



Inspection Systems Parts Manual 2018



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EQUIPMENT IDENTIFICATION ASSISTANCE



1306

SERIAL NUMBERS START WITH
C3E



15XX SERIES

SERIAL NUMBERS START WITH
C3J / C3K / C3N / C3S



TRAKSTAR (RECTANGLE BODY)

SERIAL NUMBERS START WITH
C1C2 / C7B



TRAKSTAR II (SHORT SQUARE BODY)

SERIAL NUMBERS START WITH
C1E2



OMNISTAR PROBE

SERIAL NUMBERS START WITH
C1A2

EQUIPMENT IDENTIFICATION ASSISTANCE



PUSH REEL
R3A / R3B / R3C / R3D



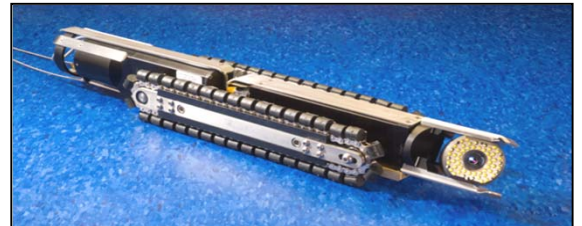
COMPACT PORTABLE REEL
R2E / R2J / R2K / R2L



MAINLINE CABLE REEL
R1A / R1B / R1C / R1D



6" & 8" CRAWLERS
SERIAL NUMBERS START WITH
D6A / D6B / D6C



PROTRAK
SERIAL NUMBERS START WITH
D6E / D6F



LATERAL LAUNCHER GEN 2
SERIAL NUMBERS START WITH
ZOOM CAMERA = C2D2
TRANSPORTER = D6M
MINI CAMERA = C3S

EQUIPMENT IDENTIFICATION ASSISTANCE



TRANSTAR

SERIAL NUMBERS START WITH
T8N / T8S / T9N / T9S / T9T / V2A



TRANSTAR II (SHORT BODY)

SERIAL NUMBERS START WITH
T9U



STORM DRAIN TRACTOR

SERIAL NUMBERS START WITH
D2A



MINI TRACTOR

SERIAL NUMBERS START WITH
D3B



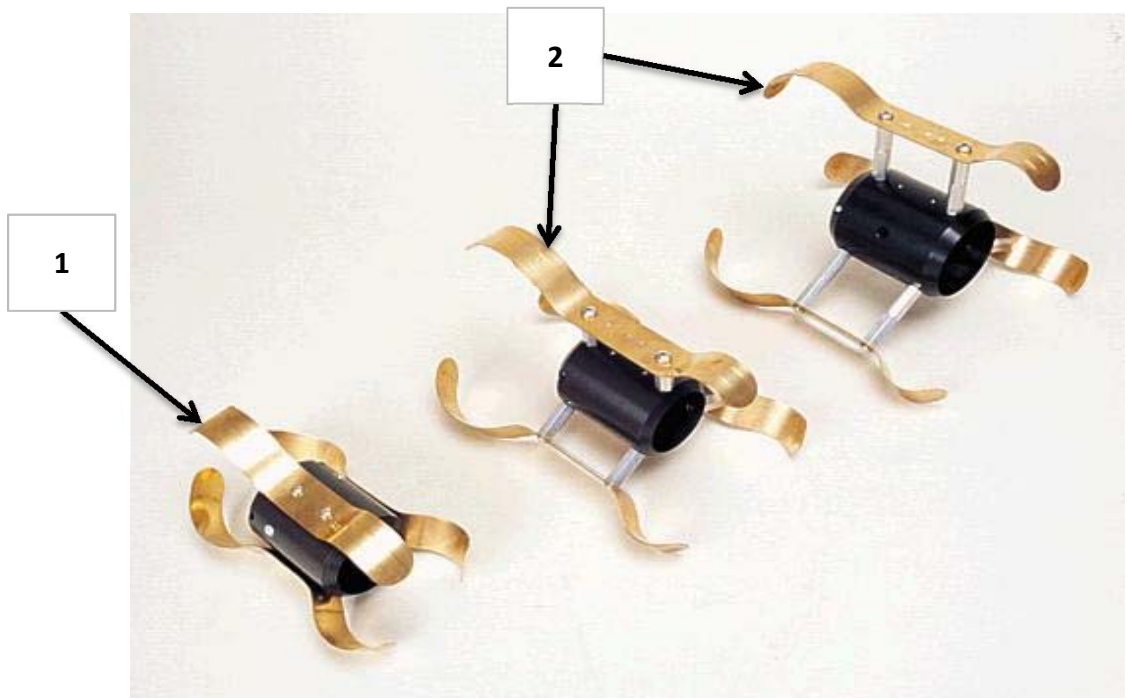
CONTROLLERS

SERIAL NUMBERS START WITH
MAINLINE = P1A / PIB / P1C / P1D / P1E / P1F
DESKTOP = T1G / T1H
HAND HELD = T4B
JOYSTICK = T1M

MINI CAMERA REPLACEMENT PARTS

SKID KITS AND REPLACEMENT PARTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	305-13745	BODY MOUNTING SCREW, 4-40 X. 188L,SS (1202/1302/1306)
	807-13300	KIT, SKIDS, 4" -10" 1201/1202 & 1301/02/06 SERIES CAMS (INCLUDES BRONZE GUIDES & EXTENSIONS)
	807-17113	EXTENSIONS, 1", EACH
	807-19075	KIT, SKIDS, 4" – 8" 1207/1307/1402 SERIES CAMERAS (INCLUDES BRONZE GUIDES & EXTENSIONS)
	807-19075-1	KIT,SKID,4"-8" PIPE, 1230 (FOR 1230 CAMERAS NEEDING ADAPTER)
	807-36425	KIT, SKID, 4" - 8" WITH SLEEVE (FOR 1545 CAMERA)
	450-36426	1545, SKID SLEEVE ONLY
1	840-14200	<u>SMALL</u> PHOSPHOR-BRONZE SKIDS KIT, (<u>2 HOLE</u>) 3 PER PKG W/SCREWS
2	840-14258	<u>LARGE</u> PHOSPHOR-BRONZE SKID KIT, (<u>4-HOLE</u>) 3 PER PKG W/SCREWS
	840-15503	EXTENSIONS, MINI CAMERA SLEEVES, QTY 18, 1" EXTENSIONS (1200 & 1300 <u>ONLY</u>)
	840-32500	ADAPTER KIT, 1300 CAMERA TO 6-PIN SCREW-ON FOR MOUNTING TO MAINLINE TRANSPORTER OR SKIDS (OEII CRADLE, ONLY)



MINI CAMERA REPLACEMENT PARTS

SKID SLEEVES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	450-13813-21	ANODIZED ALUMINUM CAMERA SLEEVE FOR 1200 & 1300 SERIES
	301-11653	HARDWARE, 3 PER REQUIRED



DIMENSIONS

2.28" I.D.

3.4" L

450-15031	PROTECTIVE SLEEVE (DELIN) FOR 1200 & 1300 SERIES EXCEPT 1302
301-11653	HARDWARE, 3 PER REQUIRED



DIMENSIONS

2.28" I.D.

1.9" L

450-15090	PROTECTIVE SLEEVE (DELIN) FOR 1302 ONLY
301-11653	HARDWARE, 3 PER REQUIRED



DIMENSIONS

2.28" I.D.

3.45" L

450-32404-21	ANODIZED ALUMINUM CAMERA SLEEVE FOR 123X & 153X
301-11122	HARDWARE, 3 PER REQUIRED



DIMENSIONS

1.33" I.D.

2.75" O.D.

3.4" L

MINI CAMERA REPLACEMENT PARTS

SKID SLEEVES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	450-32405	PROTECTIVE SLEEVE (DELIN) FOR 1230 CAMERA
	301-10827	HARDWARE, 3 PER REQUIRED



DIMENSIONS

1.33" I.D.
2.25" O.D.
1.75" L

450-32433	PROTECTIVE SLEEVE (DELIN) FOR 1235/153X CAMERA
301-10827	HARDWARE, 3 PER REQUIRED



MENSIONS

1.33" I.D.
2.25" O.D.
2.17" L

450-36082	PROTECTIVE SLEEVE (DELIN) 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, <u>SONDE INCLUDED (USE WITH C3S ONLY)</u>
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



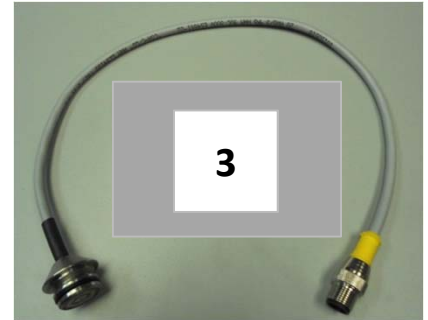
MINI CAMERAS CONTINUED

WINDOWS, LENS LAMPS, AND LAMP KITS

ITEM #	PART #	DESCRIPTION
	541-10503	LAMP ONLY #719, XENON QTY 1 (1202/1302/1306)
	541-20963	LAMP ONLY T1-1/2, EACH (1207/1307/1306B)
	840-10116	LENS WINDOW KIT (1201/1202/1301/1302/1306)
	840-17770	LENS ASSY FOR 1202/1302
	841-11945	KIT, LAMP #719 WITH 4 LAMPS (1202, 1302, 1306)

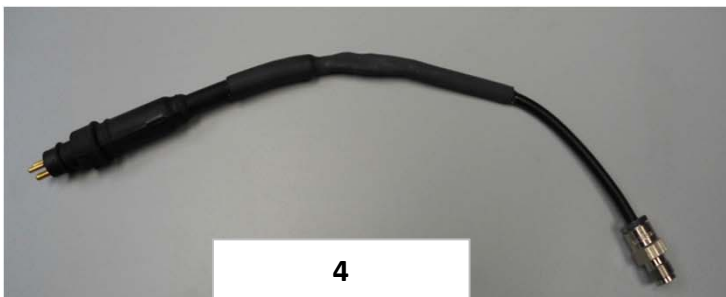
TAIL ASSEMBLIES & CABLES

1	867-19067	TAIL ASSY, PLUG, SPRING, & BALLS, TNC REMOVABLE (123X/153X)
2	867-19070	TAIL ASSY, REMOVABLE, PLUG, PHENOLIC BALLS, TNC (12/1302/06)
	867-21106	TAIL ASSY, PLUG, MINI TRACTOR, TNC JACK
3	867-33048	TAIL ASSY, PLUG, MINI TRACTOR, 4 PIN EUORFAST - 1300 SERIES ONLY



CABLES & CONNECTORS

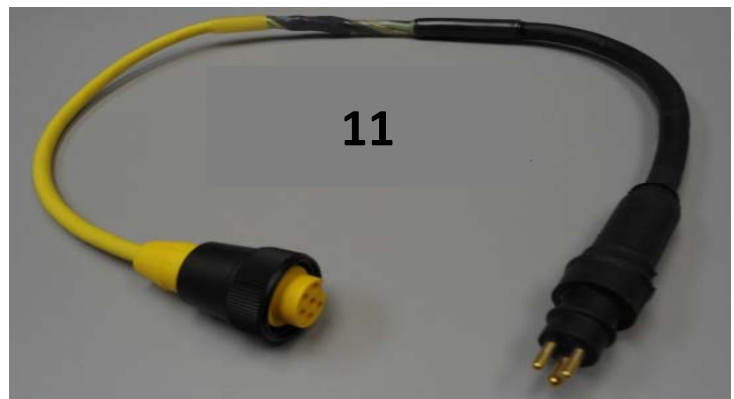
4	560-16073	ADAPTER CABLE, MINI TRACTOR TO MAINLINE REEL TNC – 3-PIN PIGTAIL (MALE)
5	705-14818	TEST CABLE, MINI SYSTEM TO MINI CAMERA, Np to TNCj



MINI CAMERAS CONTINUED

CABLES & CONNECTORS CONTINUED

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
8	806-10586	3-PIN MALE – PUSH-ON BULLET CABLE TO BULLET (1300 CAMERAS TO MAINLINE REEL)
9	806-10704	INTERCONNECT CABLE, 3-PIN MALE PIGTAIL, N-JACK (MAINLINE REEL TO PUSH CABLE REEL ADAPTER)
10	806-10822	ADAPTER CABLE, 1300 TO MAINLINE TRACTOR TNCp – 3-PIN TNCj W/FILTER
11	806-19576	ASSY, CBL 6-PIN (F) TURCK TO 3-PIN (M) PUSH ON



MINI CAMERAS CONTINUED

MISC PARTS & KITS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	633-12289	FOCUS ADJUSTMENT TOOL (1202/1302/1306)

12



12

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-10706	CAMERA TRACTOR MOUNTING KIT, ADAPTER, 1302/1306 CAMERA-MAINLINE EQUIPMENT INCLUDES:
13	450-13927-21	TUBE, SLEEVE, ALUM, 15"L, ANODIZED
14	840-19446	ADAPTER TUBE MOUNTING HARDWARE KIT
15	806-10409	CBL, MINI CAMERA TO TRACTOR (TNCj/3 PINm) WITH TONE FILTER

840-32500 KIT, ADPTR, 1302/6 CAM->6PIN SCREW-ON M/L EQUIP (TNC)

13	450-13927-21	TUBE, SLEEVE, ALUM, 15"L, ANODIZED
14	840-19446	ADAPTER TUBE MOUNTING HARDWARE KIT
16	806-32501	CBL, MINI CAMERA TO TRACTOR (TNCj/6 PINm) WITH TONE FILTER



13



14

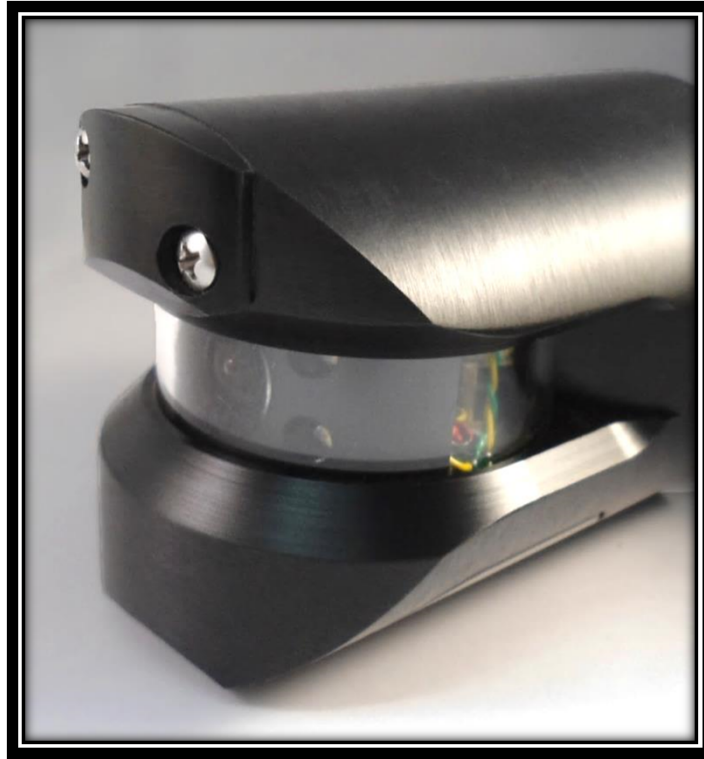


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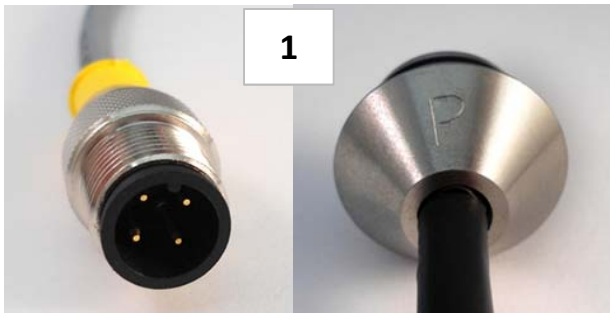


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OMNISTAR PROBE PAN & ROTATE CAMERA



<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. 121, MINI TRACTOR SECTION		



TRAKSTAR ZOOM CAMERA (RECTANGLE BODY) PARTS & ACCESSORIES

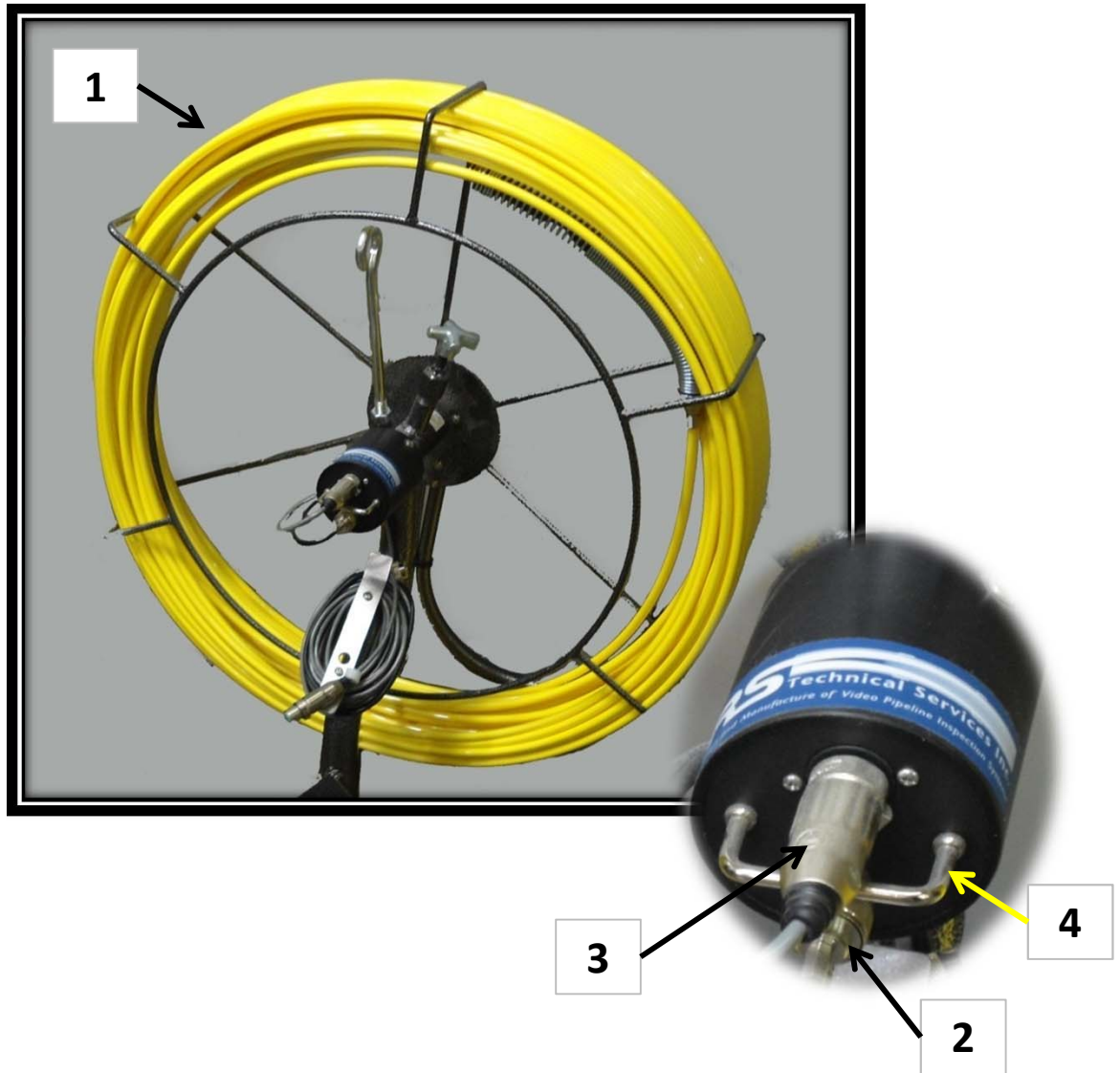


<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	301-13742	HARDWARE, <u>TOP BODY SKID</u>
	301-18853	HARDWARE, <u>FACE PLATE</u>
	439-37693	O-RING, <u>HARDWARE, FACE PLATE</u>
	439-34270	O-RING, <u>FACE PLATE & HEAD REAR COVER</u>
	450-37205	TOP BODY SKID
	549-17208	LENS WINDOW, SAPPHIRE
	802-38719	FACE PLATE, DUAL LED
	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, USE WITH PROTRAK CRAWLER (24" LONG)

TRAKSTAR II (SHORT RECTANGLE BODY)

450-38147	TOP BODY SKID
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PUSH REEL DIGITAL FOOTAGE COUNTER

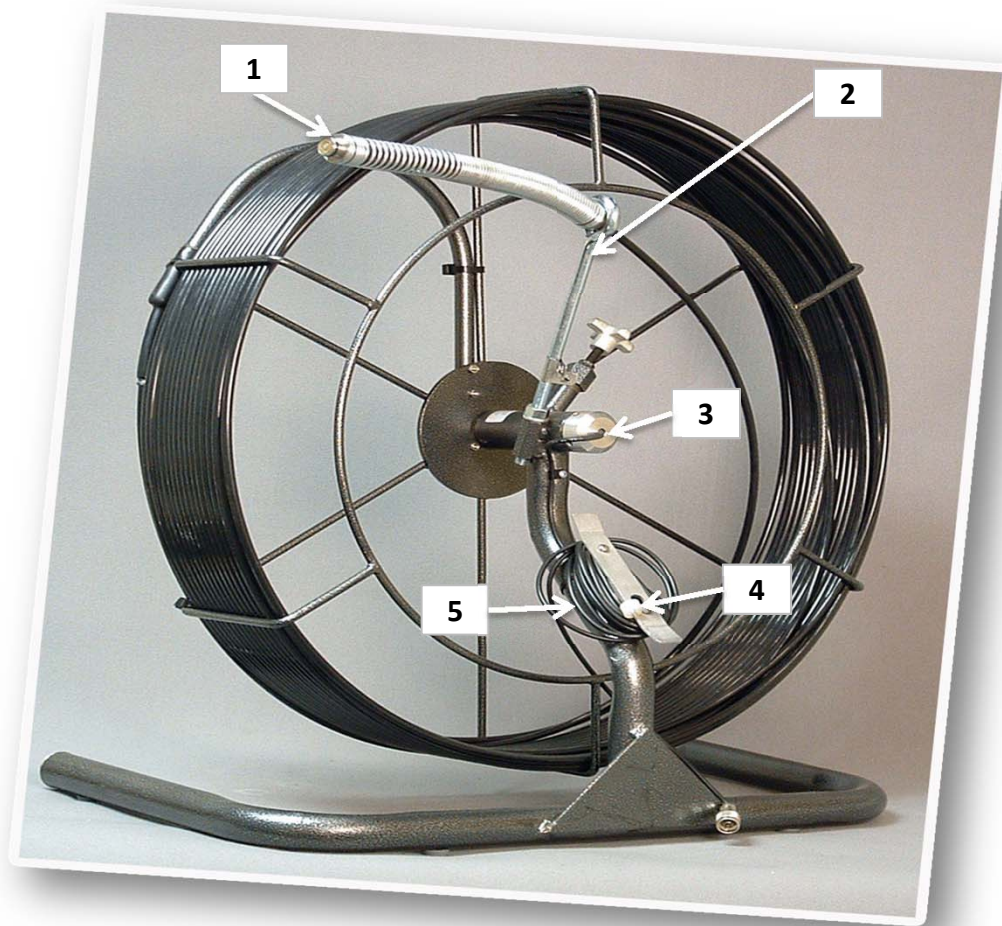


ITEM #	PART #	DESCRIPTION
1	569-17755-61	CBL,COAX,20AWG,.25 FIBERGLASS,HYTREL JACKET, <u>PRICED PER FOOT</u>
2	806-15999	CBL,N PLUG > N PLUG,12'
3	806-15660	CBL,FTG,4 PIN,PLUG F- PLUG F,13', FTG COUNTER TO OVERLAY
	806-36140	CBL, CAMERA PWR TO FTG, 1575

FACTORY UPGRADE AVAILABLE FOR YOUR EXISTING MECHANICAL COUNTER - CALL TO SCHEDULE TODAY!

	840-37761	KIT, DIGITALFOOTAGE COUNTER UPGRADE
4	447-37320	HANDLE

PUSH REEL MECHANICAL FOOTAGE COUNTER



ITEM #	PART #	DESCRIPTION
1	867-30469-2	SPRING COUPLER,W/SONDE,.19/.25"CABLE
2	305-10123	EYEBOLT, 1/2-13, 12", W/10" SHANK ZINC
3	452-11849	CAP, PUSH CABLE REEL, ALUMINUM
4	449-12315	CLAMP, CBL, 1/2", J CLIP, PLASTIC
5	806-11117	CABLE ASSEMBLY, CONTROLLER TO PUSH REEL SLIP RING
	446-30454	SPRING ONLY
052	806-15719	CABLE, 4 PIN, FOOTAGE COUNTER TO FTG OVERLAY



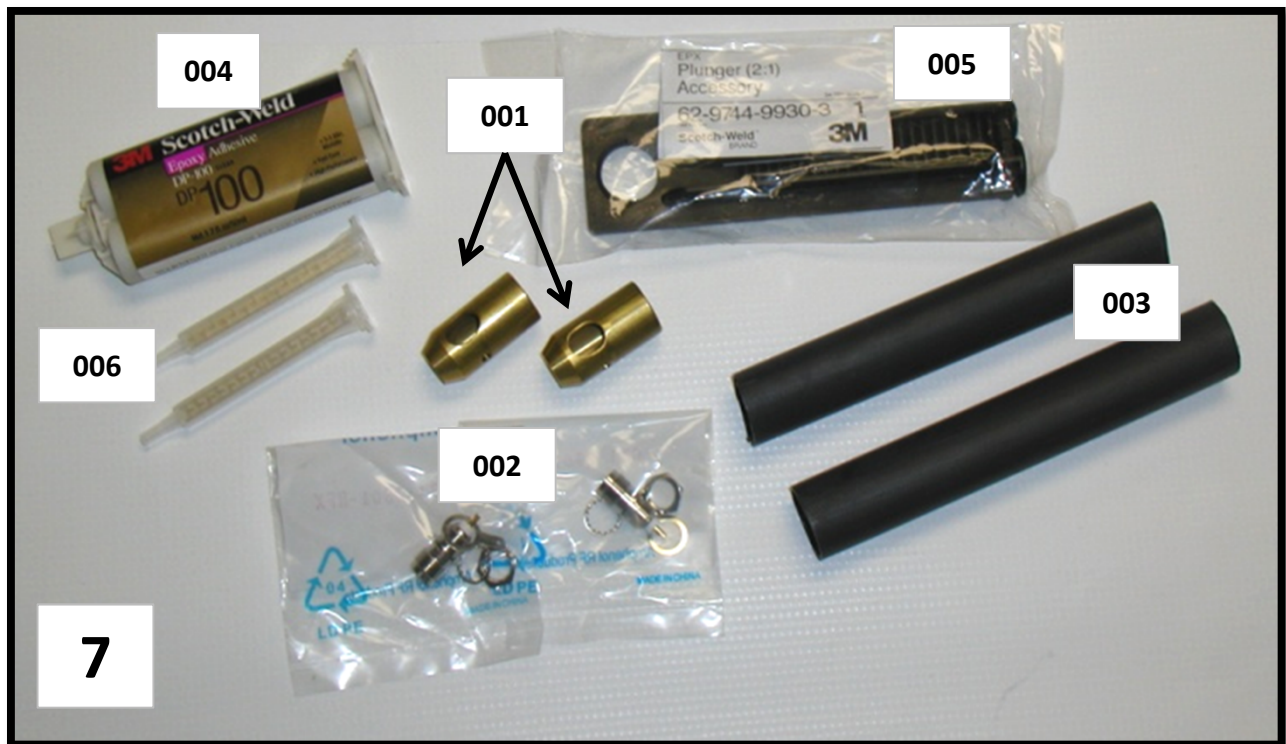
PUSH REEL

PUSH REEL REPLACEMENT PARTS (STANDARD PUSH REEL, ONLY) CONTINUED

ITEM #	PART #	DESCRIPTION
6	806-21296	CBL,ADAPTER,3PIN MALE TO Nj,2FT

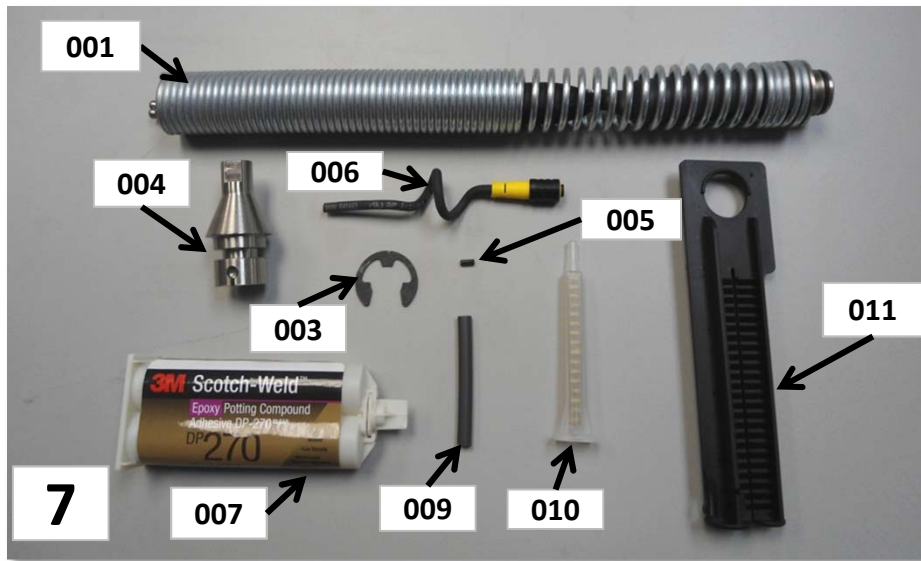


ITEM #	PART #	DESCRIPTION
7	841-11650	KIT,RETERMINATION, TNC ,.25" PUSH CABLE,2X
001	806-10836	ASSY,BULLET,CABLE TERMINATION W/TNC CONN
001	867-20475	ASSY,BULLET,0.25" PUSH CABLE
002	555-13944	CONN,TNC,JACK,PANEL MOUNT
003	632-18082	HEATSHRINK,0.75,HEAVY DUTY/MASTIC, 6" L
004	630-14364	EPOXY,DP100,TUBE 50 ML
005	630-18878	PLUNGER,EPOXY,2:1 RATIO,FOR 3M 50 ML APPLICATOR
006	633-14195	NOZZLE,MIXING,50 ML,SQUARE,SHORT (3M EPX PLUS II MIX NOZZLE)



PUSH REEL

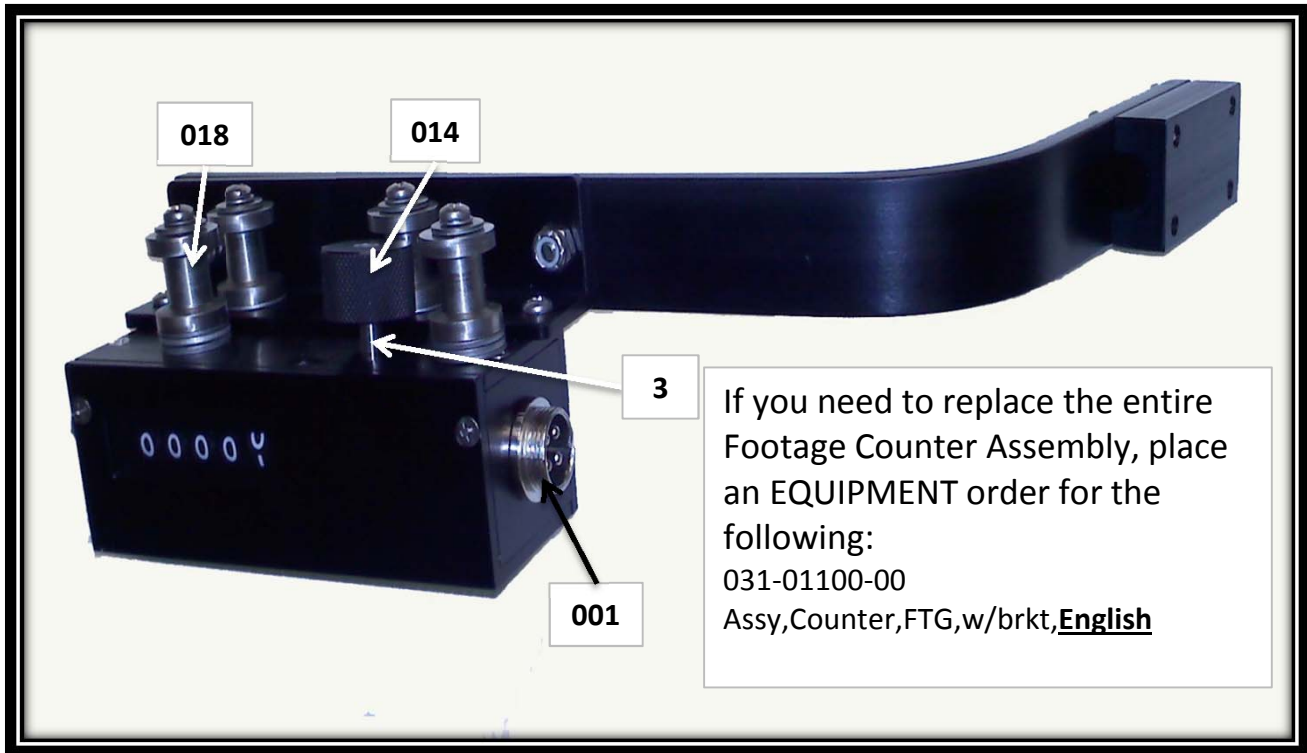
ITEM #	PART #	DESCRIPTION
7	841-33232	KIT COMPLETE <u>WITH 512 Hz SONDE</u>
7	841-37116	KIT COMPLETE <u>W/OUT SONDE</u>
001	867-30468-2	SPRING COUPLER,W/O SONDE,.25"CABLE (SPRING/CONN/CABLE)
	867-30469-2	SPRING COUPLER,W/SONDE,.19/.25"CABLE
003	410-30471	RING,RETAINING,EXT,RADIAL,.75" SHAFT (E-CLIP)
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



ITEM #	PART #	DESCRIPTION
9	867-30469-1	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

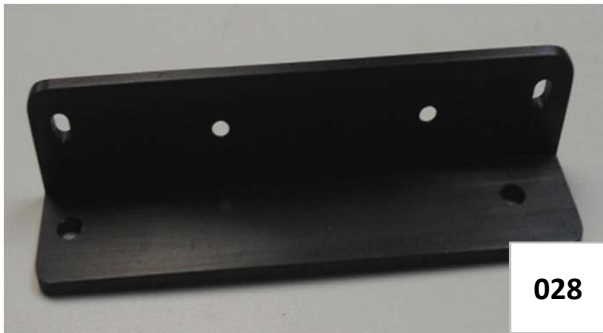


PUSH REEL FOOTAGE COUNTER - MECHANICAL ENGLISH



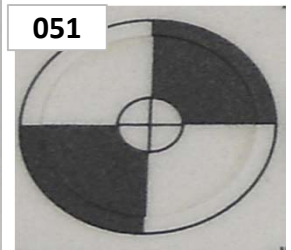
FOOTAGE COUNTER REPLACEMENT PARTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
001	806-10292	ASSY, HARNESS, INTERCONNECT, PCFC
	404-12308	BEARING,BALL,.500OD,.187BORE,SEALED .195 WIDE
	404-12772	BEARING,BALL,.625OD,.375BORE,.156W,DBL SHIELD
3	407-15855	SHAFT, FOOTAGE METER
014	443-14098-21	WHEEL, METERING, 2.4 IN/REV, HARD BLACK ANODIZED
018	443-15677	ROLLER, TOP GUIDE, P/C FOOTAGE METER
028	451-11138-21	BRKT, LOWER GUIDE, P/C FOOTAGE METER, SOFT BLACK ANODIZED
025	451-14161-21	CLAMP, MOUNTING PUSH CABLE FOOTAGE COUNTER



