, 3.149OD, 1.968BORE, .63W, SEALED     |
| 6      | 443-13753-21     | WHEEL, COUNTER, FOOTAGE, HARD CLEAR ANODIZED        |
| 57     | 301-13742        | MSCR, FLT, PHH, 10-32X.25, UNDERCUT SS              |

# MAINLINE REEL FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                   |
|---------------|---------------|--------------------------------------|
| 10            | 308-12827     | NUT,HEX,5/16-18 ZINC                 |
| 11            | 300-15195     | MSCR,HEXHD,5/16-18X1,GRD5 ZINC       |
| 13            | 407-15913     | PAWL,LEVEL WIND FOLLOWER             |
| 14            | 446-14273     | SPRING,COMPRESS,1"L,44.6LBS,STL/ZINC |
| 15            | 453-13247     | PLATE,COVER,FOLLOWER PAWL            |
| 16            | 309-12537     | NUT,HEX,10-32 SS                     |
| 17            | 301-12186     | MSCR,SHCS,10-32X.62 SS               |

# MAINLINE REEL FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC



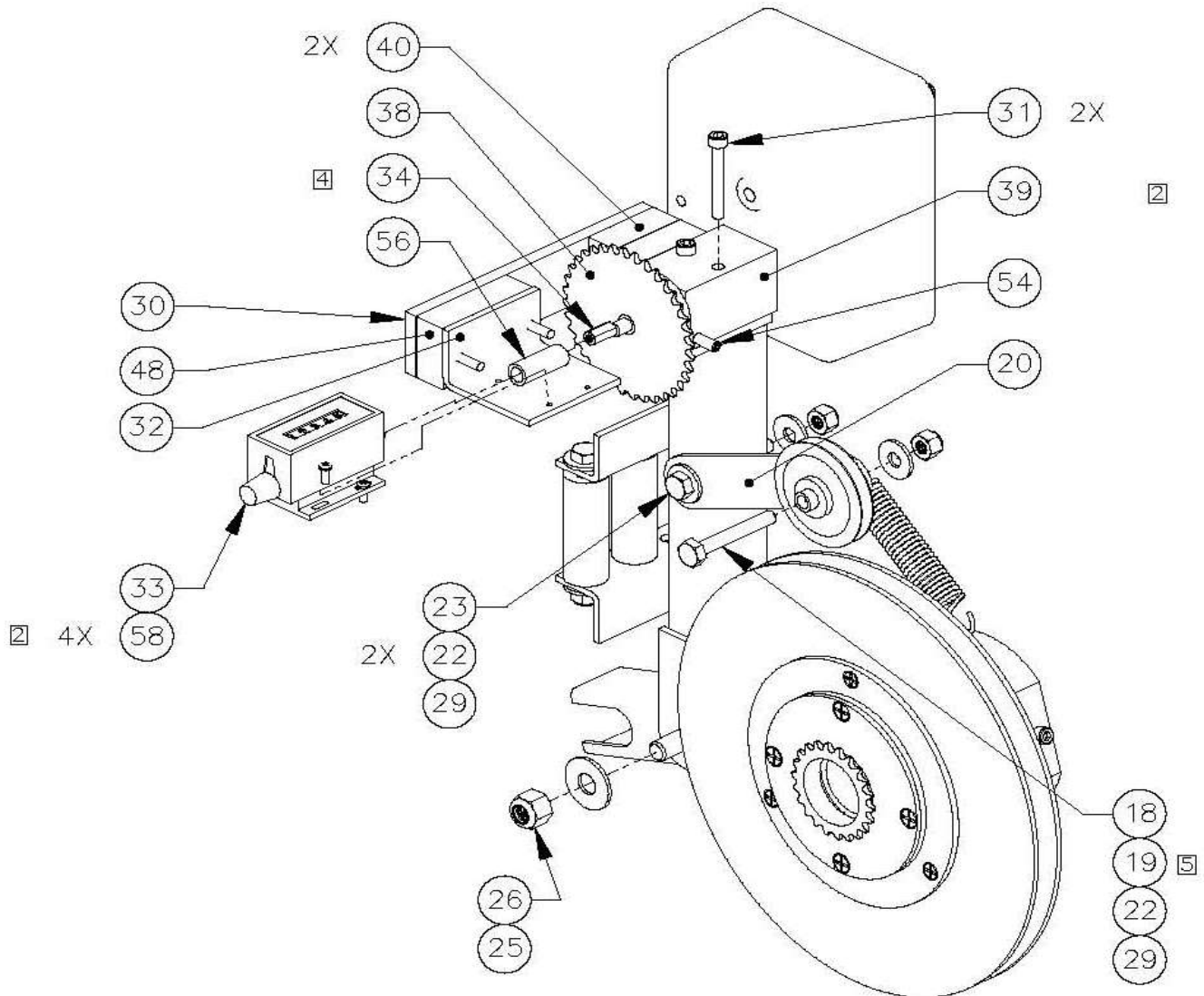
PART NUMBERS ON FOLLOWING PAGE

# MAINLINE REEL

## FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC

| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                           |
|---------------|---------------|----------------------------------------------|
| 7             | 449-15089     | GROMMET,RUBBER,1/4ID 7/16 HOLE               |
| 8             | 445-13183     | PINCH ROLLER <b>ARM</b>                      |
| 9             | 301-10651     | MSCR,SHCS,1/4-20X.50 SS                      |
| 12            | 864-16909     | FOLLOWER BLOCK ASSY                          |
| 21            | 446-14157     | SPRING,WHEEL TENSION                         |
| 24            | 300-10120     | MSCR,HEXHD,3/8-16X2.25,GRD5 ZINC             |
| 25            | 315-11717     | WASHER,FLT,.37 ZINC                          |
| 27            | 300-15253     | MSCR,HEXHD,1/4-20X3,GRD 5 ZINC               |
| 28            | 800-21109     | ROLLER GUIDE ASSY                            |
| 29            | 308-14265     | NUT,HEX,1/4-20,NYLOCK ZINC                   |
| 36            | 407-12367     | SHAFT,FOOTAGE COUNTER,MLCR                   |
| 41            | 301-10180     | MSCR,FLT,PHH,10-32X1.50 SS                   |
| 42            | 301-13171     | MSCR,FLT,PHH,8-32X1.50 SS                    |
| 43            | 452-11199     | BOX,COUNTER HOUSING,W/ LID,MLCR              |
| 44            | 316-11835     | WASHER,FLT,#10 SS                            |
| 45            | 301-11241     | MSCR,SHCS,10-32X.50 SS                       |
| 49            | 806-18586     | ASSY,HARNESS,FOOTAGE ENCODER,W/CABLE, W/BRKT |
| 50            | 318-14788     | WASHER,LKG,#10,INT TOOTH SS                  |
| 51            | 505-10486     | SHAFT LOCK,1/4"                              |
| 52            | 505-19289     | BUSHING,MTG,POT SHAFT-DIAL FOR FOOTAGE WHEEL |
| 53            | 443-13810     | SENSOR WHEEL                                 |
| 59            | 301-14087     | MSCR,PAN,PHH,10-32X.31 SS                    |
| 60            | 316-11245     | WASHER,FLT,.25,SAE SS                        |
| 61            | 318-15671     | WASHER,LKG,.25,HELICAL SS                    |

# MAINLINE REEL FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC



PART NUMBERS ON FOLLOWING PAGE

# MAINLINE REEL

## FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                    |
|----------------------|----------------------|----------------------------------------------|
| <b>18</b>            | 300-11419            | MSCR,HEXHD,1/4-20X1.75 ZINC                  |
| <b>19</b>            | 805-21529            | PINCH ROLLER <b>ASSY</b>                     |
| <b>20</b>            | 445-13298-31         | PINCH ROLLER <b>ARM</b>                      |
| <b>22</b>            | 315-11304            | WASHER,FLT,.25,SAE ZINC                      |
| <b>23</b>            | 300-15194            | MSCR,HEXHD,1/4-20X2 ZINC                     |
| <b>25</b>            | 315-11717            | WASHER,FLT,.37 ZINC                          |
| <b>26</b>            | 308-13975            | NUT,HEX,3/8-16,NYLOCK ZINC                   |
| <b>29</b>            | 308-14265            | NUT,HEX,1/4-20,NYLOCK ZINC                   |
| <b>30</b>            | 451-12722            | BAR,MTG,COUNTER,MLCR                         |
| <b>31</b>            | 301-11300            | MSCR,SHCS,10-32X1.50 SS                      |
| <b>32</b>            | 451-12664            | ANGLE,COUNTER MOUNTING,MLCR                  |
| <b>33</b>            | 867-13456            | COUNTER,MECHANICAL,5 DIGIT,10CTS SMALL SHAFT |
| <b>34</b>            | 408-12425            | ADPTR,SHAFT                                  |
| <b>38</b>            | 441-11192            | ASSY,SPRKT,DRV,METRIC                        |
| <b>39</b>            | 864-16911            | ASSY,BEARING BLOCK,COUNTER DRIVE             |
| <b>40</b>            | 451-12780            | BLOCK,COUNTER MOUNTING,COUNTER               |
| <b>48</b>            | 403-11896            | SPACER,MTG,METRIC FOOTAGE COUNTER            |
| <b>54</b>            | 304-11066            | SSCR,CUP PT,HXS,10-32X.50 SS                 |
| <b>56</b>            | 606-11516            | HOSE,RUBBER,VACUUM,5/32"                     |
| <b>58</b>            | 301-11181            | MSCR,PAN,PHH,4-40X.31 SS                     |

# PROTRAK TRANSPORTER

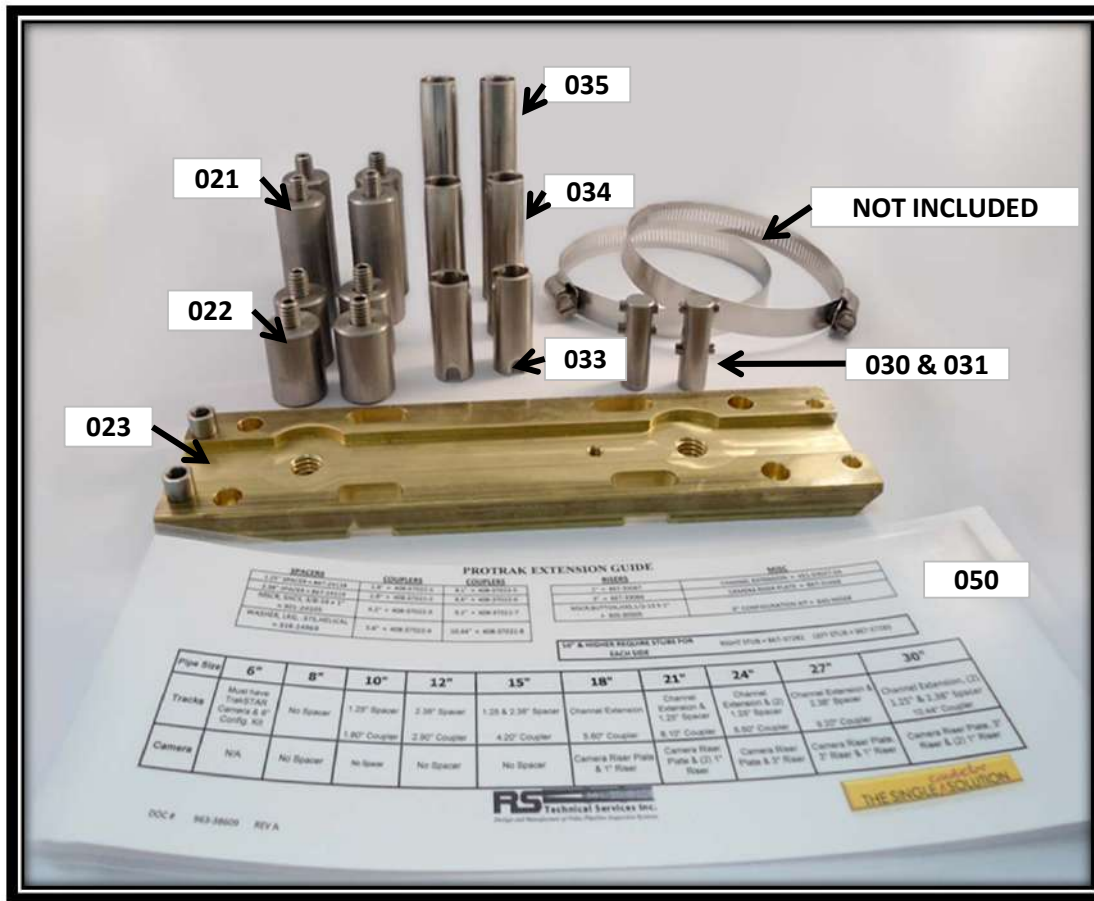


SHOWN WITH TRAKSTAR CAMERA

## PROTRAK TRANSPORTER PARTS

| ITEM # | PART #       | DESCRIPTION                                   |
|--------|--------------|-----------------------------------------------|
| 1      | 450-36321    | SKID, TOP MOTOR                               |
| 2      | 450-36322    | SKID, SIDE MOTOR                              |
| 3      | 867-36597    | BRIDLE                                        |
| 4      | 301-19935    | MSCR,SHCS,6-32 X 0.375, SS                    |
| 5      | 451-36320    | BASE PLATE, 8"-15" PTC                        |
|        | 451-36329    | BASE PLATE, 6" PTC                            |
|        | 403-34619    | SPACERS, CAMERA MOUNTING TREAD DRIVE HARDWARE |
|        | 806-34469-24 | CAMERA CABLE, 6 PIN TO 4 PIN EUROFAST         |
|        | 806-38138-24 | CABLE,4SKT FEM(EURO)-4PIN MALE(EURO) 24"      |
|        | 840-37276    | EXTENSION KIT, 18" - 30"                      |
|        | 866-36641    | COMPLETE TREAD DRIVE, EACH                    |
|        | 867-24026    | CHAIN & PAD ASSEMBLY                          |
|        | 474-39392    | SPACER, SHIM, RIGHT SIDE 6" ASSY              |
|        | 449-36317    | BRIDLE CLAMP                                  |
|        | 867-33066    | ASSY,RISER,CAMERA,3"L,CRAWLER,8 INCH          |
|        | 867-33067    | ASSY,RISER,CAMERA,1"L,8"CRAWLER/PTC           |
|        | 305-30505    | MSCR,BUTTON,HXS,1/2-13 X 1" 18-8 SS           |

# PROTRAK TRANSPORTER ACCESSORIES KIT

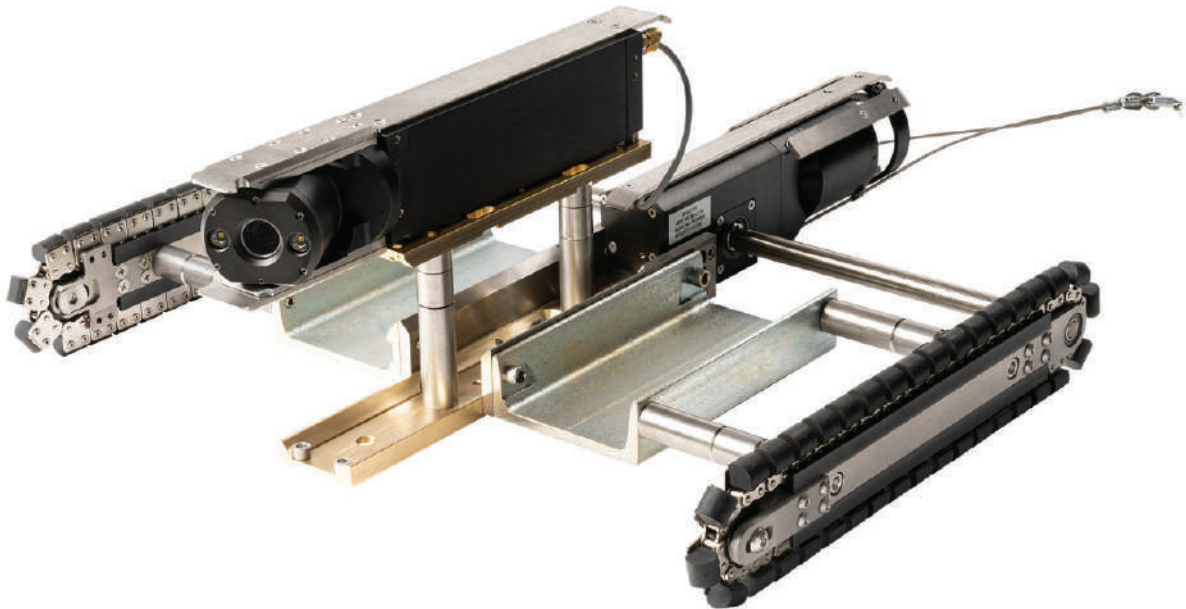


| ITEM #                                              | PART #      | DESCRIPTION                                   | QTY<br>COMP<br>KIT |
|-----------------------------------------------------|-------------|-----------------------------------------------|--------------------|
| <b>840-37258 KIT, ACCESSORIES, PROTRAK V2, 8-15</b> |             |                                               |                    |
| 021                                                 | 867-24119   | ASSY,SPACER,2.38"L,EXTENSION,8"CRAWLER/PTC    | 4                  |
| 022                                                 | 867-24118   | ASSY,SPACER,1.25"L,EXTENSION,8"CRAWLER/PTC    | 4                  |
| 023                                                 | 867-31668   | ASSY,PLATE,MTG,OE3 CAMERA,CRAWLER,8-15",SHORT | 1                  |
| 030                                                 | 867-37282   | ASSY,SHAFT,STUB,AXLE,DRIVE,RIGHT,PTC V2       | 1                  |
| 031                                                 | 867-37283   | ASSY,SHAFT,STUB,AXLE,DRIVE,LEFT,PTC V2        | 1                  |
| 033                                                 | 408-37022-1 | COUPLER,DRIVE,TRACK,PROTRAK V2,10" PIPE       | 2                  |
| 034                                                 | 408-37022-2 | COUPLER,DRIVE,TRACK,PROTRAK V2,12" PIPE       | 2                  |
| 035                                                 | 408-37022-3 | COUPLER,DRIVE,TRACK,PROTRAK V2,15" PIPE       | 2                  |
| 050                                                 | 963-38609   | INFORMATION SHEET,EXTENSION,PROTRAK           | 1                  |
|                                                     | 301-10769   | MSCR,SHCS,1/4-20X1 SS                         | 4                  |
|                                                     | 305-30505   | MSCR,BUTTON,HXS,1/2-13 X 1" 18-8 SS           | 2                  |
|                                                     | 301-11183   | MSCR,FLT,HXS,1/4-20X.75 SS                    | 4                  |
|                                                     | 634-10642   | WRENCH,ALLEN,3/16,LONG ARM                    | 1                  |
|                                                     | 634-11114   | WRENCH,ALLEN,5/32,LONG ARM                    | 1                  |
|                                                     | 634-17242   | WRENCH,ALLEN,5/16",LONG ARM                   | 1                  |

## ProTrak 18-30" Extension Kit

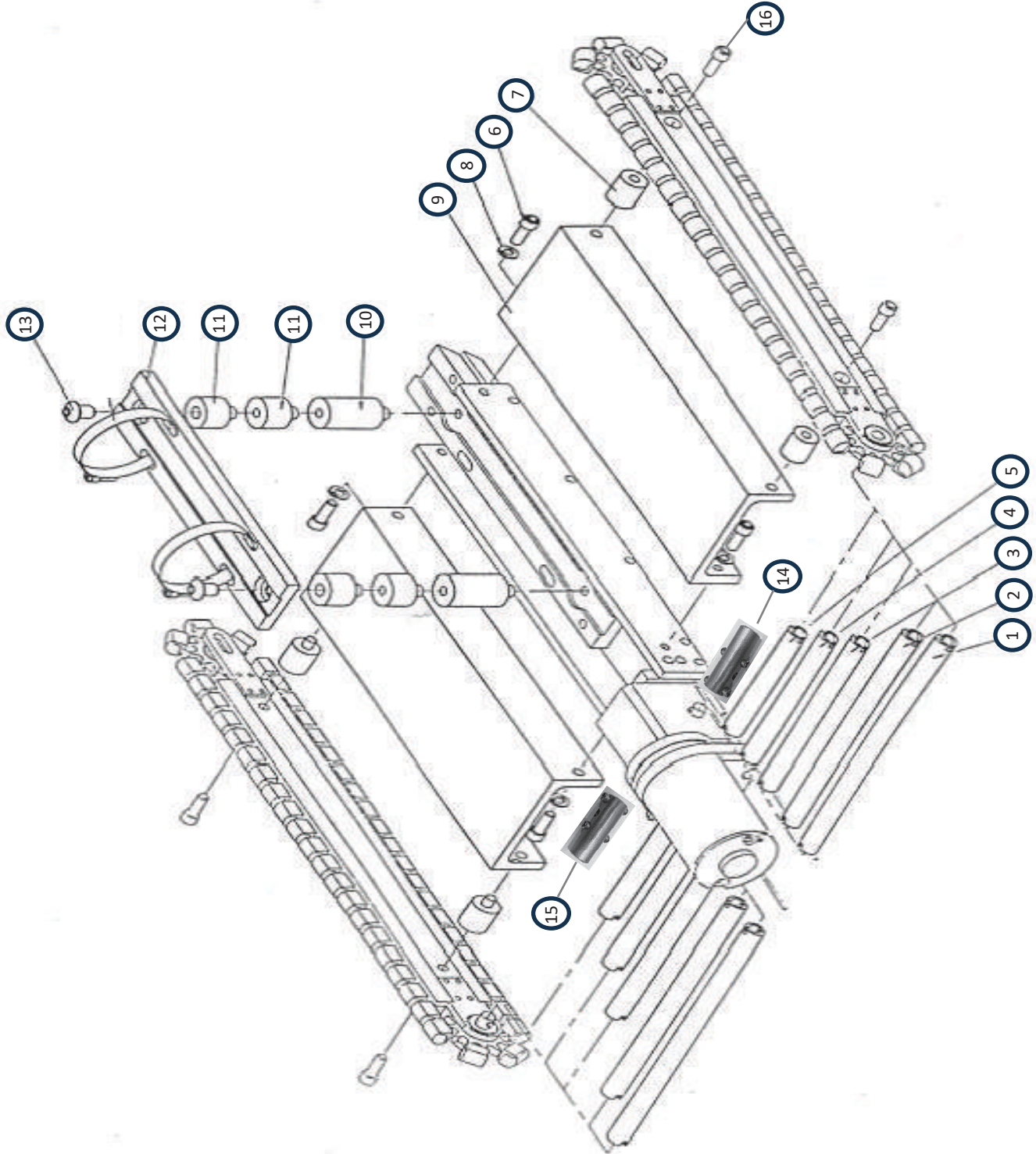
| ITEM | PART         | DESCRIPTION                              | QTY |
|------|--------------|------------------------------------------|-----|
| 1    | 408-37022-8  | COUPLER,DRIVE,TRACK,PROTRAK V2,30" PIPE  | 2   |
| 2    | 408-37022-7  | COUPLER,DRIVE,TRACK,PROTRAK V2,27" PIPE  | 2   |
| 3    | 408-37022-6  | COUPLER,DRIVE,TRACK,PROTRAK V2,24" PIPE  | 2   |
| 4    | 408-37022-5  | COUPLER,DRIVE,TRACK,PROTRAK V2,21" PIPE  | 2   |
| 5    | 408-37022-4  | COUPLER,DRIVE,TRACK,PROTRAK V2,18" PIPE  | 2   |
| 6    | 301-15193    | MSCR,SHCS,3/8-16 X 0.75 SS               | 4   |
| 7    | 867-24118    | ASSY,SPACER,1.25"L,EXTENSION,8"CRAWLER/P | 4   |
| 8    | 318-14963    | WASHER,LKG,.375,HELICAL ZINC             | 8   |
| 9    | 451-33027-24 | CHANNEL,EXT,PTC/8" CRAWLER,18-30",ZN PLT | 2   |
| 10   | 867-33066    | ASSY,RISER,CAMERA,3"L,CRAWLER,8 INCH     | 2   |
| 11   | 867-33067    | ASSY,RISER,CAMERA,1"L,8"CRAWLER/PTC      | 4   |
| 12   | 867-31668    | ASSY,PLATE,MTG CAMERA                    | 1   |
| 13   | 305-42219    | MSCR,BTNHD,HXS,1/2-13 X 5/8,18-8 SS      | 2   |
| 14   | 867-37282    | ASSY,SHAFT,STUB,AXLE,DRIVE,RIGHT         | 1   |
| 15   | 867-37283    | ASSY,SHAFT,STUB,AXLE,DRIVE,LEFT          | 1   |
| 16   | 301-24105    | MSCR,SHCS,3/8-16 X 1 SS                  | 4   |