PUSH REEL FOOTAGE COUNTER - MECHANICAL ENGLISH

ITEM #	PART #	DESCRIPTION
020	451-14219-21	BRKT, SUPPORT, P/C FTG COUNTER SOFT BLACK. ANODIZED
002	453-12552-21	PLATE, END, RIGHT, P/C FTG METER, SOFT BLACK ANODIZED
009	453-14859-21	PLATE, END, LEFT, P/C FTG METER, SOFT BLACK ANODIZED
007	453-21036-21	COVER, FRONT/BOTTOM, SOFT BLACK ANODIZED
051	540-13026	TARGET, ENCODER, PCFC, ENGLISH
053	861-16860	PCB, MINI FOOTAGE ENCODER
012	867-21038	COUNTER, PLASTIC HSG, MOD, P/C FTG CNTR



PUSH REEL FOOTAGE COUNTER - MECHANICAL METRIC



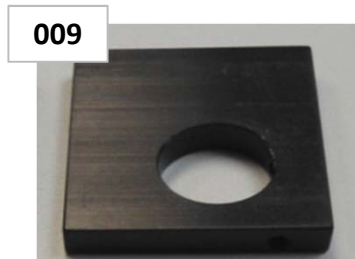
FOOTAGE COUNTER REPLACEMENT PARTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
001	806-18571	ASSY, HARNESS, INTERCONNECT, PCFC
	404-12308	BEARING,BALL,.500OD,.187BORE,SEALED .195 WIDE
	404-12772	BEARING,BALL,.625OD,.375BORE,.156W,DBL SHIELD
3	407-15855	SHAFT, FOOTAGE METER
014	443-11252-21	WHEEL,METERING, 0.1M/REV HARD BLACK ANODIZE
018	443-15677	ROLLER, TOP GUIDE, P/C FOOTAGE METER
028	451-17854-21	BRKT, LOWER GUIDE, P/C FOOTAGE METER, SOFT BLACK ANODIZED
025	451-14161-21	CLAMP, MOUNTING PUSH CABLE FOOTAGE COUNTER

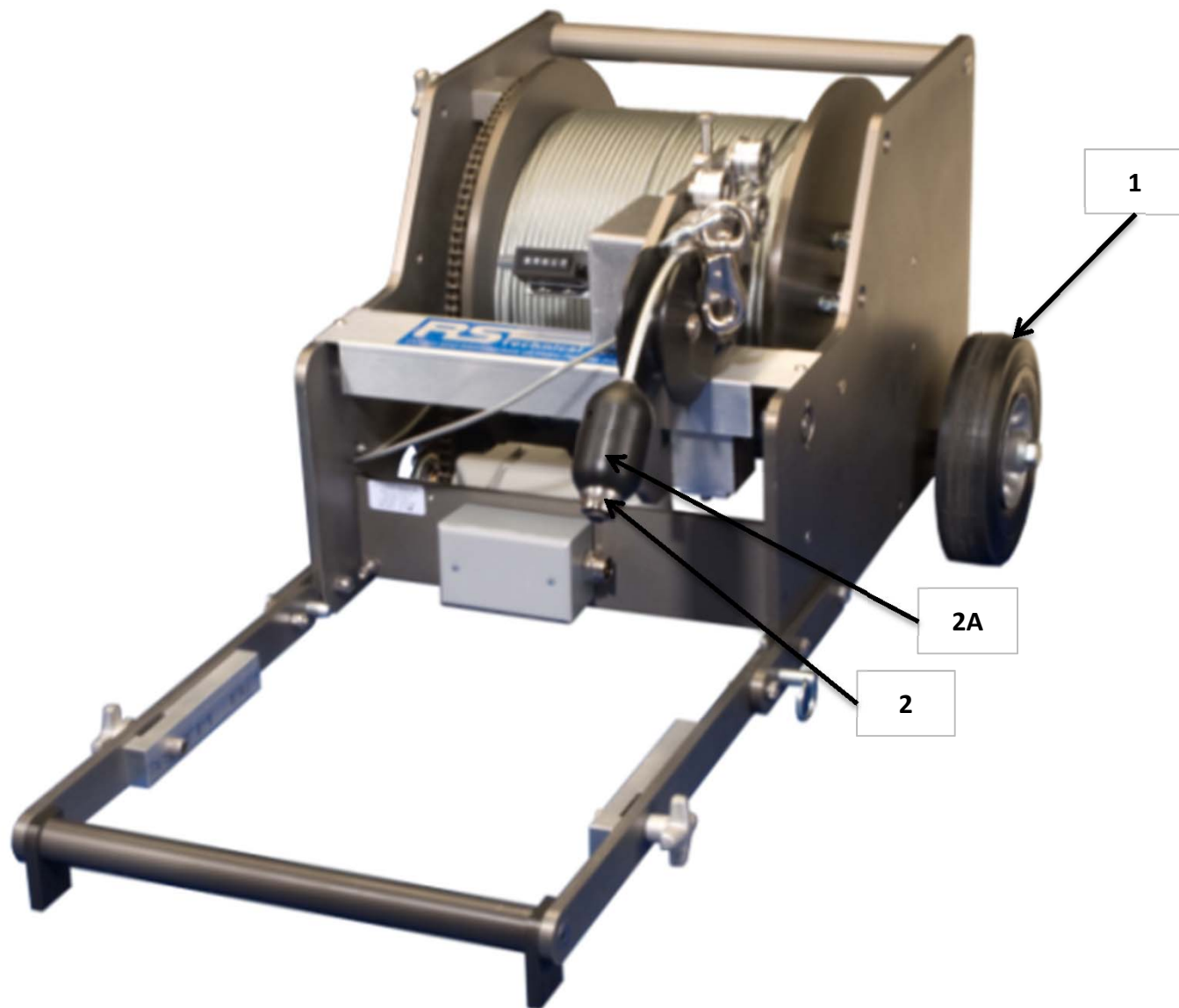


PUSH REEL FOOTAGE COUNTER - MECHANICAL METRIC

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
020	451-14219-21	BRKT, SUPPORT, P/C FTG COUNTER SOFT BLACK. ANODIZED
002	453-12552-21	PLATE, END, RIGHT , P/C FTG METER, SOFT BLACK ANODIZED
009	453-14859-21	PLATE, END, LEFT , P/C FTG METER, SOFT BLACK ANODIZED
007	453-21036-21	COVER, FRONT/BOTTOM, SOFT BLACK ANODIZED
	540-17420	TARGET, ENCODER, PCFC, METRIC (NOT PICTURED)
052	806-15719	CABLE, 4 PIN, FOOTAGE COUNTER TO FTG OVERLAY
053	861-16860	PCB, MINI FOOTAGE ENCODER
012	867-13399	COUNTER, PLASTIC HSG, MOD, P/C FTG CNTR



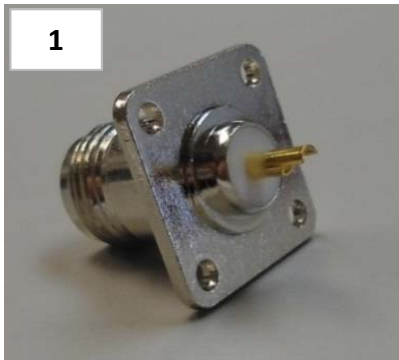
COMPACT PORTABLE REEL (CPR)



<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

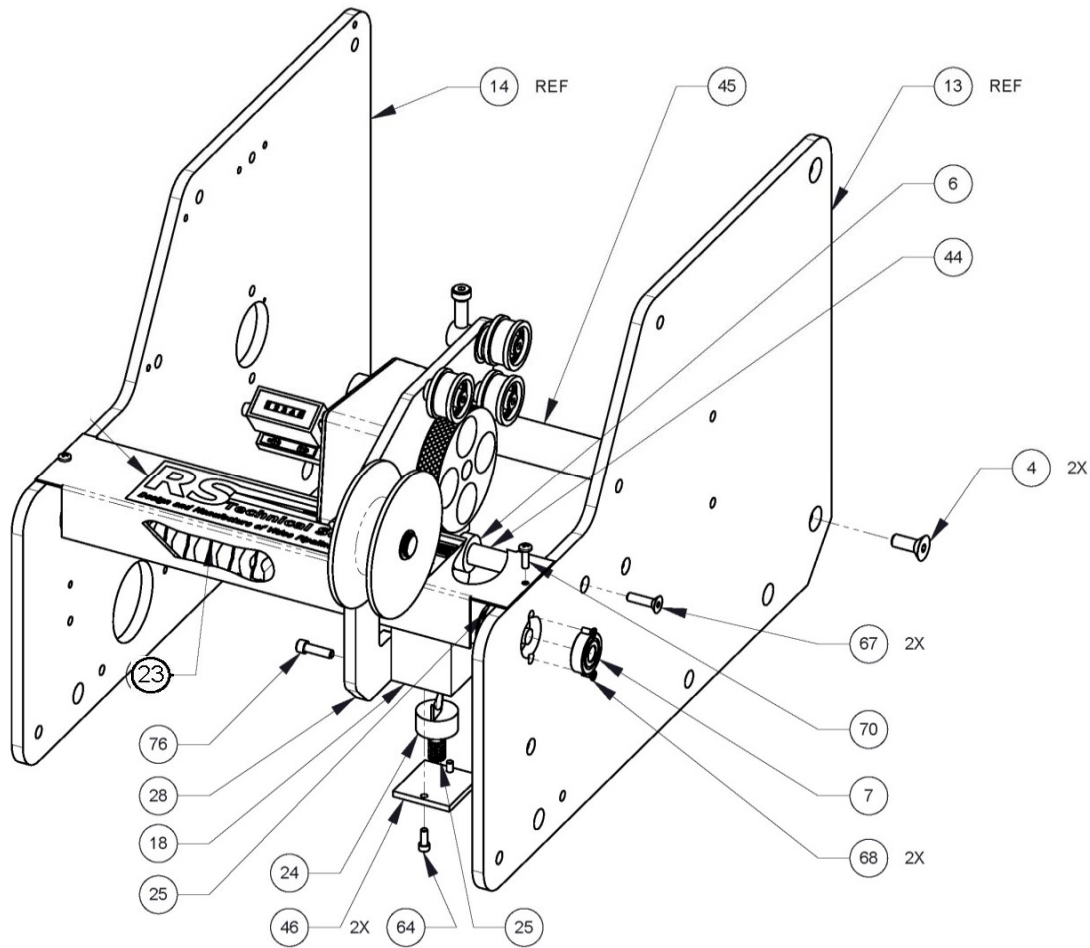


COMPACT PORTABLE REEL (CPR) SPEED CONTROLLER



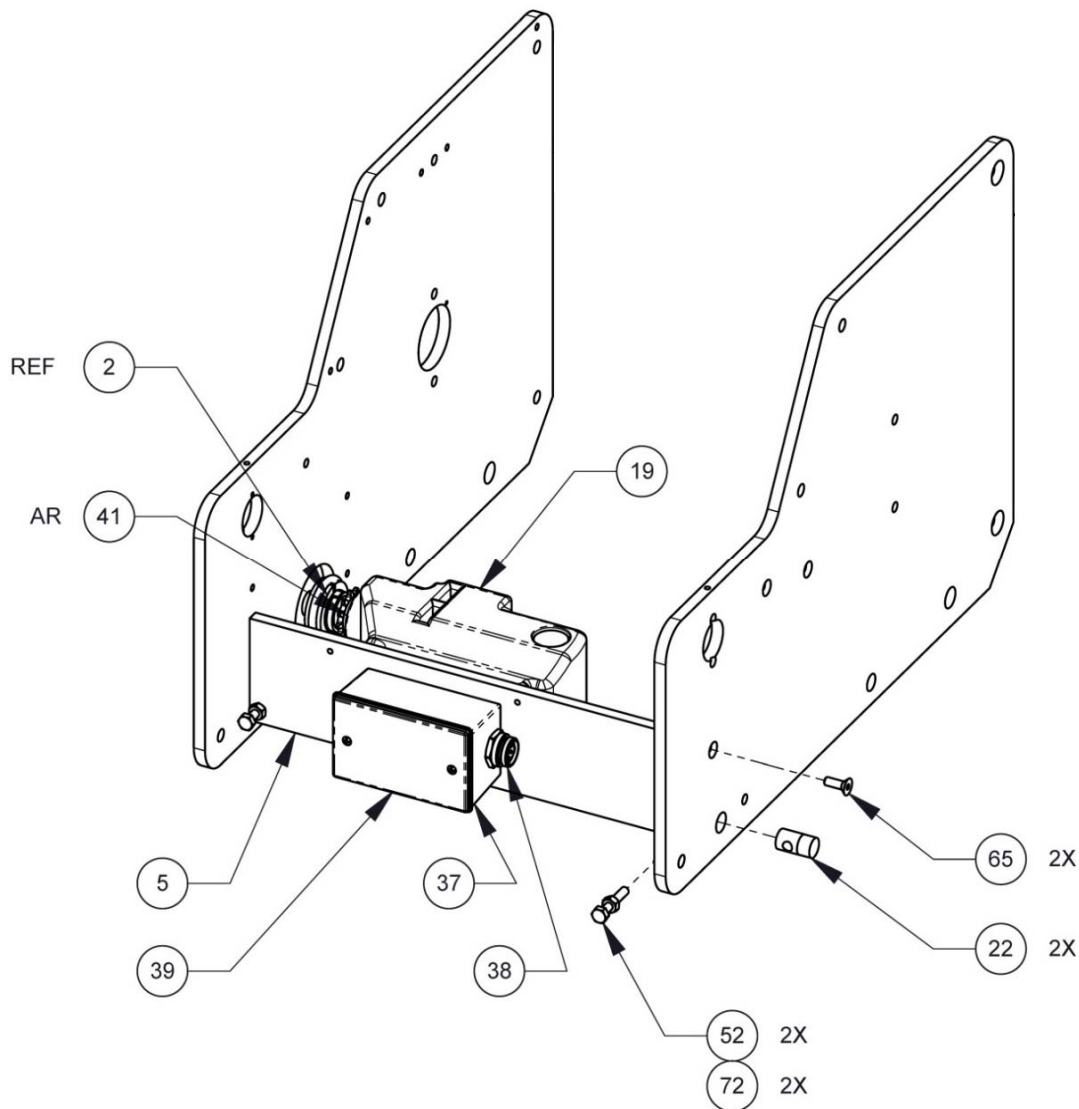
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	861-17635	ASSY,PCB,MOTOR SPEED CONTROL CPR/PRW
	569-12686	CBL,FAB,PWR,3COND,16AWG,SJT,BLK,NEMA 5-15P PLUG,10'
	447-10663	KNOB,ALUM,.25SHAFT,1.25DIA,.63H
	542-33129	SW,TOGGLE,DPDT,15A,ON/OFF/ON,.25QD UL/CSA
	301-12066	MSCR,FLT,PHH,6-32X.62 SS
	309-14091	NUT,HEX,6-32,NYLOCK SS
	301-11889	MSCR,FLT,PHH,6-32X.37 SS

COMPACT PORTABLE REEL (CPR)



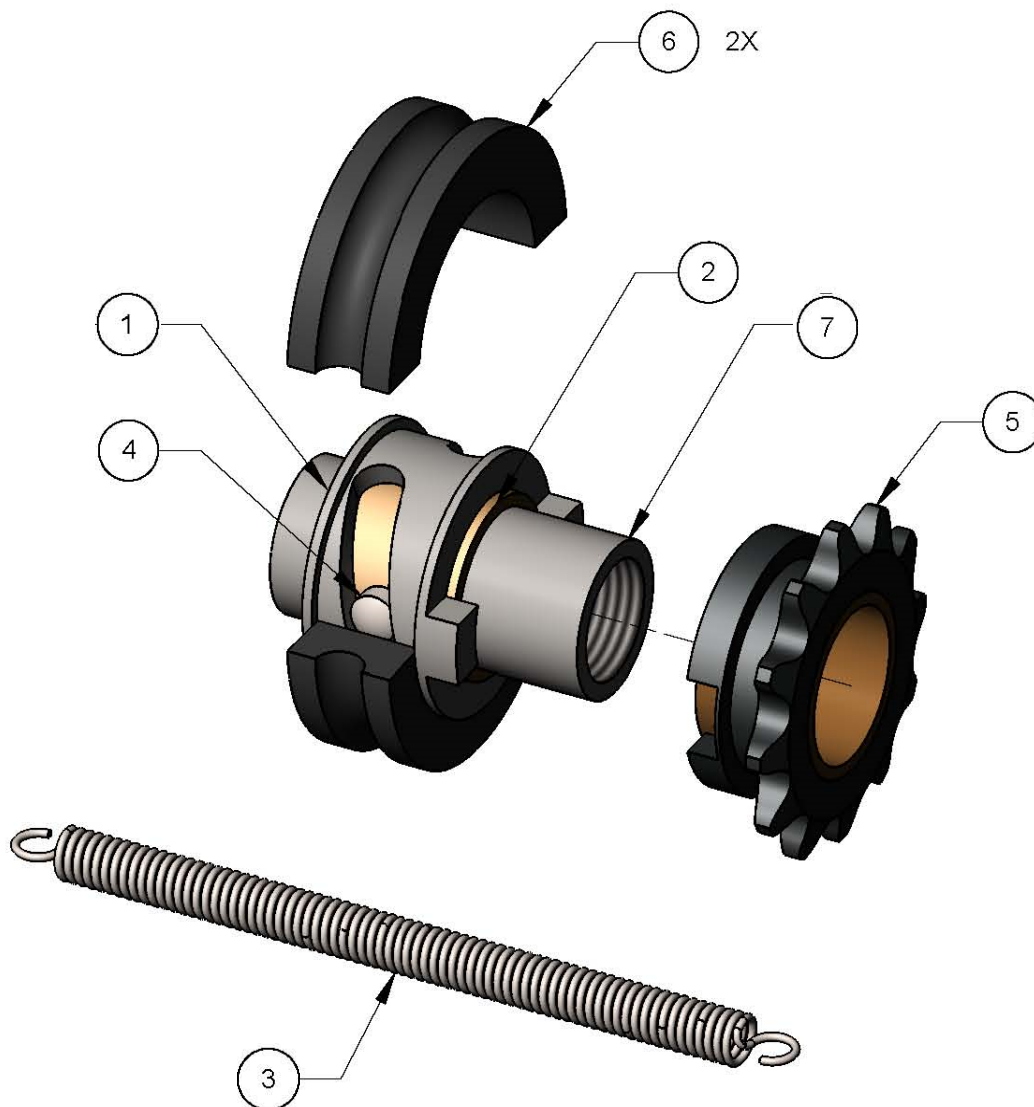
ITEM #	PART #	DESCRIPTION
4	301-11595	MSCR,FLT,HXS,3/8-16X1 SS
6	405-14558	BUSHING,TORQUE ARM,PRWCPR
7	404-14210	BEARING,BALL,1.26OD,.472BORE,.394W,SEALED
13	453-19715-21	PLATE,SIDE,LFT
14	453-19716-21	PLATE,SIDE,RT
18	451-19723	FOLLOWER BLOCK
23	407-19728	SHAFT, LEVEL WIND
24	407-15913	PAWL,LEVEL WIND 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



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

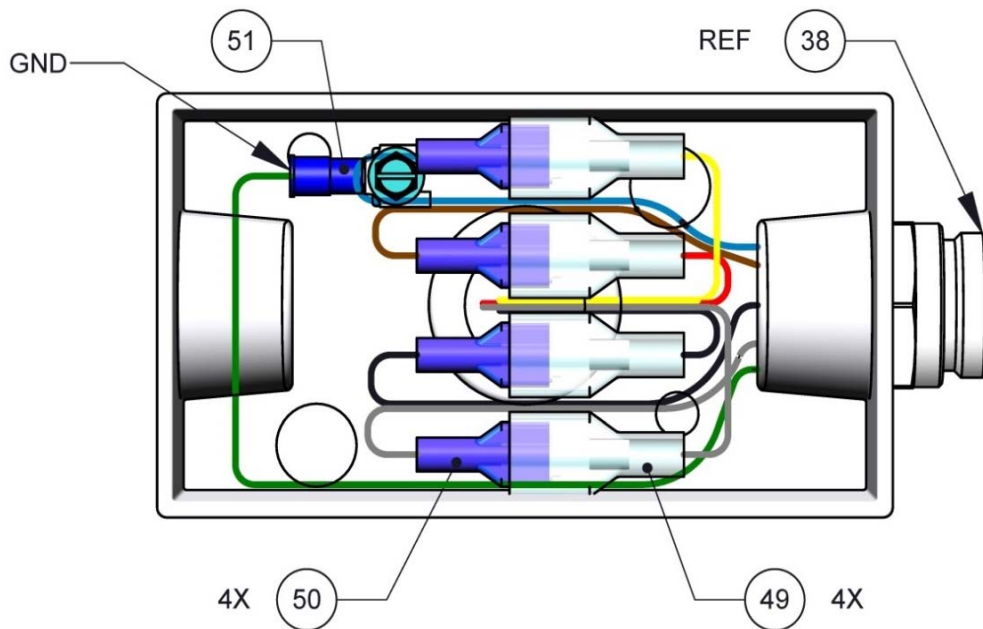
COMPACT PORTABLE REEL (CPR) CLUTCH ASSEMBLY



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
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

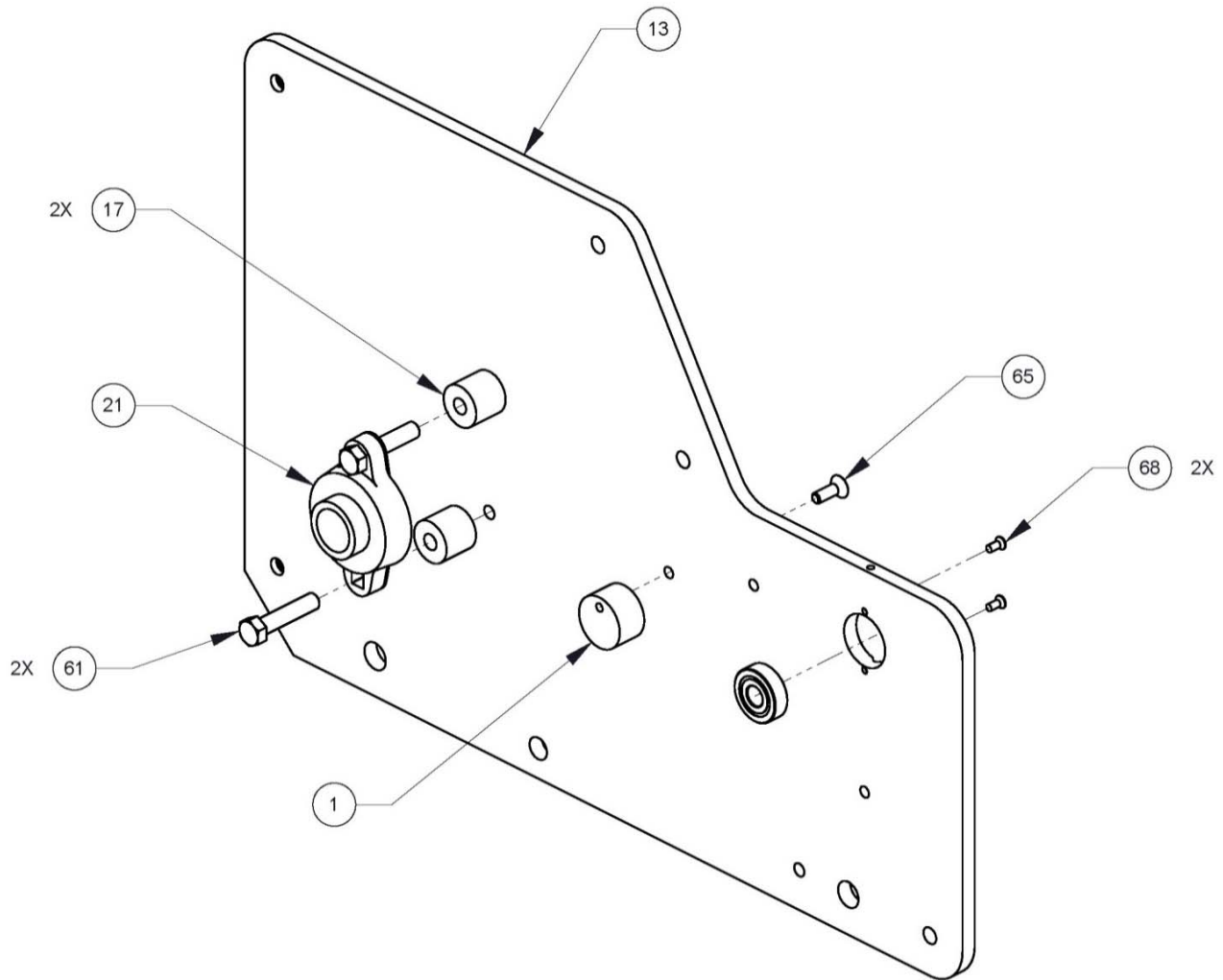
COMPACT PORTABLE REEL (CPR) JUNCTION BOX WIRING DIAGRAM

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



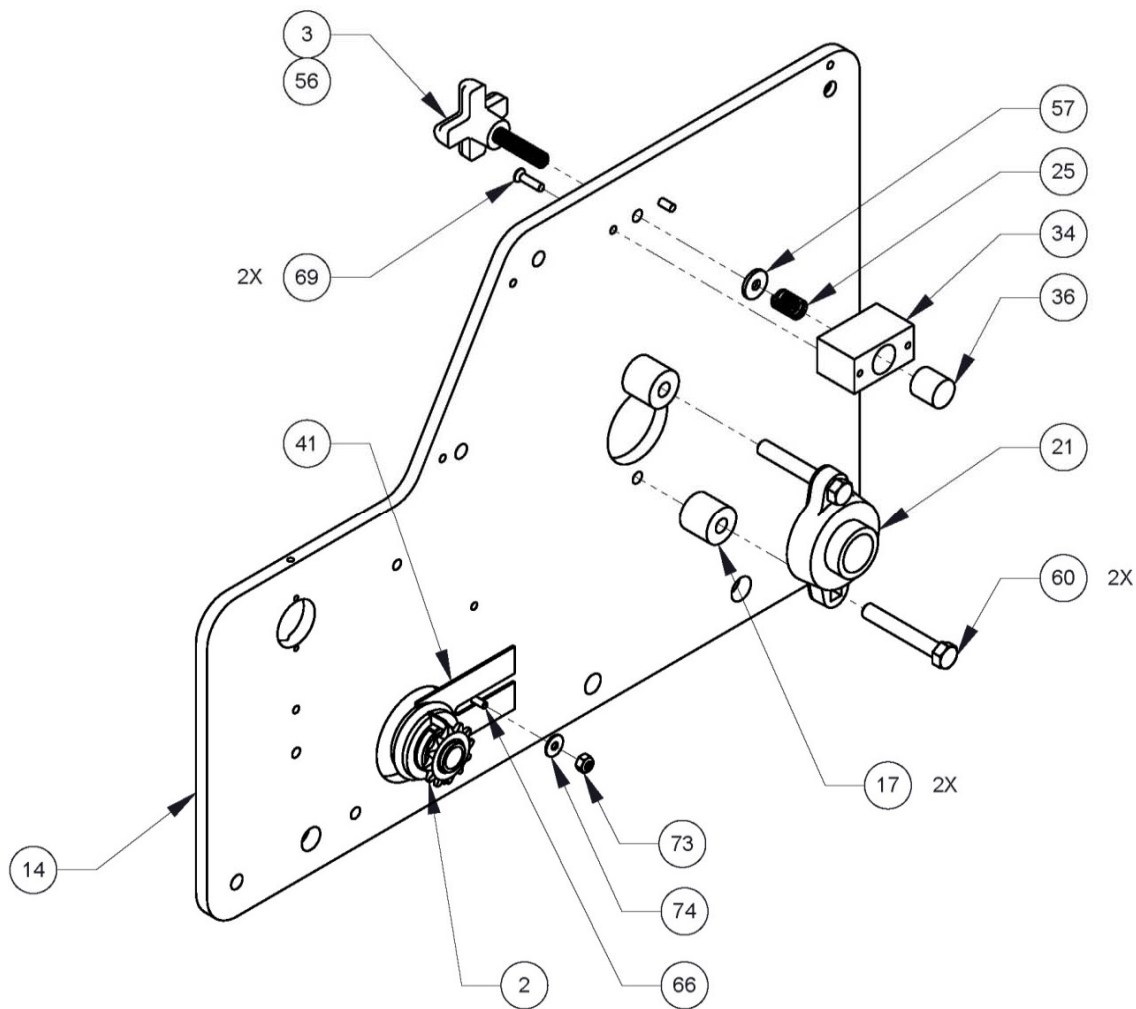
ITEM #	PART #	DESCRIPTION
38	557-15071	CONN,W.R.,BHD,MALE,5SKT
49	565-11393	TERM,QD,.25,MALE,14-16AWG,FULLY INSULATED BLUE
50	565-11747	TERM,QD,.25,FEM,14-16AWG,FULLY INSULATED BLUE
51	565-13206	TERM,SPADE,LKG,#10,14-16AWG,INSUL

COMPACT PORTABLE REEL (CPR) LEFT SIDE PLATE



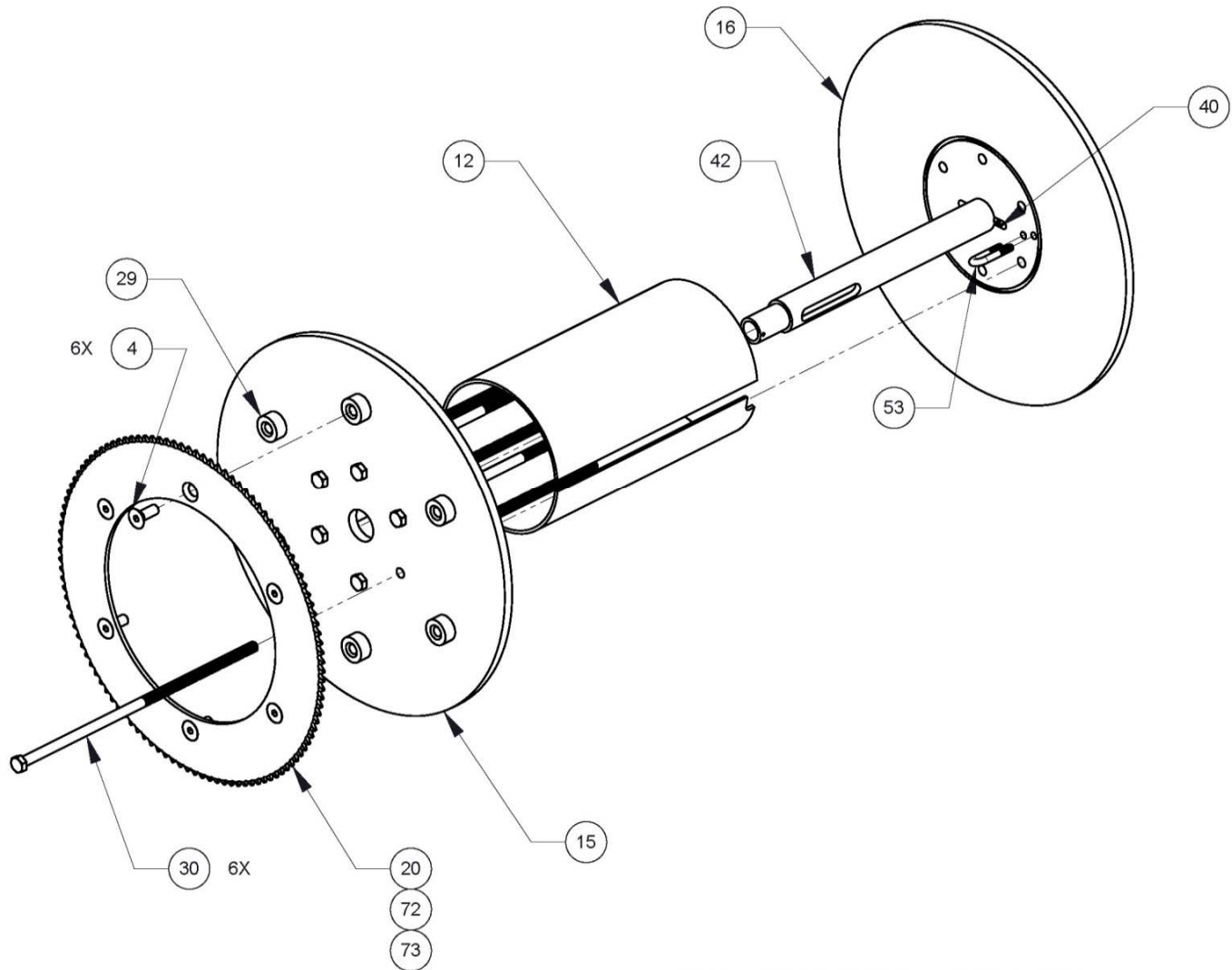
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	440-38252	IDLER,CHAIN,LVL WND
13	453-19715-21	PLATE,SIDE,LFT
17	403-19721	SPACER,BEARING,LVL WND
21	404-19288	BEARING,FLANGE,2 BOLT,1" BORE W/SAE SET SCREW
61	300-14378	MSCR,HEXHD,3/8-16X1.75 ZINC
65	301-11183	MSCR,FLT,HXS,1/4-20X.75 SS
68	301-12823	MSCR,FLT,PHH,8-32X.37,UNDERCUT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

COMPACT PORTABLE REEL (CPR) RIGHT SIDE PLATE



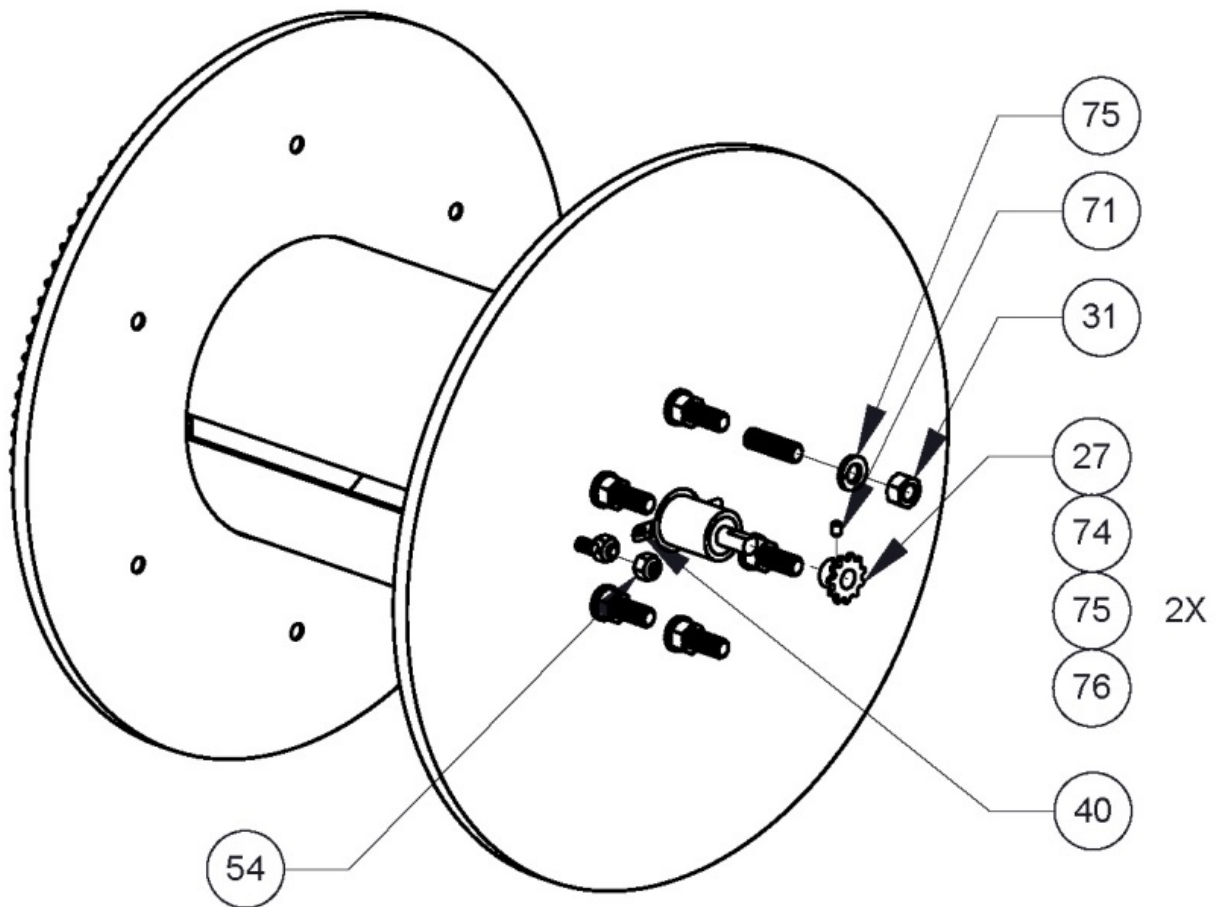
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
2	805-31064	ASSY,CLUTCH
3	447-10073	KNOB,CAST IRON
14	453-19716-21	PLATE,SIDE,RT
17	403-19721	SPACER,BEARING,LVL WND
21	404-19288	BEARING,FLANGE,2 BOLT,1" BORE W/SAE SET SCREW
25	446-14273	SPRING,COMPRESS,1"L,44.6LBS,STL/ZINC
34	452-19741	DRAG BRAKE HOUSING
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



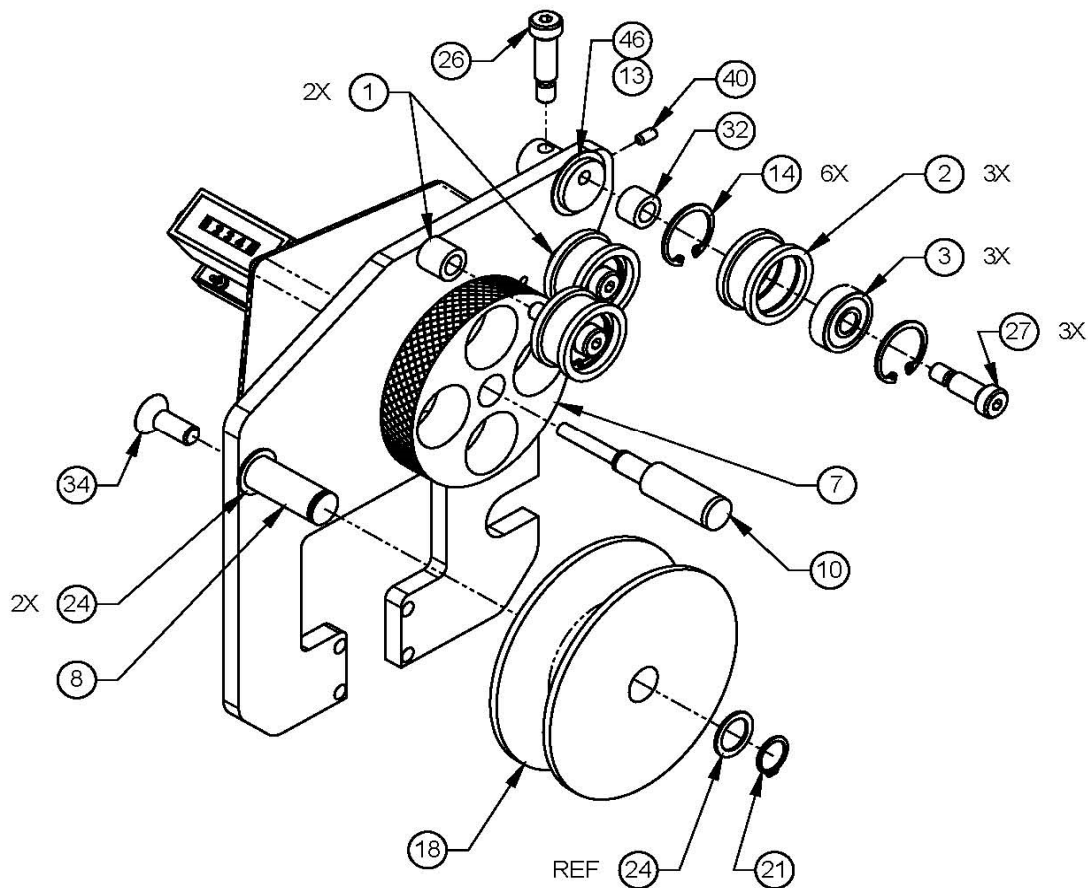
ITEM #	PART #	DESCRIPTION
4	301-11595	MSCR,FLT,HXS,3/8-16X1 SS
12	443-19714	CORE,SPOOL,10" CPR
15	453-19717-31	PLATE,SIDE,SPOOL,LVL WND SIDE
16	453-19718-31	COLLAR,CLUTCH,DRAG
20	441-19492	SPRKT,DRIVE,DRUM
29	403-19493	SPACER,SPKT,DRUM
30	300-19342	MSCR,HEXHD,3/8-16X12 ZINC
40	400-20050	PIN,SPRING,ROLL,5/16" 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



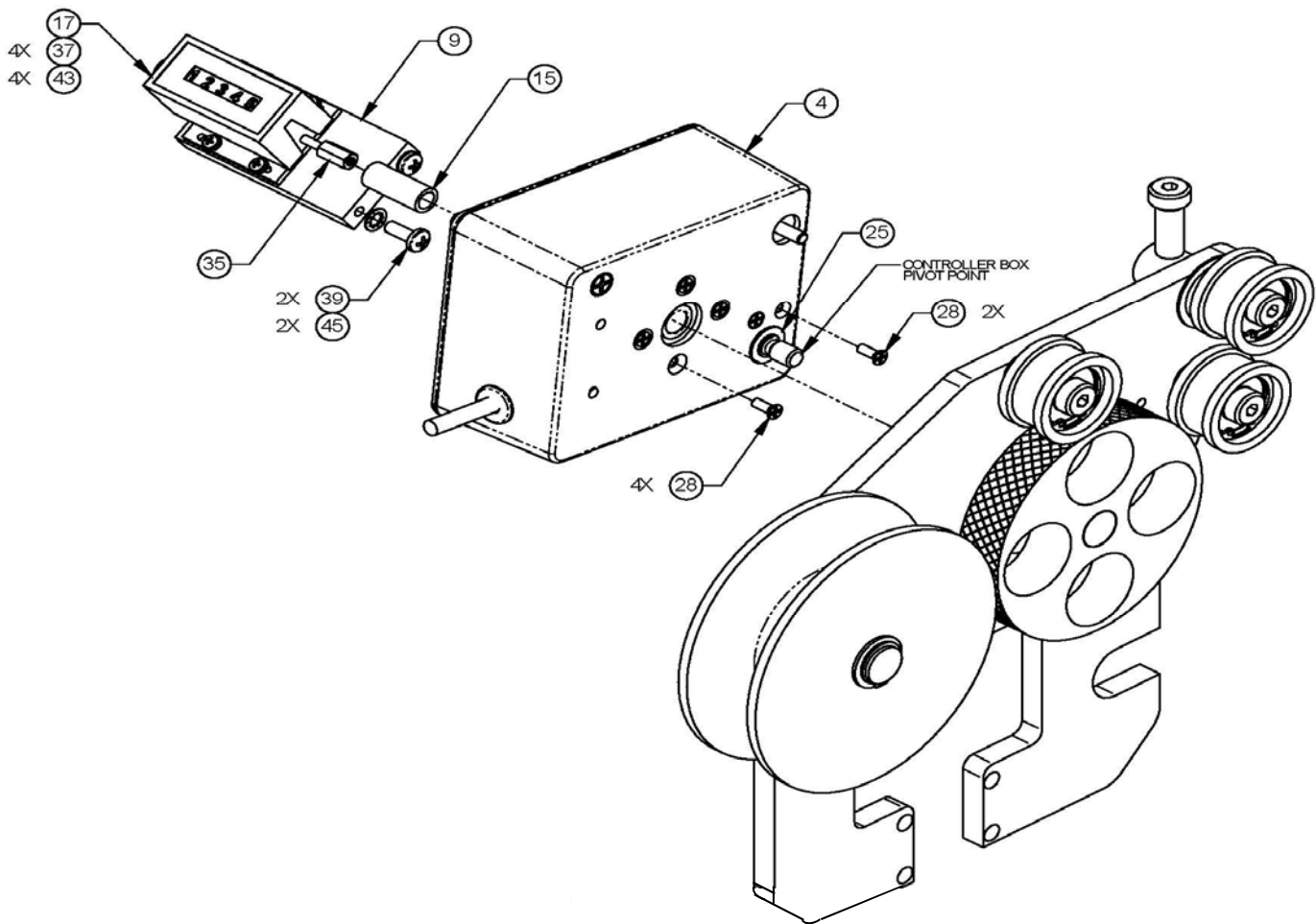
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
27	441-39130	SPRKT,DRIVER,11T,25 PITCH,3/8 ID
31	308-12769	NUT,HEX,3/8-16 ZINC
40	400-20050	PIN,SPRING,ROLL,5/16" X 1-3/4", PLAIN STEEL
54	308-14265	NUT,HEX,1/4-20,NYLOCK ZINC
71	304-11125	SSCR,CUP PT,HXS,10-32X.25 SS
74	316-11835	WASHER,FLT,#10 SS
75	318-14963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

COMPACT PORTABLE REEL (CPR) FOOTAGE COUNTER ENGLISH



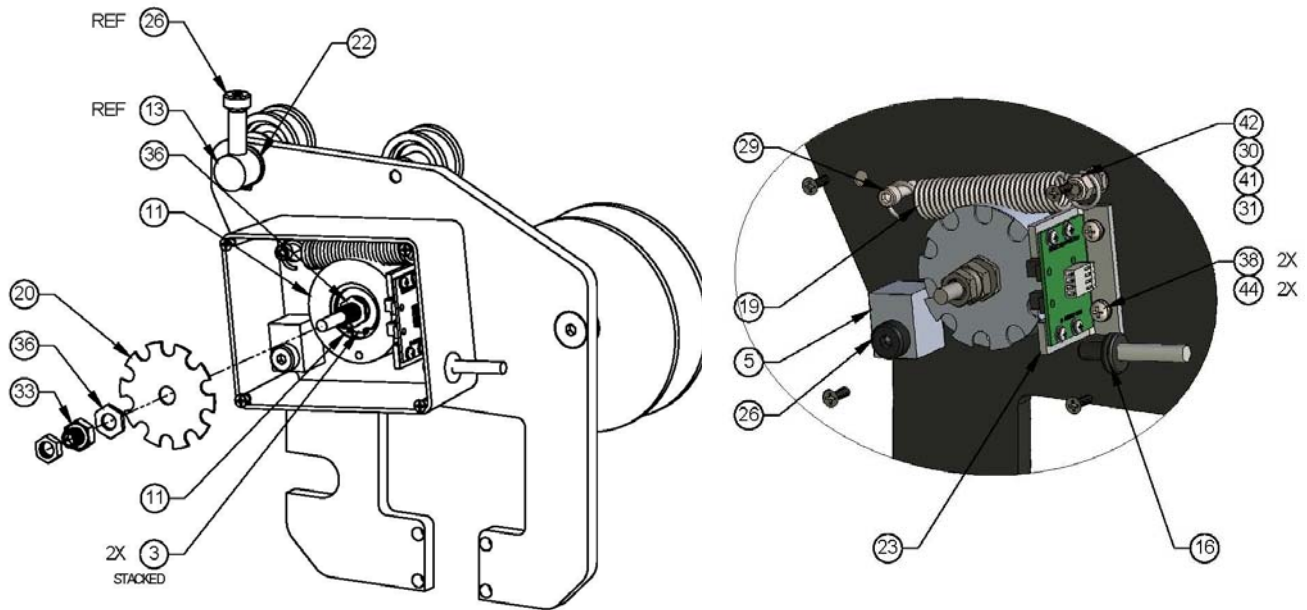
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	403-19702	SPACER,ROLLER,CPR
2	443-19707	ROLLER,GUIDE,TOP,1.5",CPR
3	404-12482	BEARING,BALL,1.181OD,.394BORE
7	443-19713-21	WHEEL,FOOTAGE COUNTER,CPR,HARD CLEAR ANODIZE
8	402-19720	POST,ROLLER GUIDE,OUTPUT,CPR
10	407-17328	SHAFT,WHEEL,COUNTER,ENGLISH,CPR
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



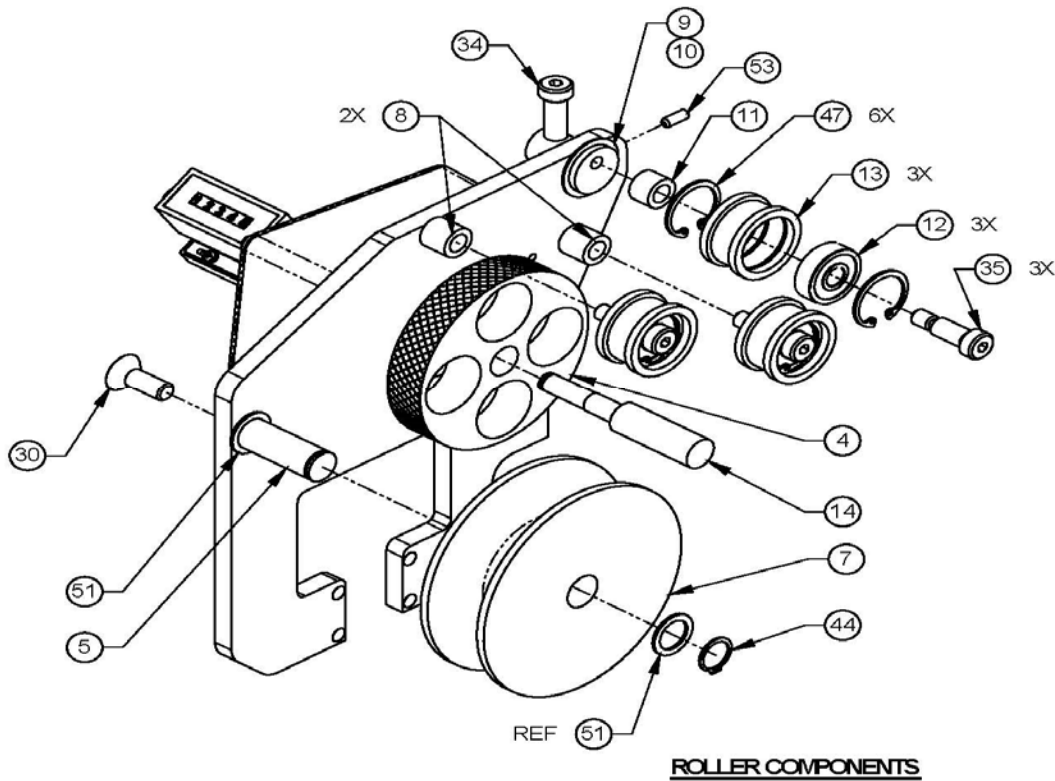
ITEM #	PART #	DESCRIPTION
9	451-19724	BLOCK,MTG,COUNTER,CPR
15	606-11516	HOSE,RUBBER,VACUUM,5/32"
17	867-20485	COUNTER,MECHANICAL,5 DIGIT,10CTS <u>INCLUDES ADAPTER ITEM #35</u>
25	474-12204	SHIM,WASHER,3/8 X 5/8 X .030T,SS
28	301-11948	MSCR,FLT,PHH,6-32X.37,UNDERCUT SS
35	408-12425	ADPTR,SHAFT,FOOTAGE 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



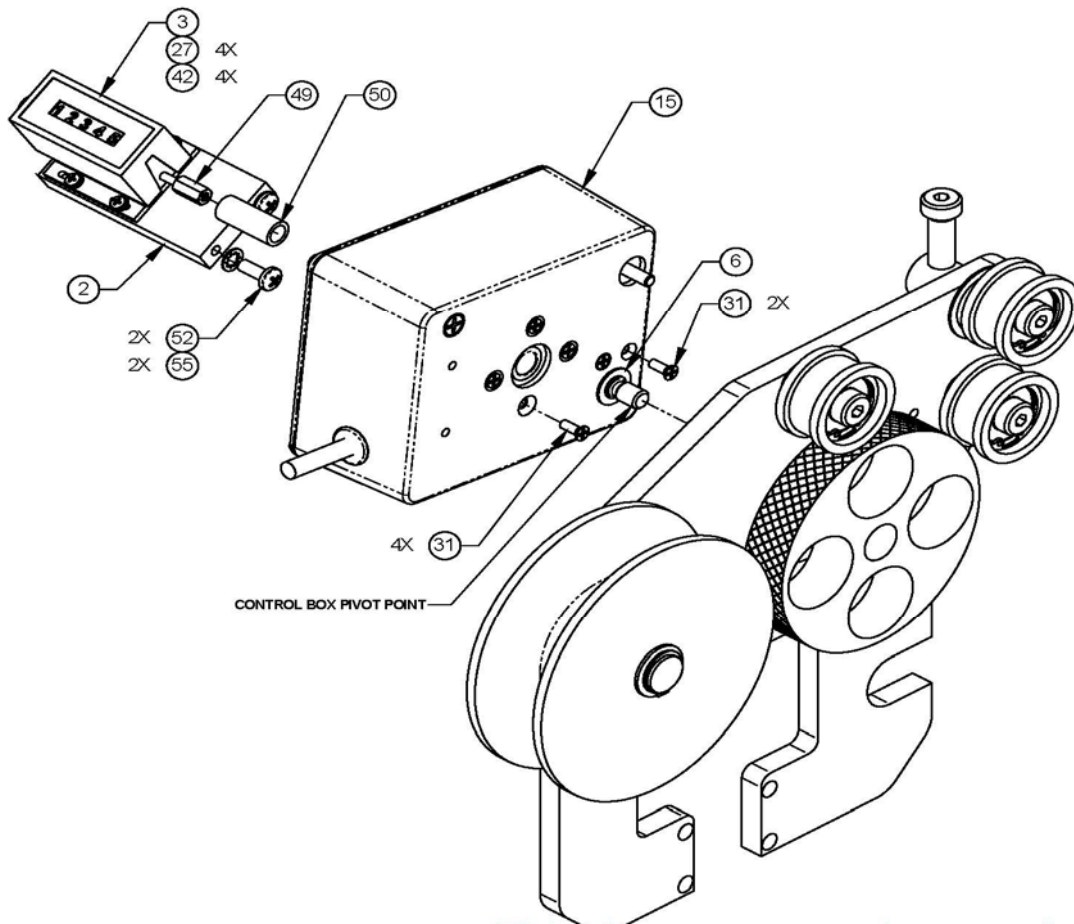
ITEM #	PART #	DESCRIPTION
3	404-12482	BEARING,BALL,1.181OD,.394BORE
5	451-19711	BLOCK,PIVOT,CNTR,CPR
11	451-21007	RETAINER,BEARING,SUPPORT,SHAFT,FTG CNTR,CPR
13	448-19732	PIVOT,ROLLER,GUIDE,CPR
16	449-15089	GROMMET,RUBBER,1/4ID 7/16 HOLE
19	446-14157	SPRING,WHEEL TENSION,FOOTAGE COUNTER
20	443-13810	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



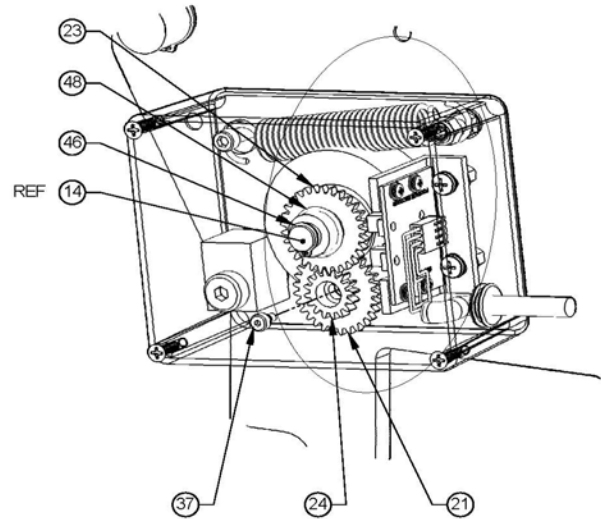
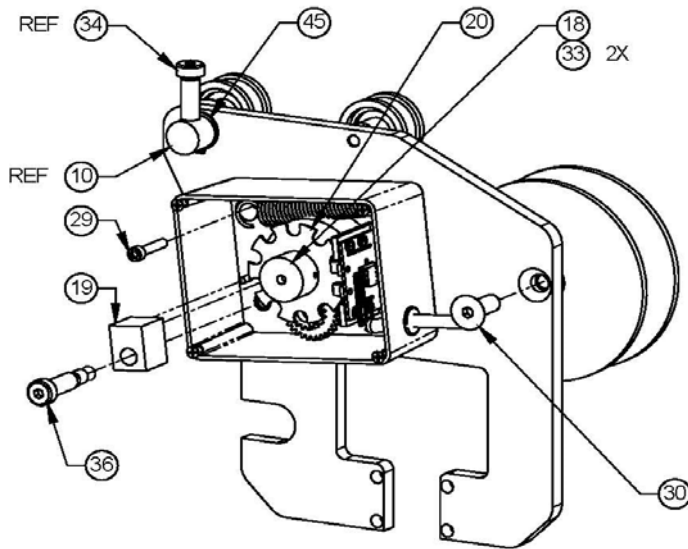
ITEM #	PART #	DESCRIPTION
4	443-19713-21	WHEEL, FOOTAGE COUNTER, CPR, HARD CLEAR ANODIZE
5	402-19720	POST, ROLLER GUIDE, OUTPUT, CPR
7	449-15325	ROLLER, GUIDE, POLYURETHANE
8	403-19702	SPACER, ROLLER, CPR
9	317-13291	WASHER, FLT., .750X1.250X.031 TEFLON
10	448-19732	PIVOT, ROLLER, GUIDE, CPR
11	403-19762	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



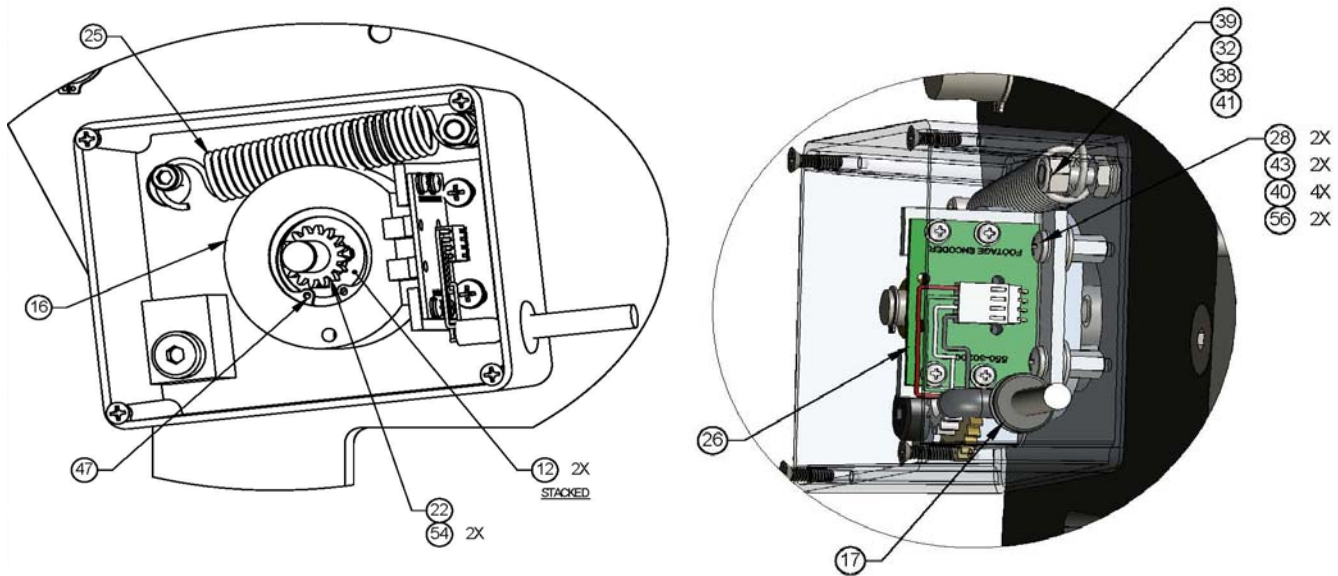
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
2	451-19724	BLOCK,MTG,COUNTER,CPR
3	867-13456	COUNTER,MECHANICAL,5 DIGIT,10CTS SMALL SHAFT
6	474-12204	SHIM,WASHER,3/8 X 5/8 X .030T,SS
15	452-19710	BOX,CONTROL,FOOTAGE COUNTER,CPR
27	301-11122	MSCR,PAN,PHH,4-40X.37 SS
31	301-11948	MSCR,FLT,PHH,6-32X.37,UNDERCUT 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



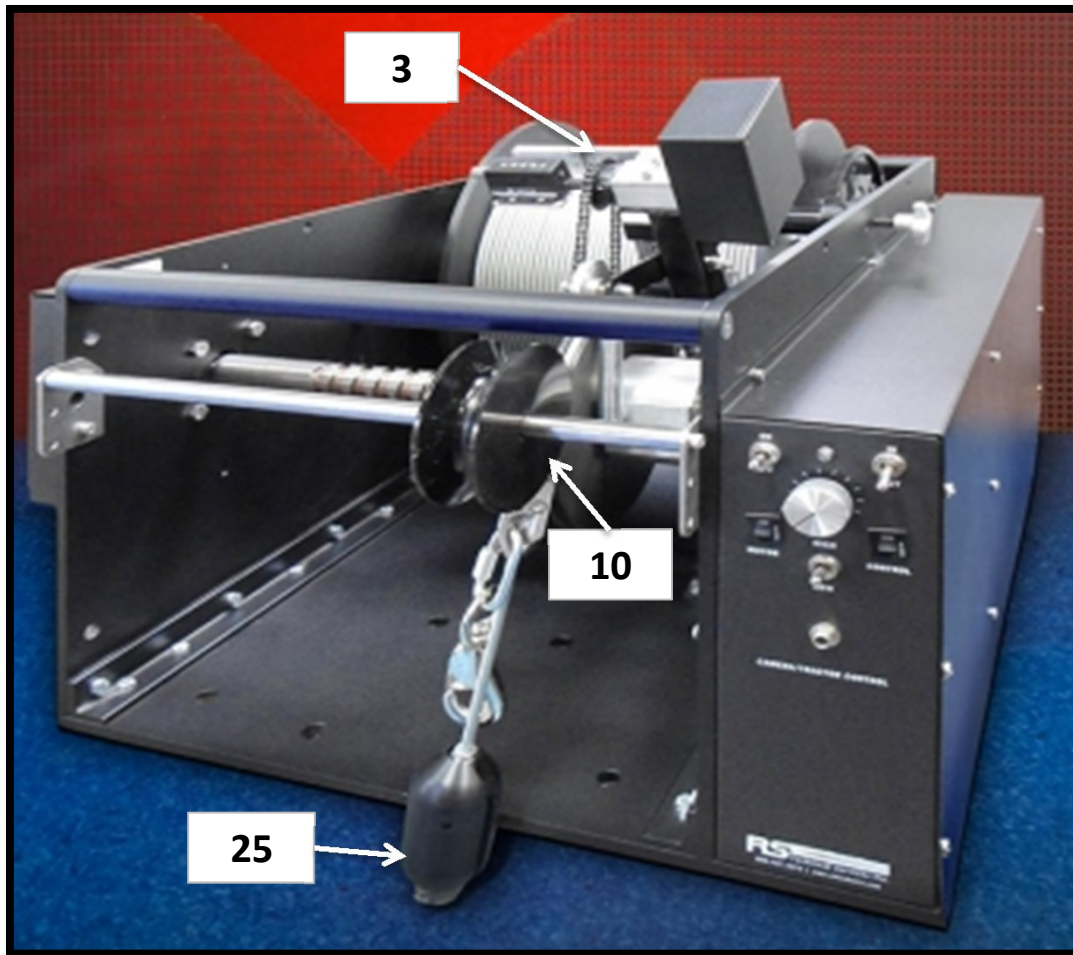
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
10	448-19732	PIVOT,ROLLER,GUIDE,CPR
14	407-21005	SHAFT,WHEEL,COUNTER,METRIC CPR
18	408-21006	COLLAR,RETAINER,ENCODER WHEEL,METRIC COUNTER,CPR
19	451-19711	BLOCK,PIVOT,CNTR,CPR
20	443-21008	WHEEL,SENSOR,FOOTAGE,METRIC COUNTER,CPR
21		CALL TECH SUPPORT
23		CALL TECH SUPPORT
24		CALL TECH SUPPORT
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		CALL TECH SUPPORT
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

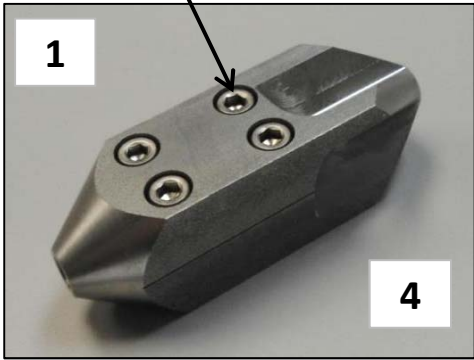
MAINLINE REEL



<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

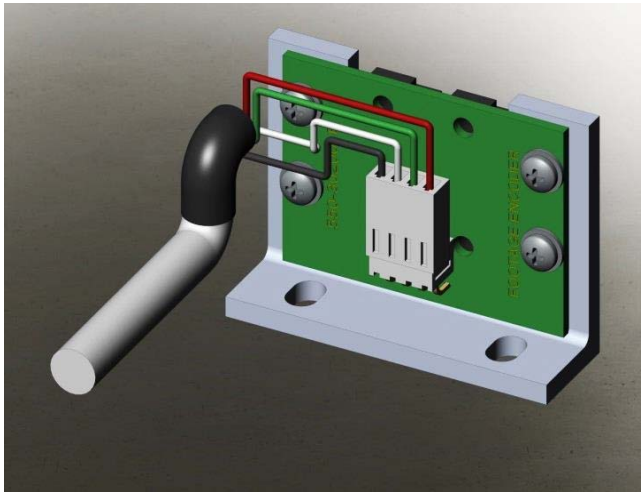
MAINLINE REEL

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





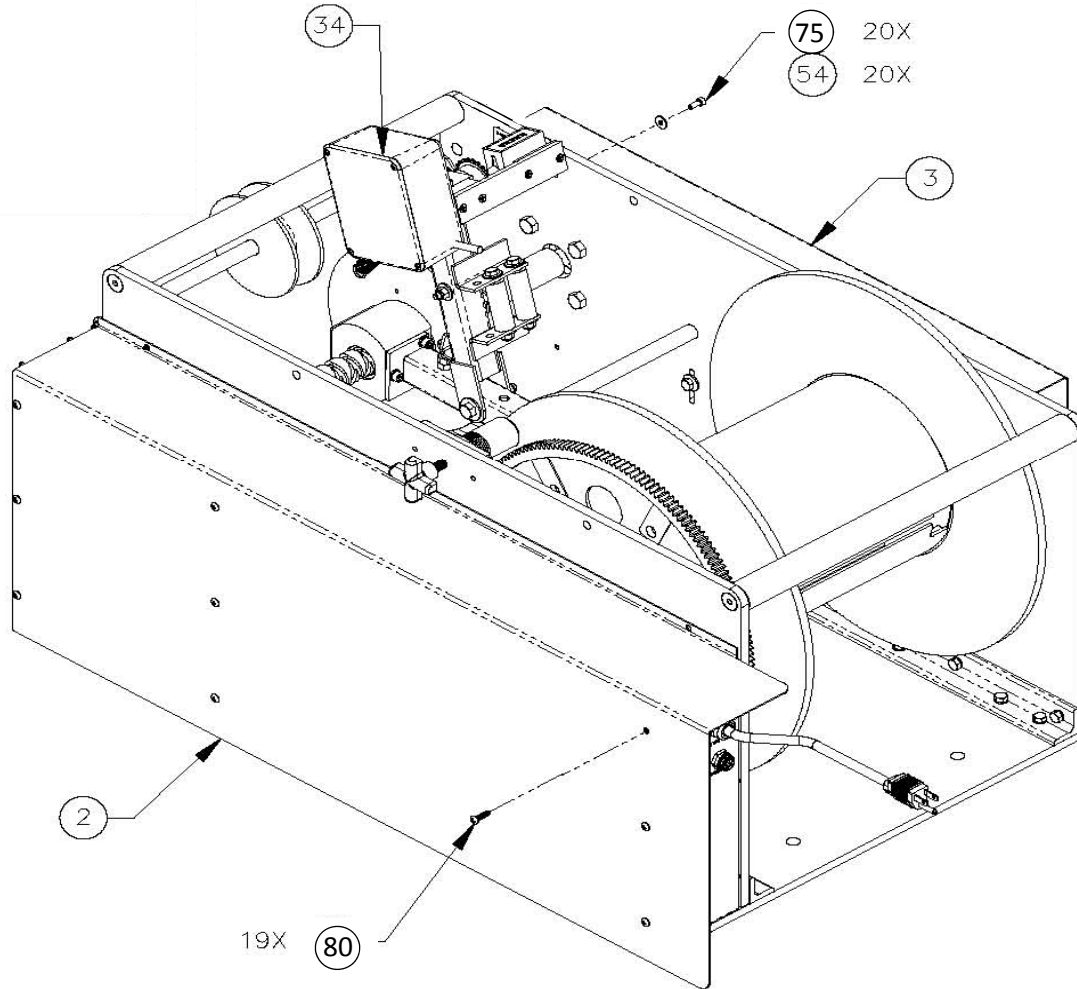
ITEM #	PART #	DESCRIPTION
20	806-18586	ASSEMBLY FOOTAGE ENCODER HARNESS <u>WITH CABLE & BRACKET</u>