## 840-37276 18-30" Extension Kit



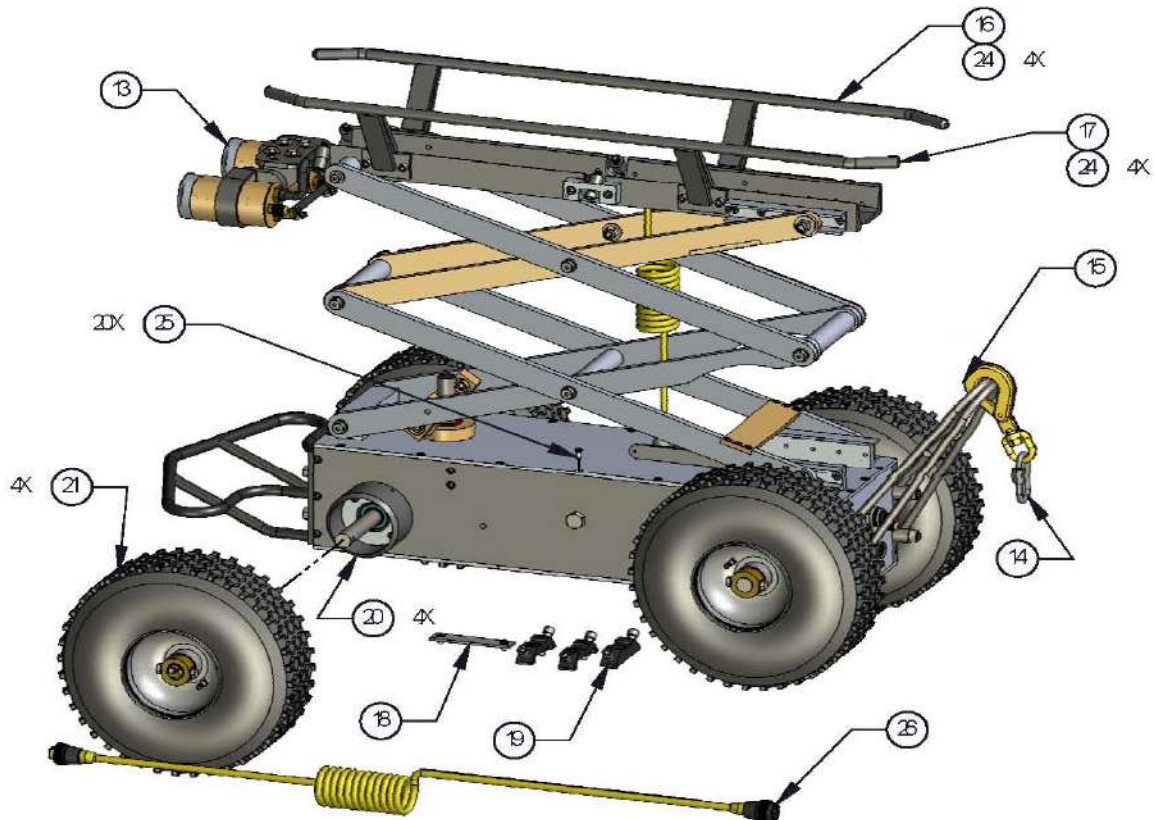
**EXPLODED VIEW DRAWING ON FOLLOWING PAGE**

# ProTrak 18-30" Set Up



PROTRAK 18"-30" EXTENSION ILLUSTRATION  
840-37276

# STORM DRAIN TRACTOR

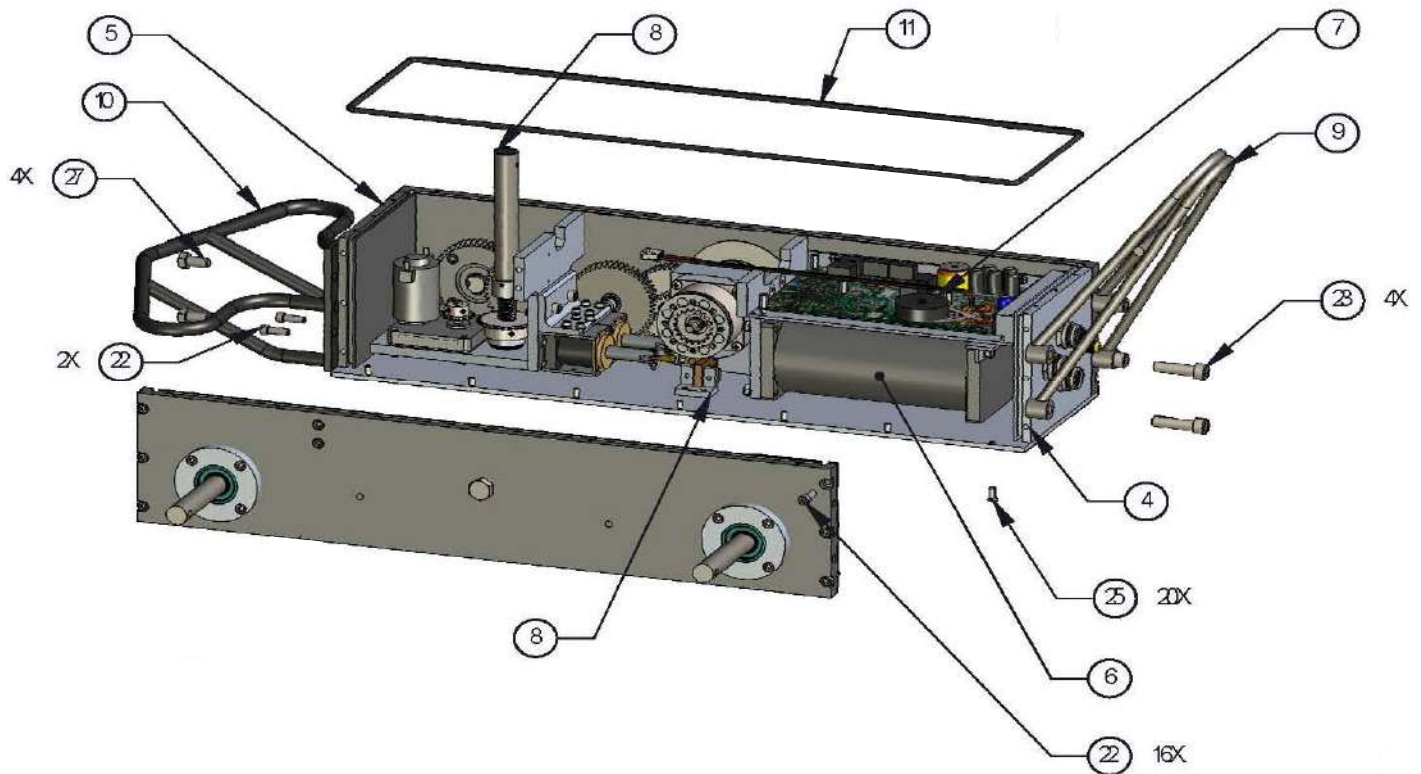


## NOTES:

1. ITEMS 18 & 19 ARE INSTALLATION KITS TO MOUNT THE CAMERA TO ITEM 12

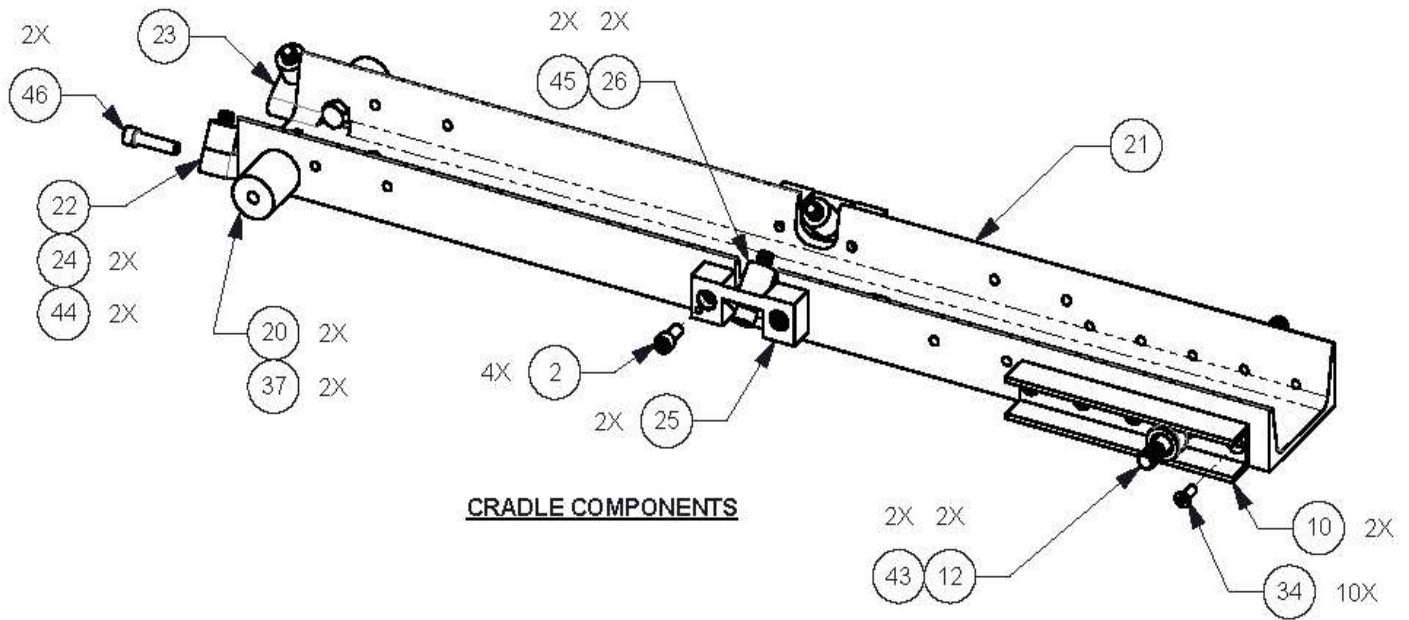
| ITEM # | PART #       | DESCRIPTION                                                             |
|--------|--------------|-------------------------------------------------------------------------|
| 13     | 867-39692    | LED LIGHT EA                                                            |
| 14     | 444-11901    | QUICK LINK,1/4 IN                                                       |
| 15     | 444-12255    | HOOK,SNAP SWIVEL                                                        |
| 16     | 807-17894-21 | SKID, UPPER <u>RIGHT</u>                                                |
| 17     | 807-17895-21 | SKID,UPPER <u>LEFT</u>                                                  |
| 18     | 840-17645    | KIT,HARDWARE,MTG,OE3 CAMERA TO SSDT                                     |
| 19     | 840-20622    | KIT,ADAPTER, TRAKSTAR CAMERA to 6"-16" AND 5" SKID SETS                 |
| 19     | 840-39524    | KIT, ADAPTER TRAKSTAR II CAMERA                                         |
| 20     | 452-33069    | GUARD,AXLE SEAL,SSDT                                                    |
| 21     | 867-17906    | <u>WHEEL ASSEMBLY</u> ,11" X 4", SDT WITH ADAPTER                       |
|        | 443-17905    | <u>TIRE</u> , PNEUMATIC, 11"OD X 5"W ON WHEEL                           |
| 21     | 860-34060    | HI-TRACTION TIRES <u>13"x 5"x 6"</u> , R-1 DESIGN, EA                   |
|        |              | <b>NOTE: REQUIRES SPACER KIT BELOW, TO BE INSTALLED ON FRONT BUMPER</b> |
|        | 840-35702    | <u>ASSEMBLY KIT, BUMPER SPACER FOR HI-TRACTION TIRES ABOVE</u>          |
| 24     | 301-10651    | MSCR,SHCS,1/4-20X.50 SS                                                 |
| 25     | 301-13230    | MSCR,FLT,PHH,10-32X.50,UNDERCUT SS                                      |
| 26     | 806-31535    | CBL, CAMERA POWER ,COILED, 6PIN(WS) - 6PIN(RK)                          |
| 26     | 806-36831    | CBL, CAMERA POWER (4 PIN EURO TO 6 PIN MALE) 10 IN                      |
|        | 806-39319    | CBL, CAMERA POWER (4 PIN EURO TO 6 PIN MALE) 12.5 IN                    |
|        | 806-39653    | CBL, LED LIGHTS, Y CABLE                                                |

# STORM DRAIN TRACTOR



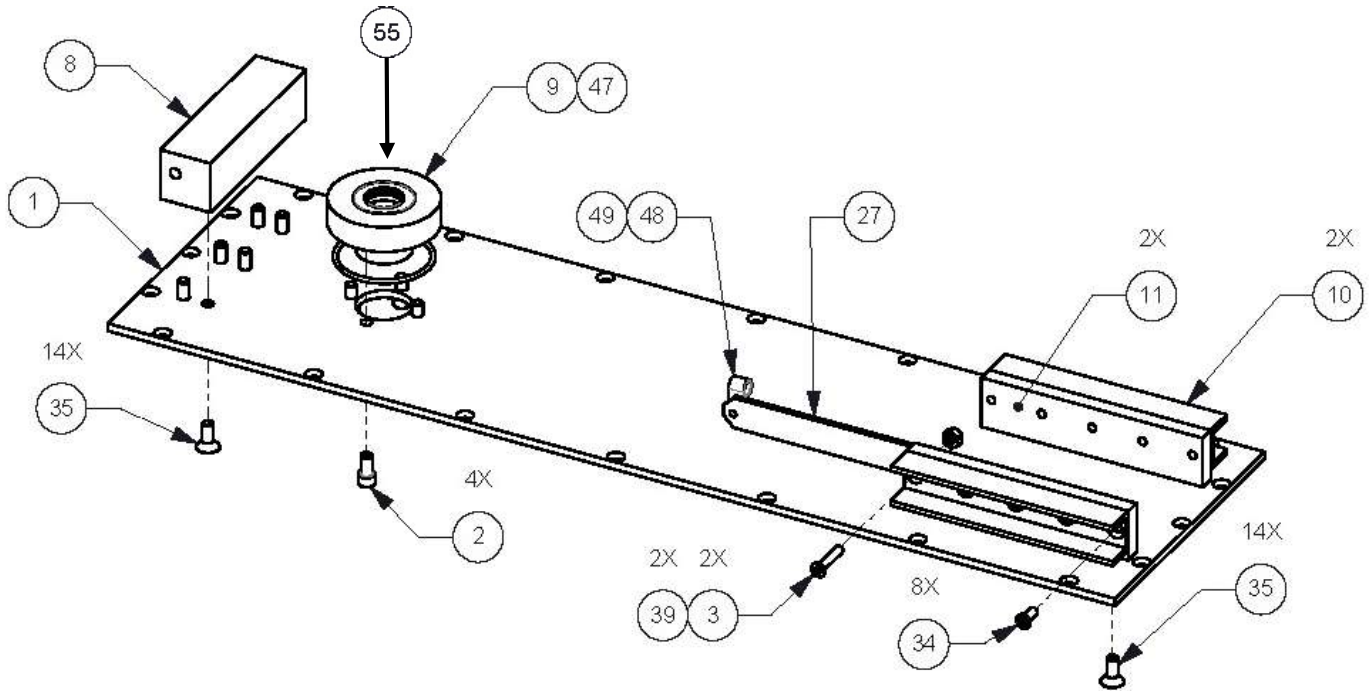
| ITEM # | PART #       | DESCRIPTION                                    |
|--------|--------------|------------------------------------------------|
| 4      | 801-31534    | REAR PLATE ASSY ( <b>BREAKDOWN ON PG 107</b> ) |
| 5      | 453-19435-21 | FRONT PLATE ASSY, W/O LIGHTS                   |
| 6      | 805-12875    | CLUTCH/MOTOR ASSY                              |
| 7      | 861-39632    | PCB ASSY,CONTROLLER                            |
| 8      | 805-33946    | ELEVATOR MOTOR/GEARBOX ASSY, BRAKE SOLENOIDS   |
| 9      | 867-40516    | LIFTING BRKT ASSY                              |
| 10     | 803-40184-31 | FRONT BUMPER ASSY                              |
| 11     | 439-13523    | O-RING MATERIAL,BUNA,.187DIA (140" TOTAL)      |
| 22     | 301-10887    | MSCR,SHCS,1/4-20X.75 SS                        |
| 23     | 301-14436    | MSCR,SHCS,3/8-16 X 1.50 SS                     |
| 25     | 301-13230    | MSCR,FLT,PHH,10-32X.50,UNDERCUT SS             |
| 27     | 301-11773    | MSCR,HEXHD,3/8-16X.75 SS                       |

# STORM DRAIN TRACTOR ELEVATOR



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                          |
|---------------|---------------|---------------------------------------------|
| 2             | 301-10651     | MSCR,SHCS,1/4-20X.50 SS                     |
| 10            | 451-15563-21  | TRACK,FOLLOWER BEARING                      |
| 12            | 443-13941     | TRACK ROLLER,3/4"OD ROLLER,3/8-24X7/8" STUD |
| 20            | 403-11719-21  | CRADLE SPACER                               |
| 21            | 451-15423-21  | CAMERA CRADLE                               |
| 22            | 451-13070-21  | MOUNT,CAMERA, FRONT <b>RIGHT</b>            |
| 23            | 451-10549-21  | MOUNT,CAMERA,FRONT <b>LEFT</b>              |
| 24            | 403-11778     | SPACER,CAMERA MOUNT,5/8" FRONT              |
| 25            | 451-10608-21  | BLOCK,CAMERA MOUNT,REAR                     |
| 26            | 403-11837     | SPACER,CAMERA MOUNT,REAR                    |
| 34            | 301-14610     | MSCR,FLT,PHH,10-32X.50 SS                   |
| 37            | 301-15548     | MSCR,HEXHD,5/16-18X.75 SS                   |
| 43            | 317-10065     | WASHER,FLT,.503X.756X.062 NYLON             |
| 44            | 305-21757     | BOLT,MTG,CAMERA,FRONT                       |
| 45            | 305-21758     | BOLT,MTG,CAMERA,REAR                        |
| 46            | 301-10769     | MSCR,SHCS,1/4-20X1 SS                       |

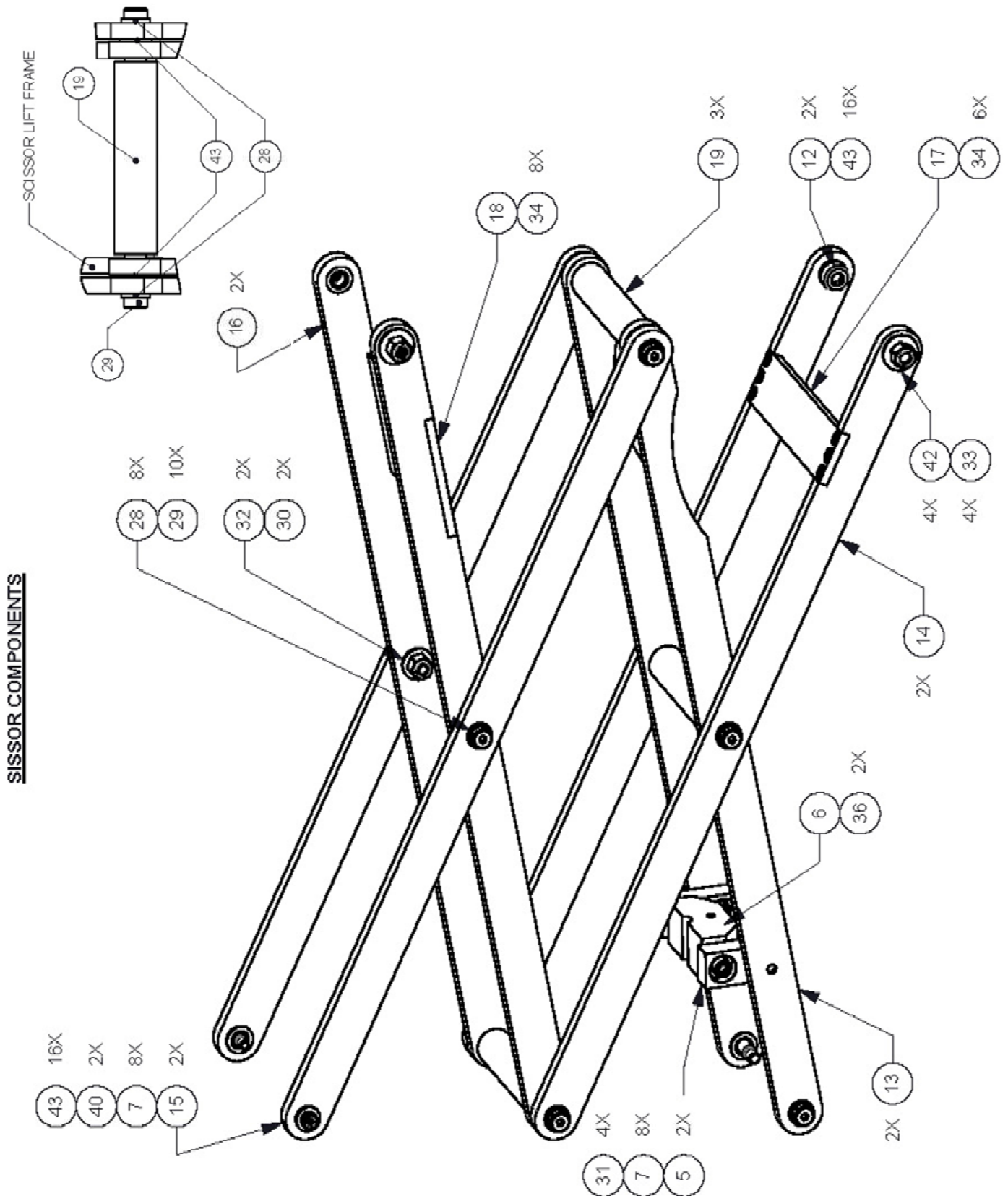
# STORM DRAIN TRACTOR ELEVATOR



**TOP PLATE COMPONENTS**

| ITEM # | PART #       | DESCRIPTION                     |
|--------|--------------|---------------------------------|
| 1      | 453-14743-21 | TOP PLATE                       |
| 2      | 301-10651    | MSCR,SHCS,1/4-20X.50 SS         |
| 3      | 301-13571    | MSCR,FLT,PHH,10-32X1 SS         |
| 8      | 451-15681-21 | BLOCK,PIVOT, <b>FRONT</b>       |
| 9      | 867-21959    | ASSY, <b>HSG</b> ,SUPPORT,SHAFT |
| 10     | 451-15563-21 | TRACK,FOLLOWER BEARING          |
| 11     | 451-15622-21 | BLOCK,FOLLOWER TRACK MOUNT      |
| 27     | 449-13011-21 | TANG,EXTENSION CABLE MTG        |
| 34     | 301-14610    | MSCR,FLT,PHH,10-32X.50 SS       |
| 35     | 301-11064    | MSCR,FLT,HXS,1/4-20X.62 SS      |
| 39     | 309-13575    | NUT,HEX,10-32,NYLOCK SS         |
| 47     | 439-15085    | O-RING,BUNA,137                 |
| 48     | 449-12547    | CLAMP,CBL,5/16",PLASTIC         |
| 49     | 301-12533    | MSCR,PAN,PHH,8-32X.25 SS        |
| 55     | 439-17907    | SEAL,OIL,1316 SHAFT             |