CALL TECH SUPPORT FOR IMPORTANT INSTALLATION INFORMATION

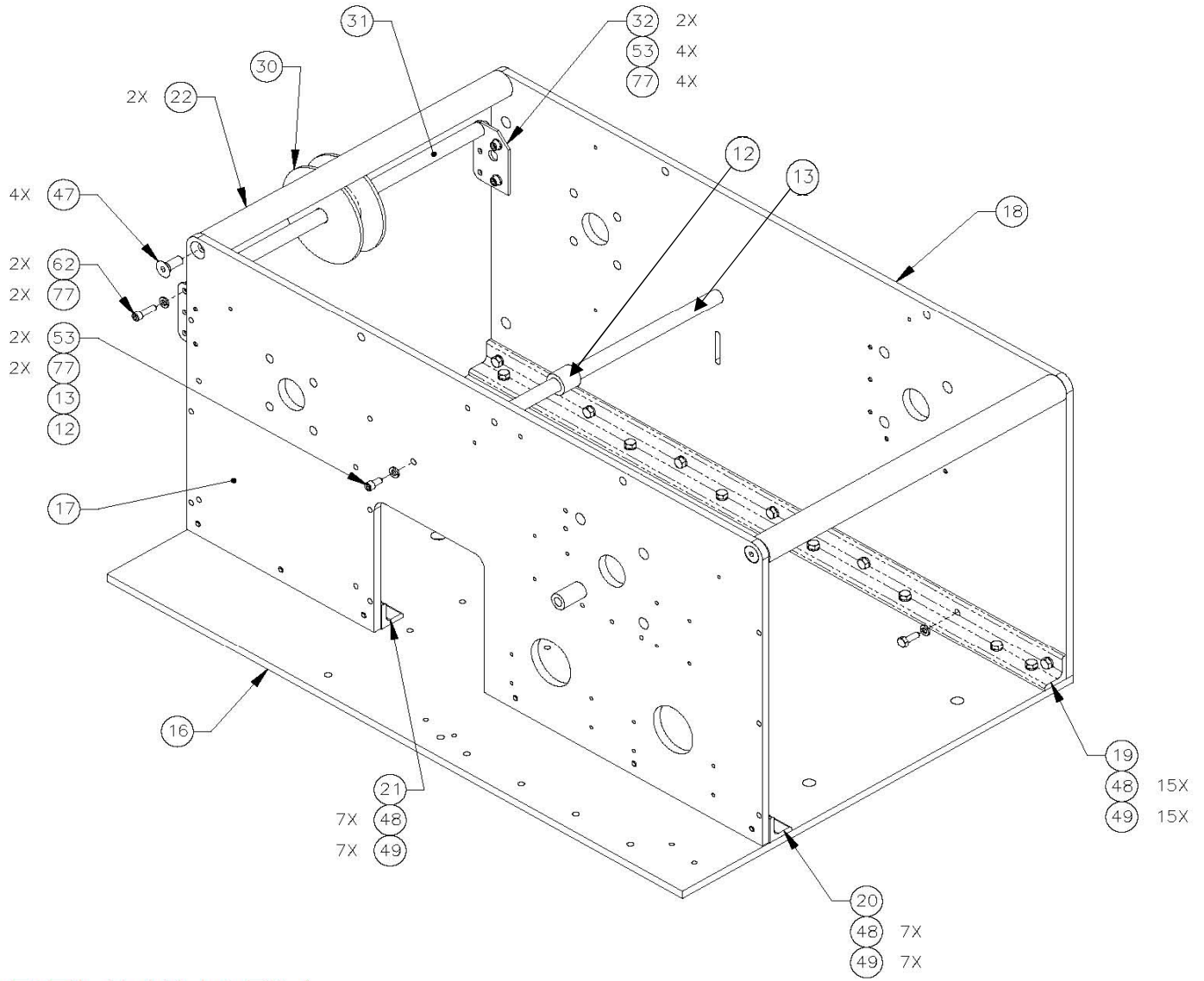
ITEM #	PART #	DESCRIPTION
	806-30347	CABLE, N PLUG > N PLUG, 20 FT (REEL TO CONTROLLER)
	806-30348	CABLE, N PLUG > N PLUG, 14.5 FT (REEL TO CONTROLLER)

MAINLINE REEL



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
2	453-11906-31	COVER,SIDE RH,MLCR,BLACK
3		CALL TECH SUPPORT
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

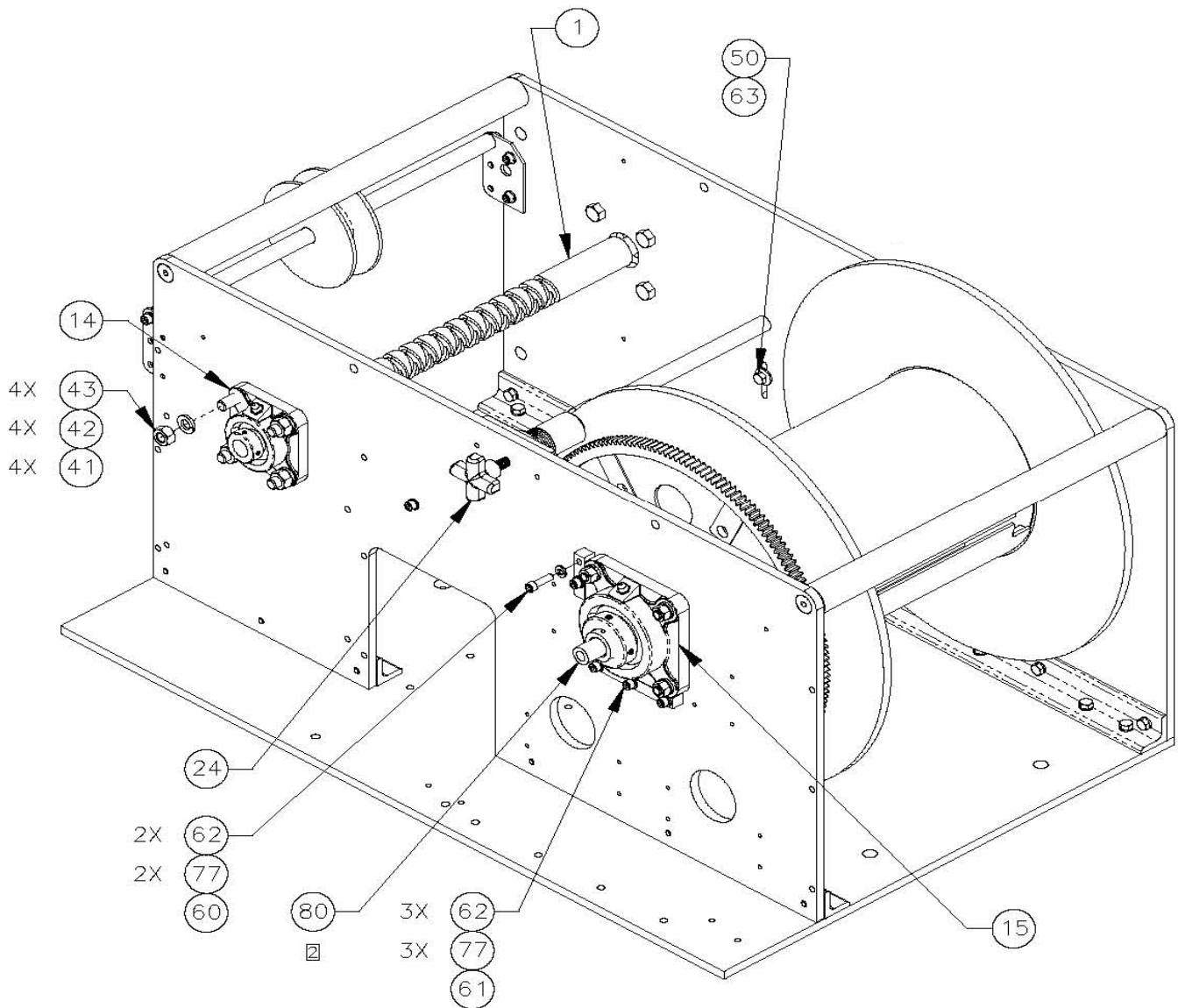
MAINLINE REEL



MAINLINE REEL

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

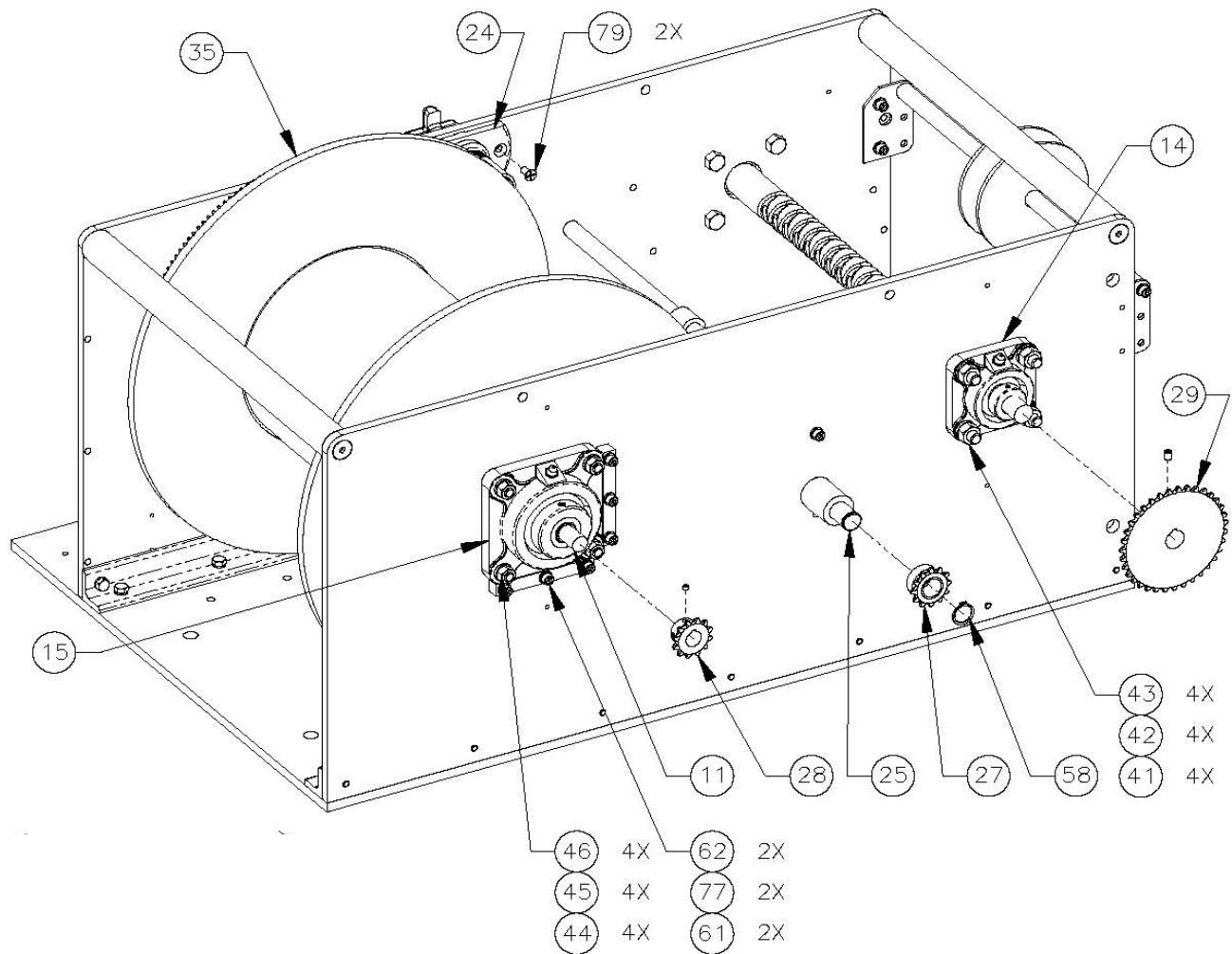
MAINLINE REEL



MAINLINE REEL

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	407-13465	SHAFT,LEVEL WIND,.75" PITCH X 11.25"
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,DRAG BRAKE,MLCR
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
50	300-14725	MSCR,HEXHD,1/4-20X1 ZINC
60	451-17713	BLOCK,BEARING ADJUST,SOLID SIDE,MLCR
61	451-17714	BLOCK,BEARING ADJUST,MLCR
62	301-15608	MSCR,SHCS,1/4-20X.87 SS
63	316-11245	WASHER,FLT,.25,SAE SS
77	318-15671	WASHER,LKG,.25,HELICAL SS
80	408-30590	COLLAR,SLIP RING,3 CONDUCTOR

MAINLINE REEL

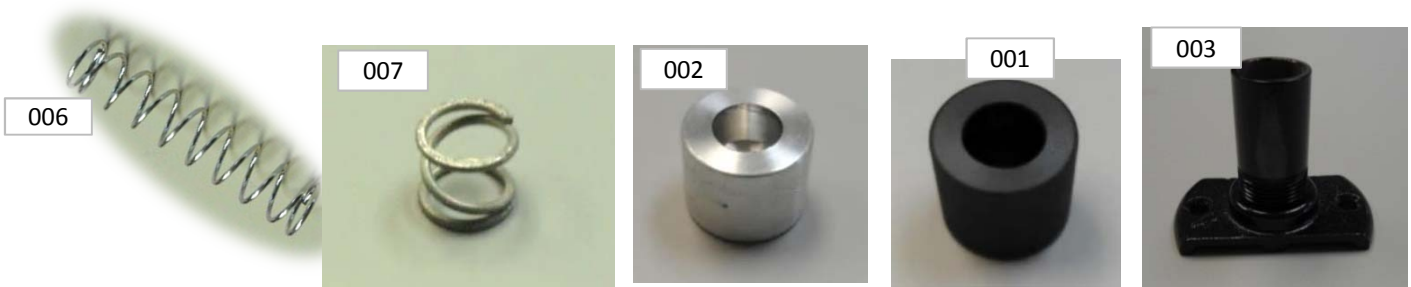


ITEMS 59 AND 70
NOT SHOWN FOR CLARITY

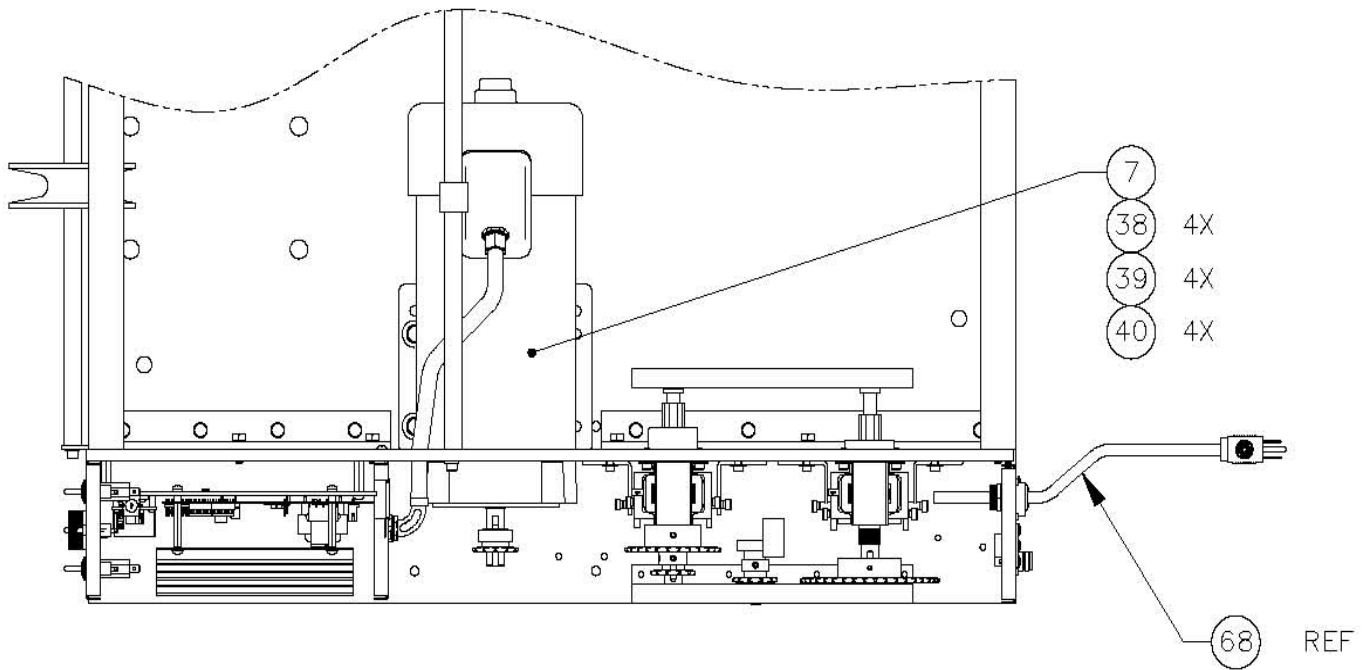
MAINLINE REEL

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
24	805-12469	DRAW BRAKE ASSY	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

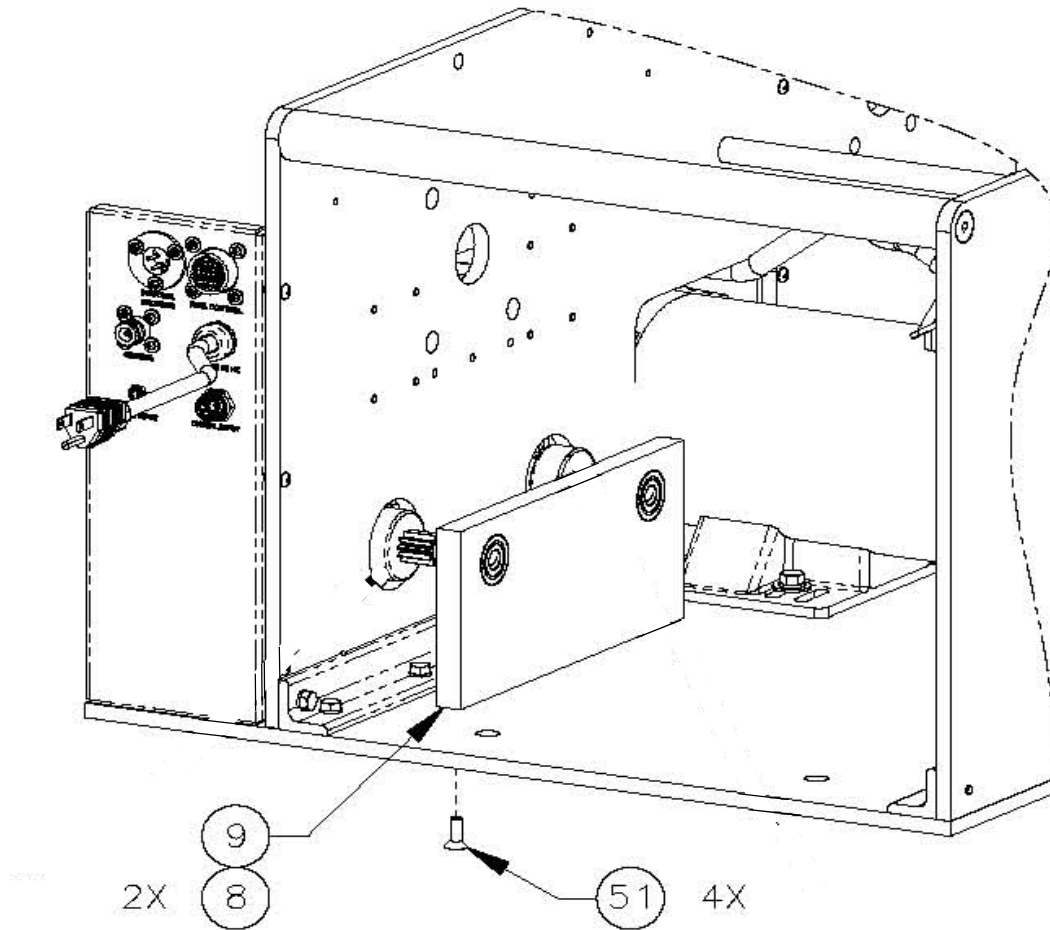


MAINLINE REEL



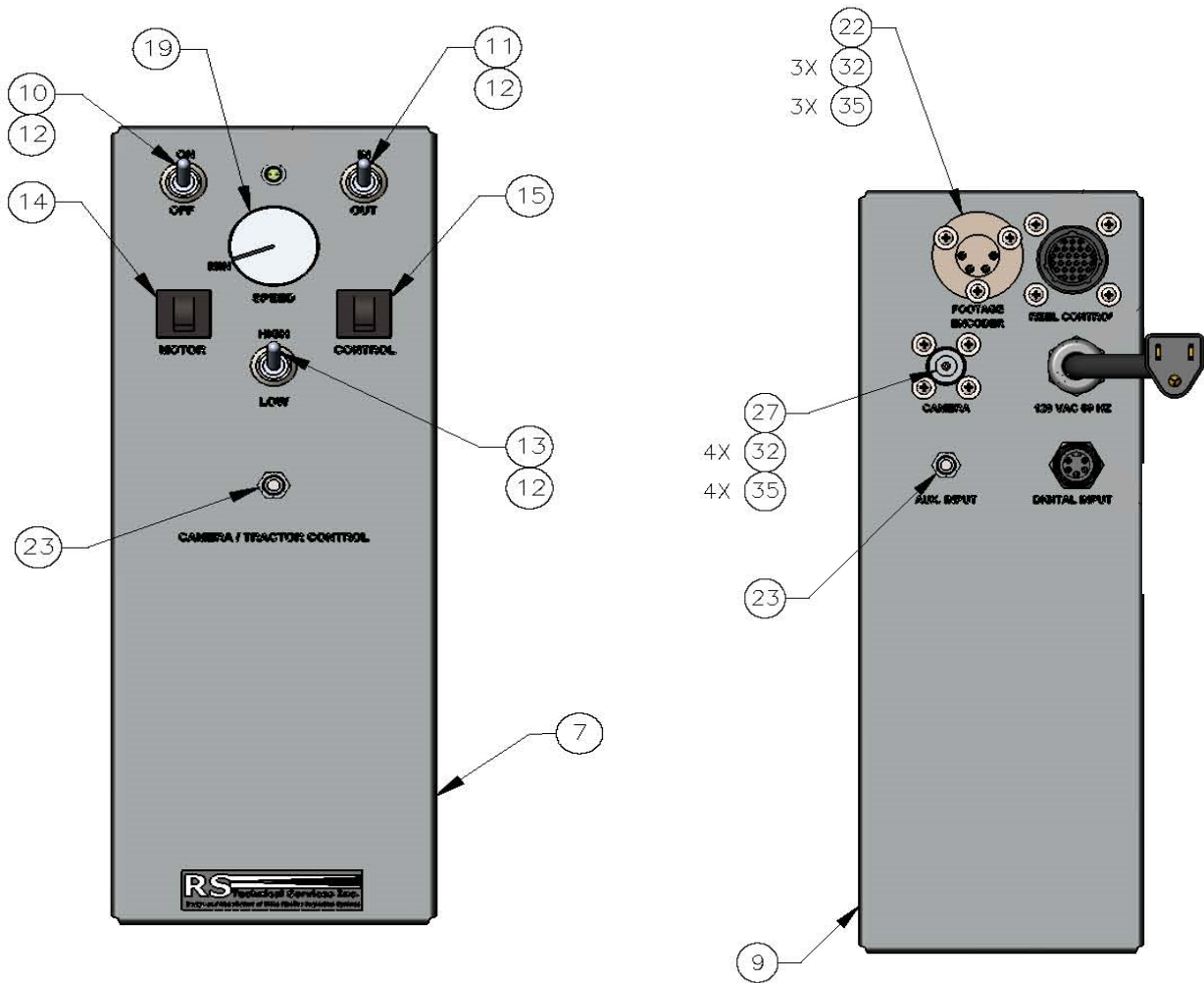
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
7	635-13163	MOTOR,90VDC,3/4HP,8.2A,1725RPM,56C
38	301-15548	MSCR,HEXHD,5/16-18X.75 SS
39	318-14904	WASHER,LKG,.31(5/16),HELICAL SS
40	316-11953	WASHER,FLT,.312 SS

MAINLINE REEL



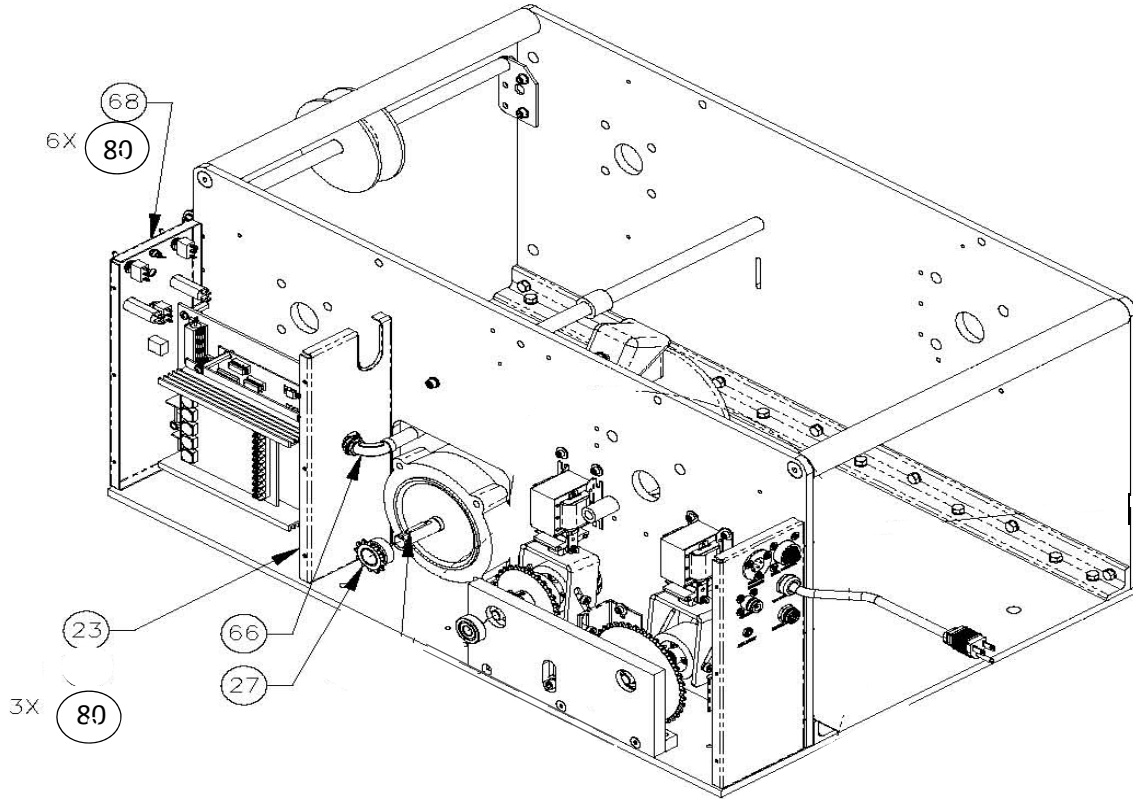
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
8	404-14210	BEARING,BALL,1.26OD, .472 BORE, .394W, SEALED
9	451-12141-31	BLOCK,PINION BEARING,INNER,4.5" TALL,BLK PWDR CT
51	301-11183	MSCR,FLT,HXS,1/4-20 X .75 SS

MAINLINE REEL



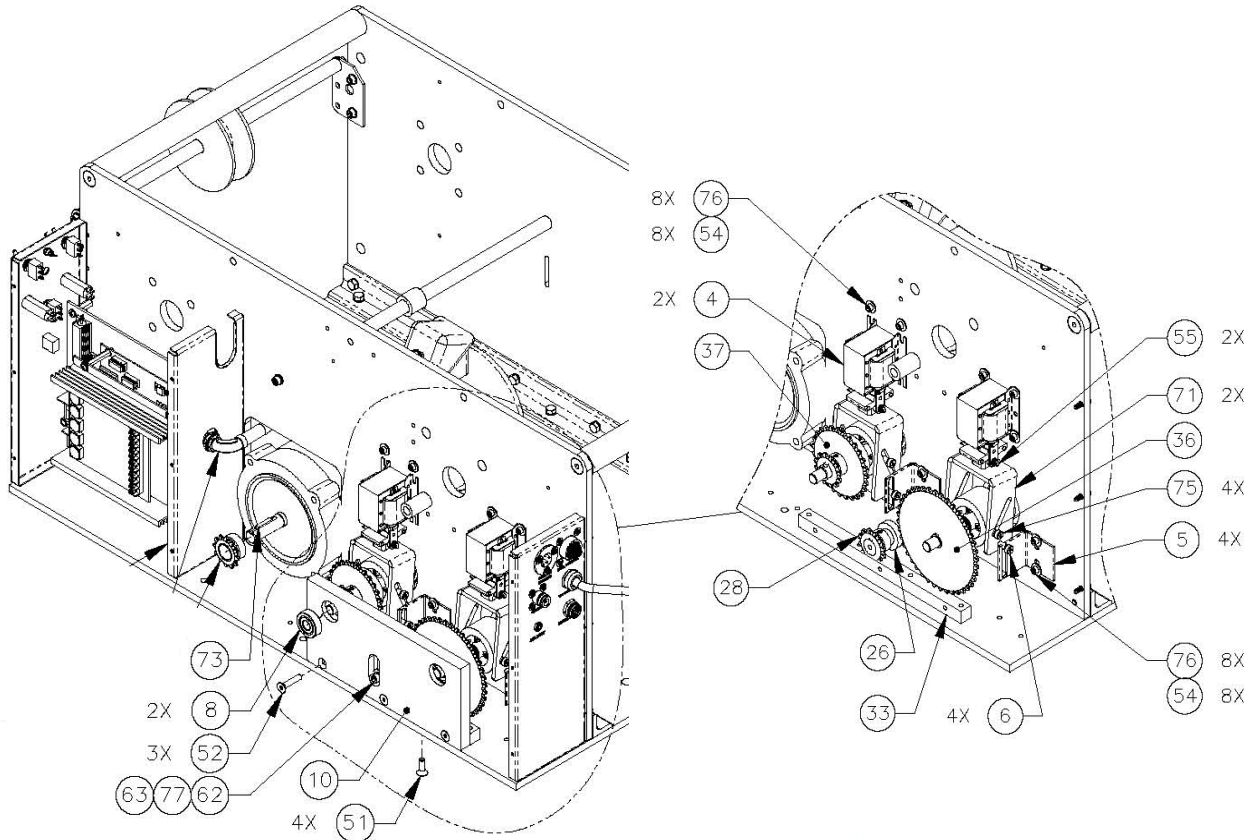
ITEM #	PART #	DESCRIPTION
7	453-12668-43	FRONT PANEL
9	453-12726-43	REAR PANEL
10	542-30154	TOGGLE SWITCH, SPDT,MOM,15A,.25QD,(ON)OFF(ON)
11	542-14697	TOGGLE SWITCH, SPST,MAN,15A,.25QD,ON/NONE/OFF UL/CSA
12	311-18914	NUT,FACENUT,DECORATIVE,SWITCH,15/32-32
13	542-14407	TOGGLE SWITCH, SPDT,15A,.25QD,ON/OFF/ON
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

MAINLINE REEL



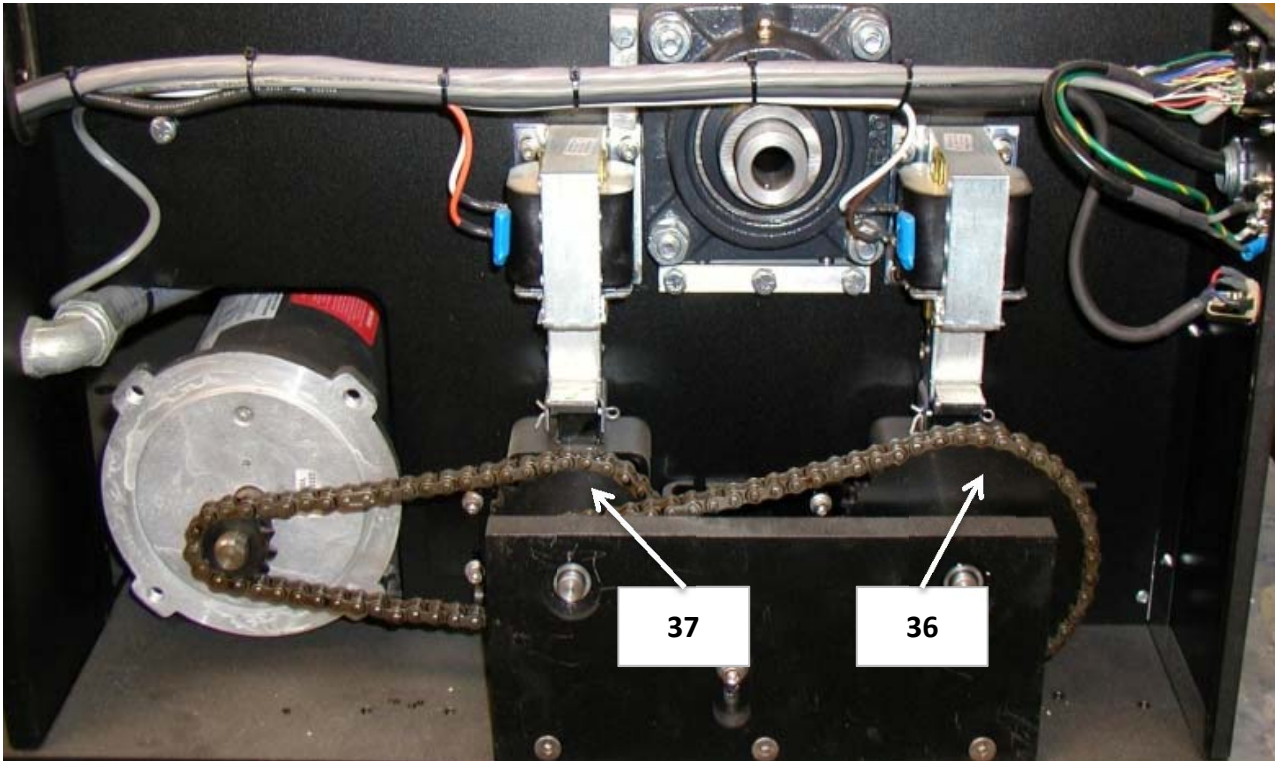
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
23	453-12610-31	SIDE PANEL, RIGHT, CENTER SUPPORT
27	805-11368	ASSY,SPRKT,CHAIN TENSIONER,MLCR
80	303-13573	TSCR,PAN,PHH,10X.75,SMS ZINC
	806-31347	ASSY,HARNESS,MLCR,DIGITAL,COMPLETE W/MTG PLATE (SMART REEL)
	448-16021	KEY,3/16 X 3/16 X .88