# STORM DRAIN TRACTOR SCISSOR COMPONENTS

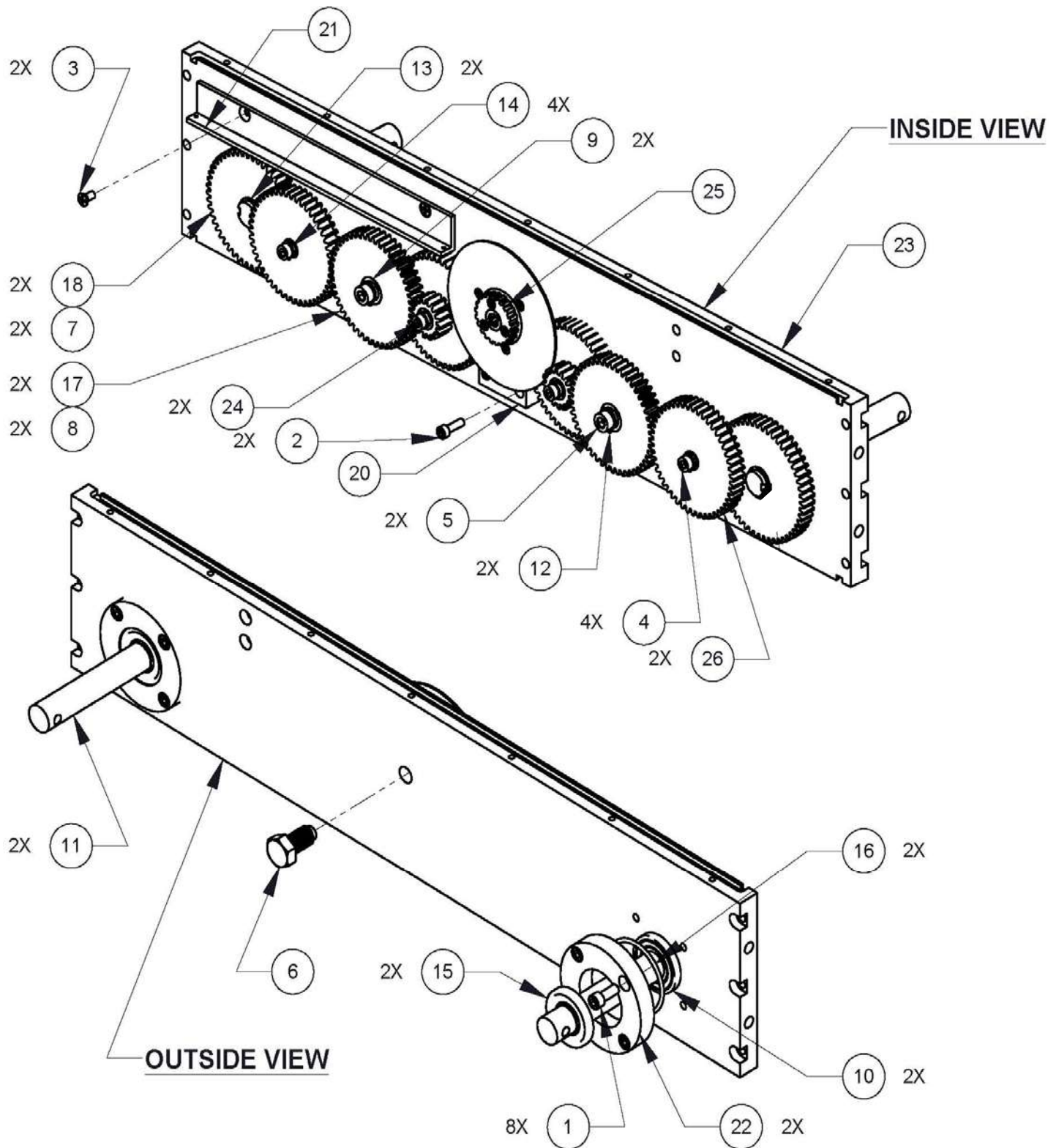


PART NUMBERS ON FOLLOWING PAGE

# STORM DRAIN TRACTOR SCISSOR COMPONENTS CONTINUED

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                                    |
|----------------------|----------------------|--------------------------------------------------------------|
| <b>5</b>             | 444-11547-21         | LINK,ELEVATOR CLEVIS PIVOT                                   |
| <b>6</b>             | 451-15386-21         | BLOCK,CLEVIS,ELEVATOR                                        |
| <b>7</b>             | 405-10304            | BUSHING,FLANGE,.377IDX.502ODX.50L,(.68OD X 3/32 FLG ),BRONZE |
| <b>12</b>            | 443-13941            | TRACK ROLLER,3/4"OD ROLLER,3/8-24X7/8" STUD                  |
| <b>13</b>            | 445-12777-21         | ARM, <b><u>FIRST LIFTING</u></b>                             |
| <b>14</b>            | 445-12835-21         | ARM, <b><u>FIRST FLOATING</u></b>                            |
| <b>15</b>            | 445-13009-21         | ARM, <b><u>SECOND LIFTING</u></b>                            |
| <b>16</b>            | 445-12719-21         | ARM, <b><u>SECOND FLOATING</u></b>                           |
| <b>17</b>            | 451-15504-21         | CROSS BRACE, <b><u>FIRST FLOATING ARM</u></b>                |
| <b>18</b>            | 451-15445-21         | CROSS BRACE, <b><u>SECOND FLOATING ARM</u></b>               |
| <b>19</b>            | 451-10431-21         | CROSS BRACE, <b><u>ARM PIVOT</u></b>                         |
| <b>28</b>            | 405-12606            | BUSHING,FLANGE,.377ID X .502OD X 1.00L,BRONZE                |
| <b>29</b>            | 305-13719            | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1 SS                         |
| <b>30</b>            | 309-13803            | NUT,HEX,3/8-16,NYLOCK SS                                     |
| <b>31</b>            | 301-11772            | MSCR,SHCS,5/16-18X.75 SS                                     |
| <b>32</b>            | 316-11953            | WASHER,FLT,.312 SS                                           |
| <b>33</b>            | 309-14033            | NUT,HEX,3/8-24,NYLOCK SS                                     |
| <b>34</b>            | 301-14610            | MSCR,FLT,PHH,10-32X.50 SS                                    |
| <b>36</b>            | 304-18176            | SSCR,HALF DOG PT,HXS,1/4-20X.38 SS                           |
| <b>40</b>            | 305-14582            | BOLT,SHLDR,SKT HD,5/16-18,3/8 X 1/2, SS                      |
| <b>42</b>            | 317-20000            | WASHER,FLT,.380" X 1.005" X .062 NYLON                       |
| <b>43</b>            | 317-10065            | WASHER,FLT,.503X.756X.062 NYLON                              |

# STORM DRAIN TRACTOR GEAR TRAIN ASSEMBLY



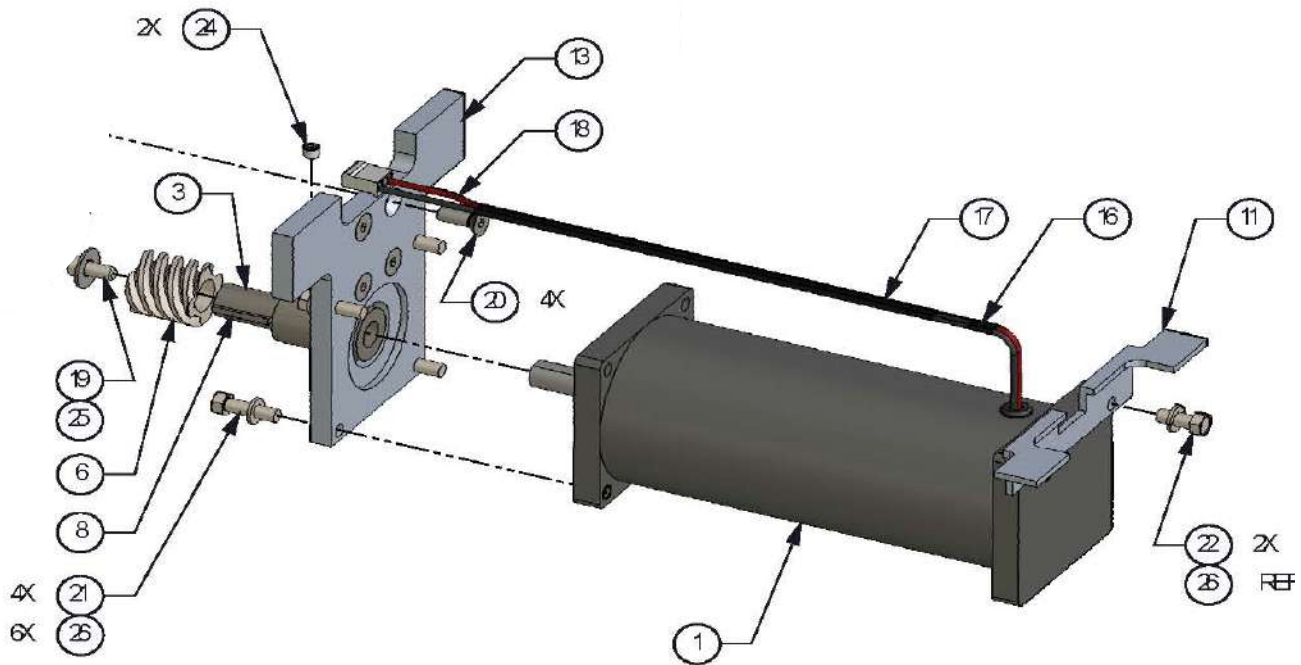
**RIGHT SIDE ILLUSTRATED ABOVE**

**PART NUMBERS ARE ON THE FOLLOWING PAGE**

# STORM DRAIN TRACTOR GEAR TRAIN ASSEMBLY

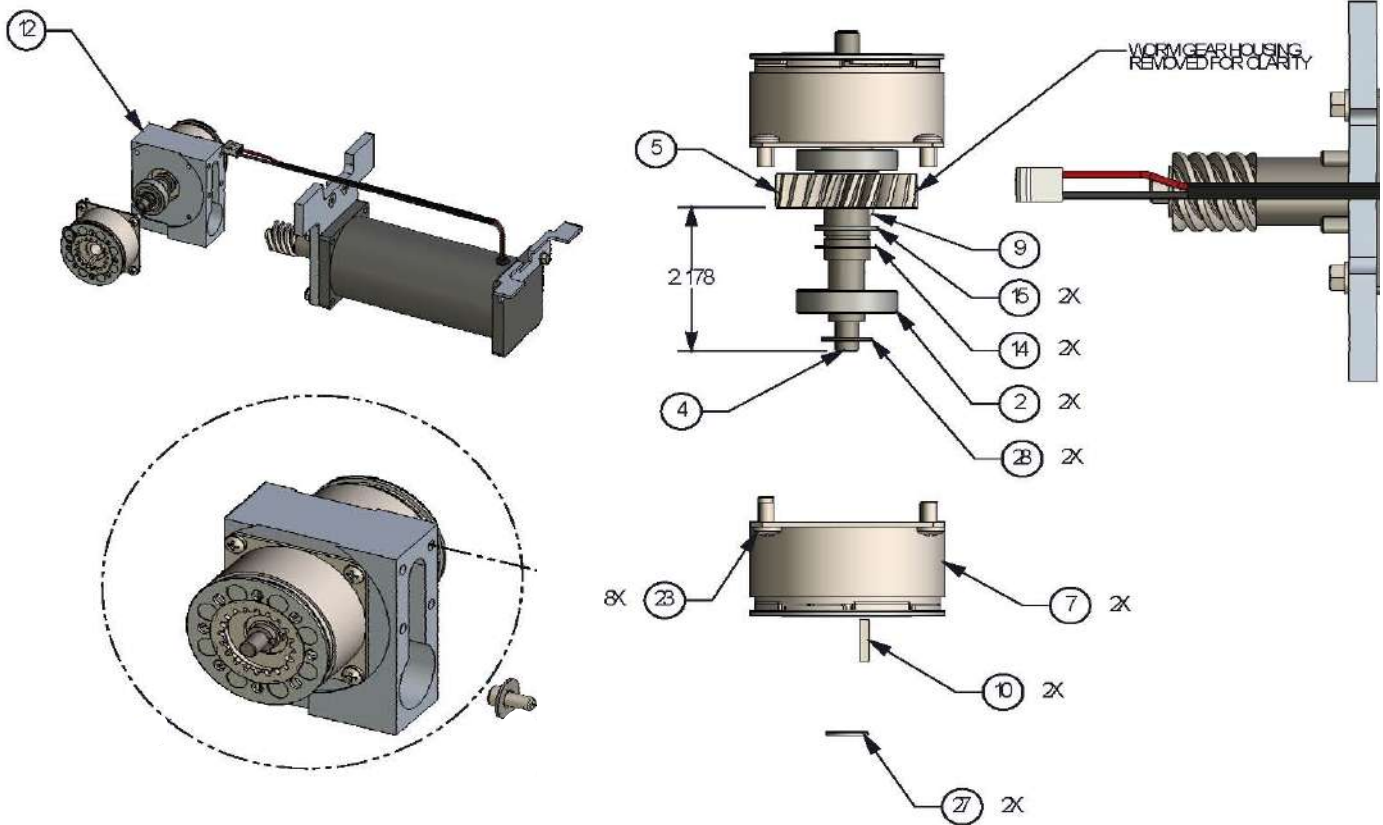
| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                        |
|---------------|---------------|-----------------------------------------------------------|
|               | 805-12701     | ASSY,GEAR TRAIN, <u>LEFT AND RIGHT SIDE</u>               |
| 1             | 301-11005     | MSCR,SHCS,1/4-20X.62 SS                                   |
| 2             | 301-12186     | MSCR,SHCS,10-32X.62 SS                                    |
| 3             | 301-15136     | MSCR,FLT,PHH,10-32X.37 SS                                 |
| 4             | 305-20533     | BOLT,AXLE,TRANSFER GEAR                                   |
| 5             | 305-20534     | BOLT,AXLE,IDLER GEAR                                      |
| 6             | 305-30771     | BOLT,LOCATING,CLUTCH AXLE                                 |
| 7             | 403-10126     | SPACER,AXLE BEARING                                       |
| 8             | 403-10185     | SPACER,IDLER GEAR                                         |
| 9             | 404-14084     | BEARING,NEEDLE,.750OD X .500ID X .44W                     |
| 10            | 404-15112     | BEARING,BALL,DBL,1.5748OD,.6693BORE,W/SNAP RING,SEALED    |
| 11            | 407-12541     | AXLE,WHEEL,SSDT                                           |
| 12            | 410-12890     | RING,SNAP,EXT,.50,S/S                                     |
| 13            | 410-14526     | RING,SNAP,EXT,17MM                                        |
| 14            | 410-16057     | RING,SNAP,EXT,.375                                        |
| 15            | 439-10129     | SEAL, AXLE, ,3/4" SHAFT                                   |
| 16            | 439-15042     | O-RING,BUNA,134                                           |
| 17            | 441-12194-40  | GEAR,IDLER,48 TOOTH                                       |
| 18            | 441-39007-40  | GEAR,16P,51T                                              |
| 20            | 451-15268     | BLOCK,BRAKE PAD BACKING                                   |
| 21            | 451-17817     | <u>LEFT</u> BRKT,CNTRLR MTG PLATE                         |
| 21            | 451-17818     | <u>RIGHT</u> BRKT,CNTRLR MTG PLATE                        |
| 22            | 453-14163-21  | PLATE,MTG,AXLE BEARING                                    |
| 23            | 453-14569-21  | <u>LEFT</u> SIDE PLATE                                    |
| 23            | 453-14976-21  | <u>RIGHT</u> SIDE PLATE                                   |
| 24            | 805-12991     | ASSY,GEAR,TRANSFER,WITH BEARINGS                          |
| 25            | 805-17823     | ASSY,FIRST DRIVER GEAR/ROTOR PLATE                        |
| 26            | 805-38286     | ASSY,GEAR,COMPOUND,13/48 RATIO ( <u>CURRENT VERSION</u> ) |

# STORM DRAIN TRACTOR CLUTCH ASSEMBLY



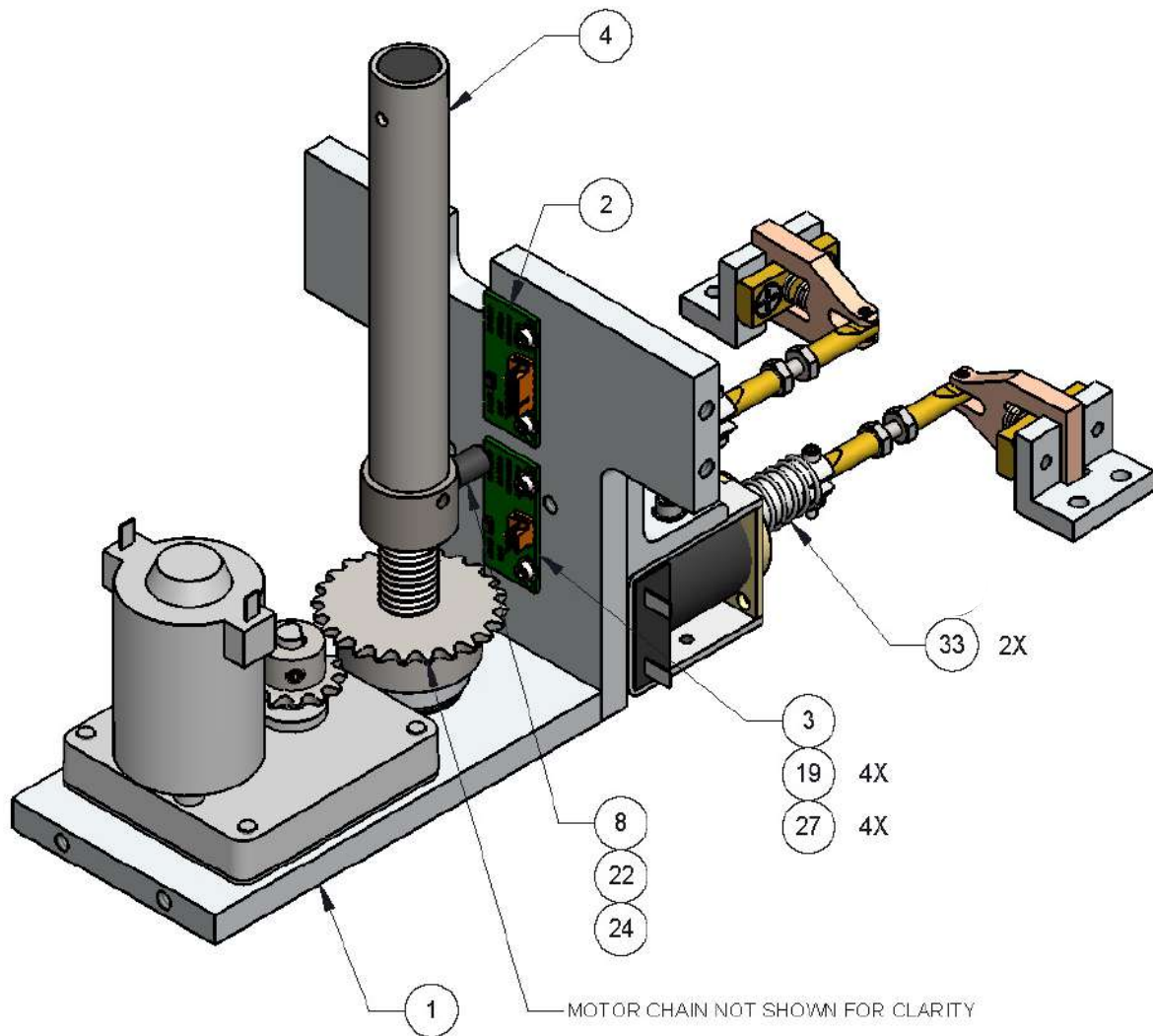
| ITEM # | PART #    | DESCRIPTION                                         |
|--------|-----------|-----------------------------------------------------|
|        | 805-12875 | <b>ASSY,CLUTCH/MOTOR</b>                            |
| 1      | 635-14428 | MOTOR,90VDC,1750RPM,1/6 HP,M1120042                 |
| 3      | 407-14283 | SHAFT,POW WINCH TORQUE ARM                          |
| 6      | 441-20046 | WORM,12PITCH,4LEAD,18DEG 26'HELIX,STEEL,HARDENED    |
| 8      | 448-11725 | KEY,1/8 X 1/8 X 1.0                                 |
| 11     | 451-30777 | BRKT,MOTOR STEADYING,SSDT                           |
| 13     | 453-30774 | PLATE,MTG,MOTOR,FLOATING,SSDT                       |
| 16     | 632-10815 | HEATSHRINK,.125,POLYOLEFIN,BLACK,125DEG,600V,UL/CSA |
| 17     | 632-11051 | HEATSHRINK,.25",POLYOLEFIN,BLACK,125DEG,600V,UL/CSA |
| 18     | 806-12471 | ASSY HARNESS,DRIVE MOTOR PHN                        |
| 19     | 301-10651 | MSCR,SHCS,1/4-20X.50 SS                             |
| 20     | 301-11183 | MSCR,FLT,HXS,1/4-20X.75 SS                          |
| 21     | 301-13743 | MSCR,HEXHD,1/4-20X.87 SS                            |
| 22     | 301-14262 | MSCR,HEXHD,1/4-20X.62 SS                            |
| 24     | 304-10830 | SSCR,CUP PT,HXS,1/4-20X.25 SS                       |
| 25     | 316-11953 | WASHER,FLT,.312 SS                                  |
| 26     | 318-15671 | WASHER,LKG,.25,HELICAL SS                           |

# STORM DRAIN TRACTOR CLUTCH ASSEMBLY



| ITEM # | PART #    | DESCRIPTION                                 |
|--------|-----------|---------------------------------------------|
| 2      | 404-12540 | BEARING,BALL,1.375OD,.625BORE,SEALED        |
| 4      | 407-30773 | AXLE,WORM GEAR,FLOATING                     |
| 5      | 441-20045 | GEAR,WORM,20 TOOTH                          |
| 7      | 443-16849 | ASSY,CLUTCH,FLANGE                          |
| 9      | 448-11666 | KEY,1/8 X 1/8 X .37+0/-.02                  |
| 10     | 448-19494 | KEY,1/8 X 1/8 X .62 18-8SS PHN              |
| 14     | 474-16007 | SHIM,WASHER,.631 +/- .005 X .875 X .015T,SS |
| 15     | 474-16008 | SHIM,WASHER,.630 X .875 X .048T,SS          |
| 23     | 301-13799 | MSCR,PAN,PHH,10-32X.25 SS                   |
| 27     | 410-12890 | SNAP RING, EXT,.50,S/S                      |
| 28     | 410-13006 | SNAP RING, EXT,.625                         |

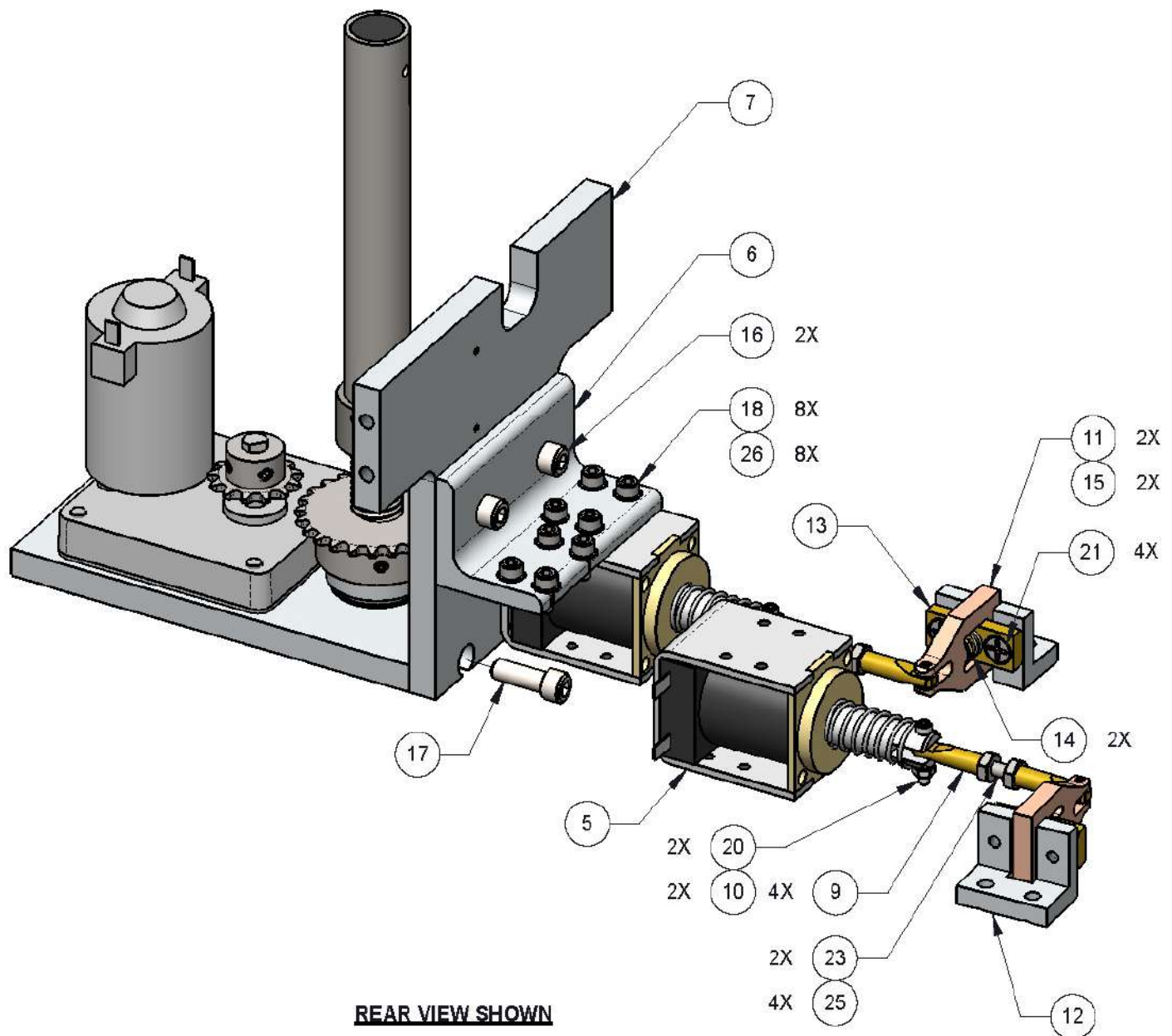
# STORM DRAIN TRACTOR ELEVATOR MOTOR GEARBOX, BRAKE SOLENOIDS



**FRONT VIEW SHOWN**

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                                          |
|----------------------|----------------------|--------------------------------------------------------------------|
|                      | <b>805-33946</b>     | <b>ASSEMBLY</b>                                                    |
| 1                    | 805-33979            | ASSY,MOTOR/GEARBOX/LEADSCREW,SSDT <b><u>(BREAKDOWN PG 106)</u></b> |
| 2                    | 861-17915            | ASSY,PCB,UPPER LIMIT SENSOR,SSDT                                   |
| 3                    | 861-17914            | ASSY,PCB,LOWER LIMIT SENSOR,SSDT                                   |
| 4                    | 867-15496            | ASSY,SLEEVE,LEAD SCREW,OUTER,SSDT                                  |
| 8                    | 540-15917            | MAGNET,.31 DIA #4-40 FEMALE THREAD                                 |
| 19                   | 301-11713            | MSCR,SHCS,4-40X.37 SS                                              |
| 22                   | 304-12420            | SSCR,CUP PT,HXS,4-40X0.37 SS                                       |
| 24                   | 309-12305            | NUT,HEX,4-40 SS                                                    |
| 27                   | 318-14498            | WASHER,LKG,#4,INT TOOTH SS                                         |
| 33                   | 446-39688            | SPRING                                                             |