MAINLINE REEL



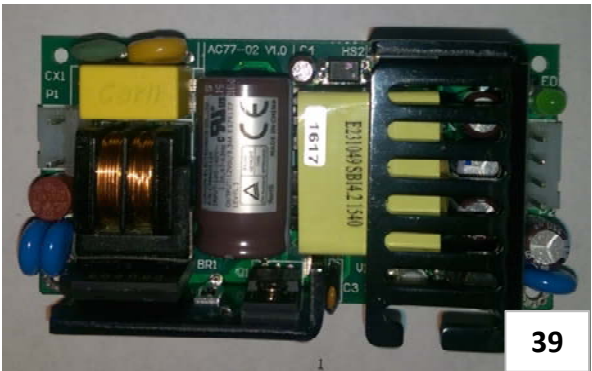
ITEM #	PART #	DESCRIPTION
4	543-10858	SOLENOID,120VAC,6.5 OHM,PULL TYPE
5	451-10487	BRKT,GUIDE,ENGAGEMENT CAM,M/L REEL
6	305-11126	BOLT,SHLDR,SKT HD,10-24,1/4 X 1/2
8	404-14210	BEARING,BALL,1.26OD,.472BORE,.394W,SEALED
10	451-12200-31	BLOCK,PINION BEARING,OUTER,4.5" TALL BLK PWDR CT
26	407-11779	SHAFT,CHAIN 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

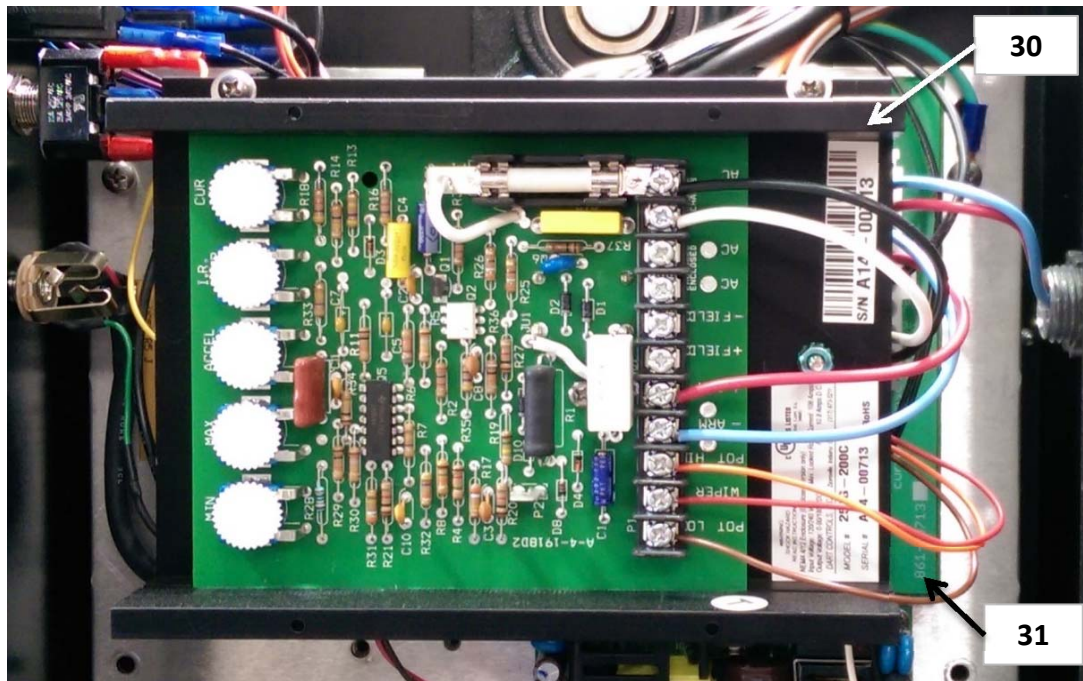


ITEM #	PART #	DESCRIPTION	QTY
<u>36</u>	805-14140	<u>LOW SPEED</u> BENDIX ASSEMBLY (WITH 1 SPROCKET)	COMP KIT
<u>37</u>	805-14198	<u>HIGH SPEED</u> BENDIX ASSEMBLY (WITH 2 SPROCKETS)	COMP KIT
	441-11191	CHAIN #35 PITCH (24" FOR LOW / 20" FOR HIGH)	

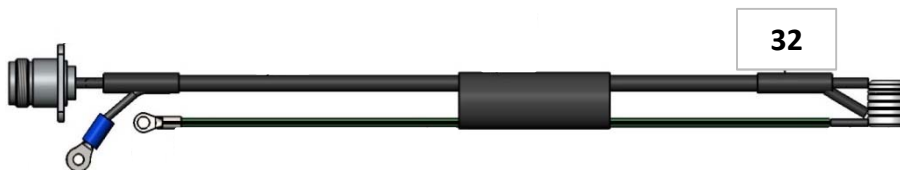
38	548-32556	PWR SPLY,12VDC, OPEN FRAME (OLD STYLE)
39	548-35924	PWR SPLY,SWITCHING,12V@3.2A,40W (NEW STYLE)



MAINLINE REEL ELECTRICAL PARTS



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
30	863-10905	CONTROLLER, MOTOR SPEED
31	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
32	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)
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560-11746	SLIP RING CONNECTOR (TWO 6" LEADS)
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560-17860	SLIP RING CAP (3 SOLDER TABS)
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560-17861	SLIP RING CONNECTOR (THREE 6" LEADS)
560-17862	SLIP RING, MERCURY WETTED, SEALED (3 CONDUCTOR)

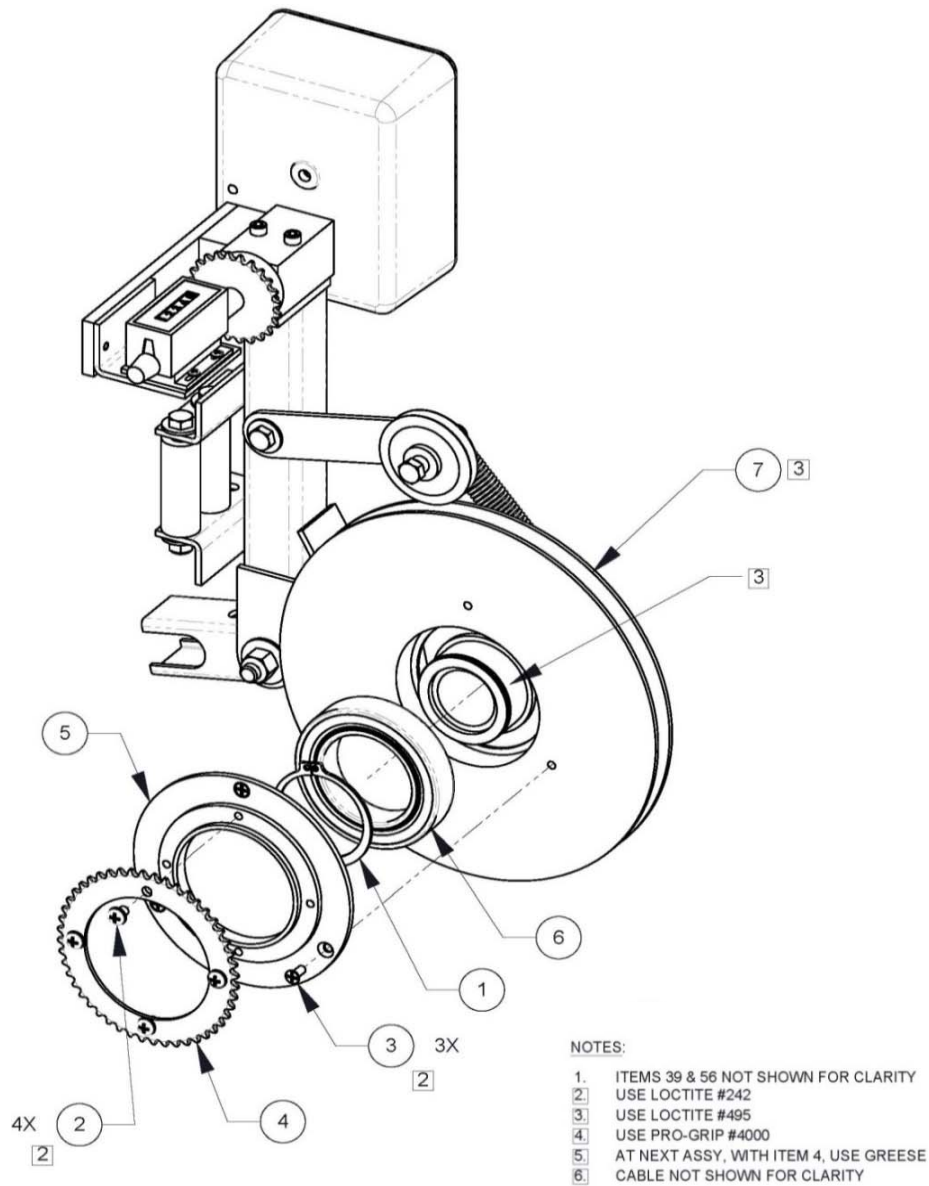


560-21904	SLIP RING, MERCURY WETTED, SEALED (8 CONDUCTOR)
560-34363	SLIP RING, MERCURY WETTED, SEALED (4 CONDUCTOR)



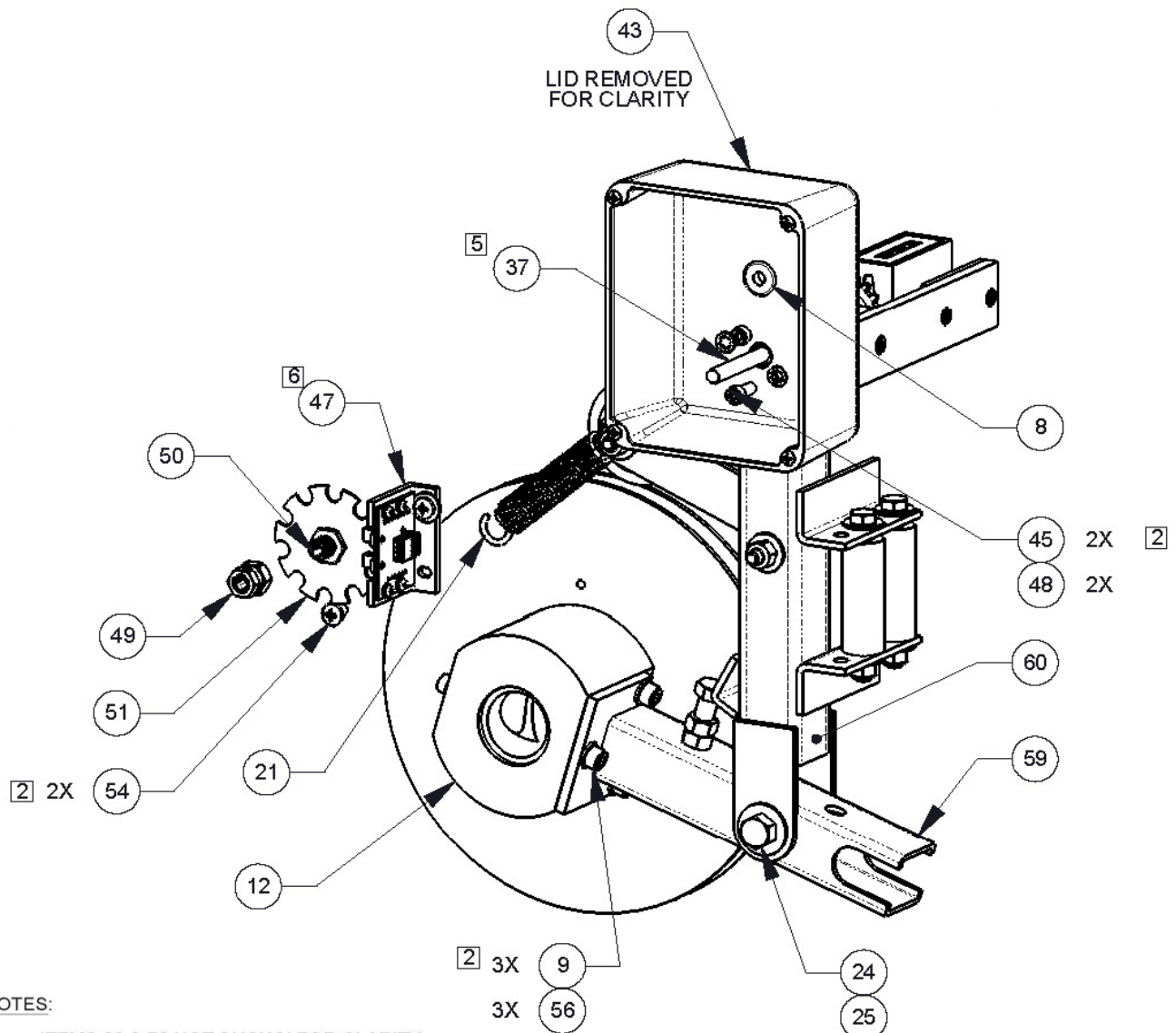
MAINLINE REEL

FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD



ITEM #	PART #	DESCRIPTION
	867-13684	ASSY, COUNTER, FTG, LEVEL WIND, STANDARD, MLCR
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:

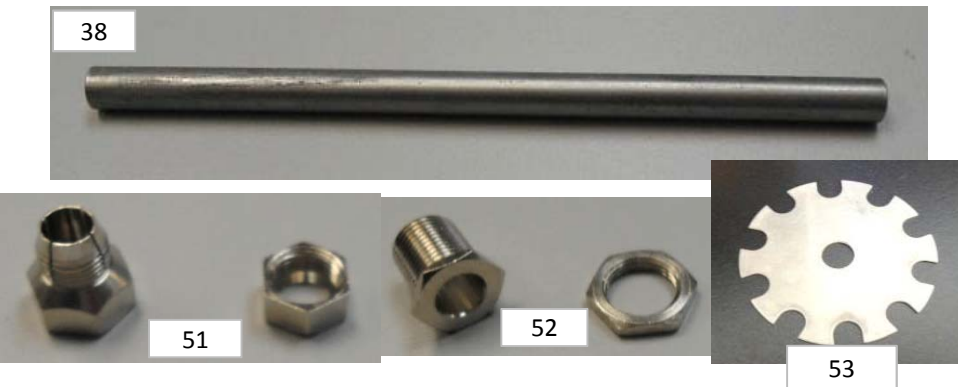
1. ITEMS 39 & 56 NOT SHOWN FOR CLARITY
2. USE LOCTITE #242
3. USE LOCTITE #495
4. USE PRO-GRIP #4000
5. AT NEXT ASSY, WITH ITEM 4, USE GREASE
6. CABLE NOT SHOWN FOR CLARITY

MAINLINE REEL

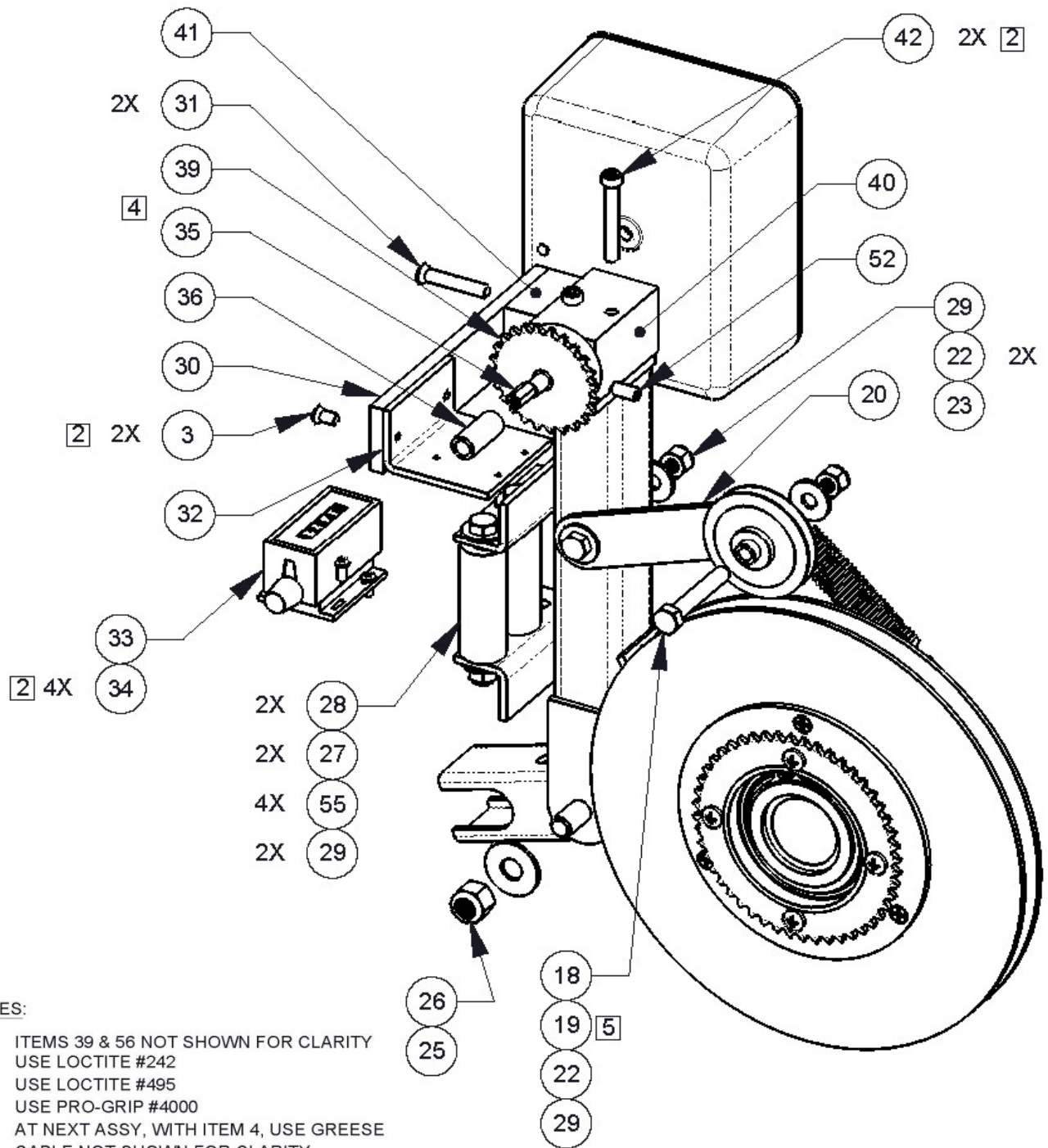
FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
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
49	505-10486	SHAFT LOCK,1/4"
50	505-19289	BUSHING,MTG,POT SHAFT-DIAL FOR FOOTAGE WHEEL
51	443-13810	WHEEL,SENSOR,FOOTAGE COUNTER
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

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	841-11414	REPAIR KIT, FOOTAGE ENCODER (DAISY WHL)	COMP KIT
38	407-12367	SHAFT, FOOTAGE COUNTER	1
53	443-13810	FOOTAGE SENSOR WHEEL (DAISY WHEEL)	1
51	505-10486	SHAFT LOCK, 1/4"	1
52	505-19289	BUSHING, MTG, POT SHAFT-DIAL, FOOTAGE WHEEL	1
49	806-18586	ASSY, HARNESS, FOOTAGE ENCODER, W/CABLE, W/BRKT	1



MAINLINE REEL FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, STD



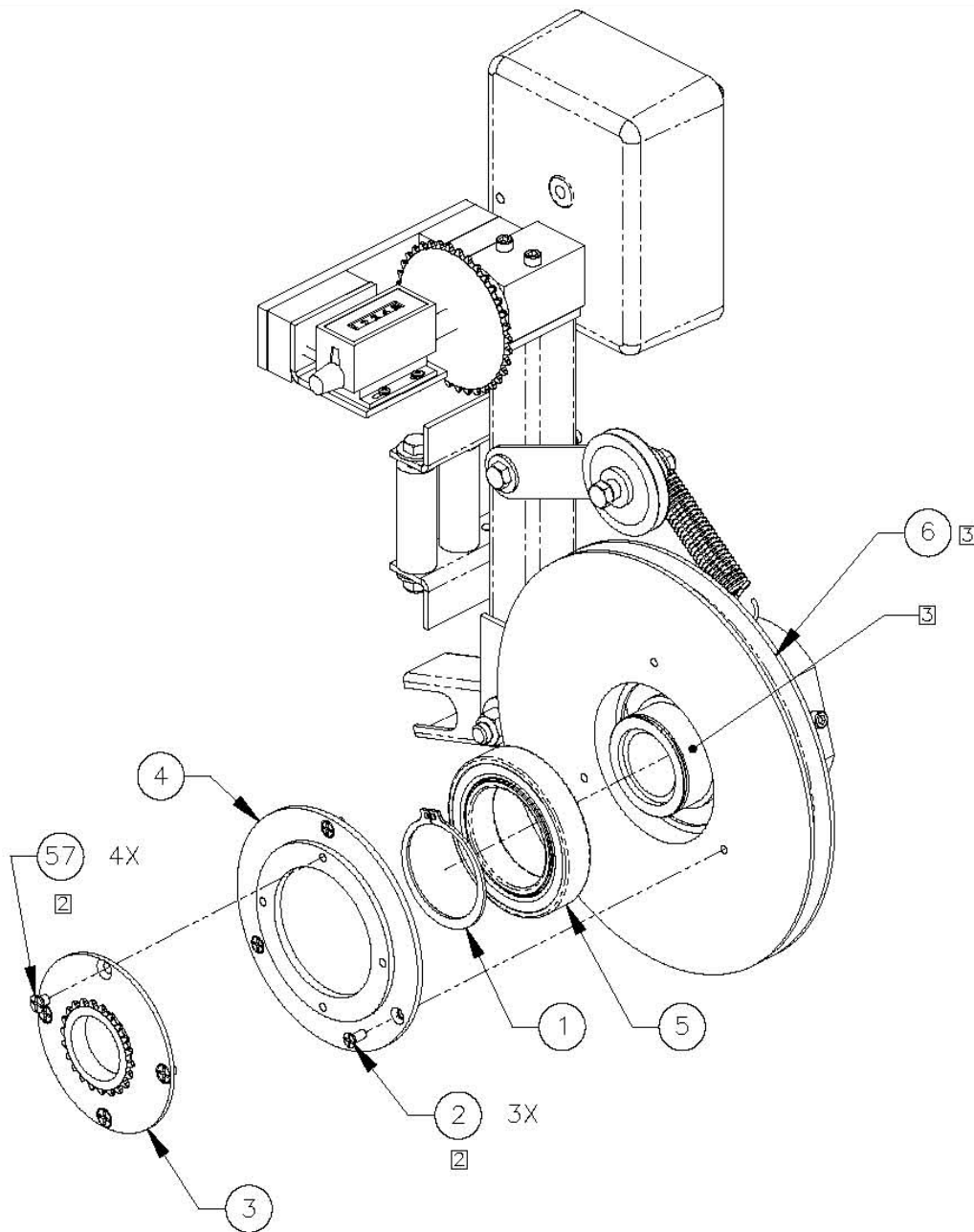
MAINLINE REEL

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

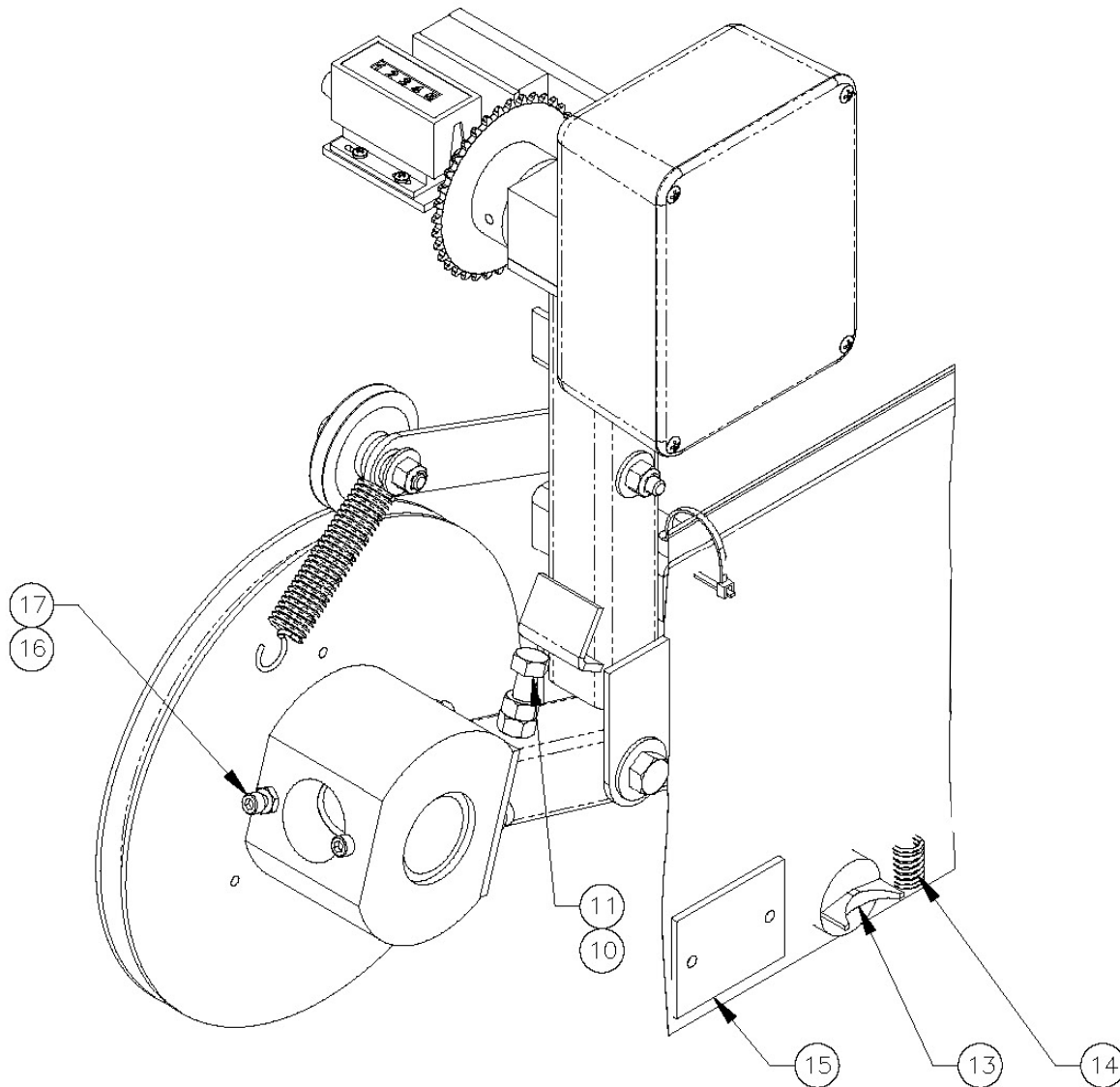
MAINLINE REEL

FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC



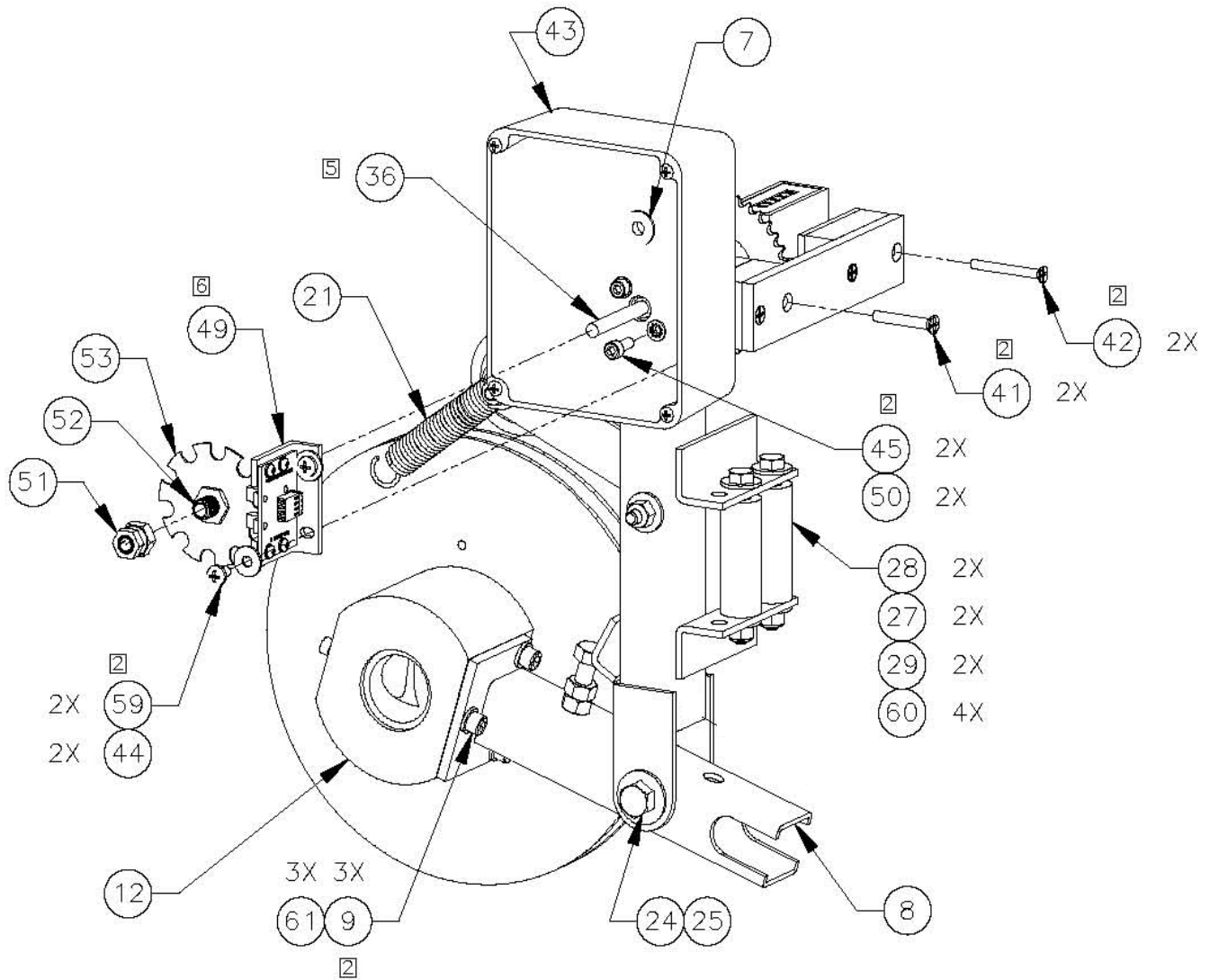
ITEM #	PART #	DESCRIPTION
	867-13662	ASSY,COUNTER,FTG,LEVEL WIND,METRIC,MLCR
1	410-12600	RING,SNAP,EXT,1.968
2	301-12707	MSCR,FLT,PHH,8-32X.37 SS
3	805-14314	ASSY,SPRKT WITH SPACER,METRIC
4	441-11074	MOUNT,SPRKT,DRIVE USED IN METRIC
5	404-13635	BEARING,BALL,3.149OD,1.968BORE,.63W,SEALED
6	443-13753-21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

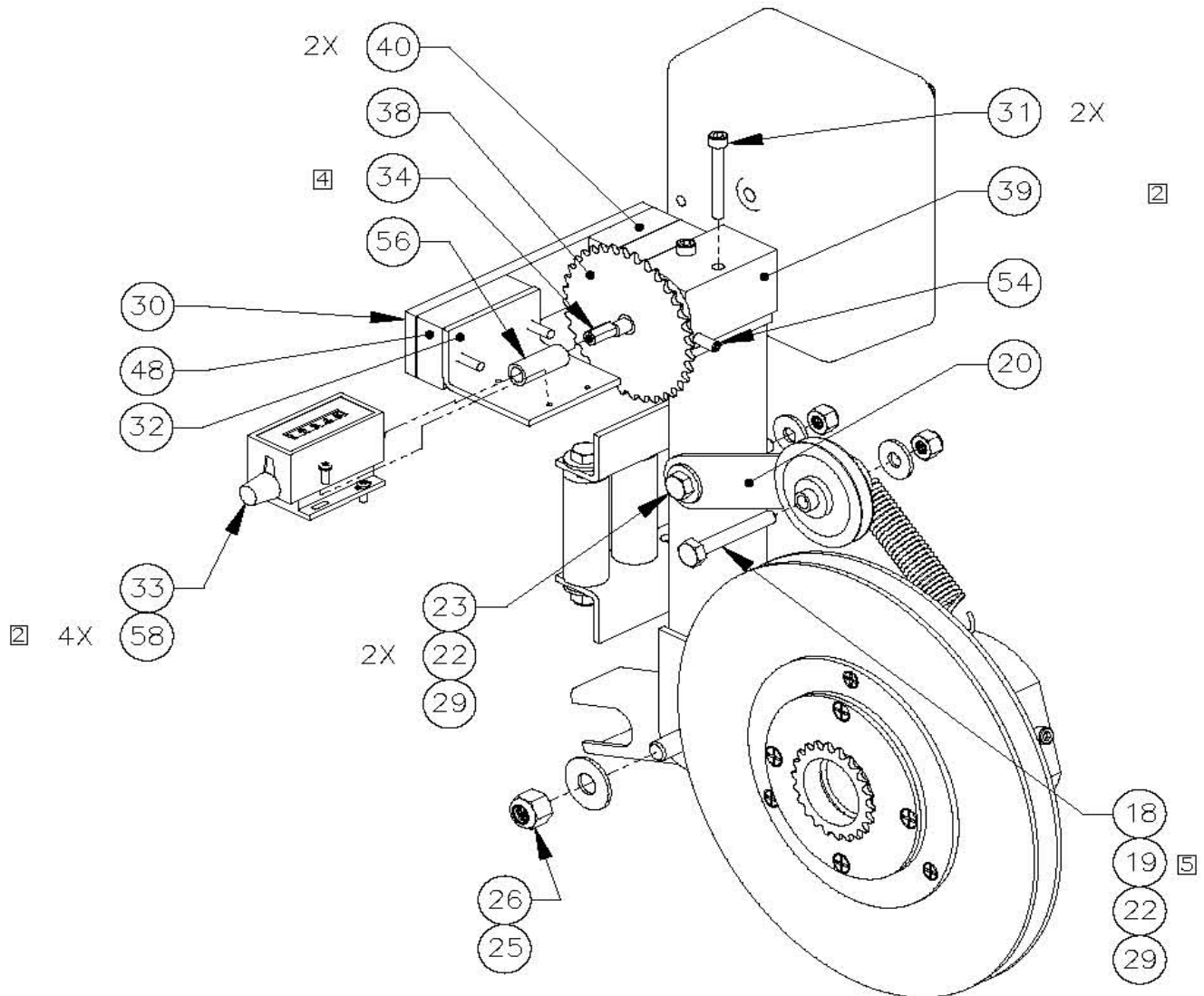


MAINLINE REEL

FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC

ITEM #	PART #	DESCRIPTION
7	449-15089	GROMMET,RUBBER,1/4ID 7/16 HOLE
8	445-13183	PINCH ROLLER ARM
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