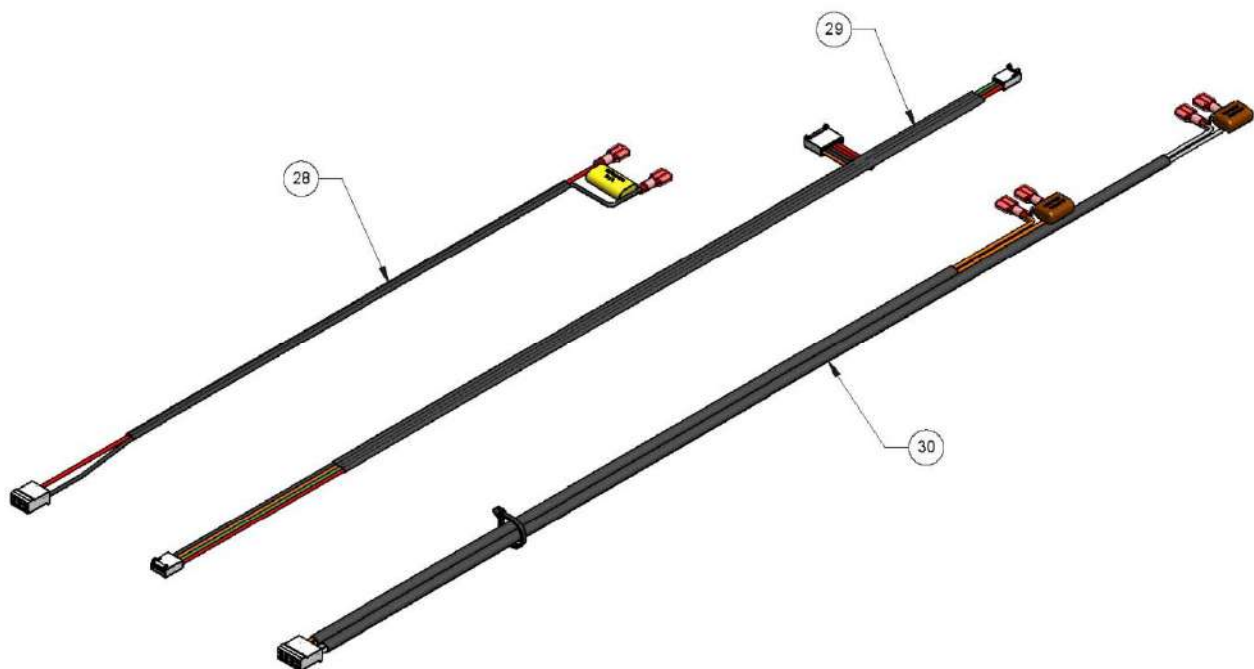
# STORM DRAIN TRACTOR ELEVATOR MOTOR GEARBOX, BRAKE SOLENOIDS



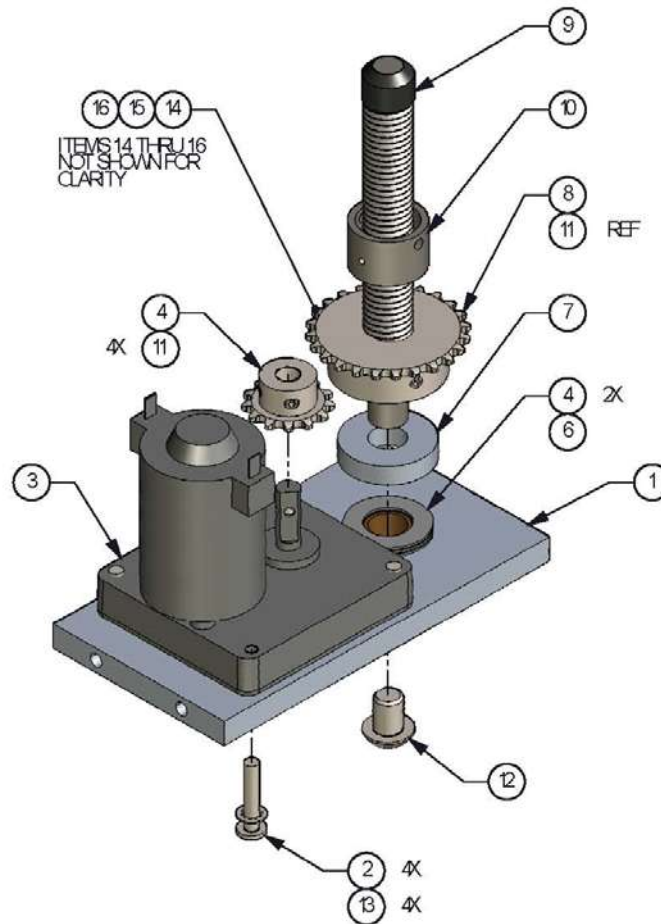
ITEMS LISTED ON FOLLOWING PAGE

# STORM DRAIN TRACTOR ELEVATOR MOTOR GEARBOX, BRAKE SOLENOIDS

| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>                 |
|---------------|---------------|------------------------------------|
| 5             | 543-10799     | SOLENOID,120VDC,14.9OHM            |
| 6             | 451-10076     | BRKT,MTG,SOLENOID,SSDT             |
| 7             | 453-14685     | PLATE,MTG,SOLENOID,SSDT            |
| 9             | 409-11839     | ROD END,BRAKE OPERATING,SSDT       |
| 10            | 309-14207     | NUT,HEX,4-40,NYLOCK SS             |
| 11            | 445-12893     | ARM,BRAKE OPERATING,SSDT           |
| 12            | 451-15327     | MOUNT,BRAKE MECHANISM,SSDT         |
| 13            | 453-15626     | PLATE,MTG,BRAKE OP-ARM,SSDT        |
| 14            | 446-16873     | SPRING,COMPRESS,.54"L,1.1LBS,SS    |
| 15            | 400-12131     | PIN,SPRING,ROLL,1/8" X 3/8"L,SS    |
| 16            | 301-10651     | MSCR,SHCS,1/4-20X.50 SS            |
| 17            | 301-10887     | MSCR,SHCS,1/4-20X.75 SS            |
| 18            | 301-12302     | MSCR,SHCS,8-32 X .375 SS           |
| 20            | 301-11654     | MSCR,FLT,PHH,4-40X.75 SS           |
| 21            | 301-13172     | MSCR,FLT,PHH,10-32X.37,UNDERCUT SS |
| 23            | 304-13631     | SSCR,CUP PT,HXS,8-32X1 SS          |
| 25            | 309-30389     | NUT,HEX,8-32,SMALL PATTERN SS      |
| 26            | 318-14730     | WASHER,LKG,#8,INT TOOTH SS         |
| 28            | 806-12297     | ASSY,CBL,ELEVATOR MOTOR,SSDT       |
| 29            | 806-12355     | ASSY,HARNESS,ELEVATOR SENSOR,SSDT  |
| 30            | 806-12239     | ASSY,HARNESS,BRAKE,SSDT            |

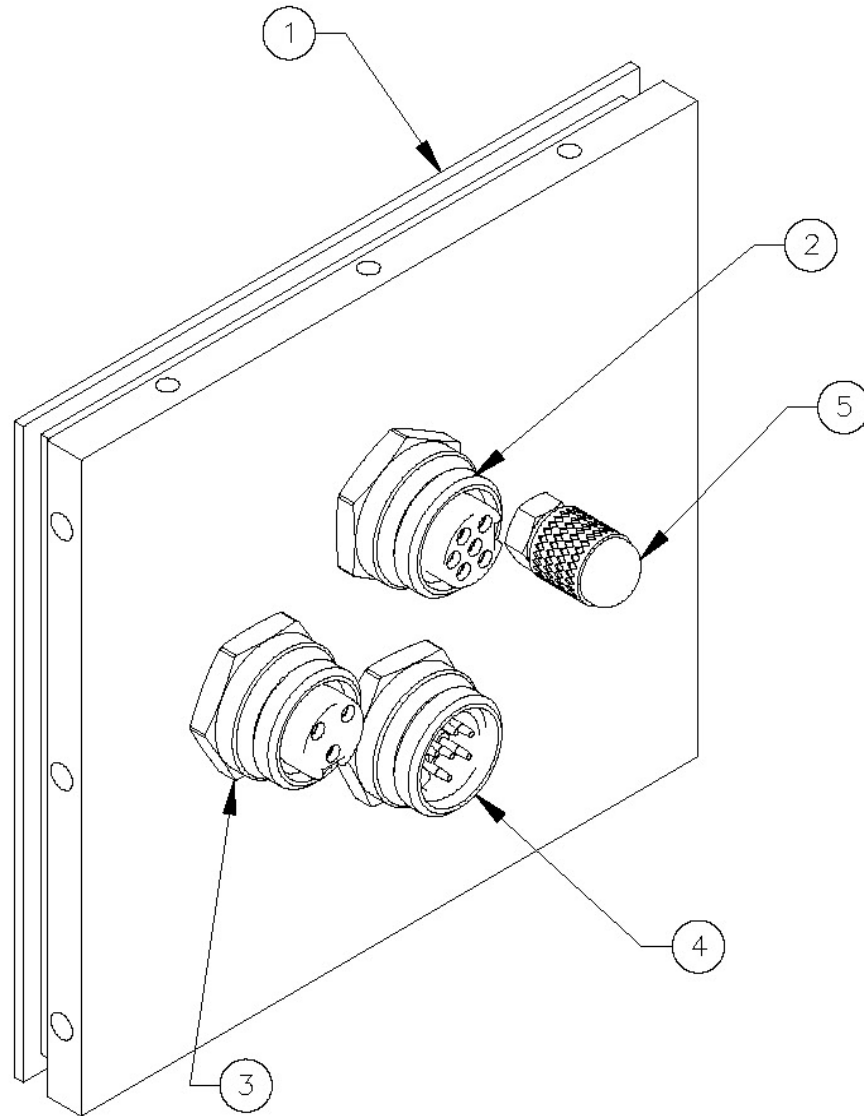


# STORM DRAIN TRACTOR MOTOR GEARBOX



| ITEM # | PART #       | DESCRIPTION                                        |
|--------|--------------|----------------------------------------------------|
| 1      | 801-34331    | ASSY,PLATE,MTG,ELEVATOR MOTOR,SSDT                 |
| 2      | 301-13628    | MSCR,PAN,PHH,10-32X1 SS                            |
| 3      | 635-35887    | MOTOR/GEARBOX,ELEVATOR,SSDT                        |
| 4      | 441-33963    | SPRKT,DRIVE,LEVELWIND,20T,#35,M/C MLCR TYPE 2      |
| 5      | 318-10242    | WASHER,THRUST,.625 X 1.125 X .031                  |
| 6      | 404-14268    | BEARING,THRUST,.625 X 1.125                        |
| 7      | 403-33964    | SPACER,SPRKT,DRIVEN,ELEVATOR MOTOR,SSDT            |
| 8      | 441-33962-40 | SPRKT,DRIVER,13T,ELEVATOR MOTOR,SSDT               |
| 9      | 805-33961    | ASSY,LEAD SCREW W/DELFIN BUSHING,SSDT              |
| 10     | 311-14381    | NUT,LEAD SCREW DRIVE,SSDT                          |
| 11     | 304-18177    | SSCR,HALF DOG PT,HXS,10-32X.38 SS                  |
| 12     | 305-33966    | MSCR,BUTTON,HXS,3/8-16 X .5 SS                     |
| 13     | 318-14788    | WASHER,LKG,#10,INT TOOTH SS                        |
| 14     | 441-11250    | CHAIN,#25 PITCH <b>SOLD PER INCH (REQUIRES 8")</b> |
| 15     | 441-11486    | MASTER LINK,#25 PITCH <b>(REQUIRES QTY. 2)</b>     |
| 16     | 441-19336    | LINK,OFFSET,#25,(HALF LINK)                        |

# STORM DRAIN TRACTOR REAR PLATE ASSEMBLY



| ITEM # | PART #           | DESCRIPTION                                              |
|--------|------------------|----------------------------------------------------------|
|        | <b>801-31534</b> | <b>ASSEMBLY</b>                                          |
| 1      | 453-31572-21     | PLATE,REAR,6PIN,SSDT,SFT BLK ANOD.                       |
| 2      | 557-17690        | CONN,W.R.,BHD,FEMALE,6SKT FEM THREAD,SOLDER CUP,MINIFAST |
| 3      | 557-19175        | CONN,W.R.,BHD,FEM PLUG/FEM THRD,3SKT,ZI/NI               |
| 4      | 557-19529        | CONN,W.R.,BHD,MALE PLG/MALE THRD,6 PIN,SOLDER CUP        |
| 5      | 602-10512        | FITTING,AIR PRESSURE,1/4"(M)NPTX1/8(M)PIPE BRASS W/VALVE |
| 6      | 565-12101        | TERM,RING,#10,14-16AWG,INSULATED BLUE                    |
| 7      | 300-19296        | MSCR,SEMS,PAN,PHH,INT STAR,10-32X.37 SZ                  |

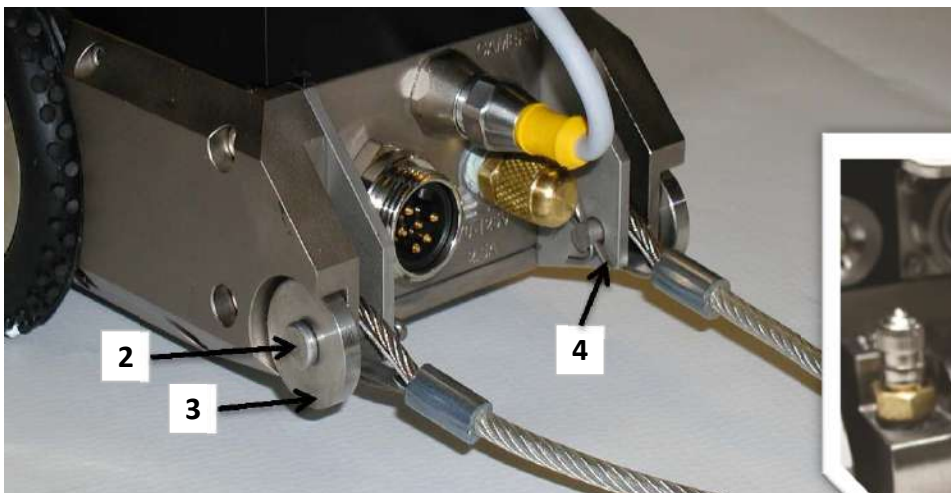
# TRANSTAR TRANSPORTER



PHOTO WITH TRAKSTAR CAMERA



| ITEM # | PART #       | DESCRIPTION                                                               |
|--------|--------------|---------------------------------------------------------------------------|
|        | 450-39321    | TOP SKID, TRANSTAR                                                        |
| 2      | 400-10833    | CLEVIS PIN, .25"DIA X47/64" USABLE L 18-8 SS (BRIDLE MOUNTING)            |
| 3      | 443-36876    | WHEEL SKATES                                                              |
| 4      | 400-10774    | COTTER PIN, .094"DIA X .50" 316 SS (BRIDLE MOUNTING)                      |
| 5      | 867-37642    | TOW BRIDLE                                                                |
|        | 403-34620    | SPACER, TOP SKID RAIL AT BACK END                                         |
|        | 301-10651    | MSCR, SHCS, 1/4-20X.50 SS (Mounts ballast plate to base plate)            |
|        | 301-10887    | MSCR, SHCS, 1/4-20X.75 SS (Mounts camera to base plate)                   |
|        | 301-11359    | MSCR, FLT, HXS, 10-32 X 1.25 S (For item # 6)                             |
|        | 301-11360    | MSCR, FLT HXS,1/4-20X1.25 S (Mounts camera to mounting plate)             |
|        | 301-12650    | MSCR, FLT, HXS, 1/2-13X.75 (Mounts camera mtg plate to base plate)        |
|        | 301-13742    | HARDWARE FOR RAIL                                                         |
|        | 305-30661    | MSCR, BUTTON, HXS, 1/4-20 X .50 SS                                        |
|        | 806-34469-13 | CABLE, CAMERA PWR, <u>6 SKT- 4 PIN</u> EURO 13", SS                       |
|        | 806-34469-16 | CABLE, CAMERA PWR, <u>6 SKT- 4 PIN</u> EURO 16", SS (ELEVATOR)            |
|        | 806-38138    | ASSY,CBL, <u>4 SKT FEM</u> (EURO)- <u>4 PIN MALE</u> (EURO),13.5" +.5"/-0 |



SHOWN WITH TILT UP  
CONNECTOR AND  
BACKUP CAMERA



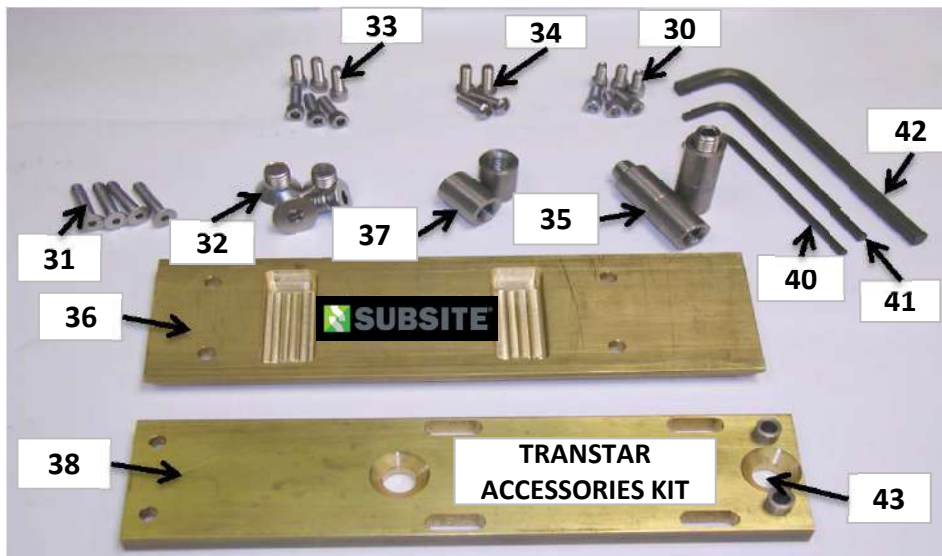
# TRANSTAR TRANSPORTER ACCESSORIES KIT (W/OUT ELEVATOR)



| ITEM # | PART #           | DESCRIPTION                                                |                            |
|--------|------------------|------------------------------------------------------------|----------------------------|
|        | <b>840-37252</b> | ACCESSORIES KIT FOR UNITS <u>W/OUT ELEVATOR</u>            |                            |
| 1      | 701-30994        | TOOL BOX W/TRAY, 19" L X 9.5" W X 9.5" H                   | <u>NOT SOLD SEPARATELY</u> |
| 2      | 840-34854        | EXTENSION KIT ( <b>PARTS BREAKDOWN ON NEXT PAGE</b> )      |                            |
| 3      | 602-41143        | EXTENSION, AIR VALVE, 1.25" LENGTH                         |                            |
| 30     | 301-10651        | MSCR, SHCS, 1/4-20 X 0.50 SS                               |                            |
| 31     | 301-11360        | MSCR, FLT, HXS, 1/4-20 X 1.25 SS                           |                            |
| 32     | 301-12650        | MSCR, FLT, HXS, 1/2-13 X 0.75 SS                           |                            |
| 33     | 301-15608        | MSCR, SHCS, 1/4-20 X .87 SS                                |                            |
| 34     | 305-39774        | MSCR, BUTTON, HXS, 1/4-20 X .75 SS, NYLON LOCK STRIP       |                            |
| 35     | 402-17109        | MOUNTING EXTENSION SPACER, 1"                              |                            |
| 36     | 453-39926-23     | PLATE, BALLAST, BOTTOM, TRANSTAR V3, NI PLATE              |                            |
| 37     | 800-17114        | SPACER, 1"                                                 |                            |
| 38     | 867-30937        | PLATE, CAMERA MOUNTING                                     |                            |
| 39     | 305-38792        | MSCR, BUTTON, HXS, 1/4-20 X .875 SS                        |                            |
| 40     | 634-10642        | ALLEN WRENCH, 3/16 LONG ARM                                |                            |
| 41     | 634-11114        | ALLEN WRENCH, 5/32 LONG ARM                                |                            |
| 42     | 634-17242        | ALLEN WRENCH, 5/16 LONG ARM                                |                            |
| 43     | 403-30725        | SPACERS, CAMERA MOUNT - <u>SOLD SEPARATELY</u>             |                            |
|        | 963-38193        | INFORMATION SHEET, EXTENSION APPLICATION GUIDE (NOT SHOWN) |                            |



867-39354  
ASSY, AIR VALVE TO 1/4"



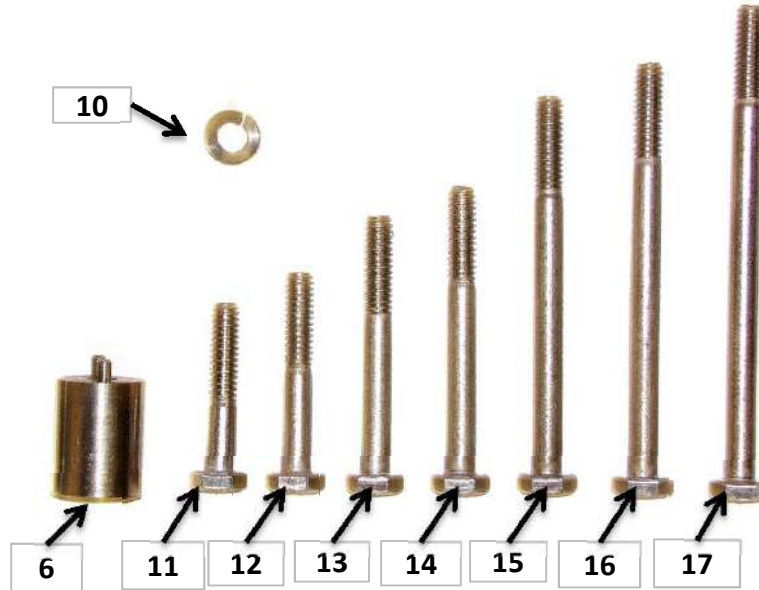
# TRANSTAR TRANSPORTER ACCESSORIES KIT (WITH ELEVATOR)

| <u>ITEM #</u> | <u>PART #</u>      | <u>DESCRIPTION</u>                                                      |
|---------------|--------------------|-------------------------------------------------------------------------|
|               | <b>840-37252-1</b> | ACCESSORIES KIT FOR UNITS <b>WITH ELEVATOR</b>                          |
| <b>1</b>      | 701-30994          | TOOL BOX W/TRAY, 19"L X 9.5"W X 9.5"H <b><u>NOT SOLD SEPARATELY</u></b> |
| <b>2</b>      | 840-34854          | EXTENSION KIT <b><u>(PARTS BREAKDOWN ON NEXT PAGE)</u></b>              |
|               | 450-39017          | SKID, PLATE, BASE, TRSTR V2                                             |
|               | 602-41143          | EXTENSION, AIR VALVE, 1.25" LENGTH                                      |
|               | 557-19120          | CAP, PROTECTIVE, THREADED, MALE, PICOFAST                               |
|               | 301-10651          | MSCR,SHCS, 1/-20 X .50 SS                                               |
|               | 301-15608          | MSCR,SHCS, 1/4-20 X .87 SS                                              |
|               | 305-39774          | MSCR, BUTTON, HXS, 1/4-20 X .75 SS NYLON LOCK STRIP                     |
|               | 305-38792          | MSCR, BUTTON, HXS, 1/4-20 X .875 SS                                     |
|               | 301-14783          | MSCR,FLT,PHH, 1/4-20 X .50 SS                                           |
|               | 634-10642          | WRENCH, ALLEN, 3/16, LONG ARM                                           |
|               | 634-11114          | WRENCH, ALLEN, 5/32, LONG ARM                                           |
|               | 963-38193          | INFORMATION SHEET, TRANSTAR TIRE & EXTENSION APP. GUIDE                 |

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>         |
|---------------|---------------|----------------------------|
| <b>4</b>      | 450-39017     | SKID, BOTTOM PROTECTOR     |
| <b>5</b>      | 301-11124     | MSCR,FLT,HXS,1/4-20X.50 SS |