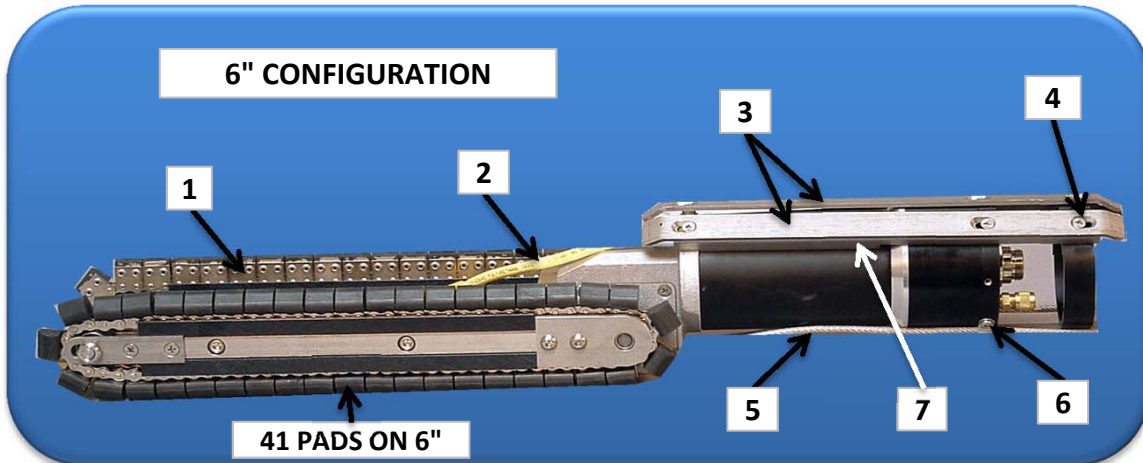
MAINLINE REEL

FOOTAGE COUNTER ASSEMBLY - LEVEL WIND, METRIC

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

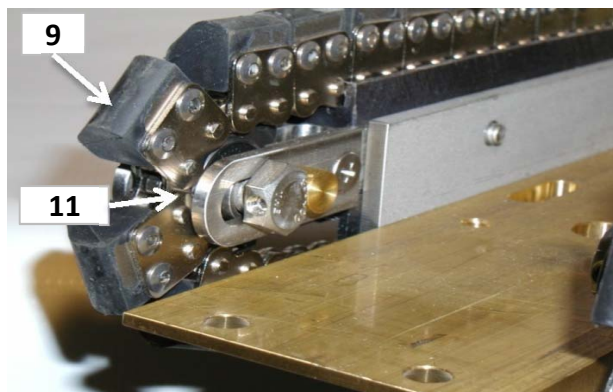
CRAWLERS

6 INCH



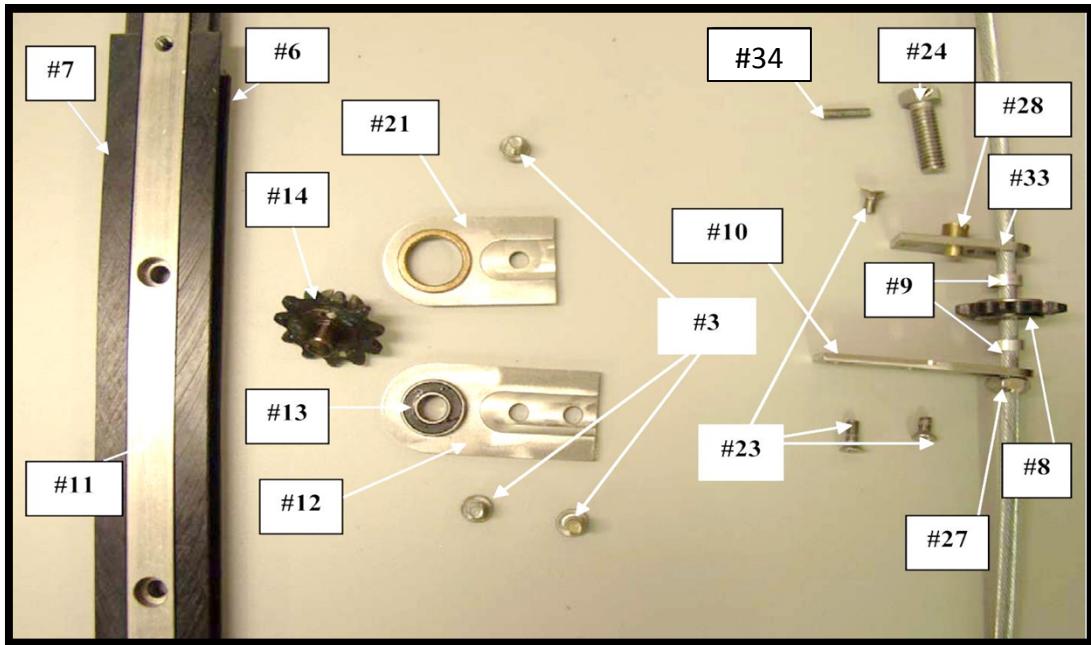
ITEM NUMBERS BELOW APPLY TO THIS PAGE ONLY

ITEM #	PART #	DESCRIPTION
1	866-30378	TREAD DRIVE ASSY (1 PER SIDE)- <u>BREAKDOWN ON NEXT PAGE</u>
2	806-34469-21	CAMERA CABLE, 6 PIN TO 4 PIN EUROFAST (6" LISTED ONLY)
3	450-30507	TOP MOTOR SKID
4	410-19071-21	PROTECTOR RING
5	867-34233	TOW BRIDLE 60", 0.25" EYELETS, 2-PIECE
6	449-18915	BRIDLE CLAMPS
6	301-12765	HARDWARE, BRIDLE CLAMPS
7	451-30597	CABLE COVER
	866-31697	6" FRONT END ASSEMBLY W/TREADS (W/OUT ACCESSORY KIT)
	453-30726	BASE PLATE, 6" CRAWLER
9	451-15387	CRAWLER PAD FOR 6" CRAWLER (DOUBLE RIVET DESIGN)
	453-31680	MOTOR MOUNTING PLATE
11	401-12771	POP RIVET .125" DIAMETER / .188" - .250" LENGTH SS
	405-33032	REAR DRIVE BUSHING
	450-30580	BOTTOM MOTOR SKID
	806-31465	6-PIN THREADED REAR BULKHEAD CONNECTOR PREWIRED
	840-35808	KIT, HARDWARE REPLACEMENT, 6" CRAWLER
	867-30584	ASSEMBLY CHAIN TREAD DRIVE #35 CHAIN W/ 41 PADS (1 PER SIDE)
	441-20987	CHAIN ONLY, #35, <u>PRICING PER FOOT, 2.7 FT. NEEDED FOR ASSY</u>



CRAWLERS

6 INCH TREAD DRIVE BREAKDOWN



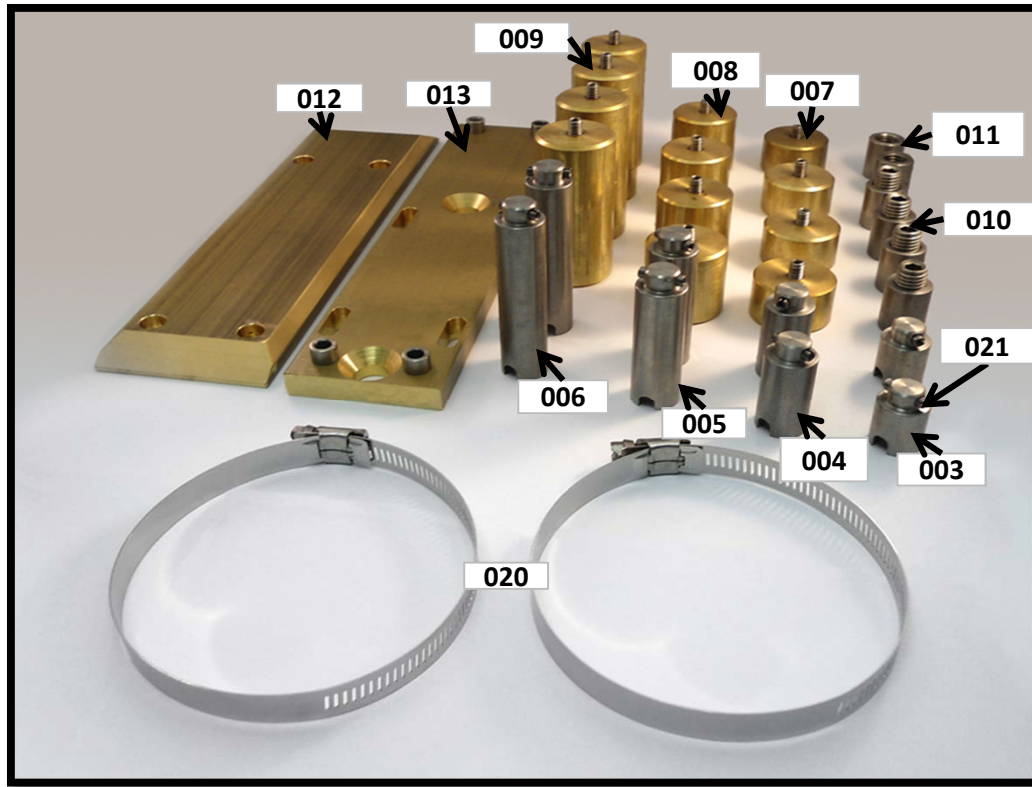
6" CRAWLER TREAD DRIVE REPLACEMENT PARTS (866-30378 BREAKDOWN)

ITEM NUMBERS BELOW APPLY TO THIS PAGE ONLY

ITEM #	PART #	DESCRIPTION
3	305-30380	MSCR, BUTTON, HXS, 1/4-20 X 0.37
6	449-30908	CHAIN GUIDE WITH RIGHT OFFSET
		NOTE: (1) LEFT AND (1) RIGHT CHAIN GUIDE ARE REQUIRED FOR EACH TRACTOR SIDE
7	449-30907	CHAIN GUIDE WITH LEFT OFFSET
8	805-33065	IDLER SPROCKET # 35 CHAIN 11 TEETH (FRONT)
9	403-32645	SPROCKET SPACER, FRONT
10	453-32640	OUTER PLATE, CHAIN TENSION ADJUST
11	451-32644	RAIL, TREAD DRIVE, 11 T
12	453-30591	BEARING PLATE
13	404-16026	SPROCKET BEARING (DRIVE AND IDLER) 1 REQUIRED FOR EACH
14	805-30763-40	DRIVE SPROCKET # 35 CHAIN 11 TEETH (REAR)
21	867-34294	ASSEMBLY PLATE
	453-32641	PLATE ONLY, ITEM 21
	405-33032	BUSHING ONLY, ITEM 21
23	301-15136	MSCR, FLAT, PHH, 10-32 X 0.37
24	305-32637	BOLT , CHAIN TENSION 6" CRAWLER
27	311-32638	NUT , CHAIN TENSION ADJUST
28	448-32642	STOP , CHAIN TENSION ADJ 6" CRAWLER
33	453-32639	INNER PLATE, CHAIN TENSION ADJUST
34	304-13574	SSCR, CUP PT, HXS, 8-32 X 0.75 SS (TENSION SCREW)

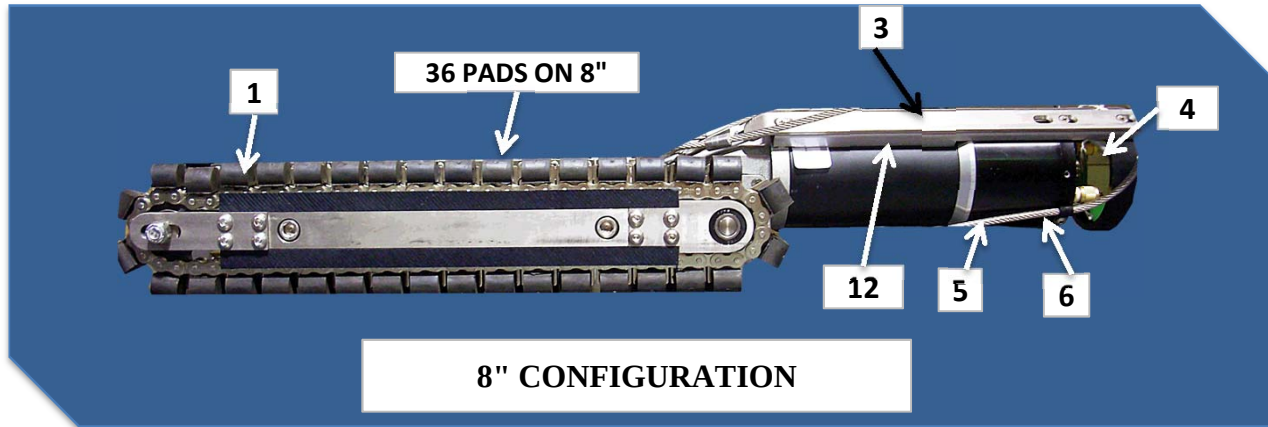
CRAWLERS

6 INCH ACCESSORIES KIT



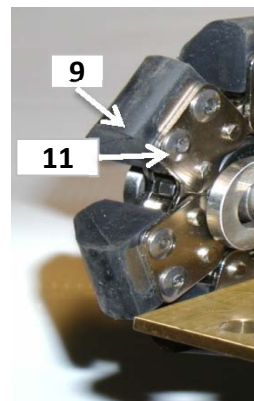
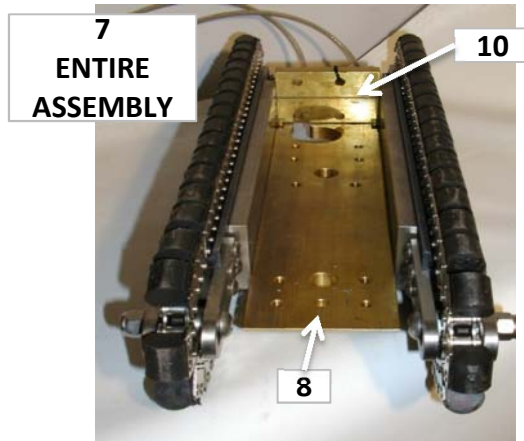
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u> <u>COMP</u>
840-30586 KIT, ACCESSORIES 6"-15" CRAWLER			KIT
003	867-30920	ASSY,COUPLING,.87" LONG,8" PIPE EXTENSION,6" CRAWLER	2
004	867-30921	ASSY,COUPLING,1.50" LONG,10" PIPE EXTENSION,6" CRAWLER	2
005	867-31713	ASSY,COUPLING,2.37" LONG,12" PIPE EXTENSION,6" CRAWLER	2
006	867-30922	ASSY,COUPLING,3.18" LONG,15" PIPE EXTENSION,6" CRAWLER	2
007	867-30925	ASSY,SPACER,.87" LONG,8" PIPE EXTENSION,6" CRAWLER	4
008	867-30926	ASSY,SPACER,1.50" LONG,10" EXTENSION,6" CRAWLER	4
009	867-30927	ASSY,SPACER,3.18" LONG,15" PIPE EXTENSION,6" CRAWLER	4
010	800-17114	ASSY,SPACER,1.0",M/L TRACTOR TREAD	4
011	402-17109	SPACER,MTG,1.0"EXTENSION,TRANSTAR-CRAWLER	2
012	453-30916	PLATE,BALLAST,BOTTOM,6" CRAWLER	1
013	867-30937	ASSY,PLATE,MTG,CAMERA,6" CRAWLER/TRANSTAR	1
020	449-12895	CLAMP,HOSE,#64,3-7/16>4-1/2,1/2" BAND,SS	2
	301-12650	MSCR,FLT,HXS,1/2-13X.75 SS	4
	301-11005	MSCR,SHCS,1/4-20X.62 SS	4
	301-11360	MSCR,FLT,HXS,1/4-20X1.25 SS	4
	301-11183	MSCR,FLT,HXS,1/4-20X.75 SS	2
	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
	634-10878	WRENCH,ALLEN,5/64,LONG ARM	1
021	400-30918	PIN (SOLD SEPARATELY)	

CRAWLERS 8 INCH



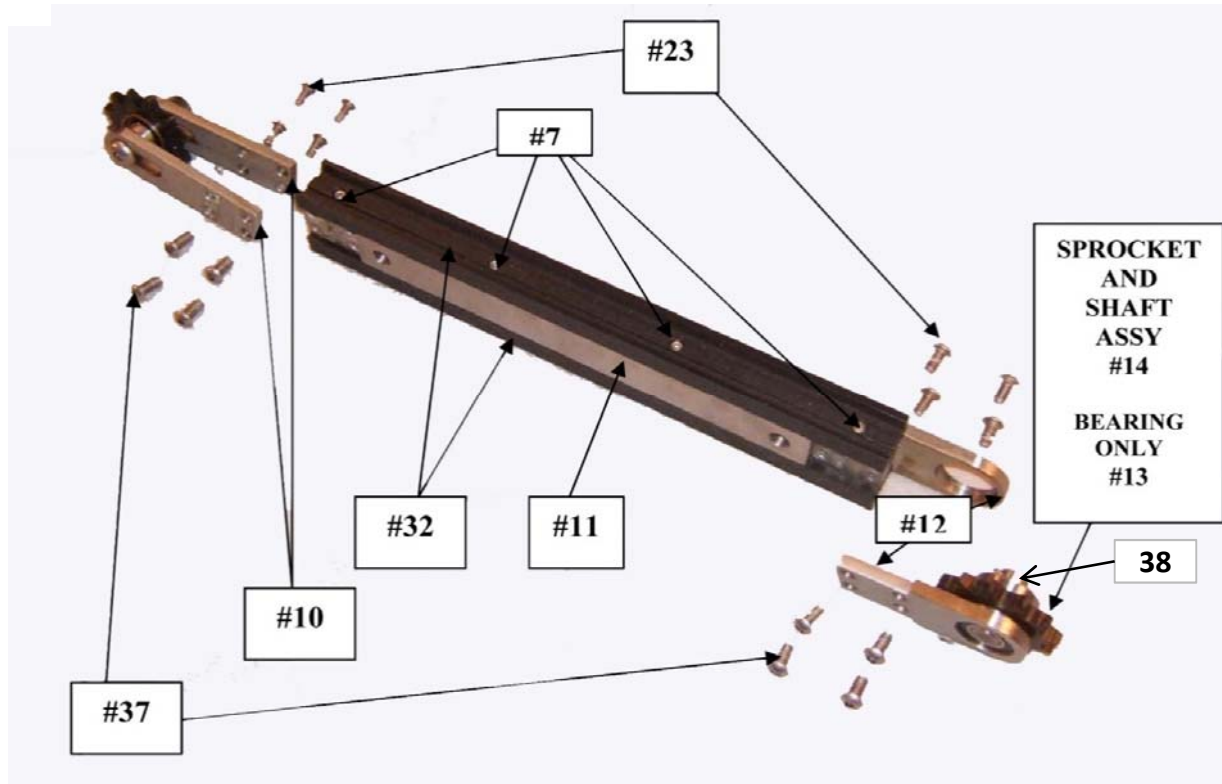
8" CRAWLER REPLACEMENT PARTS

ITEM #	PART #	DESCRIPTION
1	866-31667	ASSEMBLY TREAD DRIVE COMPLETE (1 PER SIDE)
3	450-30507	TOP MOTOR SKID
4	410-19071-21	PROTECTOR RING
5	867-34233	TOW BRIDLE
6	449-18915	BRIDLE CLAMPS
6	301-12765	HARDWARE, BRIDLE CLAMPS
12	451-30597	CABLE COVER
7	866-31900	8" FRONT END ASSEMBLY W/TREADS
8	451-24035	BASE PLATE, 8"-15"
9	451-30611	REPLACEMENT PADS (DRILLED, SINGLE OR DUAL RIVET, EACH)
10	451-24036	MOTOR MOUNTING PLATE, 8"-15"
11	401-12771	POP RIVET .125" DIAMETER / .188" - .250" LENGTH SS
	450-30580	BOTTOM MOTOR SKID
	806-30399	TOP CABLE TNCp to 6-PIN THREADED CONNECTOR (NON-LISTED ONLY)
	806-31465	6-PIN THREADED REAR BULKHEAD CONNECTOR PREWIRED
	806-34469-24	CAMERA CABLE, 6 PIN TO 4 PIN EUROFAST
	840-35806	HARDWARE REPLACEMENT, TRACK DRIVE
	867-24026	TREAD DRIVE CHAIN ASSEMBLY # 40 CHAIN, 36 PADS
	441-20988	CHAIN ONLY, #40, PRICING PER FOOT - 3 FT. NEEDED FOR ASSY



CRAWLERS

8" TREAD DRIVE BREAKDOWN



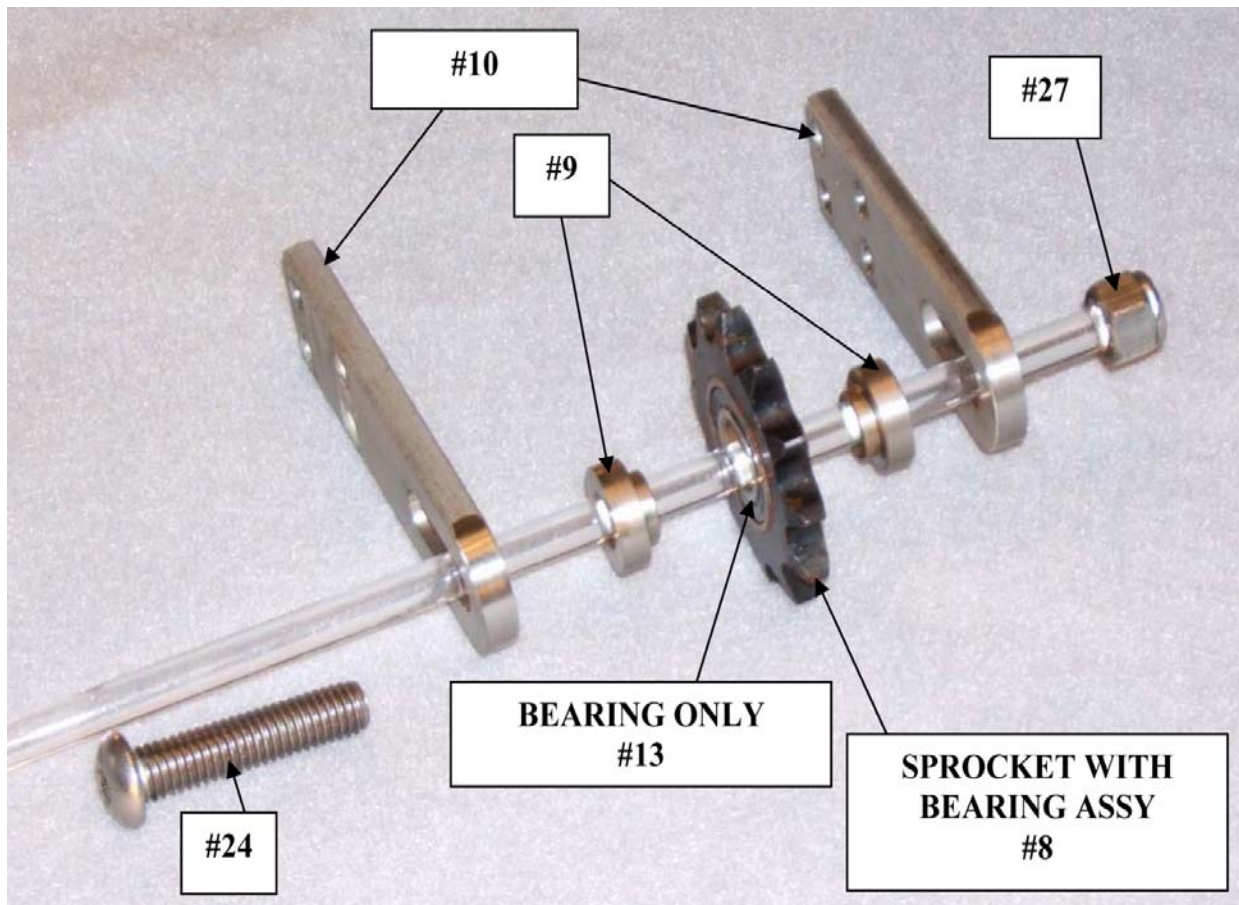
8" CRAWLER TREAD DRIVE REPLACEMENT PARTS (866-31667 BREAKDOWN)

ITEM NUMBERS BELOW APPLY TO THIS PAGE ONLY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
7	301-19935	MSCR, SHCS, 6-32 X 0.375" L, SS
10	453-24111	PLATE, IDLER SPROCKET MOUNTING
11	451-24038	TRACK RAIL, SHORT
12	453-24112	PLATE, BUSHING MOUNTING
14	805-24114-40	DRIVE SPROCKET #40 CHAIN 12 TEETH (REAR)
23	305-30380	MSCR, BUTTON, HXS, 1/4-20 X 0.37" L
32	449-24013	CHAIN GUIDE RAILS (NOTE: 2 REQUIRED PER SIDE), EACH
37	301-20607	MSCR, SHCS, 1/4-20 X 0.375" L, SS
38	408-24010	COUPLER, DRIVE, 8" PIPE, 8" CRAWLER

CRAWLERS

8" TREAD DRIVE BREAKDOWN



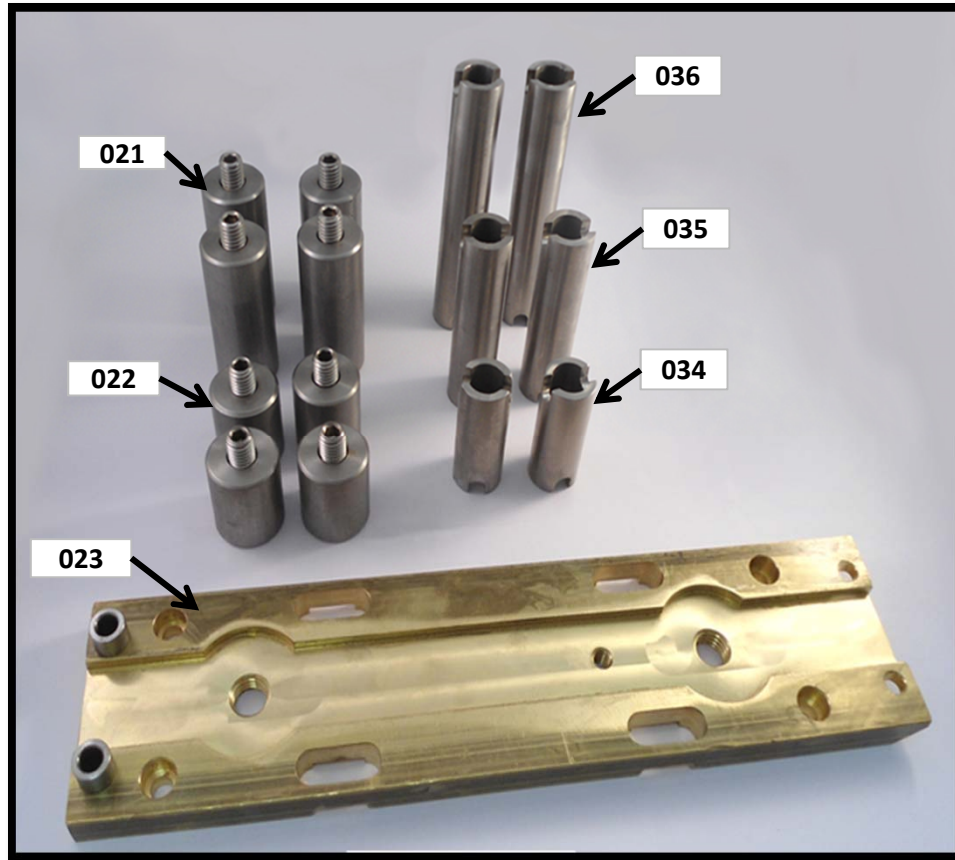
8" CRAWLER TREAD DRIVE REPLACEMENT PARTS (866-31667 BREAKDOWN)

ITEM NUMBERS BELOW APPLY TO THIS PAGE ONLY

ITEM #	PART #	DESCRIPTION
8	805-31508	IDLER SPROCKET #40 CHAIN 12 TEETH (FRONT)
9	403-24110	SPACER, IDLER SPROCKET
10	453-24111	PLATE, IDLER SPROCKET MOUNTING
13	404-13120	BALL BEARING 1.125OD,.500 BORE,.312 WIDE DOUBLED SEALED
24	305-24106	MSCR, BUTTON, HXS, 3/8-16 X 1.75" L, SS
27	309-13803	NUT, HEX, 3/8-16, NYLOCK, SS
27	309-32694	NUT, HEX, 3/8-16, <u>THIN</u> , NYLOCK, SS (NOT SHOWN)

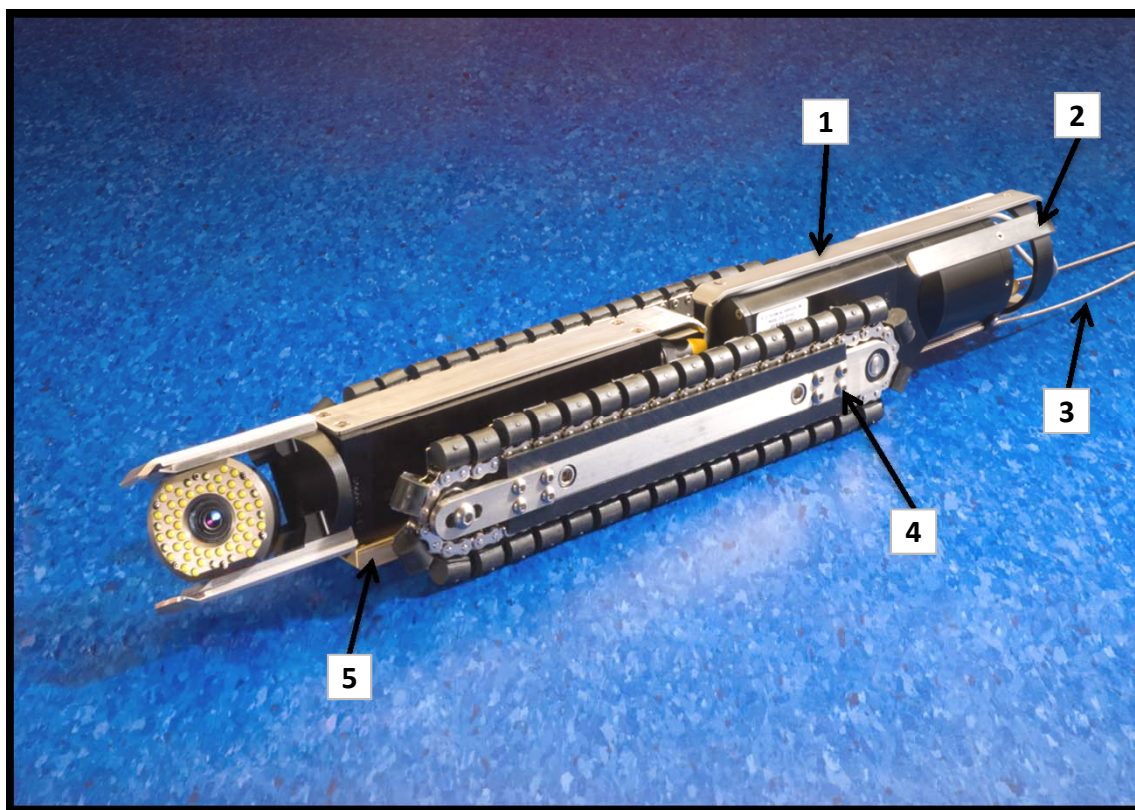
CRAWLERS

8 INCH ACCESSORIES KIT



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u> <u>COMP</u>
	840-24049	KIT, ACCESSORIES 8" - 15" CRAWLER	KIT
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
034	408-24115	COUPLER,DRIVE,10" PIPE,8" CRAWLER	2
035	408-24116	COUPLER,DRIVE,12" PIPE,8" CRAWLER	2
036	408-24117	COUPLER,DRIVE,15" PIPE,8" CRAWLE	2
	301-30717	MSCR,FLT,HXS,1/4-20X1.50 SS	3
	301-10769	MSCR,SHCS,1/4-20X1 SS	5
	301-11123	MSCR,FLT,HXS,1/4-20X.87 SS	2
	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 TRANSPORTER

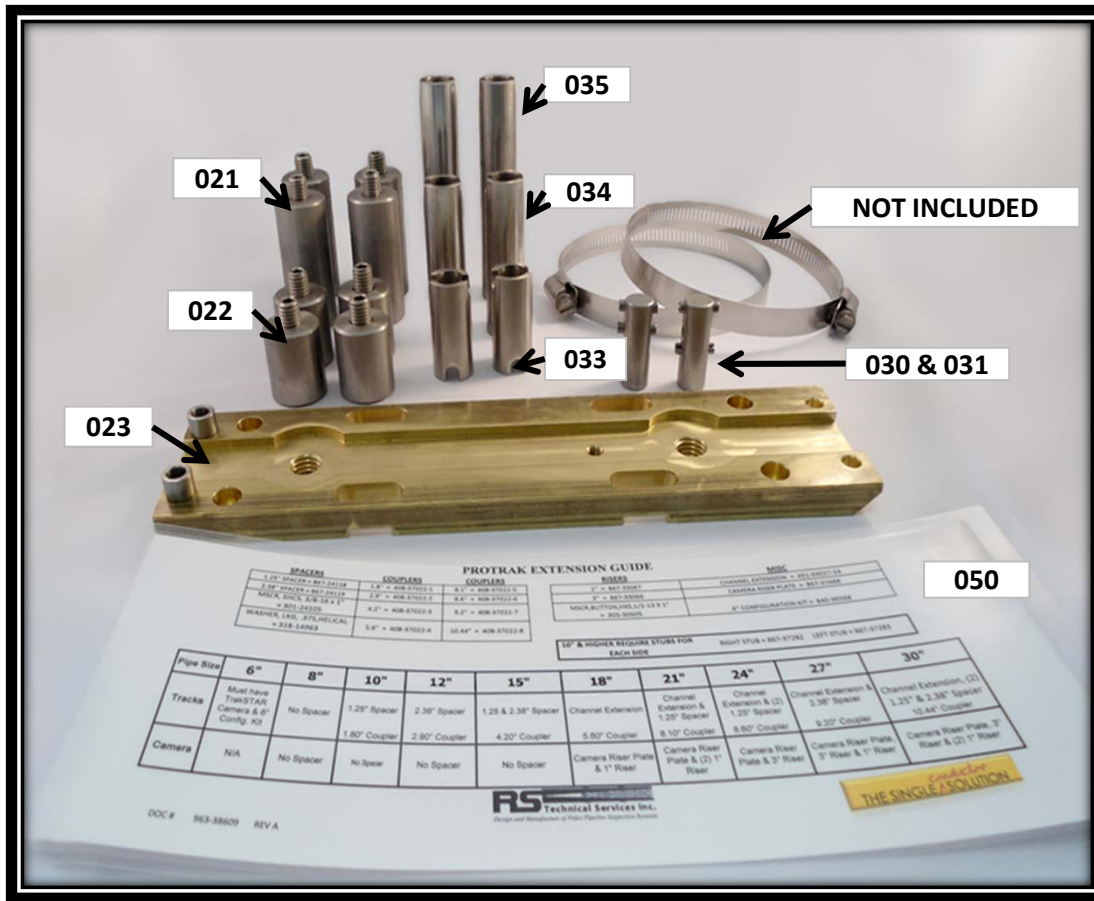


SHOWN WITH TRAKSTAR CAMERA

PROTRAK TRANSPORTER PARTS

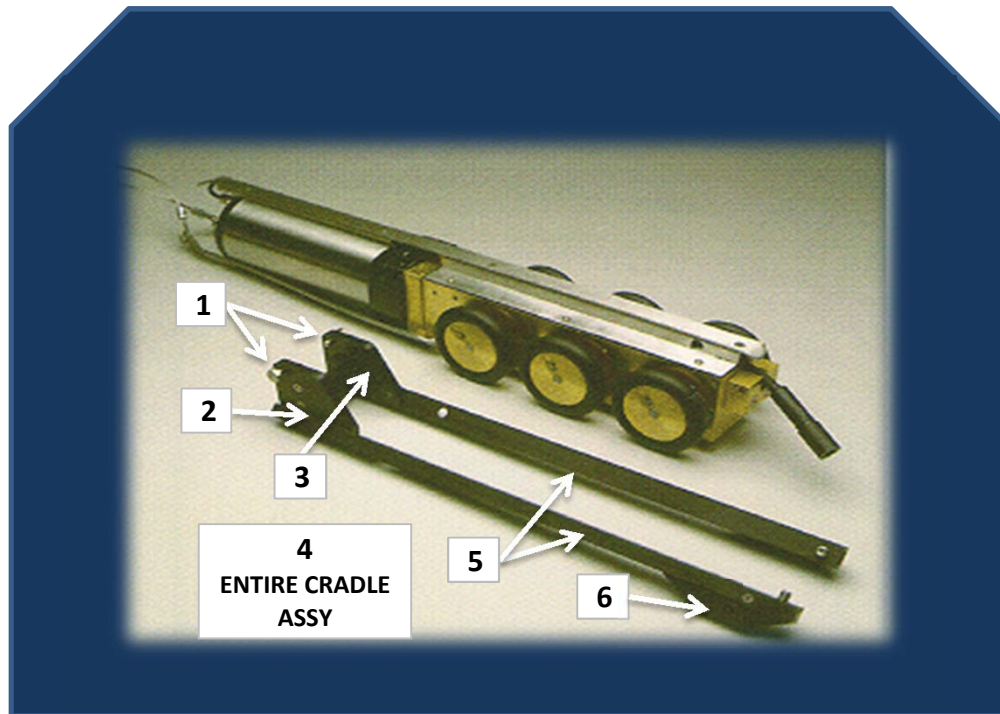
ITEM #	PART #	DESCRIPTION
1	450-36321	SKID, TOP MOTOR
2	450-36322	SKID, SIDE MOTOR
3	867-36597	BRIDLE
4	301-19935	MSCR,SHCS,6-32 X 0.375, SS
5	451-36320	BASE PLATE, 8"-15" PTC
	451-36329	BASE PLATE, 6" PTC
	403-34619	SPACERS, CAMERA MOUNTING TREAD DRIVE HARDWARE
	806-34469-24	CAMERA CABLE, 6 PIN TO 4 PIN EUROFAST
	806-38138-24	CABLE,4SKT FEM(EURO)-4PIN MALE(EURO) 24"
	840-37258	ACCESSORIES KIT
	866-36641	TREAD DRIVE, EACH
	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 COMP KIT
840-37258 KIT, ACCESSORIES, PROTRAK V2, 8-15			
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