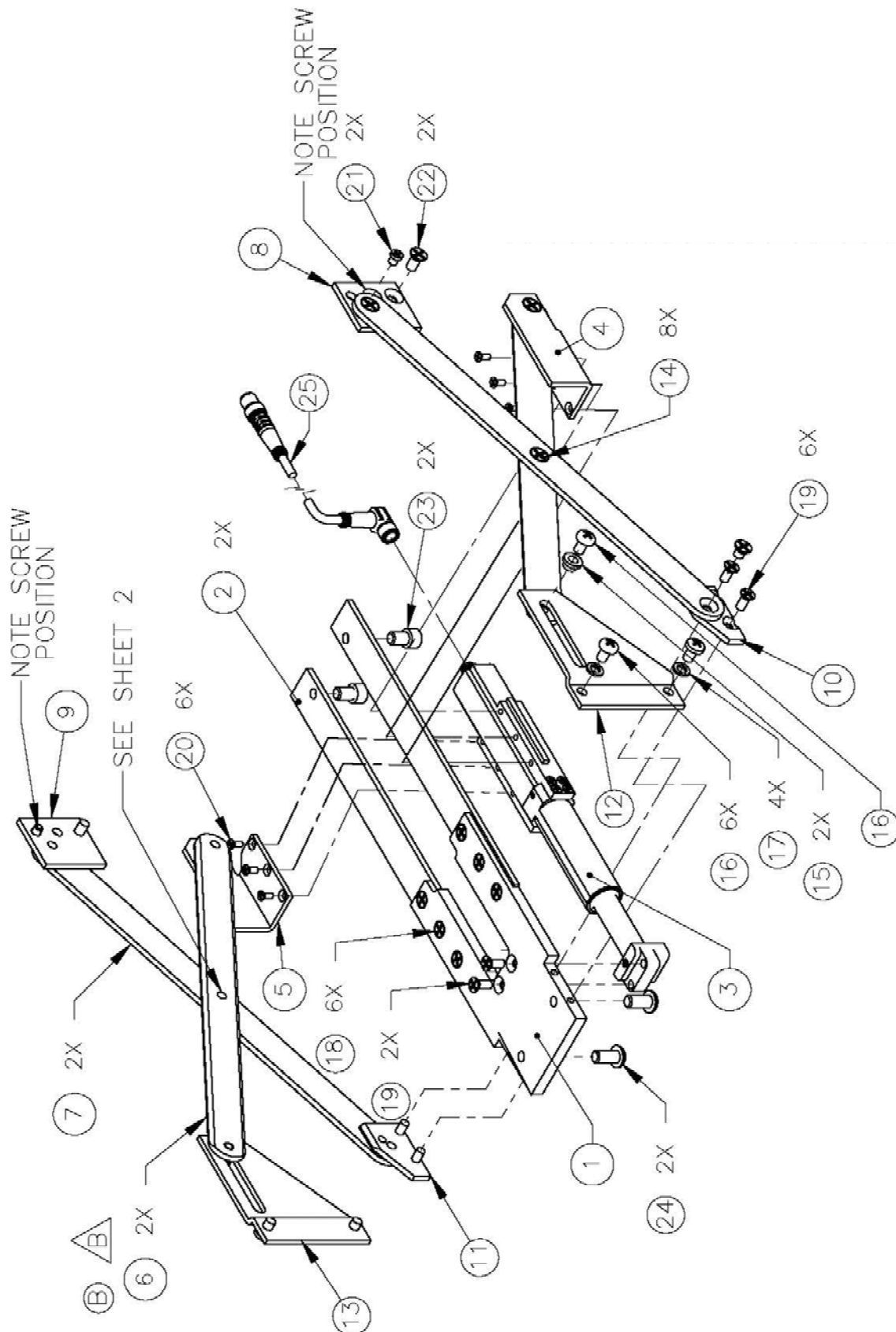


# TRANSTAR TRANSPORTER EXTENSION KIT



| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                                           |
|---------------|------------------|--------------------------------------------------------------|
|               | <b>840-34854</b> | <b>EXTENSION <u>KIT</u> (INCLUDES ALL ITEMS BELOW)</b>       |
| <b>6</b>      | 867-34846        | 1" SPACER                                                    |
| <b>10</b>     | 318-15671        | WASHER, LOCK, 0.25" SS                                       |
| <b>11</b>     | 301-39394        | MSCR, HEXHD, 1/4-20 X 1.625, 18-8 SS                         |
| <b>12</b>     | 301-34851        | MSCR, HEXHD, 1/4-20 X 1.75 SS                                |
| <b>13</b>     | 301-34849        | MSCR, HEXHD, 1/4-20 X 2.25 SS                                |
| <b>14</b>     | 301-35286        | MSCR, HEXHD, 1/4-20 X 2.50 SS                                |
| <b>15</b>     | 301-35287        | MSCR, HEXHD, 1/4-20 X 3.25 SS                                |
| <b>16</b>     | 301-34852        | MSCR, HEXHD, 1/4-20 X 3.50 SS                                |
| <b>17</b>     | 301-35288        | MSCR, HEXHD, 1/4-20 X 4.00 SS                                |
|               | 301-36102        | MSCR, HEXHD, 1/4-20 X 4.25 SS (NOT SHOWN)                    |
|               | 701-20910        | UTILITY BOX, PLASTIC (NOT SHOWN)                             |
|               | 400-34848        | DOWEL PIN FOR ITEM #6                                        |
|               | 963-38193        | EXTENSION APPLICATION GUIDE (NOT SHOWN)                      |
|               | 305-39774        | NYLON LOCK STRIP, BUTTON, 1/4-20 X 0.75 SS (SOLD SEPARATELY) |
|               | 867-38611        | 0.25" SPACER (SOLD SEPARATELY)                               |
|               | 840-38613        | 0.25" SPACER <u>KIT</u> (INCLUDES WTY 8)                     |

# TRANSTAR TRANSPORTER ELEVATOR

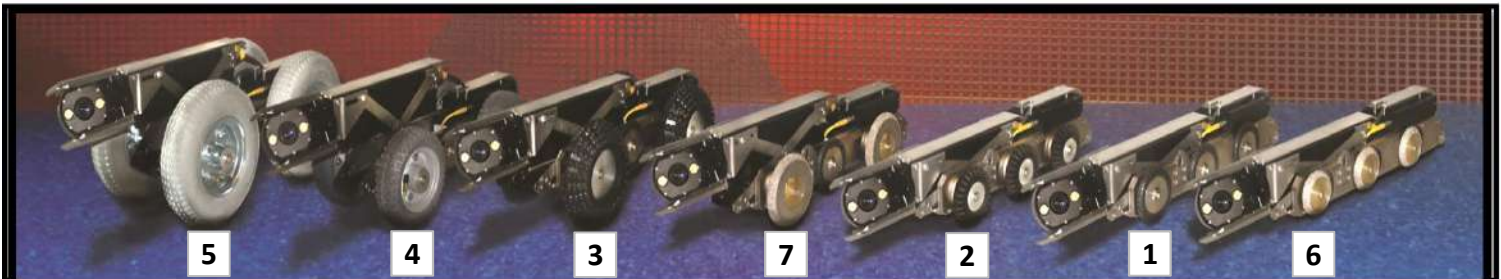


NOTES:

 INSTALL ITEM 6 SO CHAMFERS  
ON EACH PIECE FACE CAMERA

# TRANSTAR TRANSPORTER ELEVATOR

| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                                                            |
|---------------|------------------|-------------------------------------------------------------------------------|
|               | <b>800-42081</b> | ASSY, REPLACEMENT FRAME, ELEVATOR                                             |
| 1             | 453-39807-21     | PLATE,BASE,ELEVATOR,MOTL                                                      |
| 2             | 451-37547-40     | RAIL,SLIDE,ELEVATOR,FINAL MACHINE ASSY,ACTUATOR                               |
| 3             | 867-39800        | HD,ELEVATOR,TRANSTAR <b>(SOLD SEPARATELY, NOT INCLUDED IN ASSY)</b>           |
| 4             | 451-37681-40     | BRKT,SLIDER, <b>LEFT</b>                                                      |
| 5             | 451-37682-40     | BRKT,SLIDER, <b>RIGHT</b>                                                     |
| 6             | 453-37916        | PLATE,ARM,INNER                                                               |
| 7             | 453-37915        | PLATE,ARM,OUTER                                                               |
| 8             | 453-37917        | PLATE,REAR,UPPER,LEFT                                                         |
| 9             | 453-37918        | PLATE,REAR,UPPER,RIGHT                                                        |
| 10            | 453-37919        | PLATE,FRONT,LOWER,LEFT                                                        |
| 11            | 453-37920        | PLATE,FRONT,LOWER,RIGHT                                                       |
| 12            | 453-37683        | PLATE,MTG,FRONT,LEFT,CAMERA                                                   |
| 13            | 453-37542        | PLATE,MTG,FRONT,RIGHT,CAMERA                                                  |
| 14            | 301-13742        | MSCR,FLT,PHH,10-32X.25,UNDERCUT SS                                            |
| 18            | 301-12475        | MSCR,FLT,PHH,8-32X.25,UNDERCUT SS                                             |
| 19            | 301-12707        | MSCR,FLT,PHH,8-32X.37 SS                                                      |
| 20            | 301-10532        | MSCR,FLT,PHH,4-40X.25 SS                                                      |
| 23            | 301-20607        | MSCR,SHCS,1/4-20 X .375"L, SS                                                 |
| 24            | 305-30661        | MSCR,BUTTON,HXS,1/4-20 X .50 SS                                               |
| 25            | 557-37650        | CBL,FAB,(4PIN FEM R/A TO 4PIN MALE STR),IP67,PICOFAST,4COND                   |
|               | <b>840-40434</b> | <b>KIT, CAMERA TO ELEVATOR HARDWARE</b> (INCLUDES ITEMS BELOW 15,16,17,21,22) |
| 15            | <b>318-37726</b> | WASHER,SHLDR,#10 X 0.125L X0.254OD SHLDR X0.38OD,NYLON                        |
| 16            | <b>301-14087</b> | MSCR,PAN,PHH,10-32X.31 SS                                                     |
| 17            | <b>318-18587</b> | WASHER,LKG,#10,HELICAL SS                                                     |
| 21            | <b>301-38441</b> | MSCR,MTG,CAMERA,CAMERA LIFT (FLT, PHH, 10-32 x 0.25")                         |
| 22            | <b>301-13172</b> | MSCR,FLT,PHH,10-32X.37,UNDERCUT SS                                            |



**ELEVATION WITH SEVERAL TIRE OPTIONS AVAILABLE**

**REFER TO 'TRANSPORTER TIRES & WHEELS' SECTION**

**ITEM NUMBERS APPLY TO TIRES & WHEELS SECTION**

# TRANSTAR TRANSPORTER TIRES & WHEELS



## **3.5" KNOBBY TIRE REPLACEMENTS**

|           |                                   |
|-----------|-----------------------------------|
| 443-15559 | TIRE, <b><u>STUDED</u></b> KNOBBY |
| 443-15618 | TIRE,KNOBBY                       |

## **STANDARD KNOBBY**

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                   |
|----------------------|----------------------|---------------------------------------------|
| <b>1</b>             | 867-37180            | ASSY,WHEEL,KNOBBY TIRE                      |
|                      | 867-37241            | ASSY,WHEEL,KNOBBY TIRE,STUDED               |
|                      | 443-34632-23         | WHEEL, NI PLATED                            |
|                      | 305-39774            | HARDWARE, NYLON LOCK STRIP                  |
|                      | 400-34848            | PINS (AXLE)                                 |
|                      | 443-15559            | 3.5" TIRE ONLY, <b><u>STUDED</u></b> KNOBBY |
|                      | 443-15618            | 3.5" TIRE ONLY,KNOBBY                       |

## **HI-TRACTION**

|          | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b> |
|----------|----------------------|---------------------------|
| <b>2</b> | 867-34822            | 8"-18"                    |
|          | 867-37242            | STUDED,8"-18"             |



REFER TO TRANSTAR EXTENSION GUIDE

**PART # 963-38193**

**FOR APPROPRIATE HARDWARE**

## **BALLOON KNOBBY**

|          | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b> |
|----------|----------------------|---------------------------|
| <b>3</b> | 867-34843            | ASSY,KNOBBY               |

REFER TO TRANSTAR EXTENSION GUIDE

**PART # 963-38193**

**FOR APPROPRIATE HARDWARE**



# TRANSTAR TRANSPORTER TIRES & WHEELS

## **TRANSTAR ONLY ASSEMBLIES**

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                         |
|----------------------|----------------------|---------------------------------------------------|
| 860-37376            |                      | ASSY,PNEUMATIC, <u>6" X 2"</u>                    |
| 860-37377            |                      | ASSY,PNEUMATIC, <u>8" X 2"</u>                    |
| 860-40849            |                      | ASSY,PNEUMATIC, <u>6" X 2"</u> , <u>PLANETARY</u> |
| 860-40850            |                      | ASSY,PNEUMATIC, <u>8" X 2"</u> , <u>PLANETARY</u> |



## **Available for TranStar's ONLY**

REFER TO TRANSTAR EXTENSION GUIDE

PART # 963-38193

FOR APPROPRIATE HARDWARE

| <b><u>ITEM #</u></b> | <b><u>PART #</u></b> | <b><u>DESCRIPTION</u></b>                 |
|----------------------|----------------------|-------------------------------------------|
|                      | 840-40830            | KIT, EXTENSION W/PLANETARY GEAR REDUCTION |

# TRANSTAR TRANSPORTER MEGATRAKS

## TRANSTAR MEGATRAK KIT

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                       |
|---------------|---------------|----------------------------------------------------------|
|               | 840-35686     | <b>KIT (ITEMS IN PHOTO)</b>                              |
|               | 305-39774     | MSCR,BUTTON,HXS,1/4-20 X .75 SS, <b>NYLON LOCK STRIP</b> |
|               | 316-11245     | WASHER, FLAT 0.25 SAE SS                                 |
|               | 318-15671     | WASHER, LKG 0.25 SS                                      |



## WHEEL REPLACEMENTS (MEGATRAK WHEEL ONLY)

| <u>ITEM</u>  | <u>PART #</u> | <u>DESCRIPTION</u>               |
|--------------|---------------|----------------------------------|
| <b>2.70"</b> | 443-35678-23  | WHEEL,MEGATRAK,2.70" OD,NI PLATE |
| <b>3.30"</b> | 443-35679-23  | WHEEL,MEGATRAK,3.30" OD,NI PLATE |
| <b>4.40"</b> | 443-35680-23  | WHEEL,MEGATRAK,4.40" OD,NI PLATE |

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                               |
|---------------|---------------|--------------------------------------------------|
|               | 860-36000     | <b>HUB ASSEMBLY WITH MEGATRAK,2.70",TRANSTAR</b> |
|               | 860-36001     | <b>HUB ASSEMBLY WITH MEGATRAK,3.30",TRANSTAR</b> |
|               | 860-36002     | <b>HUB ASSEMBLY WITH MEGATRAK,4.40",TRANSTAR</b> |
|               | 305-39774     | BUTTON HEAD 1/4-20 X 0.75                        |
|               | 316-11245     | FLAT WASHER                                      |
|               | 318-15671     | LOCKING WASHER                                   |
|               | 400-36011     | DOWEL PIN                                        |



## **TRANSTAR**

|           |                       |
|-----------|-----------------------|
| 867-35899 | HUB,MEGATRAK          |
| 410-36012 | <b>SNAP RING ONLY</b> |

REFER TO TRANSTAR EXTENSION GUIDE  
PART # 963-38193  
FOR APPROPRIATE HARDWARE

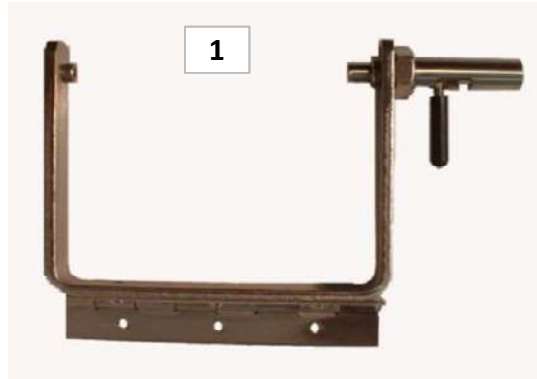


# TRANSTAR TRANSPORTER

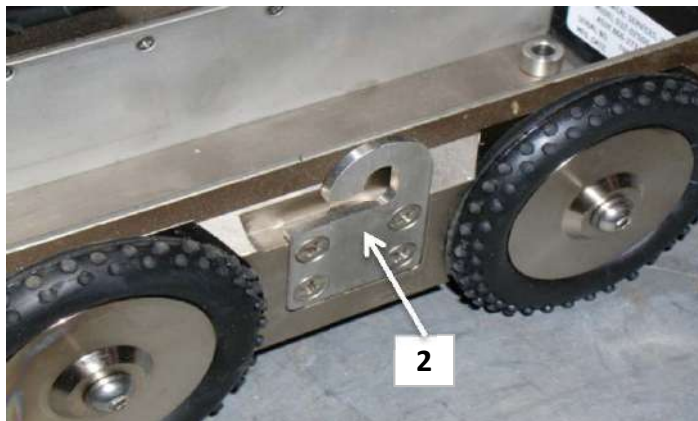
## TRANSPORTER REPLACEMENT PARTS & ACCESSORIES

### TRANSTAR TRANSPORTER PARTS

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>  |
|---------------|---------------|---------------------|
| 1             | 800-37068     | FLOOR MOUNT BRACKET |



|   |           |                                                           |
|---|-----------|-----------------------------------------------------------|
| 2 | 451-37881 | LIFTING BRACKET, EITHER SIDE                              |
|   | 305-35805 | MSCR,HEXHD,1/4-20 X 4.25" SS (HARDWARE FOR LIFT BRACKETS) |



|   |           |                    |
|---|-----------|--------------------|
| 3 | 867-37072 | LIFTING TOOL, POLE |
|---|-----------|--------------------|



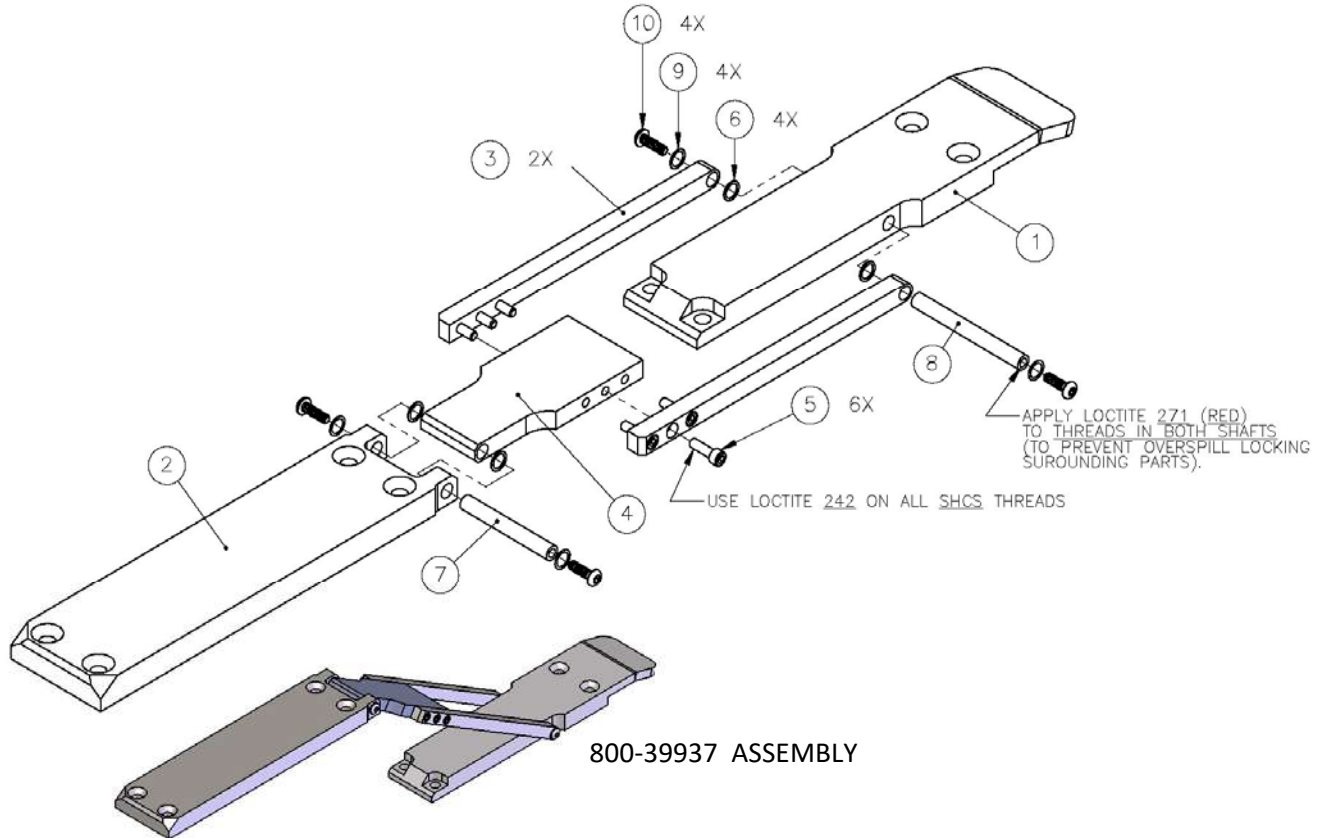
## TRANSTAR II (SHORT) TRANSPORTER



| <u>PART #</u> | <u>DESCRIPTION</u>                                           |
|---------------|--------------------------------------------------------------|
| 450-37037     | RAIL,SKID,TOP,TRANSTAR W/CAMERA LIFT&TRANSTAR II             |
| 867-37642     | ASSY,BRIDLE,TOW,2 PIECE,2 THIMBLE STYLE,TranSTAR             |
| 806-38138     | ASSY,CBL, <b>4 SKT (EURO) - 4 PIN (EURO)</b> ,13.5" +.5"/-0  |
| 301-11477     | HARDWARE, <b><u>CAMERA MOUNTING</u></b>                      |
| 305-39774     | HARDWARE, NYLON LOCK STRIP, MSCR,BUTTON,HXS,1/4-20 X 0.75 SS |
| 451-37913     | LIFTING BRACKET                                              |
| 301-14087     | MSCR,PAN,PHH,10-32X.31 SS (HARDWARE FOR LIFT BRACKET) CBL,   |
| 557-32446     | FAB, 4 PIN, ELEVATOR                                         |

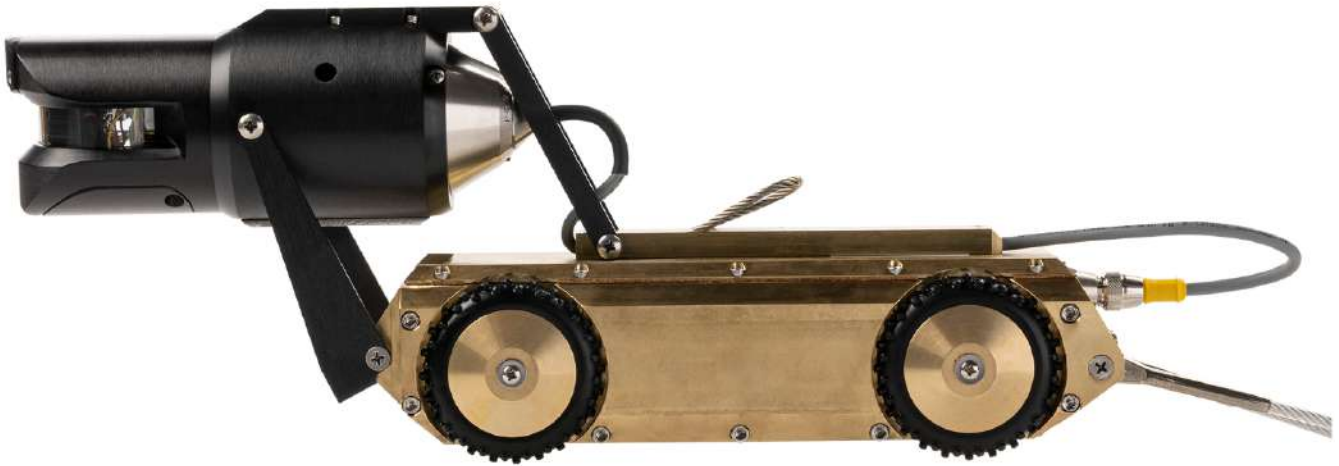
TIRES & WHEELS CAN BE FOUND IN THE **PRIOR TRANSTAR SECTION**

# TRANSTAR II (SHORT) TRANSPORTER ELEVATOR ASSEMBLY (POWERED)



| ITEM # | PART #       | DESCRIPTION                                        |
|--------|--------------|----------------------------------------------------|
| 1      | 451-39047-42 | BRKT,MTG,ACTUATOR HD,LIFT                          |
| 2      | 451-38972    | BRKT,TOP,CAMERA,ELEVATOR,MANUAL,TRAKSTAR II        |
| 3      | 445-38969    | ARM,UPPER LEG,ELEVATOR,MANUAL,TRAKSTAR II          |
| 4      | 453-39049    | PLATE,LEG,UPPER ARM,ELEVATOR,POWERED,TRAKSTAR II   |
| 5      | 301-11713    | MSCR,SHCS,4-40X.37 SS                              |
| 6      | 474-39587    | SHIM,WASHER,3/16 X 1/4 X .012, 18-8 SS             |
| 7      | 400-39981    | PIN,1,THREADED ENDS,ELEVATOR,MANUAL,TRAKSTAR II V2 |
| 8      | 400-39983    | PIN,3,THREADED ENDS,ELEVATOR,MANUAL,TRAKSTAR II V2 |
| 9      | 474-39977    | SHIM,WASHER,3/16 X 1/4 X .006,18-8 SS              |
| 10     | 301-39979    | MSCR,BUTTON,TORX,LOW PROFILE,4-40 X 0.38 SS        |

# MIGHTY MINI TRACTOR TRANSPORTER



## SHOWN WITH PROBE PAN & TILT MINI CAMERA

### MINI TRACTOR TRANSPORTER PARTS

| <u>ITEM #</u> | <u>PART #</u>   | <u>DESCRIPTION</u>                                                          |
|---------------|-----------------|-----------------------------------------------------------------------------|
|               | 301-10239       | MSCR,SHCS,8-32 X 0.50" SS TRACTOR BODY                                      |
|               | 301-10414       | MSCR,FLT,PHH,4-40 X 0.50" SS TOP CABLE COVER PLATE                          |
|               | 301-12007       | MSCR,PAN,PHH,6-32 X 0.25" SS WHEEL ATTACHMENT                               |
|               | 301-13685       | MSCR,PAN,PHH,10-32 X 0.50" UPPER ARMS                                       |
|               | 301-13914       | MSCR,FLT,PHH,10-32 X 0.87" S BRIDAL                                         |
|               | 301-14029       | MSCR,PAN,PHH,10-32 X 0.37" LOWER ARM, CAM TO TRACTOR                        |
|               | 301-14610       | MSCR,FLT,PHH,10-32 X 0.50" S LOWER ARM, CAM TO TRACTOR                      |
|               | 301-14900       | MSCR,SHCS,4-40 X 0.25" SS TOP PLATE / TOP CHANNEL                           |
|               | 301-14959       | MSCR,SHCS,8-32 X 0.62" SS TRACTOR BODY                                      |
|               | 309-13575       | NUT,HEX,10-32, NYLOCK SS BRIDAL                                             |
|               | 451-16031       | TOP CHANNEL CBL COVER                                                       |
|               | 806-30631       | CABLE, 3 PIN MALE/6 PIN FEMALE                                              |
|               | 806-33049       | CABLE, 4 PIN EURO TO 3 PIN MALE                                             |
|               | 867-33048       | <u>TOP CABLE</u> , MINI TRACTOR TO <u>1306</u> , 4 PIN EUROFAST, 17.5" LONG |
|               | 867-37197       | <u>TOP CABLE</u> , MINI TRACTOR-OS <u>PROBE</u> , 4PIN EURO 17.5"LONG       |
|               | 867-34891       | TOW BRIDLE                                                                  |
| CALL SUPPORT  | TOP LIFT BRIDLE |                                                                             |

MIGHTY MINI TRACTOR TRANSPORTER  
ACCESSORIES KIT



| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                           | <u>QTY</u><br><u>COMP</u> |
|---------------|------------------|----------------------------------------------|---------------------------|
|               | <b>840-30967</b> | <b>ACCESSORIES KIT</b>                       | KIT                       |
| 316-16857     |                  | WASHER,FLT,#6,.438OD,.040T SS                |                           |
| 301-12007     |                  | MSCR,PAN,PHH,6-32X.37 SS                     |                           |
| 301-11653     |                  | MSCR,PAN,PHH,6-32X.25 SS                     |                           |
| 867-30341     |                  | ASSEMBLY WHEEL, HEX DRIVE W/3.5" KNOBBY TIRE |                           |
| 806-40192     |                  | ASSY,CBL,3PIN MALE/6 PIN FEMALE,.4M LONG     |                           |
| 602-41401     |                  | FITTING, VALVE STEM EXTENSION (NOT SHOWN)    |                           |

# MIGHTY MINI TRACTOR TRANSPORTER

## TIRES & WHEELS



BACK SIDE OF  
MINI HUB

### STANDARD KNOBBY

| ITEM # | PART #       | DESCRIPTION                                            |
|--------|--------------|--------------------------------------------------------|
|        | 867-30349    | ASSY,WHEEL,HEX DRIVE, <u>W/2.5" KNOBBY</u>             |
|        | 443-16070    | TIRE <u>ONLY, 2.5"</u>                                 |
|        | 443-21996    | CAP, 2.5" WHEEL <span style="font-size: 2em;">→</span> |
|        | 443-21995    | WHEEL, <u>ONLY, 2.5"</u>                               |
|        | 867-30341    | ASSY,WHEEL,HEX DRIVE, <u>W/3.5" KNOBBY</u>             |
|        | 443-21993    | CAP, 3.5" WHEEL                                        |
|        | 443-21994-23 | WHEEL, <u>ONLY, 3.5"</u>                               |



### HI-TRACTION

| ITEM # | PART #      | DESCRIPTION               |
|--------|-------------|---------------------------|
|        | 840-31640-1 | KIT,HI TRACTION,HEX DRIVE |



# MIGHTY MINI TRACTOR TRANSPORTER MEGATRAKS



## KIT

| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                           |
|---------------|------------------|----------------------------------------------|
|               | <b>840-36600</b> | <b>KIT (SIMILAR TO ITEMS IN PHOTO ABOVE)</b> |
|               | 634-36003        | PLIERS, SNAP RING                            |

## WHEEL ASSEMBLY

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>       |
|---------------|---------------|--------------------------|
|               | 860-36601     | HUB WITH MEGATRAK, 2.70" |

## WHEEL ONLY

| <u>ITEM</u> | <u>PART #</u> | <u>DESCRIPTION</u>      |
|-------------|---------------|-------------------------|
|             | 443-35678-23  | WHEEL ONLY <b>2.70"</b> |
|             | 443-35679-23  | WHEEL ONLY <b>3.30"</b> |
|             | 443-35680-23  | WHEEL ONLY <b>4.40"</b> |



## HUB ASSEMBLY

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|--------------------|
|               | 867-36521     | HUB,MEGATRAK       |
|               | 443-36519-23  | HUB ONLY           |
|               | 443-21993     | CAP/INSERT         |
|               | 400-36011     | PIN                |
|               | 410-36012     | SNAP RING          |

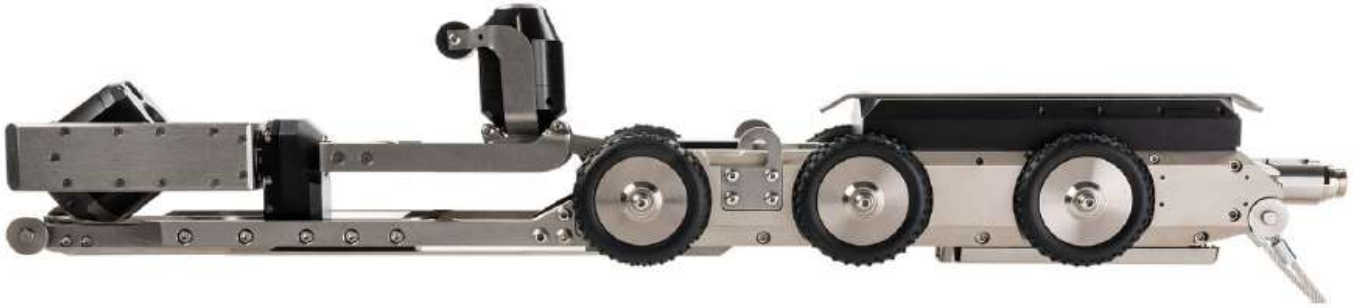


# MIGHTY MINI TRACTOR TRANSPORTER COMPLETION KITS / CAMERA MOUNTING



| ITEM # | PART #           | DESCRIPTION                                      | QTY<br>COMP |
|--------|------------------|--------------------------------------------------|-------------|
|        | <b>841-38670</b> | <b>PROBE V2 TYPE,MINI TRACTOR</b>                | KIT         |
| 4      | 301-14203        | MSCR,PAN,PHH,10-32X.62                           | 2           |
|        | 316-11835        | SS WASHER,FLT,#10 SS                             | 2           |
|        | 403-37077        | SPACER,RND,#10,.125L,SS                          | 2           |
|        | 405-38253-21     | SLEEVE,MTG,CAMERA,OS PROBE V2                    | 1           |
|        | 445-38257-21     | ARMS,LOWER,CANTILEVER,OS PROBE V2                | 2           |
|        | 450-38254        | SKID,BOTTOM,SLEEVE,CAMERA,OS PROBE V2            | 1           |
|        | 451-38257-21     | BLOCK,MTG,SLEEVE,CAMERA,OS PROBE V2              | 1           |
| 2      | 301-11889        | MSCR,FLT,PHH,6-32X.37 SS (SKID SLEEVE)           | 4           |
| 3      | 301-14029        | MSCR,PAN,PHH,10-32X.37 SS (TOP ARMS)             | 4           |
| 1      | 301-14087        | MSCR,PAN,PHH,10-32X.31 SS (BOTTOM ARM TO SLEEVE) | 2           |
| 5      | 301-11713        | MSCR,SHCS,4-40X.37 SS (SLEEVE BLOCK)             | 4           |
|        | 445-16032-21     | ARM,UPPER CANTILEVER                             | 2           |
|        | <b>841-38669</b> | <b>1306 TYPE,MINI TRACTOR</b>                    | COMP        |
|        |                  | KIT                                              |             |
|        | 301-11713        | MSCR,SHCS,4-40X.37 SS                            | 6           |
|        | 301-14029        | MSCR,PAN,PHH,10-32X.37 SS                        | 2           |
|        | 405-16035-21     | SLEEVE,CAMERA MTG,MINI TRACTOR                   | 1           |
|        | 445-16032-21     | ARM,UPPER CANTILEVER                             | 2           |
|        | 445-16033-21     | ARM,LOWER CANTILEVER                             | 2           |
|        | 451-16034-21     | BLOCK,MTG,CAMERA SLEEVE                          | 1           |
|        | 867-33048        | TAIL ASSY,PLUG, 1306, 4PIN EURO (17.5"LONG)      | 1           |

# LATERAL LAUNCHER



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                  |               |
|---------------|---------------|-------------------------------------|---------------|
|               | 806-38136     | CBL, <u>WITH</u> CAMERA TERMINATION | <b>100 FT</b> |
|               | 806-38136-1   | CBL, <u>W/O</u> CAMERA TERMINATION  | <b>100 FT</b> |
|               | 806-38136-150 | CBL, <u>WITH</u> CAMERA TERMINATION | <b>150 FT</b> |
|               | 806-38136-5   | CBL, <u>W/O</u> CAMERA TERMINATION  | <b>150 FT</b> |
|               | 806-38136-200 | CBL, <u>WITH</u> CAMERA TERMINATION | <b>200 FT</b> |
|               | 806-38136-4   | CBL, <u>W/O</u> CAMERA TERMINATION  | <b>200 FT</b> |
|               | 867-37642     | BRIDLE                              |               |
|               | 841-38738     | COMPLETION KIT                      |               |
|               | 410-38222     | SNAP RING, E-CLIP                   |               |
|               | 446-38225     | SPRING                              |               |
|               | 806-38351     | CAMERA CONNECTOR                    |               |



# LATERAL LAUNCHER RETERMINATION KITS

| ITEM # | PART #      | DESCRIPTION                                              |
|--------|-------------|----------------------------------------------------------|
| 1      | 841-38183   | KIT,RETERMINATION,PUSH CBL, <u>CAMERA END</u> ,LIS GEN 2 |
| 2      | 841-38183-1 | KIT, INCLUDES DISPENSING GUN (840-20827 KIT WITH NOZZLE) |



|   |           |                                                             |
|---|-----------|-------------------------------------------------------------|
| 3 | 557-38223 | CONN,W.R.,PIGTAIL,FEMALE,4SKT,STR,26AWG,0.2M,CSA (PICOFAST) |
| 4 | 408-38220 | CONN,BASE,SPRING,PUSH CABLE,LIS GEN 2                       |
| 5 | 439-14212 | O-RING,BUNA,016                                             |
| 6 | 304-20100 | SSCR,CUP PT,HXS,4-40X0.50, SS                               |
|   | 630-14364 | EPOXY, DP100                                                |

| ITEM # | PART #    | DESCRIPTION                                                     |
|--------|-----------|-----------------------------------------------------------------|
|        | 841-37322 | KIT,RETERMINATION,PUSH CBL, <u>SINCON END</u> ,LATERAL LAUNCHER |



|   |           |                                         |
|---|-----------|-----------------------------------------|
| 7 | 408-34066 | BULLET,CABLE TERMINATION,PUSH CABLE,LIS |
| 8 | 602-10158 | FITTING,COMPRESSION,UNION,1/4",BRASS    |
| 9 | 555-35395 | CONN,TNC,PLUG,PUSH CBL,REEL,LIS         |
|   | 968-38221 | DRAWING INSTRUCTIONS                    |

# LATERAL LAUNCHER TIRES & WHEELS



## STANDARD KNOBBY

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>            |
|---------------|---------------|-------------------------------|
|               | 867-37180     | ASSY,WHEEL,KNOBBY TIRE        |
|               | 867-37241     | ASSY,WHEEL,KNOBBY TIRE,STUDED |
|               | 443-34632-23  | WHEEL, NI PLATED              |
|               | 305-39774     | HARDWARE, NYLON LOCK STRIP    |
|               | 400-34848     | PINS (AXLE)                   |

## HI-TRACTION

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|--------------------|
|               | 867-34822     | ASSY 8"-18"        |
|               | 867-37242     | STUDED ASSY,8"-18" |

REFER TO TRANSTAR EXTENSION GUIDE  
PART # 963-38193  
FOR APPROPRIATE HARDWARE



## BALLOON KNOBBY

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u> |
|---------------|---------------|--------------------|
|               | 867-34843     | ASSY,KNOBBY        |

REFER TO TRANSTAR EXTENSION GUIDE  
PART # 963-38193  
FOR APPROPRIATE HARDWARE



# LATERAL LAUNCHER MEGATRAKS

## MEGATRAK KIT

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                       |
|---------------|---------------|----------------------------------------------------------|
|               | 840-35686     | <b>KIT (ITEMS IN PHOTO)</b>                              |
|               | 305-39774     | MSCR,BUTTON,HXS,1/4-20 X .75 SS, <b>NYLON LOCK STRIP</b> |
|               | 316-11245     | WASHER, FLAT 0.25 SAE SS                                 |
|               | 318-15671     | WASHER, LKG 0.25 SS                                      |



## (WHEEL ONLY)

| <u>SIZE</u>  | <u>PART #</u> | <u>DESCRIPTION</u>               |
|--------------|---------------|----------------------------------|
| <b>2.70"</b> | 443-35678-23  | WHEEL,MEGATRAK,2.70" OD,NI PLATE |
| <b>3.30"</b> | 443-35679-23  | WHEEL,MEGATRAK,3.30" OD,NI PLATE |
| <b>4.40"</b> | 443-35680-23  | WHEEL,MEGATRAK,4.40" OD,NI PLATE |

| <u>PART #</u> | <u>DESCRIPTION</u>                               |
|---------------|--------------------------------------------------|
| 860-36000     | <b>HUB ASSEMBLY WITH MEGATRAK,2.70",TRANSTAR</b> |
| 860-36001     | <b>HUB ASSEMBLY WITH MEGATRAK,3.30",TRANSTAR</b> |
| 860-36002     | <b>HUB ASSEMBLY WITH MEGATRAK,4.40",TRANSTAR</b> |

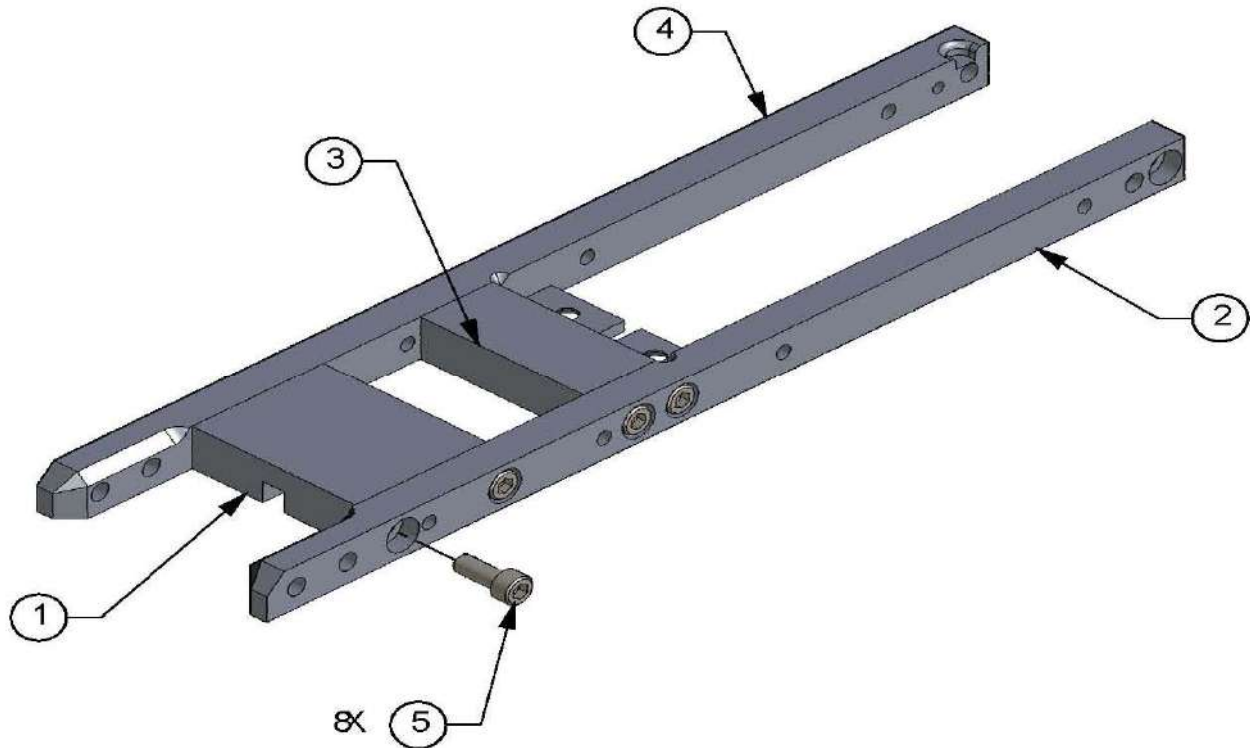


| <u>PART #</u> | <u>DESCRIPTION</u>           |
|---------------|------------------------------|
| 867-35899     | <b>HUB ASSEMBLY,MEGATRAK</b> |
| 410-36012     | <b>SNAP RING ONLY</b>        |
| 443-35895     | <b>HUB ONLY</b>              |

**REFER TO TRANSTAR EXTENSION GUIDE  
PART # 963-38193  
FOR APPROPRIATE HARDWARE**

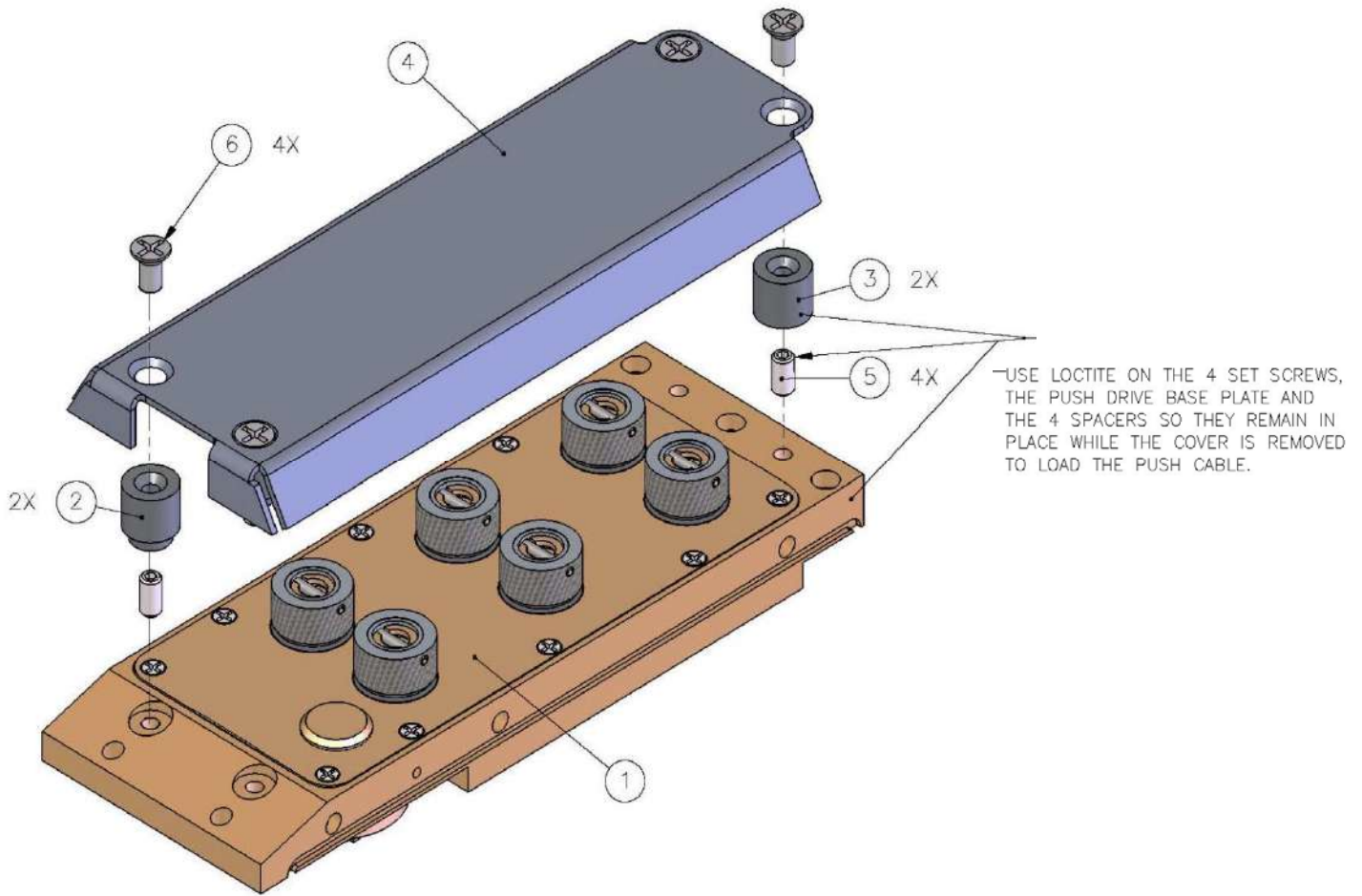


# LATERAL LAUNCHER FLOOR RAIL ASSEMBLY



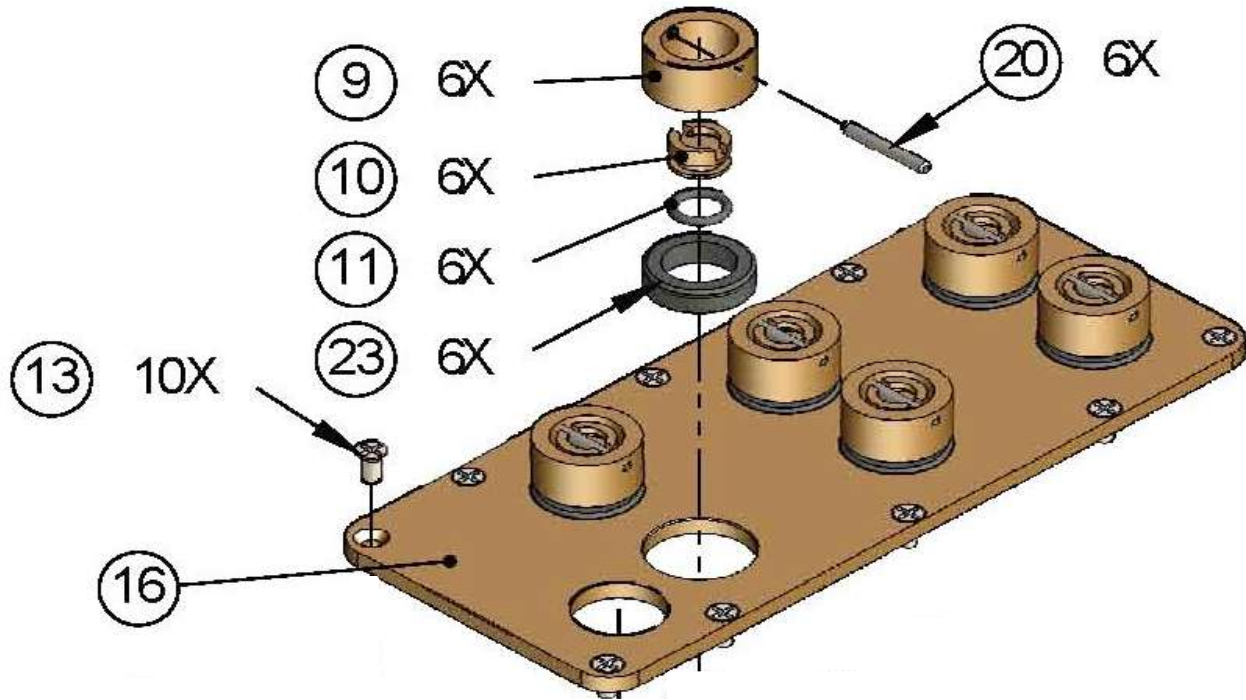
| <b>ITEM #</b> | <b>PART #</b> | <b>DESCRIPTION</b>           |
|---------------|---------------|------------------------------|
| <b>1</b>      | 451-37942     | RAIL, CROSS BASE, FRONT      |
| <b>2</b>      | 451-37945     | RAIL, BASE, REAR, LEFT       |
| <b>3</b>      | 451-37943     | RAIL, CROSS BASE, MID        |
| <b>4</b>      | 451-37944     | RAIL, BASE, REAR, RIGHT      |
| <b>5</b>      | 301-11241     | MSCR, SHCS, 10-32 X 0.50, SS |

# LATERAL LAUNCHER PUSH CABLE DRIVE ASSEMBLY



| ITEM # | PART #    | DESCRIPTION                              |
|--------|-----------|------------------------------------------|
| 1      | 805-37980 | ASSY, PUSH CABLE DRIVE, LIS GEN 2        |
| 2      | 402-37952 | SPACER, UNDERTRAY, FRONT, LAUNCHER GEN 2 |
| 3      | 402-37953 | SPACER, UNDERTRAY, REAR, LAUNCHER GEN 2  |
| 4      | 453-37954 | PLATE, UNDERTRAY, LAUNCHER GEN 2         |
| 5      | 304-11243 | SSCR, CUP PT, HXS, 10-32 X .375 SS       |
| 6      | 301-13172 | MSCR, FLT, PHH, 10-32 X .37, UNDERCUT SS |

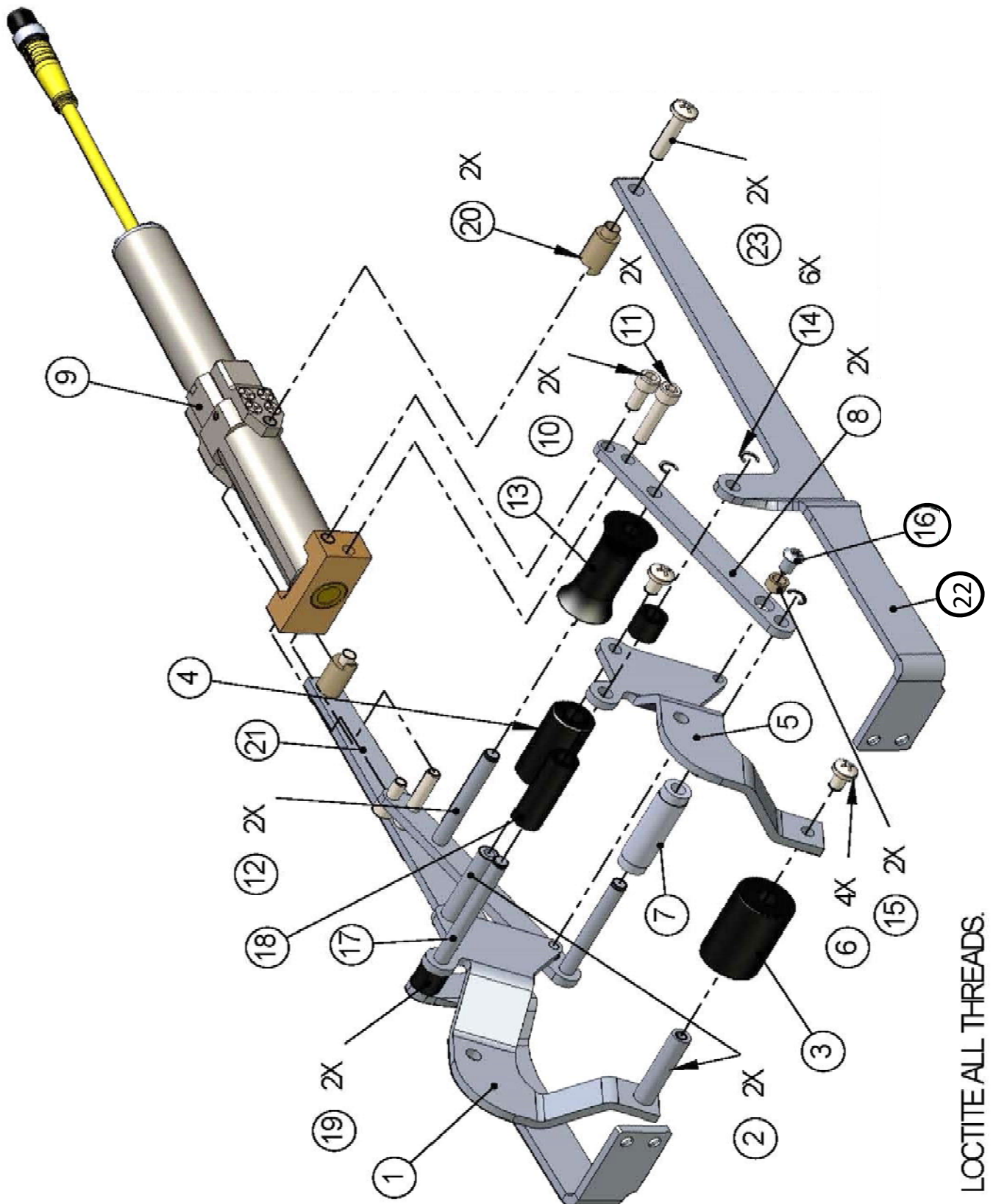
# LATERAL LAUNCHER PUSH CABLE DRIVE ASSEMBLY



| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                              |
|---------------|---------------|-------------------------------------------------|
| 9             | 443-37992-45  | DRIVE ROLLER, PUSH CABLE                        |
| 10            | 439-37993     | PLUG, SEALING, DRIVE ROLLER                     |
| 11            | 439-38682     | O-RING, BUNA, 7MM ID X 1.5MM WIDE               |
| 13            | 301-10532     | MSCR,FLT,PHH,4-40 X 0.25. SS                    |
| 16            |               | <b>CALL TECH SUPPORT</b>                        |
| 20            | 400-40012     | PIN, SPRING, ROLL, M2 X 4MML, 18-8              |
| 23            | 439-38320     | OIL SEAL, RADIAL, 12MM SHAFT, 18MM OD X 4.5MM H |

**\* PLEASE NOTE: ITEM 23 REQUIRES SPECIAL TOOLING, CONTACT THE FACTORY FOR FURTHER INFORMATION**

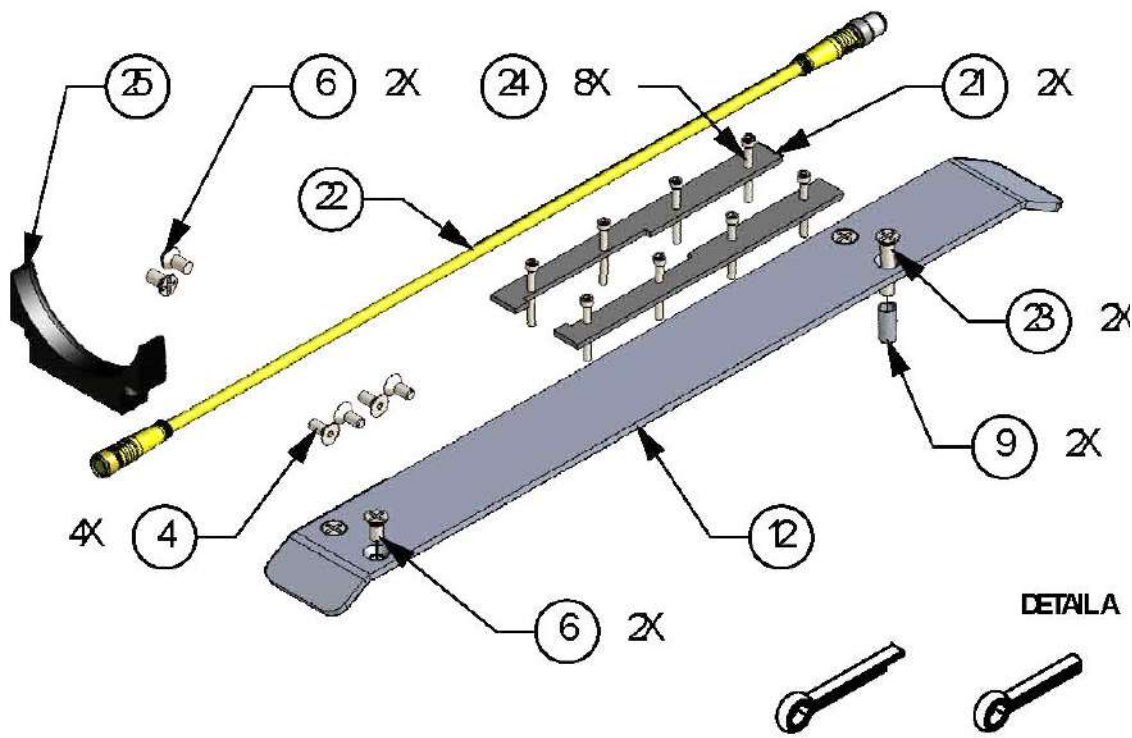
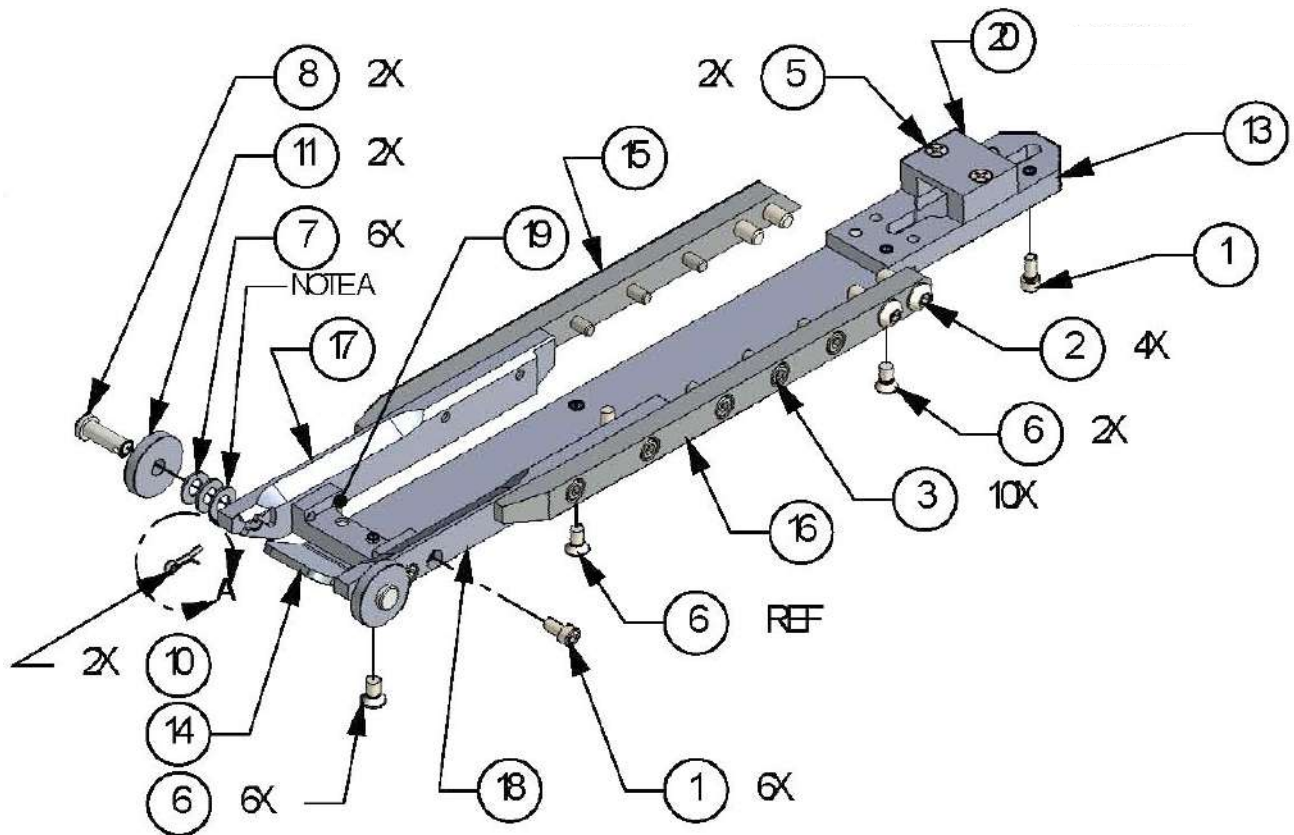
# LATERAL LAUNCHER LAUNCHING MODULE ASSY



# LATERAL LAUNCHER LAUNCHING MODULE ASSY

| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                              |
|---------------|------------------|-------------------------------------------------|
|               | <b>867-38475</b> | LAUNCHING MODULE ASSEMBLY                       |
| <b>1</b>      | 451-37930        | <b><u>RIGHT</u></b> SIDE, LAUNCH HEAD           |
| <b>2</b>      | 407-37959        | AXLE, ROLLER, MAIN, LAUNCH HEAD                 |
| <b>3</b>      | 443-37960        | ROLLER, MAIN, <b><u>FRONT</u></b> , LAUNCH HEAD |
| <b>4</b>      | 443-37958        | ROLLER, MAIN, <b><u>REAR</u></b> , LAUNCH HEAD  |
| <b>5</b>      | 451-37929        | <b><u>LEFT</u></b> SIDE, LAUNCH HEAD            |
| <b>6</b>      | 301-12533        | MSCR, PAN, PHH, 8-32 X 0.25", SS                |
| <b>7</b>      | 443-39952        | ROLLER, CABLE TRAPPING                          |
| <b>8</b>      | 444-39951        | LEG, CLEVIS, CABLE TRAPPING                     |
| <b>9</b>      | 867-39076        | ACTUATOR HD ASSEMBLY, LIFT                      |
| <b>10</b>     | 301-12302        | MSCR, SHCS, 8-32 X 0.375", SS                   |
| <b>11</b>     | 301-12008        | MSCR, SHCS, 8-32 X 0.75", SS                    |
| <b>12</b>     | 407-37970        | SHAFT, ROLLER, CLEVIS, LAUNCH HEAD              |
| <b>13</b>     | 443-37969        | ROLLER, CLEVIS, LAUNCH HEAD                     |
| <b>14</b>     | 410-39068        | RING, RETAINING, EXT. SIDE MNT                  |
| <b>15</b>     | 405-37972        | BUSHING, CLEVIS LEG, LAUNCH HEAD                |
| <b>16</b>     | 305-38474        | SCREW, MOUNTING, PUSH LEG, ACUTUATOR            |
| <b>17</b>     | 407-37964        | SHAFT, PIVOT, HEAD, LAUNCH HEAD                 |
| <b>18</b>     | 443-37962        | ROLLER, PIVOT, HEAD, LAUNCH HEAD                |
| <b>19</b>     | 403-37963        | SPACER, OUTER, HEAD PIVOT, LAUNCH HEAD          |
| <b>20</b>     | 403-39086        | SPACER, MOUNTING, ACTUATOR HD, LIFT             |
| <b>21</b>     | 451-38408-40     | RIGHT SIDE, MODULE                              |
| <b>22</b>     | 451-38409-40     | LEFT SIDE, MODULE                               |
| <b>23</b>     | 301-12649        | MSCR, PAN, PHH, 8-32 X 0.75", SS                |

# LATERAL LAUNCHER COMPLETION KIT



# LATERAL LAUNCHER COMPLETION KIT

| <u>ITEM #</u> | <u>PART #</u>      | <u>DESCRIPTION</u>                                            | <u>QTY</u> |
|---------------|--------------------|---------------------------------------------------------------|------------|
|               | <b>841-38725</b>   | COMPLETION KIT ( <b><u>PREVIOUS VERSION</u></b> )             | COMP KIT   |
|               | <b>841-38725-1</b> | COMPLETION KIT ( <b><u>REARVIEW CAM VERSION</u></b> )         | COMP KIT   |
| <b>1</b>      | 301-12302          | MSCR,SHCS,8-32 X .375 SS                                      | 6          |
| <b>2</b>      | 305-30381          | MSCR,BUTTON,HXS,1/4-20 X .75 SS                               | 4          |
| <b>3</b>      | 301-11241          | MSCR,SHCS,10-32X.50 SS                                        | 10         |
| <b>4</b>      | 301-12126          | MSCR,FLT,HXS,8-32X.37 SS                                      | 4          |
| <b>5</b>      | 301-12591          | MSCR,FLT,PHH,8-32X.75 SS                                      | 2          |
| <b>6</b>      | 301-13172          | MSCR,FLT,PHH,10-32X.37,UNDERCUT SS                            | 10         |
| <b>7</b>      | 316-11245          | WASHER,FLT,.25,SAE SS                                         | 6          |
| <b>8</b>      | 400-39069          | PIN,CLEVIS,.25"DIA X 9/16"USABLE L 18-8 SS                    | 2          |
| <b>9</b>      | 403-37997          | SPACER,SKID RAIL ( <b><u>PREVIOUS VERSION</u></b> )           | 2          |
| <b>10</b>     | 400-10774          | PIN,COTTER,.094"DIA X .50" 316 SS                             | 2          |
| <b>11</b>     | 443-36876          | SKATE WHEELS                                                  | 2          |
| <b>12</b>     | 450-37996          | RAIL,SKID,UPPER ( <b><u>PREVIOUS VERSION</u></b> )            | 1          |
| <b>12</b>     | 450-39037          | RAIL,SKID,UPPER ( <b><u>REARVIEW CAM VERSION</u></b> )        | 1          |
| <b>13</b>     | 450-38434          | RAIL,CENTER,LOW                                               | 1          |
| <b>14</b>     | 450-38435          | SKID,FRONT,LOWER,CENTER                                       | 1          |
| <b>15</b>     | 451-38436          | RAIL,FRONT,RIGHT                                              | 1          |
| <b>16</b>     | 451-38437          | RAIL,FRONT,LEFT                                               | 1          |
| <b>17</b>     | 451-38438          | SKID,FRONT,LOWER,RIGHT                                        | 1          |
| <b>18</b>     | 451-38439          | SKID,FRONT,LOWER,LEFT                                         | 1          |
| <b>19</b>     | 451-38440          | BRACE,CROSS,SKIDS,FRONT,LOWER                                 | 1          |
| <b>20</b>     | 453-37950          | COVER,CBL,SLACK,CAMERA                                        | 1          |
| <b>21</b>     | 453-38470          | PLATE,SPACER,CAM CNTRL BOX ( <b><u>PREVIOUS VERSION</u></b> ) | 1          |
| <b>22</b>     | 557-38154          | CBL, 4PIN, 26AWG, MALE/FEM, 0.4M, PICOFAST                    | 1          |
| <b>23</b>     | 301-13571          | MSCR,FLT,PHH,10-32X1 SS ( <b><u>PREVIOUS VERSION</u></b> )    | 2          |
| <b>24</b>     | 301-38471          | MSCR,SHCS,4-40X 1.0 SS ( <b><u>PREVIOUS VERSION</u></b> )     | 8          |
| <b>25</b>     | 449-37948          | CHOCK,MID,BASE RAILS                                          | 1          |

# MAINLINE CONTROLLERS



## MAINLINE CONTROLLER PARTS

|           |                                                            |
|-----------|------------------------------------------------------------|
| 447-10663 | ALUMINUM KNOB (REEL SPEED)                                 |
| 542-14407 | SW, TOGGLE, SPDT, 15A (GENERATOR START/STOP)               |
| 542-14697 | SW, TOGGLE, SPST, MAN, 15A (REEL ON/OFF)                   |
| 542-30144 | SW, TOGGLE, DPST, MAN, 15A (CAMERA/REEL ON/OFF)            |
| 542-30154 | SW, TOGGLE, SPDT, MOM, 15A (REEL IN/OUT)                   |
| 861-31811 | ASSY, PCB, RIPPLE FILTER, SINGLE FET, LISTED (5 PIN CONN.) |
| 861-38098 | ASSY, PCB, CONTROLLER DEMOD                                |

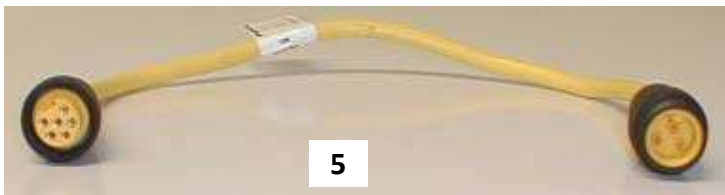
## CABLES TEST CABLES

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                                             |
|---------------|---------------|--------------------------------------------------------------------------------|
| <b>3</b>      | 806-31484     | CABLE, M/L REEL to CAMERA<br>( <b>6-PIN (F)</b> SCREW STYLE TO <b>N-PLUG</b> ) |
|               | 806-36831     | CBL, <b>4PIN FEM(EURO)</b> - <b>6 PIN MALE(IP67)</b> ,10 INCH                  |



## CABLES TWIST-ON BULLET STYLE

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                                      |
|---------------|---------------|-------------------------------------------------------------------------|
| <b>3</b>      | 557-19528     | PIGTAIL, 6-PIN F SCREW-ON STYLE                                         |
| <b>5</b>      | 806-40192     | 3-PIN M TO 6-PIN F, SCREW-ON STYLE                                      |
| <b>6</b>      | 806-37583     | ASSY,CBL, <u><b>SONDE</b></u> TRANSMITTER, 3-PIN M TO 6-PIN F, SCREW-ON |



## CABLES

### TWIST-ON BULLET STYLE

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                                                                                       |
|---------------|---------------|--------------------------------------------------------------------------------------------------------------------------|
| 2             | 806-34469-13  | ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, <b>13 IN</b><br>( <b>TOP CABLE FOR <u>TRANSTAR</u></b> )                     |
|               | 806-34469-16  | ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, <b>16 IN</b><br>( <b>TOP CABLE FOR <u>TRANSTAR WITH ELEVATOR</u></b> )       |
|               | 806-34469-21  | ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, <b>21 IN</b><br>( <b>TOP CABLE FOR <u>LISTED 6" CRAWLER</u></b> )            |
|               | 806-34469-24  | ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, <b>24 IN</b> ( <b>TOP CABLE</b> )<br>( <b>FOR <u>LISTED 8" CRAWLER</u></b> ) |
|               | 806-36831     | ASSY,CBL,4PIN FEM(EURO)-6 PIN MALE(IP67),10 INCH<br>( <b>LED LIGHTS, EXTERNAL DUAL UPGRADE</b> ) ALSO FOR PONTOON        |
|               | 806-39319     | ASSY,CBL,4PIN FEM(EURO)-6 PIN MALE(IP67),12.5 INCH<br>(LED LIGHTS, EXTERNAL DUAL UPGRADE) ALSO FOR PONTOON               |



### BULKHEAD CONNECTORS

| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>                                          |
|---------------|---------------|-------------------------------------------------------------|
| 1             | 557-32200-1   | 6-PIN MALE, THREADED BULKHEAD CONNECTOR, BARE               |
| 4             | 557-30002     | CONN,W.R.,BHD,FEMALE,4SKT,22AWG,250V,4A,SS,0.5M,EUROFAST,UL |
| 5             | 557-30004     | CONN,W.R.,BHD,FEMALE BODY,18AWG,600V,9A,UL/CSA,3SKT W/LEADS |



## SINCON CABLE

### MAXIMUM REEL CAPACITY: CPR / MAINLINE REEL / WELL REEL

|                     | ARMORED SINCON 0.25" | ARIMAD SINCON 0.35" | MULTI-COND 0.412" |
|---------------------|----------------------|---------------------|-------------------|
| CPR                 | 1,000'               | 500'                | 500'              |
| CPR X-WIDE          | 1,500'               | 1,000'              | 1,000'            |
| M/L                 | 2,000'               | 1,000'              | 1,000'            |
| M/L X-WIDE          | 3,000'               | 1,500'              | 1,500'            |
| CONSULT FACTORY FOR | >3,000'              |                     |                   |
| WELL REEL           | 2,000'               | 1,000'              | 1,000'            |

### ASSEMBLIES, TERMINATED BOTH ENDS

#### 3-PIN (BULLET) SCREW-ON W/ 3 CONDUCTOR CONNECTOR

806-31520 ASSY, SINCON, ARMORED, 500'  
 806-31521 ASSY, SINCON, ARMORED, 1000'  
 806-31522 ASSY, SINCON, ARMORED, 1500'  
 806-31523 ASSY, SINCON, ARMORED, 2000'

### SINCON CABLE ONLY (AVAILABLE IN 500 FT INCREMENTS)

569-20283 SINGLE CONDUCTOR, SINCON, STEEL ARMORED, PER FOOT SINGLE

## PUSH REEL CABLE

### PUSH CABLE SOLD SEPERATELY (AVAILABLE IN 50 FT INCREMENTS)

569-17755-61 CBL, COAX, 20AWG, .25 FIBERGLASS, HYTREL JACKET, PER FOOT

#### CABLE ASSEMBLIES, TERMINATED, SPRING READY

806-32316 ASSY, CBL, PUSH, .25", 150'  
 806-32318 ASSY, CBL, PUSH, .25", 200'  
 806-32319 ASSY, CBL, PUSH, .25", 250'  
 806-32320 ASSY, CBL, PUSH, .25", 300'

## LATERAL LAUNCHER CABLE

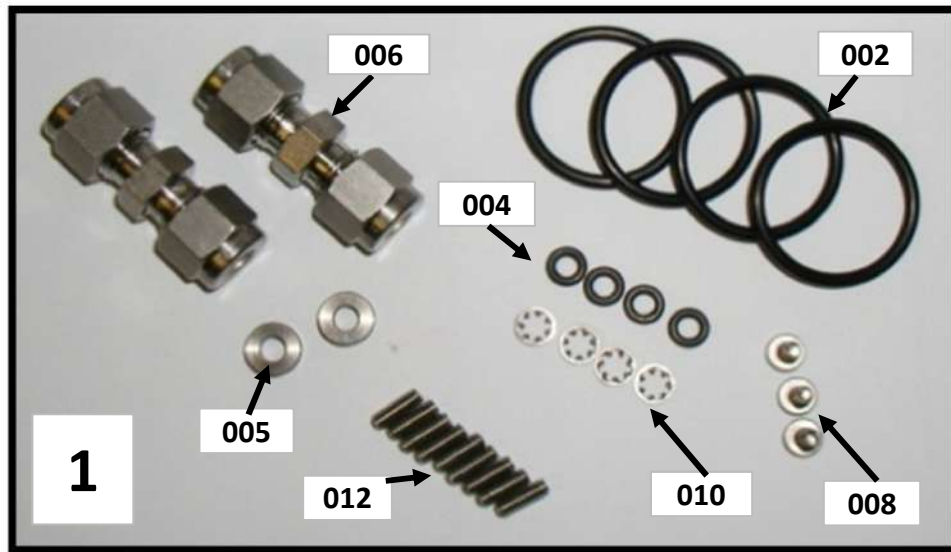
### LATERAL CABLE SOLD SEPERATELY (AVAILABLE IN 50 FT INCREMENTS)

569-39716-61 CBL, FAB, 20AWG, FIBERGLASS, HYTREL JACKET, PER FOOT

| <u>PART #</u> | <u>DESCRIPTION</u>                  |               |
|---------------|-------------------------------------|---------------|
| 806-38136     | CBL, <u>WITH</u> CAMERA TERMINATION | <b>100 FT</b> |
| 806-38136-1   | CBL, <u>W/O</u> CAMERA TERMINATION  | <b>100 FT</b> |
| 806-38136-150 | CBL, <u>WITH</u> CAMERA TERMINATION | <b>150 FT</b> |
| 806-38136-200 | CBL, <u>WITH</u> CAMERA TERMINATION | <b>200 FT</b> |

# BULLET KITS AND ACCESSORIES

| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                             | <u>QTY</u> |
|---------------|------------------|------------------------------------------------|------------|
| <b>1</b>      | <b>841-31914</b> | KIT, COMPRESSION FITTING, BULLET RETERMINATION | COMP KIT   |
| <b>002</b>    | 439-30423        | O-RING,BUNA,120                                | 4          |
| <b>004</b>    | 439-17127        | O-RING,BUNA,007                                | 4          |
| <b>005</b>    | 403-30421        | SPACER,0.171ID X .375 OD X .125THICK,SS        | 2          |
| <b>006</b>    | 602-30422        | FITTING,COMPRESSION,UNION,1/4",316 SS          | 2          |
| <b>008</b>    | 301-12184        | MSCR,PAN,PHH,6-32X.31 SS                       | 3          |
| <b>010</b>    | 318-14614        | WASHER,LKG,#6,INT TOOTH SS                     | 4          |
| <b>012</b>    | 301-19935        | MSCR,SHCS,6-32X.375, SS                        | 6          |
|               | 968-30426        | DRAWING INCLUDED IN KIT                        | 1          |
|               | 970-30904        | INSTRUCTIONS INCLUDED IN KIT                   | 1          |



# BULLET KITS AND ACCESSORIES

| ITEM #   | PART #           | DESCRIPTION                                    | QTY<br>COMP<br>KIT |
|----------|------------------|------------------------------------------------|--------------------|
| <b>1</b> | <b>841-31486</b> | KIT - 6 PIN FEMALE TO 3 PIN MALE               |                    |
| 001      | 867-31751        | ASSY, BULLETT TERMINAL, REMOVABLE PIGTAIL      | 1                  |
| 020      | 450-32403        | PROTECTOR SLEEVE (DELRIN) (ITEM 3 BELOW)       | 1                  |
| 002      | 806-40192        | ASSY, CBL, 3-PIN MALE / 6-PIN FEMALE, .4M LONG | 1                  |
| 005      | 970-30904        | INSTALL. INSTRUCTION MANUAL                    | 1                  |
| 004      | 968-30426        | BULLET ASSY. DRAWING                           | 1                  |
| 003      | 634-10347        | 1/16" ALLEN WRENCH                             | 1                  |
| 021      | 301-19935        | MSCR,SHCS,6-32X.375, SS                        | 3                  |



| ITEM #   | PART #           | DESCRIPTION                               |
|----------|------------------|-------------------------------------------|
| <b>2</b> | <b>867-31751</b> | ASSY, BULLET TERMINAL, REMOVEABLE PIGTAIL |
|          | 557-13605        | CAP ONLY                                  |



| ITEM #   | PART #           | DESCRIPTION                          |
|----------|------------------|--------------------------------------|
| <b>3</b> | <b>807-31639</b> | PROTECTOR DELRIN SKID WITH HARDWARE  |
|          | 450-32403        | SLEEVE, DELRIN SKID, BULLET, 2" O.D. |
|          | 301-19935        | MSCR, SHCS, 6-32 X 0.375 SS          |

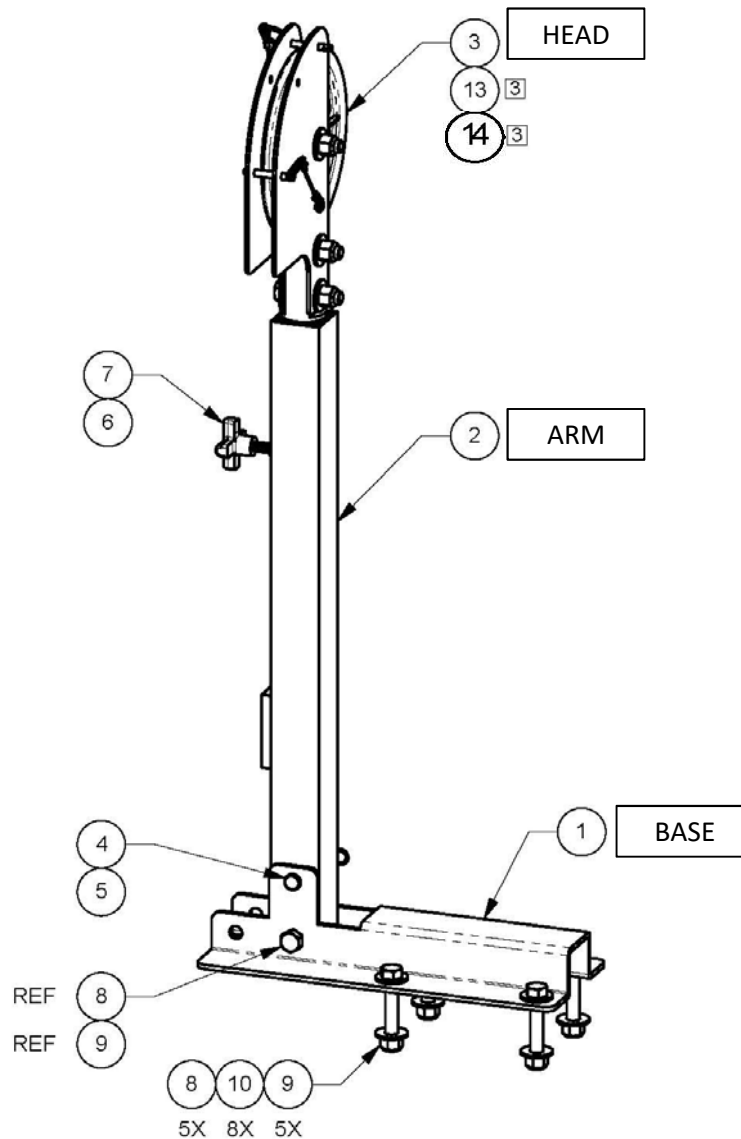


# RECHARGE KIT



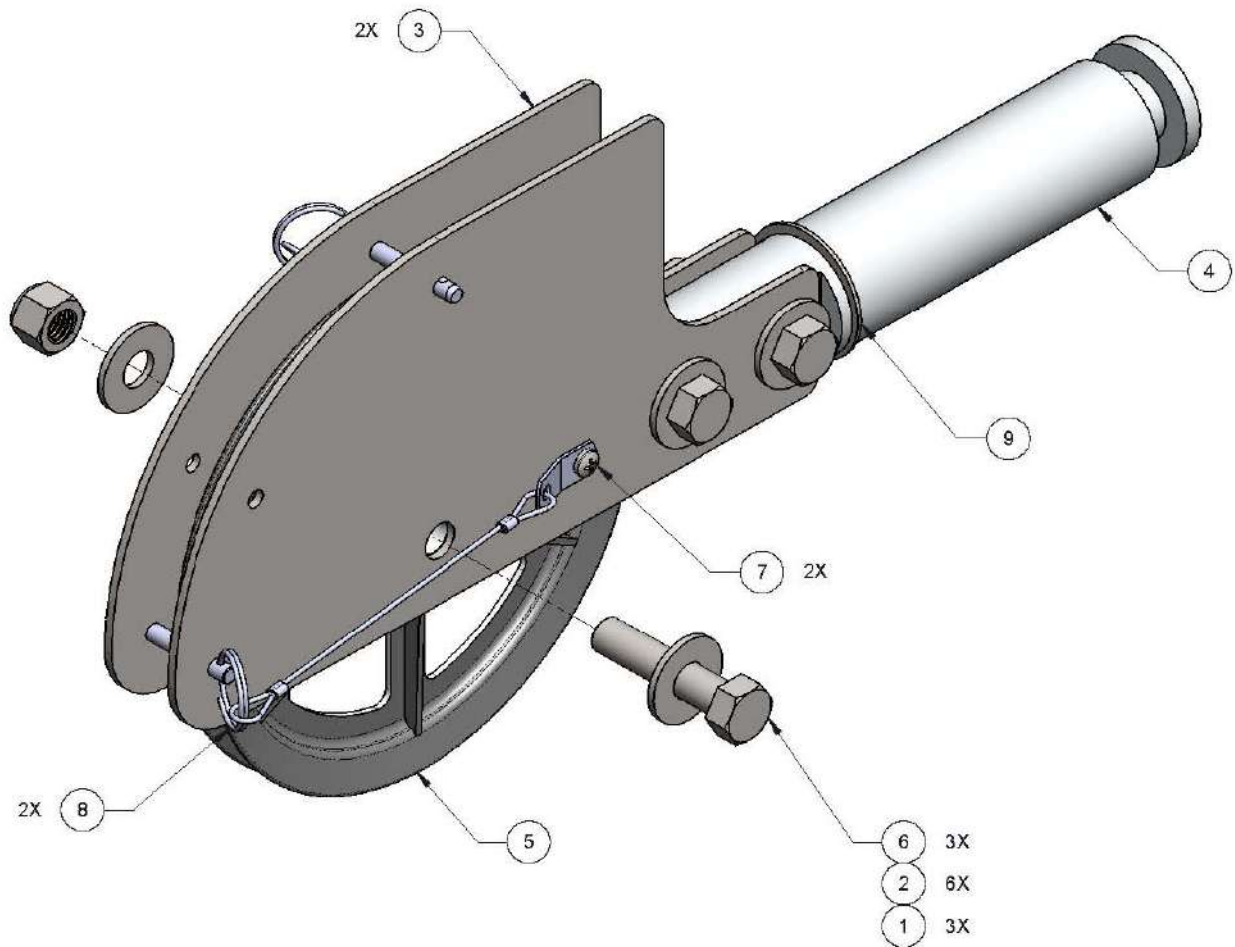
| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                       | <u>QTY</u>      |
|---------------|------------------|------------------------------------------|-----------------|
|               | <b>840-35012</b> | RECHARGE KIT (ALL 3 ITEMS)               | <b>COMP KIT</b> |
| <b>1</b>      | 603-35024        | HOSE, 800 PSI, 1/4" FEMALE CONNECTOR     | 1               |
| <b>2</b>      | 566-35083        | REGULATOR, TWO GAUGE, 0-30 PSI, NITROGEN | 1               |
| <b>3</b>      | 633-35020        | PORTABLE STAND                           | 1               |

# ARTICULATING ARM



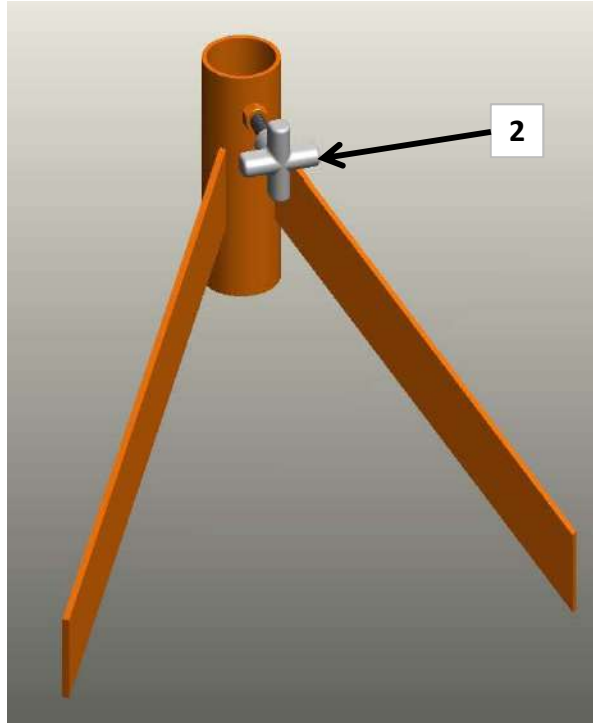
| ITEM # | PART #           | DESCRIPTION                                                    |
|--------|------------------|----------------------------------------------------------------|
|        | <b>867-32615</b> | ENTIRE ASSEMBLY                                                |
| 1      | 451-39831        | BASE,ARTICULATED CBL GUIDE                                     |
| 2      | 800-20678-31     | ASSY,ARM,ARTICULATED CBL GUIDE,RST SILVER                      |
| 3      | 867-32400        | HEAD ASSY - <b>DWG &amp; BREAKDOWN NEXT PAGE</b>               |
| 4      | 400-20660        | PIN,CLEVIS,.5" DIA X 2.75" L STEEL                             |
| 5      | 400-20659        | PIN,COTTER,HAIRPIN STYLE,.375"->.75"SHAFT,.093 WIRE            |
| 6      | 304-13517        | SSCR,CUP PT,HXS,3/8-16X2.50 STLBLX                             |
| 7      | 447-10073        | KNOB,CAST IRON,3/8-16,2.0DIA,1.12H,CAD PLATED                  |
| 8      | 300-10533        | MSCR,HEXHD,1/2-13X3 ZINC                                       |
| 9      | 308-13860        | NUT,HEX,1/2-13,NYLOCK ZINC                                     |
| 10     | 315-12364        | WASHER,FLT,1/2 ZINC                                            |
| 13     | 867-34001        | HEAD ASSY, GUIDE ROLLER,ARTICULATING, <b>MC</b> CABLE          |
| 14     | 867-21720        | HEAD ASSY, GUIDE ROLLER, <b>HI LOAD CAPACITY</b> ,ARTICULATING |

# ARTICULATING ARM HEAD ASSEMBLY



| ITEM # | PART #       | DESCRIPTION                                               |
|--------|--------------|-----------------------------------------------------------|
|        | 867-32400    | <b><u>ENTIRE ASSEMBLY</u></b>                             |
| 1      | 308-13860    | NUT,HEX, 12-13, NYLOCK ZINC                               |
| 2      | 315-12364    | WASHER, FLT, 1/2 ZINC                                     |
| 3      | 453-30498    | PLATE, SIDE, GUIDE ROLLER, ARTICULATING ARM               |
| 4      | 407-34230-21 | SHAFT, PIVOT, GUIDE, CABLE                                |
| 5      | 440-32401    | PULLEY, IDLER, V-BELT, 5" W x 7.5" OD, W/BEARING & SPACER |
| 6      | 301-34167    | MSCR, HEX HD, 1/2-13 x 2.25 ZINC                          |
| 7      | 301-13799    | MSCR, PAN, PHH, 10-32 x .25 SS                            |
| 8      | 400-32402    | PIN, QUICK RELEASE, SELF LOCK                             |
| 9      | 410-34253    | SNAP RING, 1-3/4"                                         |

## DOWNHOLE ROLLER MANHOLE HOOK & POLES

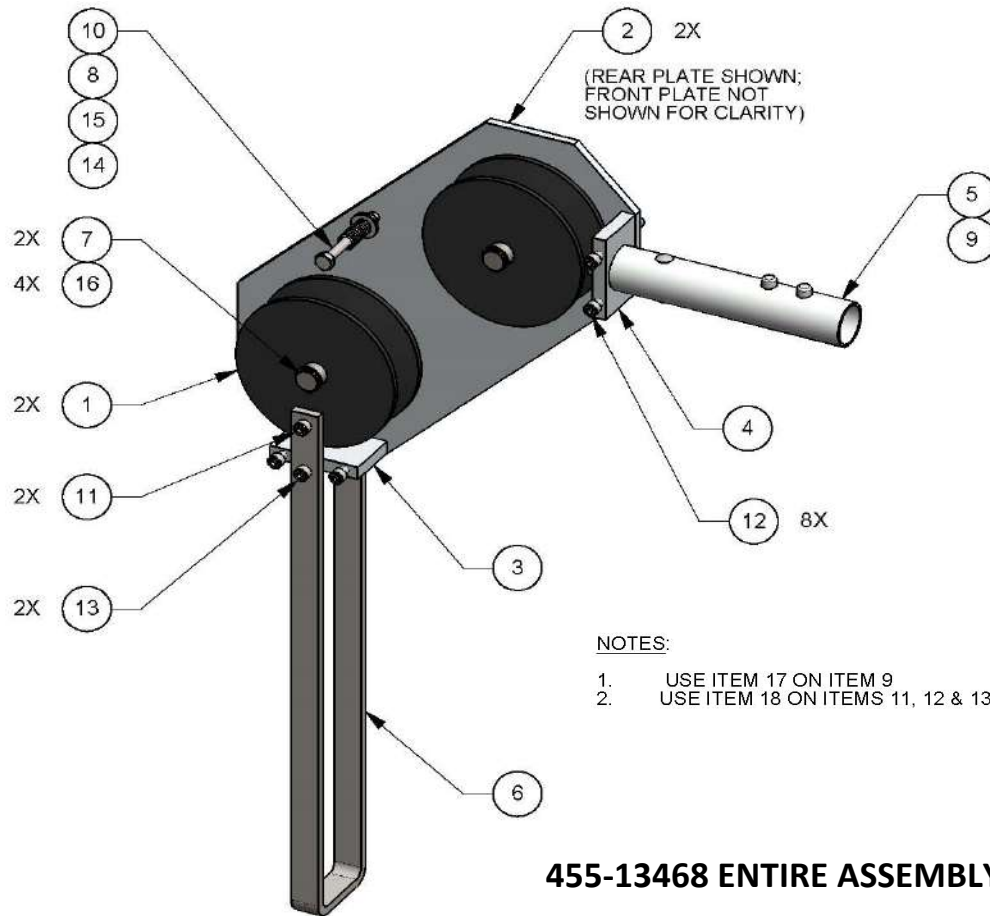


| <u>ITEM #</u> | <u>PART #</u> | <u>DESCRIPTION</u>             |
|---------------|---------------|--------------------------------|
|               | 867-21355     | MANHOLE HOOK COMPLETE ASSEMBLY |
| <b>2</b>      | 805-12527     | DRAG BRAKE KNOB & SHAFT        |



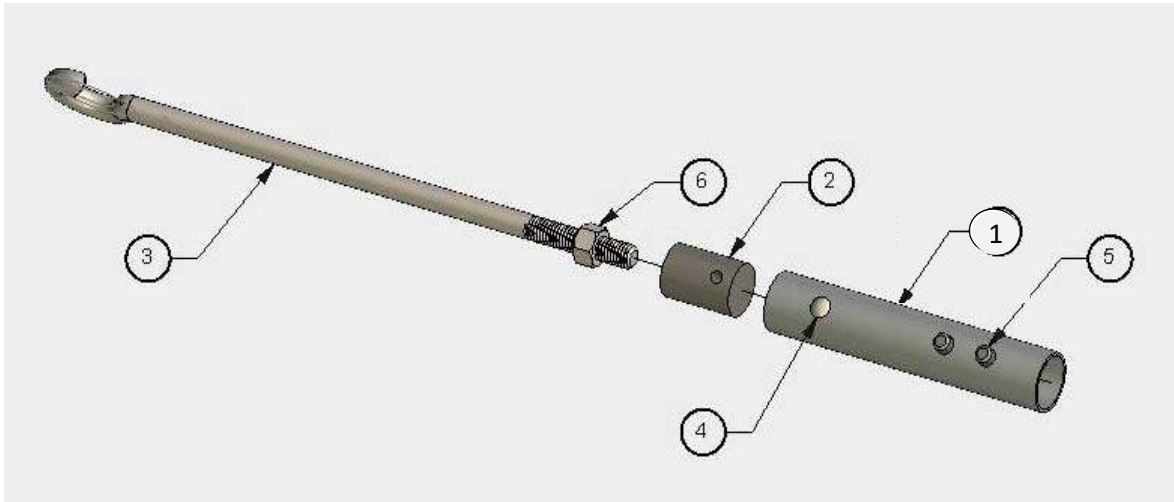
| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                        | <u>QTY</u> |
|---------------|------------------|-------------------------------------------|------------|
|               | <b>867-18552</b> | COMPLETE DOWNHOLE POLE (60")              | COMP       |
| <b>2</b>      | 405-15873-31     | SLEEVE, INTERLOCKING                      | 1          |
| <b>3</b>      | 401-12481        | RIVET, 1/4 X 1-5/8 X 7/16 STEEL           | 1          |
| <b>4</b>      | 447-15944        | SNAP BUTTON LATCH, DUAL, ZINC PLATE STEEL | 1          |

# DOWNHOLE ROLLER DOUBLE ROLLER ASSEMBLY



| ITEM # | PART #       | DESCRIPTION                               |
|--------|--------------|-------------------------------------------|
| 1      | 449-15325    | GUIDE ROLLER, POLYURETHANE                |
| 2      | 453-10552    | PLATE,SIDE,DOUBLE ROLLER                  |
| 3      | 453-11080    | PLATE,CORNER,Hoop END                     |
| 4      | 453-11139    | PLATE,CORNER,STEM END                     |
| 5      | 867-20890    | ASSY,POLE,INTERLOCKING,PUSH BUTTON,6.5 IN |
| 6      | 451-11198-40 | BLOCK,SUPPORT,PINON BEARING,OUTER         |
| 7      | 407-10187    | AXLE,INVERT ROLLER                        |
| 8      | 446-16853    | SPRING,COMPRESS,2-1/8"L,4.3LBS,STL/ZNC    |
| 9      | 300-10415    | MSCR,HEXHD,1/2-13X1,GRD5 ZINC             |
| 10     | 300-15253    | MSCR,HEXHD,1/4-20X3,GRD 5 ZINC            |
| 11     | 301-10651    | MSCR,SHCS,1/4-20X.50 SS                   |
| 12     | 301-11005    | MSCR,SHCS,1/4-20X.62 SS                   |
| 13     | 301-15608    | MSCR,SHCS,1/4-20X.87 SS                   |
| 14     | 309-13632    | NUT,HEX,1/14-20,NYLOCK SS                 |
| 15     | 315-11304    | WASHER,FLT,.25,SAE ZINC                   |
| 16     | 410-13006    | RING,SNAP,EXT,.625                        |
| 17     | 630-14595    | ADH,LOCTITE,271,HIGH STRENGTH(RED),50ML   |
| 18     | 630-16979    | ADH,LOCTITE,222,REMOVABLE,(PURPLE) 50ML   |

# DOWNHOLE ROLLER GRAB HOOK ASSEMBLY



| <u>ITEM #</u> | <u>PART #</u>    | <u>DESCRIPTION</u>                                                      | <u>QTY</u> |
|---------------|------------------|-------------------------------------------------------------------------|------------|
|               | <b>867-12371</b> | COMPLETE ASSEMBLY - GRAB HOOK                                           | COMP       |
| 1             | 455-15956-22     | POLE,INTERLOCKING,PSH BTTN,6.5",CLR GALVANIZE OR NICKEI                 | 1          |
| 2             | 409-16902        | INSERT,POLE END,THREADED,DOWNHOLE EQUIP                                 | 1          |
| 3             | 444-12603        | HOOK,GRAB                                                               | 1          |
| 4             | 401-17760        | RIVET,SEMI TUBULAR,.25X1.375X7/16,STEEL                                 | 1          |
| 5             | 447-15944        | SNAP BUTTON,DUAL TYPE, ZINC PLATE STEEL                                 | 1          |
| 6             | 308-12943        | NUT,HEX,1/2-13 ZINC                                                     | 1          |
|               | 630-14595        | LOCTITE, 271, HIGH STRENGTH (RED), 50ML <b><u>(SOLD SEPARATELY)</u></b> |            |



|           |                                   |
|-----------|-----------------------------------|
| 867-15975 | LOWERING ROPE WITH D-RING (28 FT) |
| 444-17233 | D-RING                            |

Thank you for choosing