STANDARD MAINLINE TRANSPORTER CRADLE & ACCESSORIES



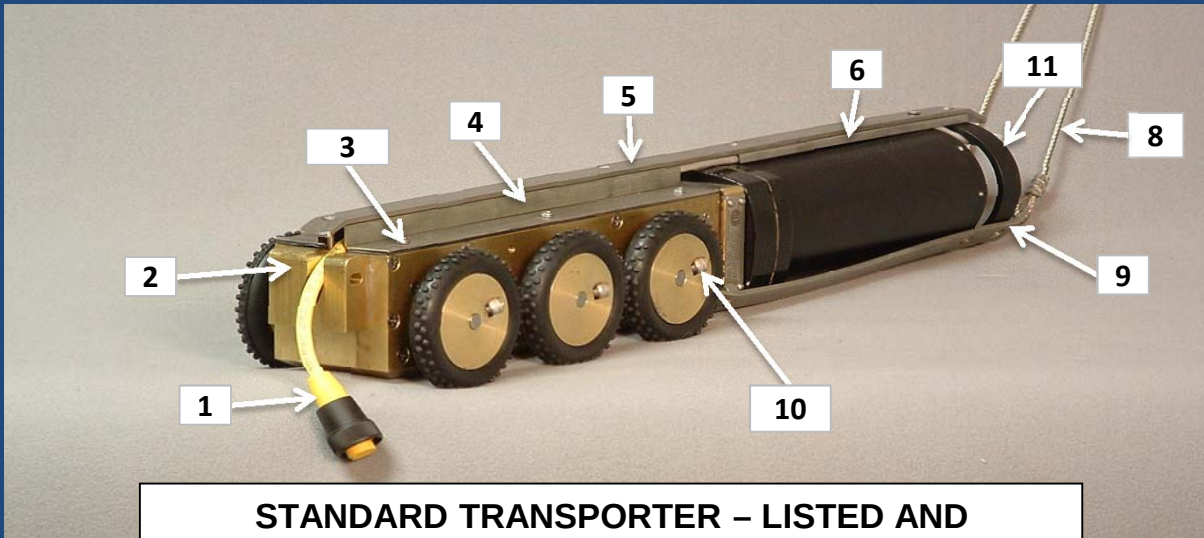
TRACTOR CRADLE PARTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	305-15315	BOLT, PIVOT, TRACTOR CRADLE
2	453-14802-21	RIGHT SIDE CRADLE PLATE
3	453-10965-21	LEFT SIDE CRADLE PLATE
5	451-17765	CRADLE FORKS, SQUARE TUBE OE2 (2 REQUIRED)
6	450-17766	SKID RUNNER, TRACTOR CRADLE, 1/2"X1/2" DELRIN
	301-11890	MSCR, SHCS, 5/16-18 X 0.50 SS
	301-18563	MSCR, HEXHD, ¼-20 x 1.50 (CENTER PLATE "JACK" BOLT)
	309-12653	NUT, HEX, ¼-20 (CENTER PLATE "JACK" BOLT NUT)
	453-30321-21	CENTER CRADLE PLATE
	800-21074	CRADLE FORKS ASSY, OE3/NOVASTAR
	800-33357	CRADLE FORKS ASSY, OMNISTAR
	840-18252	KIT, UPGRADE, SS CRADLE FORK (2 FORKS)

TRACTOR CRADLE ASSEMBLY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	800-15305	RACK, STORAGE, TRACTOR
4	800-17767	CRADLE ASSY FOR <u>OEI/OEII</u>
4	800-21075	CRADLE ASSY FOR <u>OEIII & NOVASTAR</u>
4	800-33353	CRADLE ASSY FOR <u>OMNISTAR</u>

STANDARD MAINLINE TRANSPORTER CURRENT STYLE



**STANDARD TRANSPORTER – LISTED AND
CERTIFIED SAFE FOR USE IN A WET ENVIRONMENT**

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	806-19668	TOP CABLE, 6 PIN FEMALE TO <u>TNC</u>
1	806-34469-33	TOP CABLE, 6 PIN FEMALE TO <u>4 PIN EUROFAST</u>
2	453-18594	BRASS BLOCK & CRADLE MOUNT
3	453-14164	GEARBOX TOP PLATE COVER
4	451-14451	TOP BODY RAIL
5	450-19093	TOP SKID (REPLACES 450-10842)
6	451-19072	TOP MOTOR RAIL
8	867-12313	BRIDLE, TOW, 18"
9	807-21024	BOTTOM SKID SET <u>WITH BRIDLE</u> (REPLACES 450-13985)
9	450-19092	BOTTOM SKID SET <u>W/OUT</u> BRIDLE
10	301-10651	WHEEL MOUNTING HARDWARE
11	840-21023	NEXT PAGE
	301-12243	SCREW, MSCR, FLT. PHH 8-32 X .37, SS (TOP SKID & CBL COVER)
	301-12707	SCREW, MSCR, FLT, PHH 8-32 X .37 SS (4 REQ FOR SKID BRKT)
	451-14432	MTG BRACKET, SKID, BOTTOM (2 REQUIRED)
	635-17887	MOTOR ONLY, DC, M/L TRACTOR

STANDARD MAINLINE TRANSPORTER CURRENT STYLE

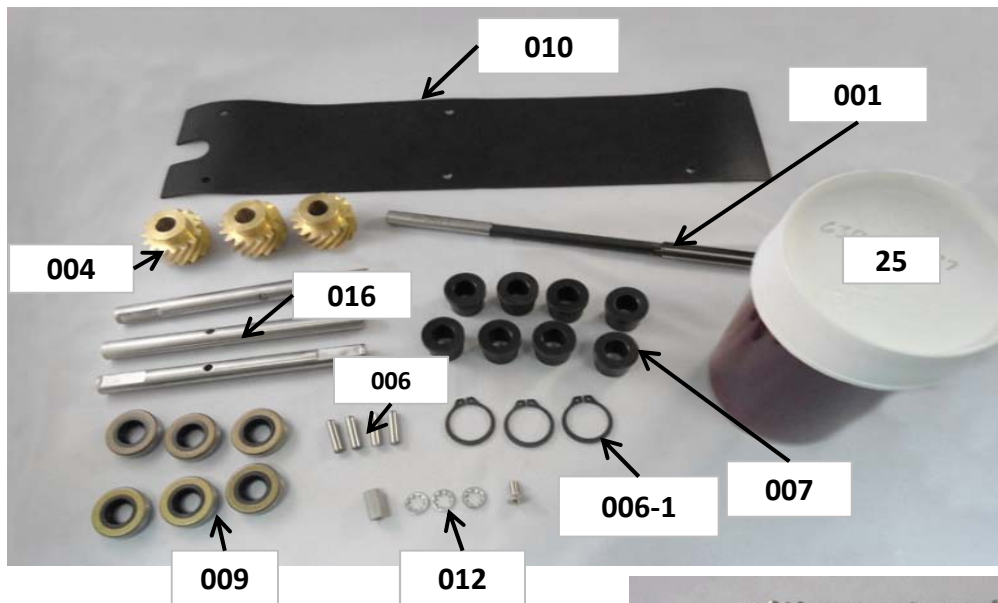
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u> COMP
11	840-21023	PROTECTOR KIT	KIT
001	410-19071-21	RING PROTECTOR	1
002	451-19072	TOP MOTOR RAIL	1
003	450-19093	TOP TRACTOR SKID	1
004	807-21024	BOTTOM SKID SET	1
005	301-12707	8-32 X 3/8" FLT. HD SCREW	2
006	301-12359	8-32 X 1/2" FLT. HD SCREW	1

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	400-10656	PIN, MOTOR MOUNTING
	453-14164	COVER, GEAR, MAINLINE TRACTOR
	800-15305	MAINLINE TRACTOR STORAGE MOUNT BRACKET
7	867-20813	CLUTCH, REVERSING, M/L TRACTOR
	861-21321	PCB, TRACTOR, RELAY/FILTER, 'A' MOTOR (LOCKED ROTOR)
	861-31755	PCB, RELAY/FILTER, 'A' MOTOR, BLT, ISOLATED SAFETY GND (LISTED)
	861-32706	PCB, PWR SPLY, TYPE C, MLT (LISTED M/L TRACTOR)
	861-33241-2	PCB, TRACTOR DUAL TONE DECODER/CONTROLLER

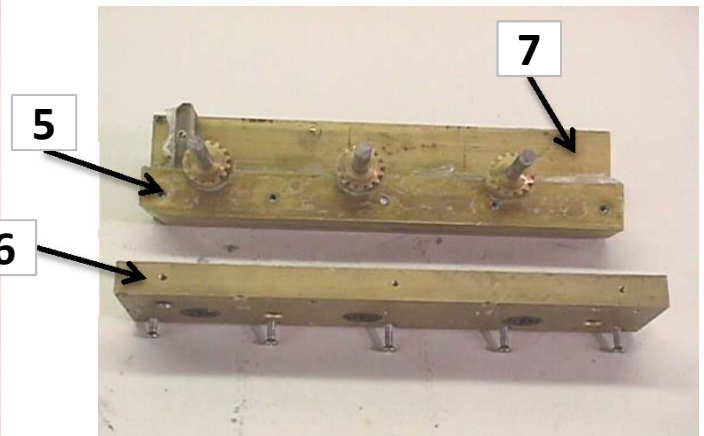
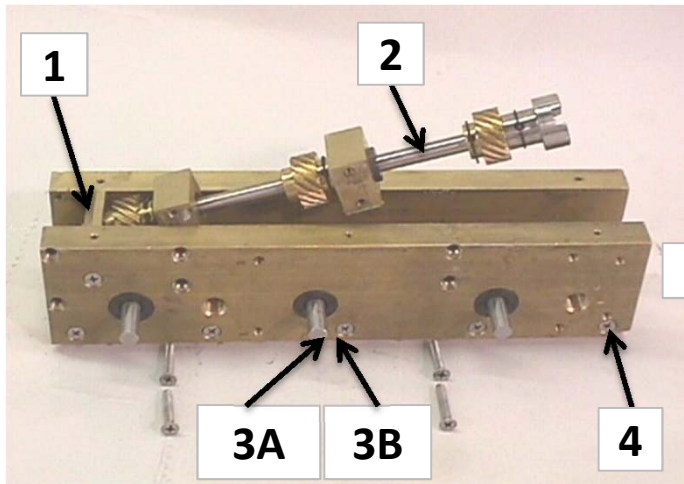


STANDARD TRANSPORTER TRACTOR BODY REBUILD KIT

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	840-21285	REBUILD KIT, TRACTOR BODY	COMP KIT
001	633-15420	REAMER, .379" FOR TRACTOR AXLE BUSHING	1
002	840-31609	MAIN DRIVE AXLE ASSEMBLY REPLACEMENT KIT	1
	407-20405	AXLE MAIN DRIVE <u>ONLY</u>	1
004	441-20406	GEAR,DOUBLE HUB,BRASS,MLT	3
006	400-20021	DOWEL PIN	4
006-1	410-13180	SNAP RING, EXT.750	3
007	405-10658	AXLE BUSHINGS .375" I.D.	8
009	439-10719	SEAL, TRACTOR AXLE FOR 3/8" DIAMETER AXLE	6
010	439-10778	GASKET,TOP,MAINLINE TRACTOR	1
012	840-20821	GEAR COVER STANDOFF REPAIR KIT	1
016	407-20407	WHEEL DRIVE AXLES ONLY	3
25	630-12577	GREASE, SEMI-FLUID UTILITY TYPE 3 8 OZ. JAR	1
26	840-11296	HARDWARE KIT (BREAKDOWN ON PAGE 89)	1



STANDARD TRANSPORTER TRACTOR BODY REBUILD



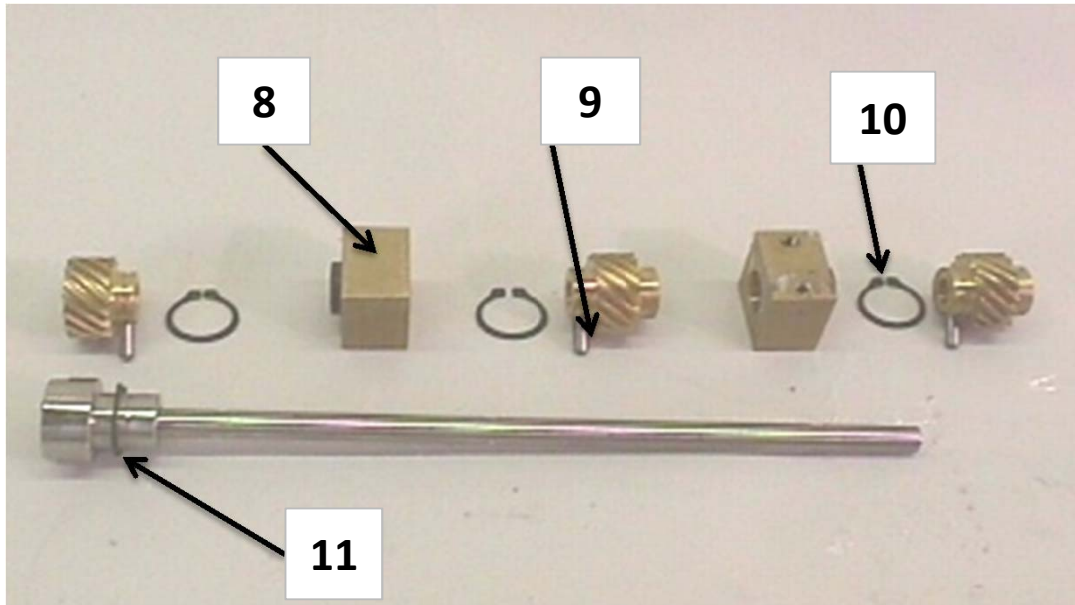
WHEN INSTALLING NEW GEARS ON MAIN DRIVE AXLE SHAFT OR REPLACING ENTIRE ASSY, THE CENTER BUSHING BLOCK IS RE-INSTALLED ON THE SHAFT WITHOUT A BUSHING. THIS REDUCES DRAG ON THE MOTOR, AND A BUSHING IS NOT NECESSARY FOR SUPPORT. IT MUST BE RE-INSTALLED TO PLUG THE HOLES IN THE TRACTOR SIDE PLATES.

ITEM #	PART #	DESCRIPTION
1	451-15092	GREASE DAM
2	840-31609	KIT,AXLE,MAIN DRIVE,REPLACEMENT MLT/MLX
3A	805-19449	WHEEL DRIVE AXLE & GEAR ASSEMBLY (INCLUDES PIN & CLIP)
3B	407-20405	MAIN DRIVE AXLE ONLY
4	301-13856	SCREWS, MSCR, FLT, PHH, 10-32 X 1-25, SS
5	453-15447	BOTTOM BASE PLATE, BRASS
6	453-15565	LEFT SIDE PLATE, BRASS
7	453-15624	RIGHT SIDE PLATE, BRASS
13	405-10658	BUSHING,TRACTOR AXLE,3/8",DELRIN
14	840-20808	KIT, GEAR, <u>DOUBLE HUB</u>
	840-20809	KIT, GEAR, <u>SINGLE HUB</u>
	840-37638	KIT, THREAD REPAIR, MOTOR MTG PLATE

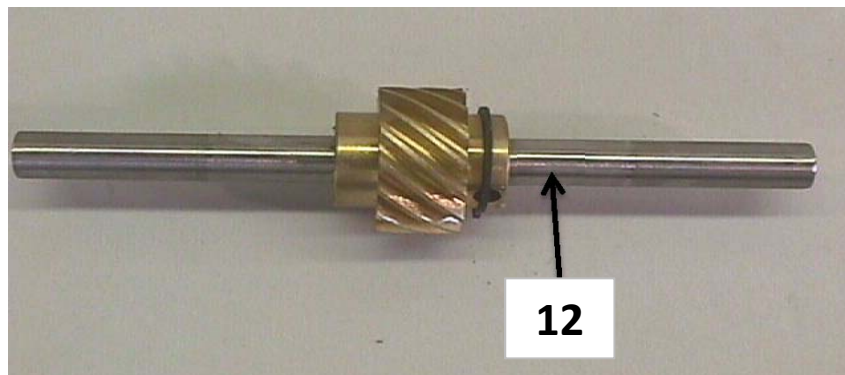
NOTE: THESE BUSHINGS MUST BE REAMED WITH A .379-INCH REAMER AFTER BEING INSTALLED - ORDER RST PART #633-15420



STANDARD TRANSPORTER TRACTOR BODY REBUILD



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
8	606-13439	MAIN DRIVE BEARING BLOCK (DOES NOT INCLUDE BUSHING)
9	400-20021	PIN,DOWEL,.1563"DIA X .625"L,416SS,HRD RC36-40
10	410-13180	RING,SNAP,EXT,.750
11	408-20423	COUPLING CLUTCH, FEMALE
12	407-20407	AXLE <u>ONLY</u> , WHEEL DRIVE,PIN/CLIP STYLE,MLT



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	407-11484	8" AXLE EXTENSION (SHANK 1" LONG), 6 REQUIRED
	407-11366	10" AXLE EXTENSION (SHANK 1.75" LONG), 6 REQUIRED
	407-11425	12" AXLE EXTENSION (SHANK 3.5" LONG), 6 REQUIRED

STANDARD TRANSPORTER HARDWARE KIT

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u> <u>COMP</u> <u>KIT</u>
	840-11296	HARDWARE KIT	
301-11653		MSCR, PAN, PHH, 6-32 X 1/4", SS (TOP PLATE COVER)	
301-12707		MSCR, FLT, PHH, 8-32 X 3/8", SS (CENTER 2 HOLES TOP RAIL)	
304-18177		SSCR, HALFD OG PT, HXS, 10-32 X 0.38 SS (HOLDS MOTOR TO BRASS, 2 BOTTOM HOLES)	
301-12243		MSCR, FLT, PHH, 8-32 X 1", SS (FRONT HOLE OF THE TOP RAIL)	
318-14730		WASHER, LKG, #8 INT. TOOTH SS (UNDER 8-32 X 0.37")	
309-12479		NUT, HEX, 8-32 SS (SECURES THE 8-32 X 0.37" SCREW W/#8 WASHER)	
301-12359		MSCR, FLT, PHH, 8-32 x 1/2" SS (1 - BACK HOLE OF THE TOP RAIL) (2 - SKID BRACKET ONTO BRASS) (4 - HOLD SKIDS TO TRACTOR)	
301-13856		10-32 X 1 - 1/4" PHIL FLAT SS (SIDE PLATES TO BOTTOM PLATE)	
301-13571		10-32 X 1" PHIL FLAT SS (4 SIDE PLATES TO FRONT PLATE) (2 SIDE PLATES TO DAM)	
301-10651		1/4-20 X 1/2" SOCKET HEAD CAP SCREW SS	
304-10889		1/4-20 X 3/8" SET SCREW SS	
318-14614		WASHER, LKG, #8, INT TOOTH SS (UNDER 6-32 X 1/4" PANS ON COVER) (2) 304-19876 SSCR, HALFD OG PT, HXS, 10-32 X 1/4" SS	



STANDARD TRANSPORTER BACK PLATE REPLACEMENTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	802-11352	3 PIN-TNC TRACTOR BACK PLATE ASSY
	802-17886	3 PIN-TNC TRACTOR BACK ASSY, INCLUDING CIRCUIT BOARDS
	802-31468	6 PIN-TNC TRACTOR BACK ASSY
	802-31479	6 PIN-TNC TRACTOR BACK ASSY, INCLUDING CIRCUIT BOARDS
	801-33275	6 PIN-EURO TRACTOR BACK (LISTED) ASSY
	802-32505	6 PIN-EURO TRACTOR BACK (LISTED) ASSY, INCLUDING CIRCUIT BOARDS
	453-13930-21	BACK PLATE ONLY



802-11352



802-31468



802-32505

STANDARD TRANSPORTER TIRES & WHEELS

3.5" KNOBBY TIRE REPLACEMENTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	443-15559	TIRE, STUDDED KNOBBY
	443-15618	TIRE, KNOBBY



KNOBBY ASSEMBLIES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	443-30222	KNOBBY WHEEL ASSEMBLY W/TIRE, SPECIAL 1/2" AXLE
	443-10603	ASSY, WHEEL, KNOBBY TIRE, STANDARD 3/8" AXLE
	301-10651	HARDWARE, STANDARD VERSION , MSCR, SHCS, 1/4-20X.50 SS
	304-10889	HARDWARE, OLDER VERSION , SSCR, CUP PT, HXS, 1/4-20X.37 SS

HI-TRACTION

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-30701	1/2" AXLE, 8"-18"
	867-31715	1/2" AXLE, STUDDED
	443-10190	STANDARD 3/8" AXLE , 8"-18"
	443-21569	STANDARD 3/8" AXLE , STUDDED
	301-10651	MSCR, SHCS, 1/4-20X.50 SS



BALLOON KNOBBY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-21714	KNOBBY
	301-10651	MSCR, SHCS, 1/4-20X.50 SS



STANDARD TRANSPORTER MEGATRAKS



KIT

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-35687	KIT (SIMILAR TO ITEMS IN PHOTO ABOVE)
	304-30671	HARDWARE
	634-11114	ALLEN WRENCH

WHEEL ASSEMBLIES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
2.70"	860-36813	ASSEMBLY ,HUB WITH MEGATRAK,2.70",MLT
3.30"	860-36814	ASSEMBLY ,HUB WITH MEGATRAK,3.30",MLT
4.40"	860-36815	ASSEMBLY ,HUB WITH MEGATRAK,4.40",MLT

WHEELS ONLY

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



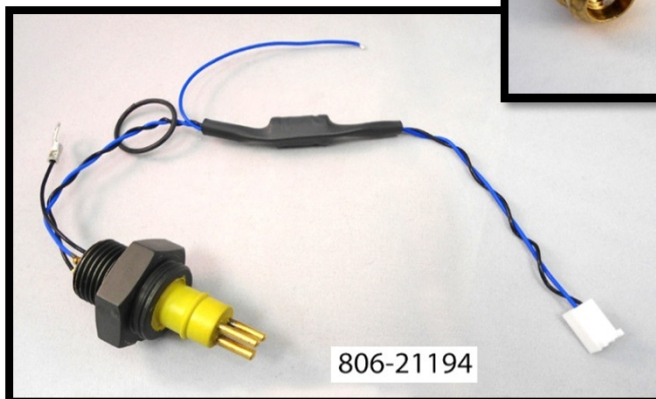
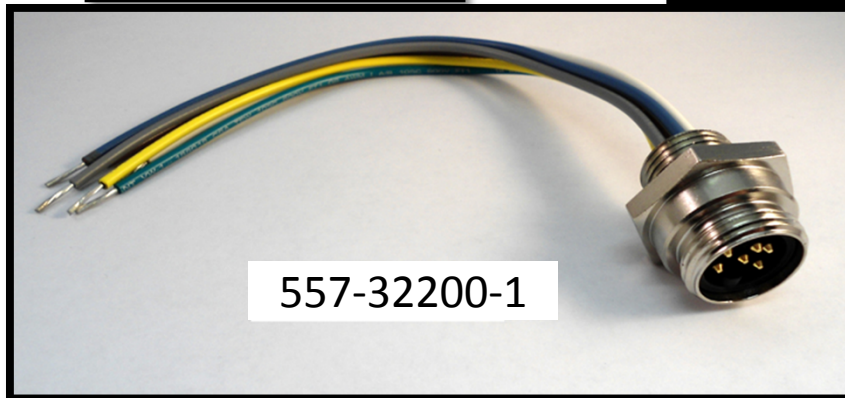
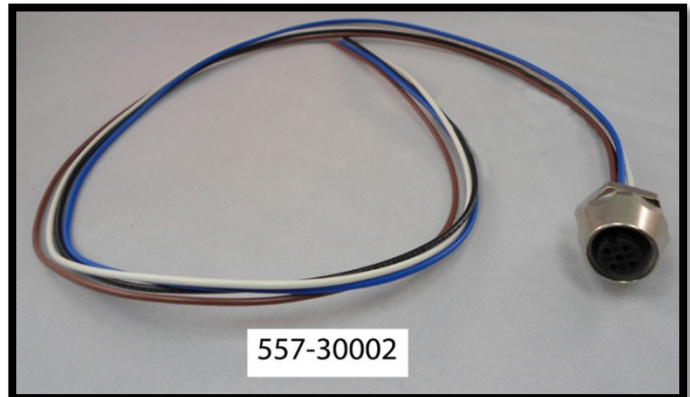
HUB ASSEMBLIES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-35898	HUB,MEGATRAK
	304-30671	SSCR,CUP PT,HXS,5/16-18X.50 18-8
	443-35896	HUB ONLY
	410-36012	SNAP RING

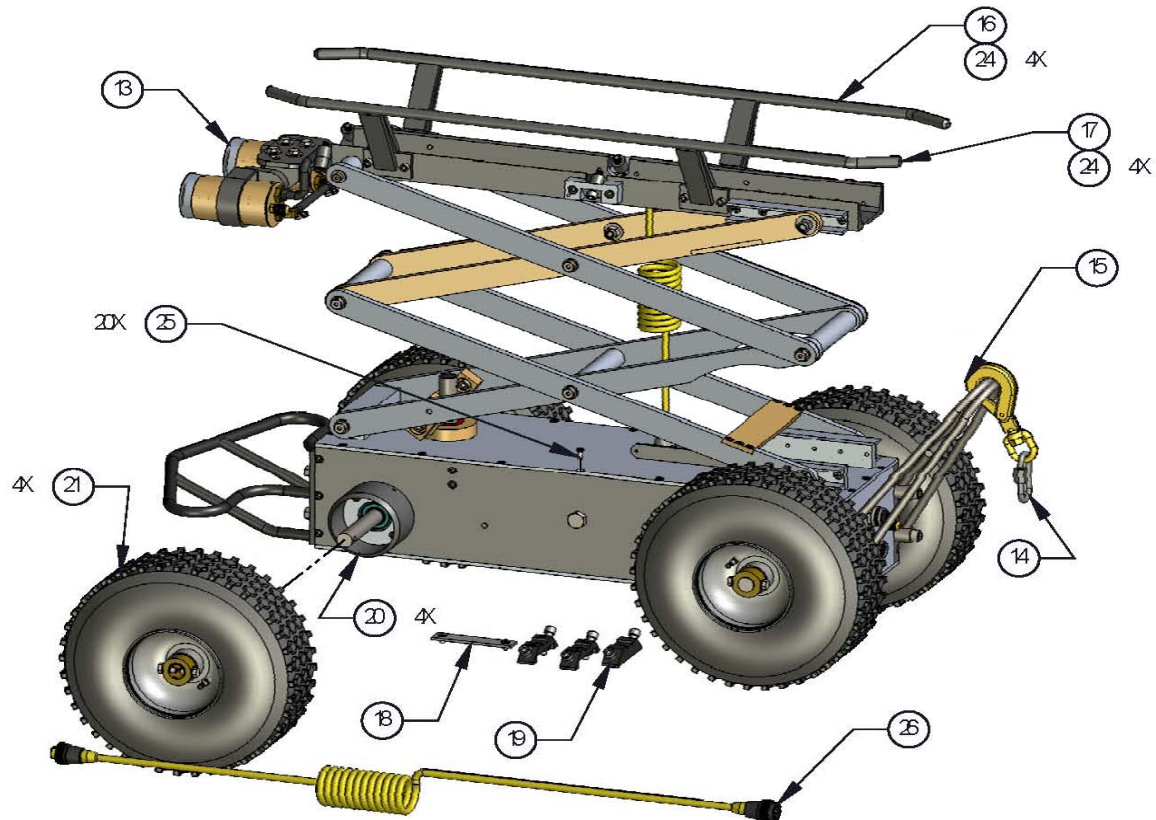


STANDARD TRANSPORTER MISC REPLACEMENT PARTS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	555-11154	CONN, TNC, BULKHEAD, 1/2" MODIFIED (FOR TRACTOR BACK)
	557-30002	CONN, BHC, 4 PIN EUROFAST (FOR LISTED TRACTOR BACK)
	557-32200-1	BULKHEAD CONNECTOR, 6-PIN, ETL LISTED
	560-15227	PROTECTOR, BULKHEAD (SCREW ON STYLE)
	602-10512	FITTING, AIR PRESSURE, 1/4" MALE (ON TRACTOR BACK)
	806-21194	BHC, 3-PIN PUSH ON STYLE, PRE WIRED (TRACTOR ONLY)
	806-31465	BULKHEAD CONNECTOR, 6 PIN, PREWIRED, FOR TRACTOR ONLY



STORM DRAIN TRACTOR

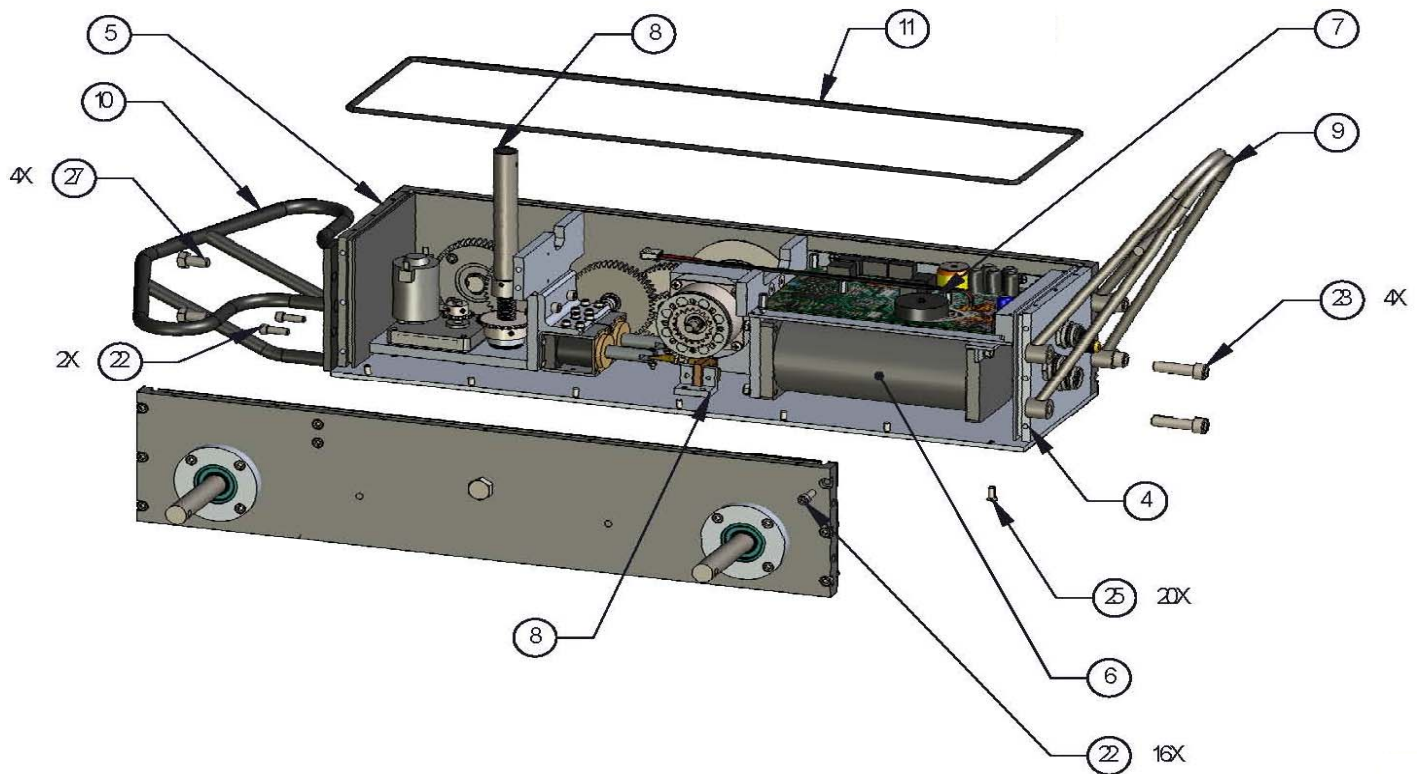


NOTES:

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

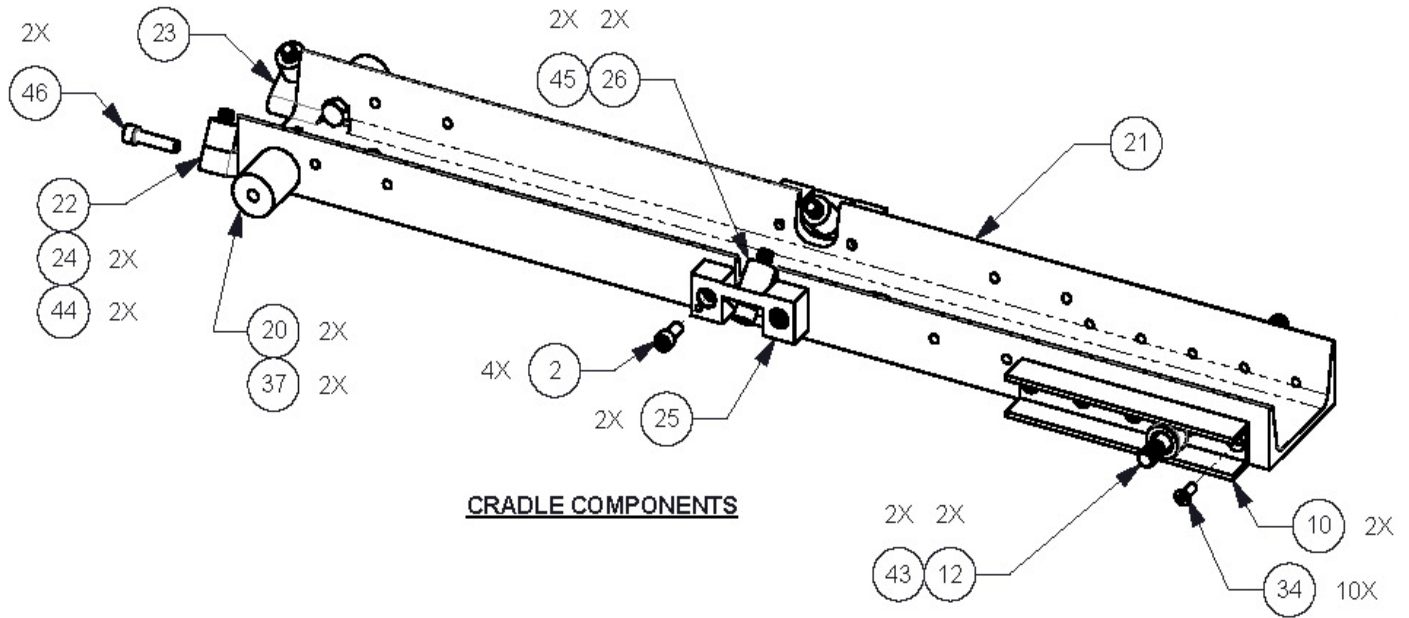
ITEM #	PART #	DESCRIPTION
13	867-21567	LIGHTS ASSEMBLY
14	444-11901	QUICK LINK, 1/4 IN
15	444-12255	HOOK, SNAP SWIVEL
16	807-17894-21	SKID, UPPER <u>RIGHT</u>
17	807-17895-21	SKID, UPPER <u>LEFT</u>
18	840-17645	KIT, HARDWARE, MTG, OE3 CAMERA TO SSDT
19	840-20622	KIT, ADAPTER, OMNI III to 6"-16" AND 5" SKID SETS
20	452-33069	GUARD, AXLE SEAL, SSDT
21	867-17906	<u>WHEEL ASSEMBLY</u> , 11" X 4", SSDT 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
	840-35702	<u>NOTE: REQUIRES SPACER KIT BELOW, TO BE INSTALLED ON FRONT BUMPER ASSEMBLY</u> KIT, BUMPER SPACER <u>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)
26	806-17896	CBL, CAMERA POWER, <u>3 PIN (OLD VERSIONS)</u>
	800-10839	WHEEL ADAPTER / AXLE HUB, SSDT

STORM DRAIN TRACTOR



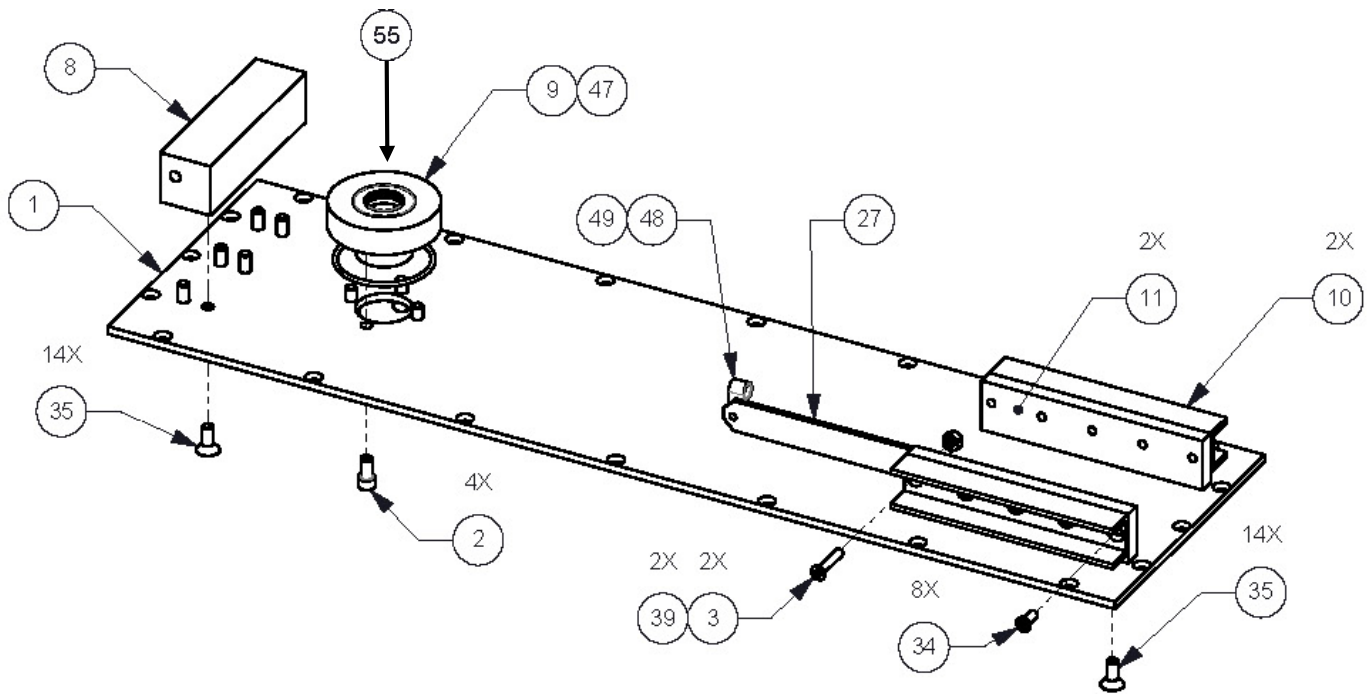
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
4	801-31534	REAR PLATE ASSY (BREAKDOWN ON PG 107)
5	453-19435-21	FRONT PLATE ASSY, W/O LIGHTS
6	805-12875	CLUTCH/MOTOR ASSY
7	861-39632	PCB ASSY,CONTROLLER
8	805-33946	ELEVATOR MOTOR/GEARBOX ASSY, BRAKE SOLENOIDS
9	867-14840	LIFTING BRKT ASSY
10	803-17819-21	FRONT BUMPER ASSY
11	439-13523	O-RING MATERIAL,BUNA,.187DIA
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 RIGHT
23	451-10549-21	MOUNT,CAMERA,FRONT LEFT
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

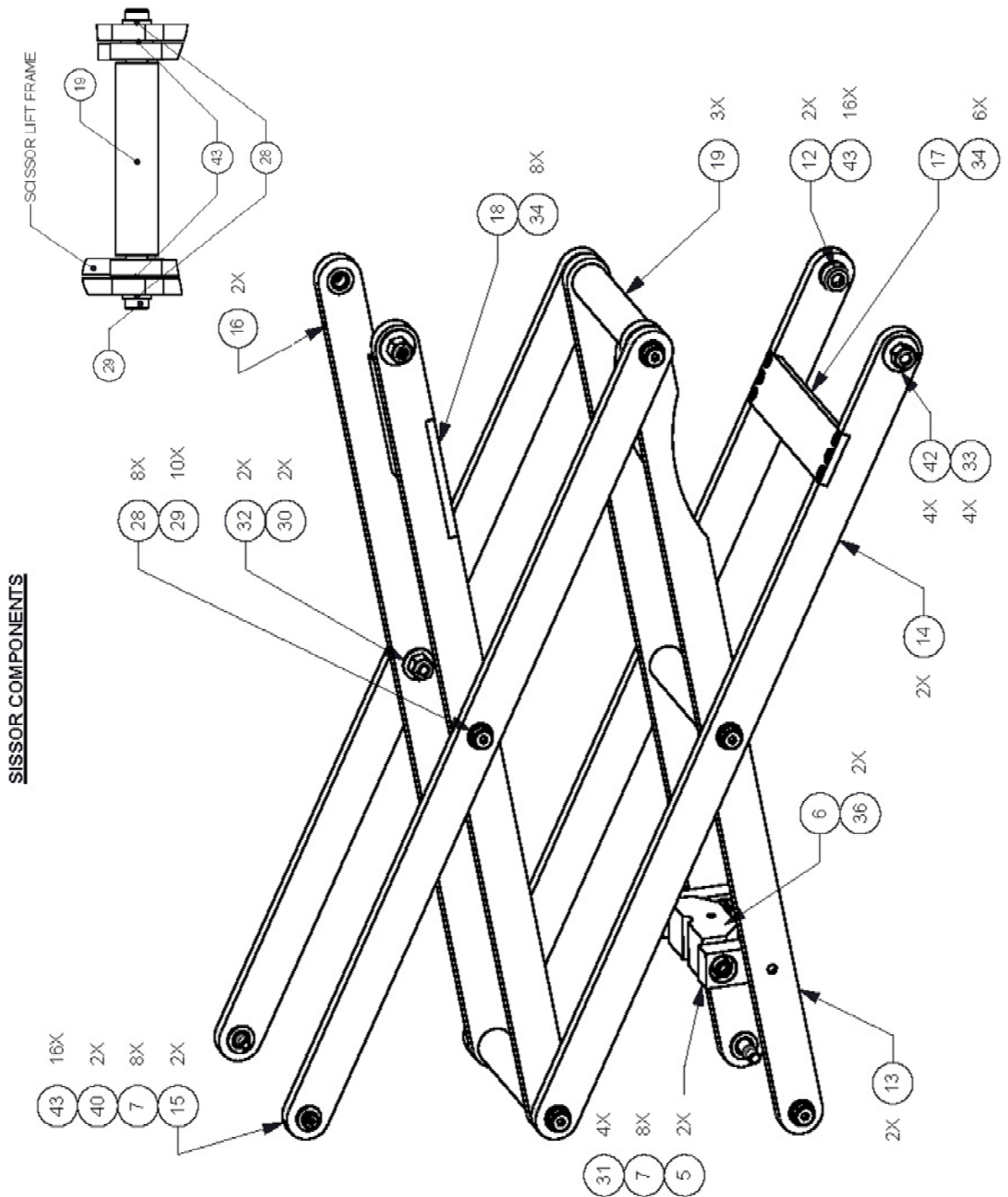
STORM DRAIN TRACTOR ELEVATOR



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, FRONT
9	867-21959	ASSY, HSG ,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

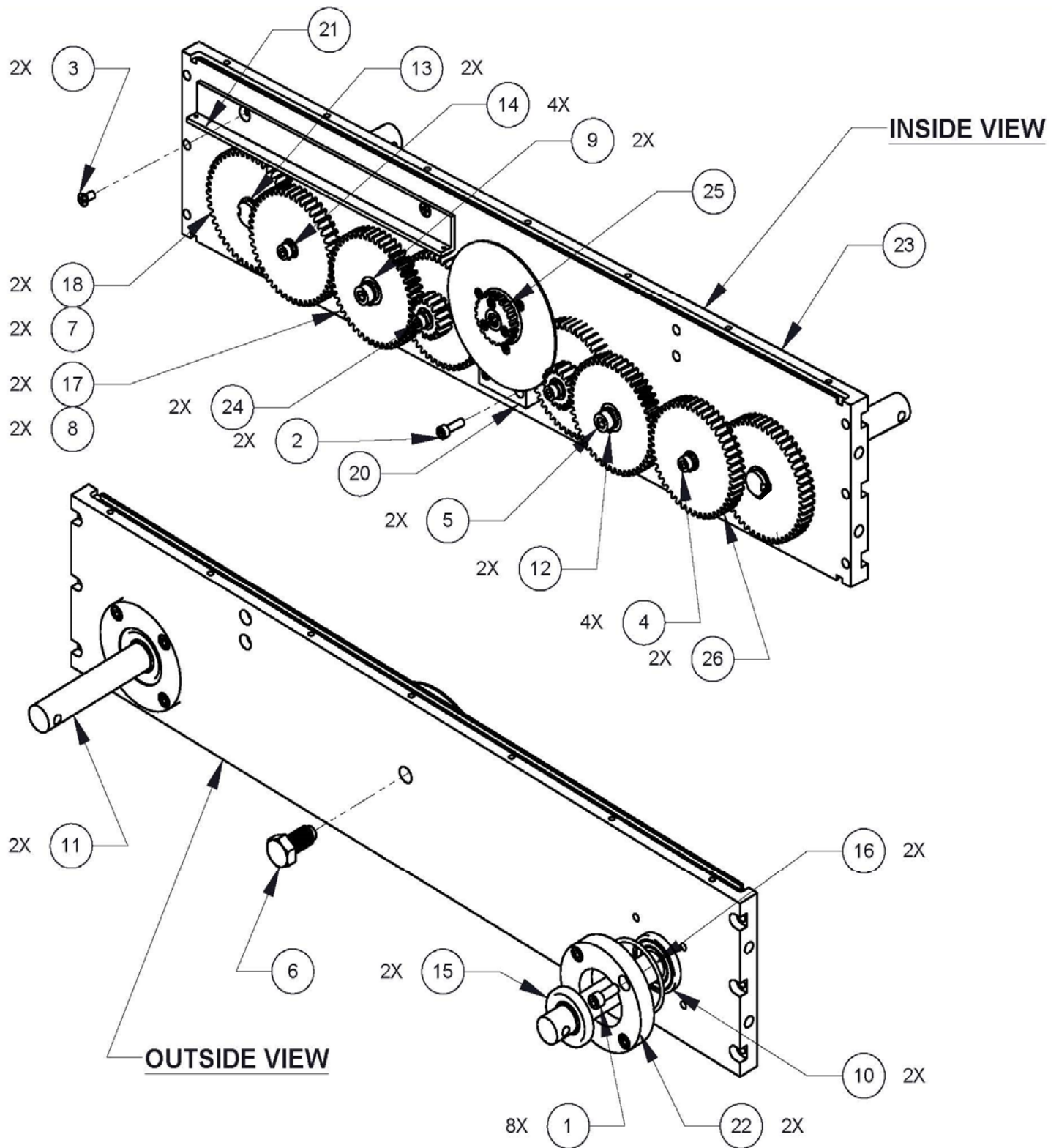
STORM DRAIN TRACTOR SCISSOR COMPONENTS



STORM DRAIN TRACTOR SCISSOR COMPONENTS CONTINUED

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

STORM DRAIN TRACTOR GEAR TRAIN ASSEMBLY

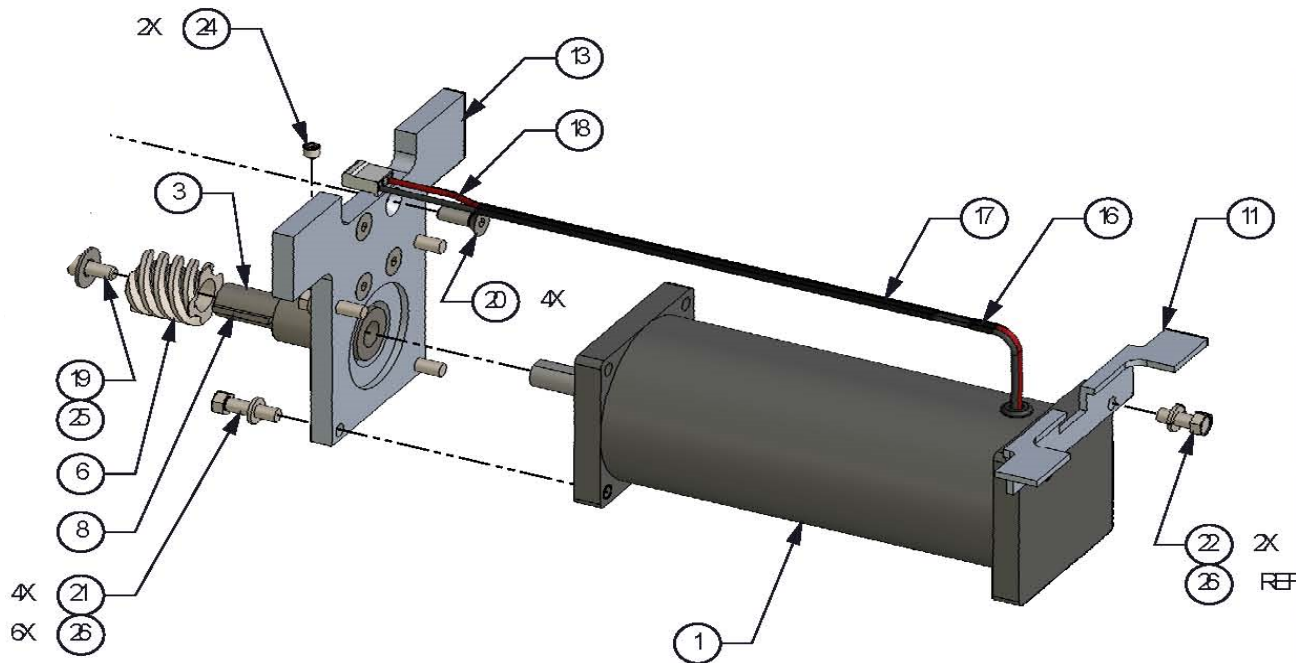


RIGHT SIDE ILLUSTRATED ABOVE

STORM DRAIN TRACTOR GEAR TRAIN ASSEMBLY

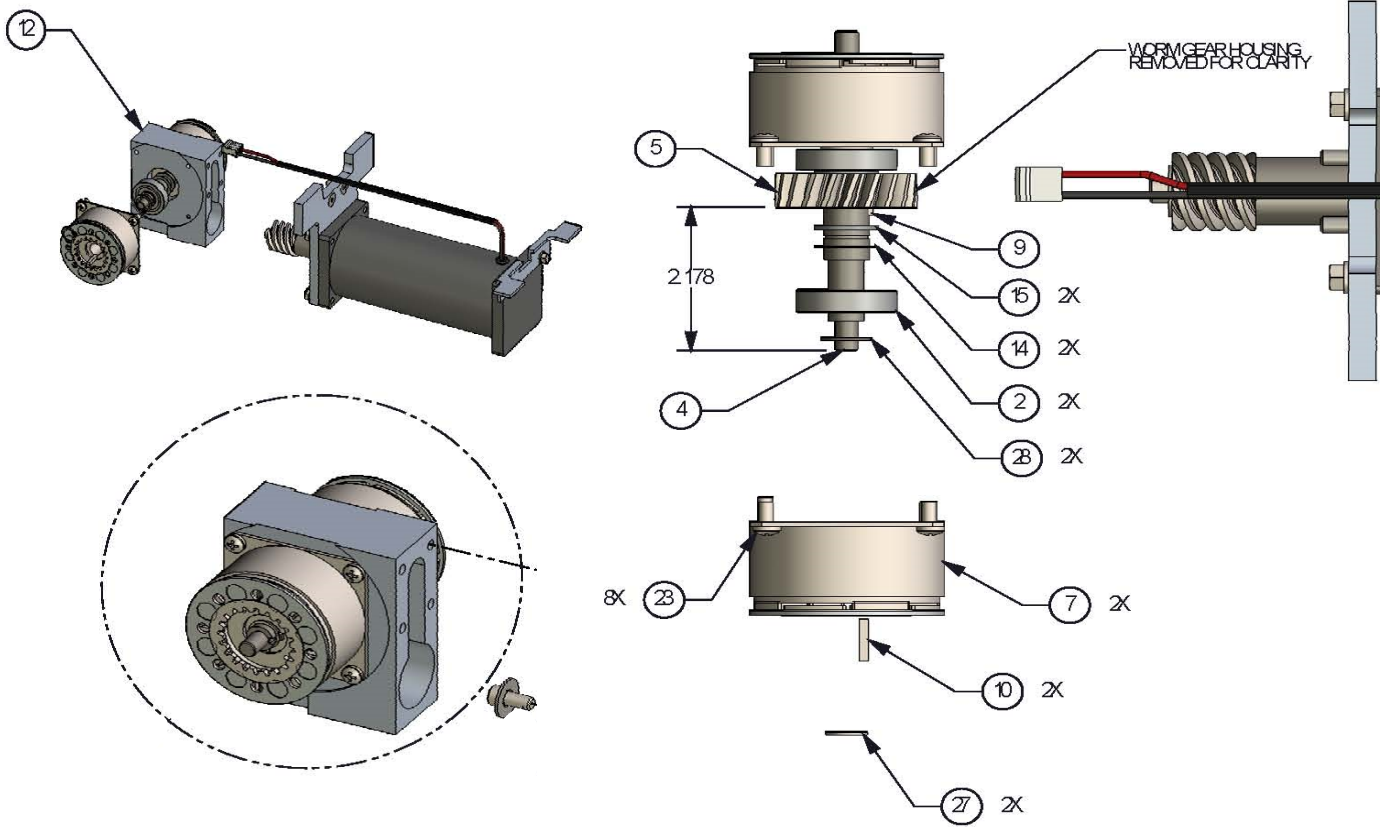
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	805-12701	ASSY,GEAR TRAIN, <u>LEFT AND RIGHT SIDE</u>
1	301-11005	MSCR,SHCS,1/4-20X.62 SS
2	301-12186	MSCR,SHCS,10-32X.62 SS
3	301-15136	MSCR,FLT,PHH,10-32X.37 SS
4	305-20533	BOLT,AXLE,TRANSFER GEAR
5	305-20534	BOLT,AXLE,IDLER GEAR
6	305-30771	BOLT,LOCATING,CLUTCH 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>)
26	805-30516	ASSY, GEAR, COMPOUND, 16/48 RATIO (<u>PREVIOUS VERSION</u>)

STORM DRAIN TRACTOR CLUTCH ASSEMBLY



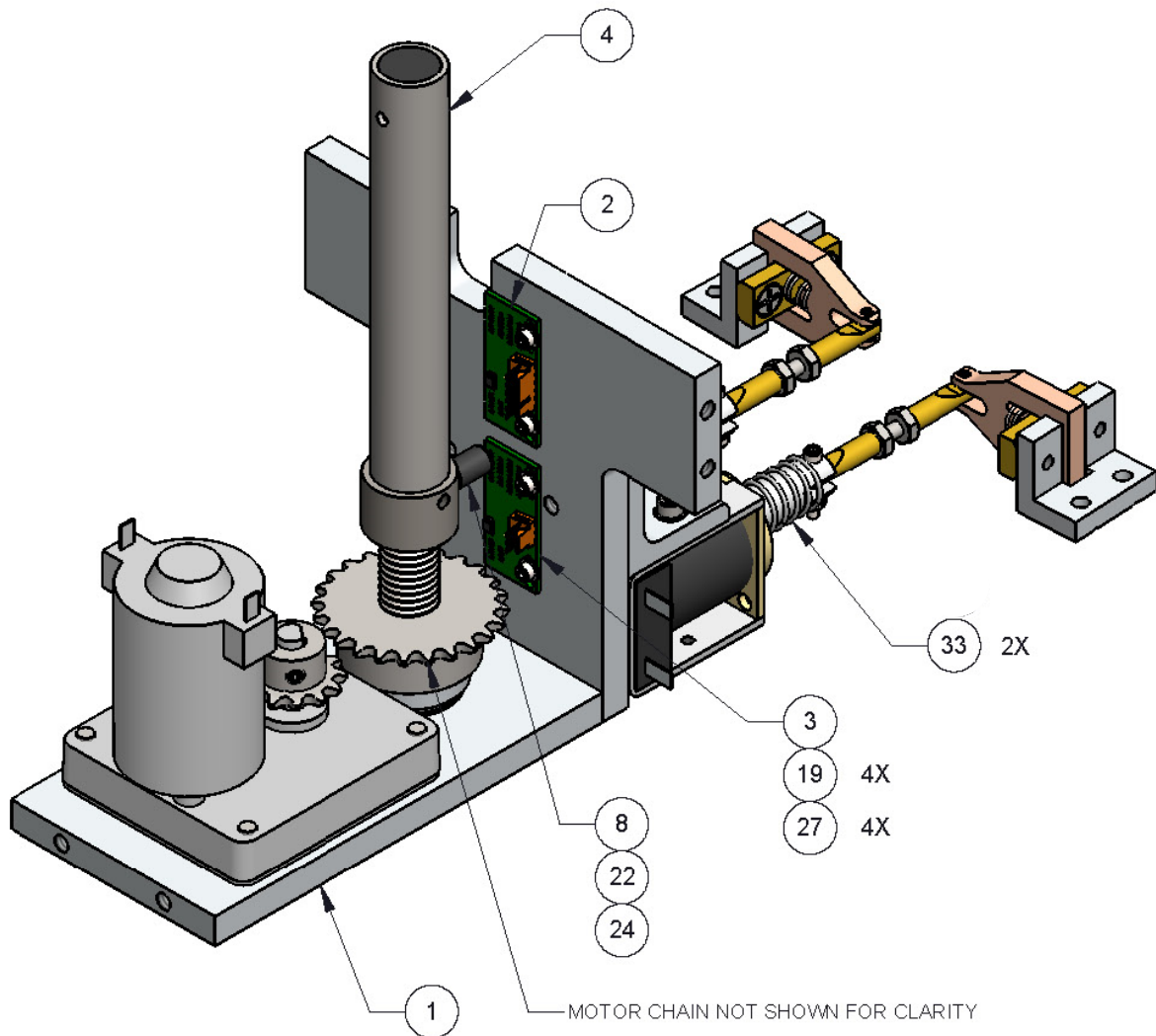
ITEM #	PART #	DESCRIPTION
	805-12875	ASSY,CLUTCH/MOTOR
1	635-14428	MOTOR,90VDC,1750RPM,1/6 HP,M1120042
3	407-14283	SHAFT,POW WINCH TORQUE ARM
6	441-20046	WORM,12PITCH,4LEAD,18DEG 26'HELIX,STEEL,HARDENED
8	448-11725	KEY,1/8 X 1/8 X 1.0
11	451-30777	BRKT,MOTOR STEADYING,SSDT
13	453-30774	PLATE,MTG,MOTOR,FLOATING,SSDT
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/-0.02
10	448-19494	KEY,1/8 X 1/8 X .62 18-8SS PHN
14	474-16007	SHIM,WASHER,.631 +/-0.005 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

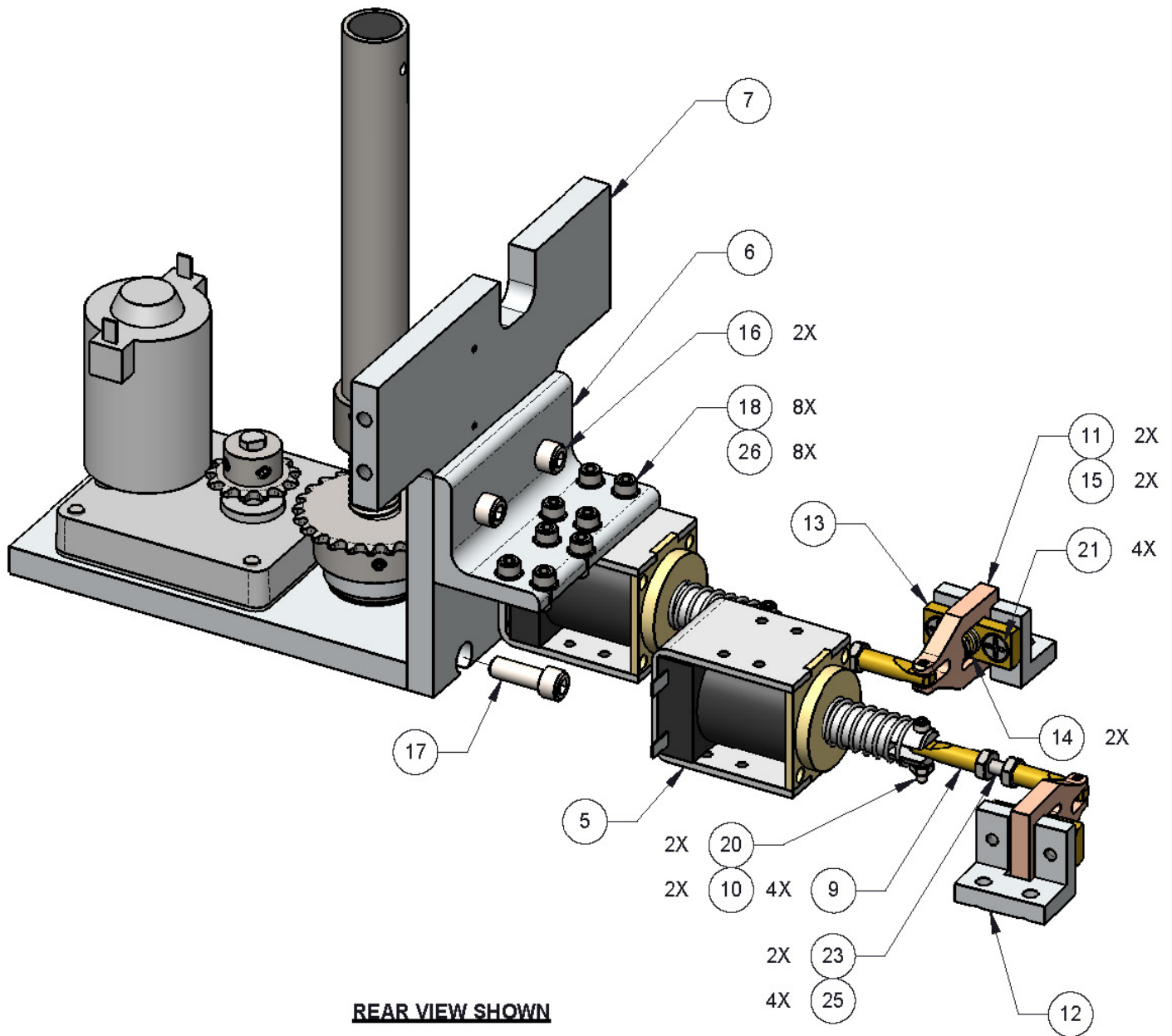
STORM DRAIN TRACTOR ELEVATOR MOTOR GEARBOX, BRAKE SOLENOIDS



FRONT VIEW SHOWN

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	805-33946	ASSEMBLY
1	805-33979	ASSY,MOTOR/GEARBOX/LEADSCREW,SSDT <u>(BREAKDOWN PG 106)</u>
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

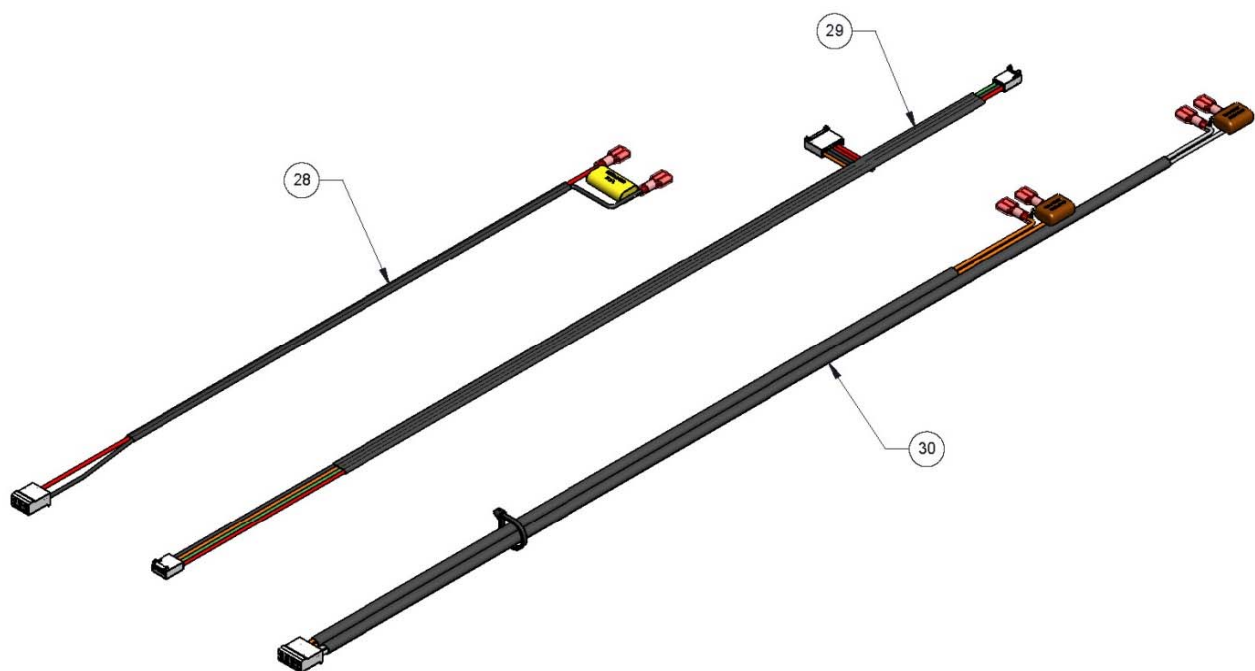


ITEMS LISTED ON FOLLOWING PAGE

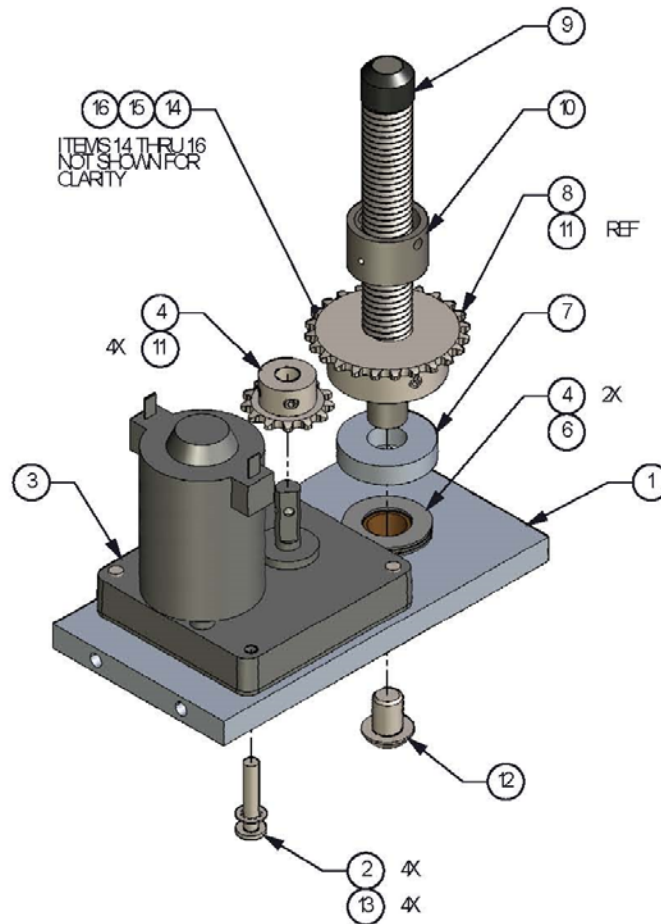
STORM DRAIN TRACTOR

ELEVATOR MOTOR GEARBOX, BRAKE SOLENOIDS

ITEM #	PART #	DESCRIPTION
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

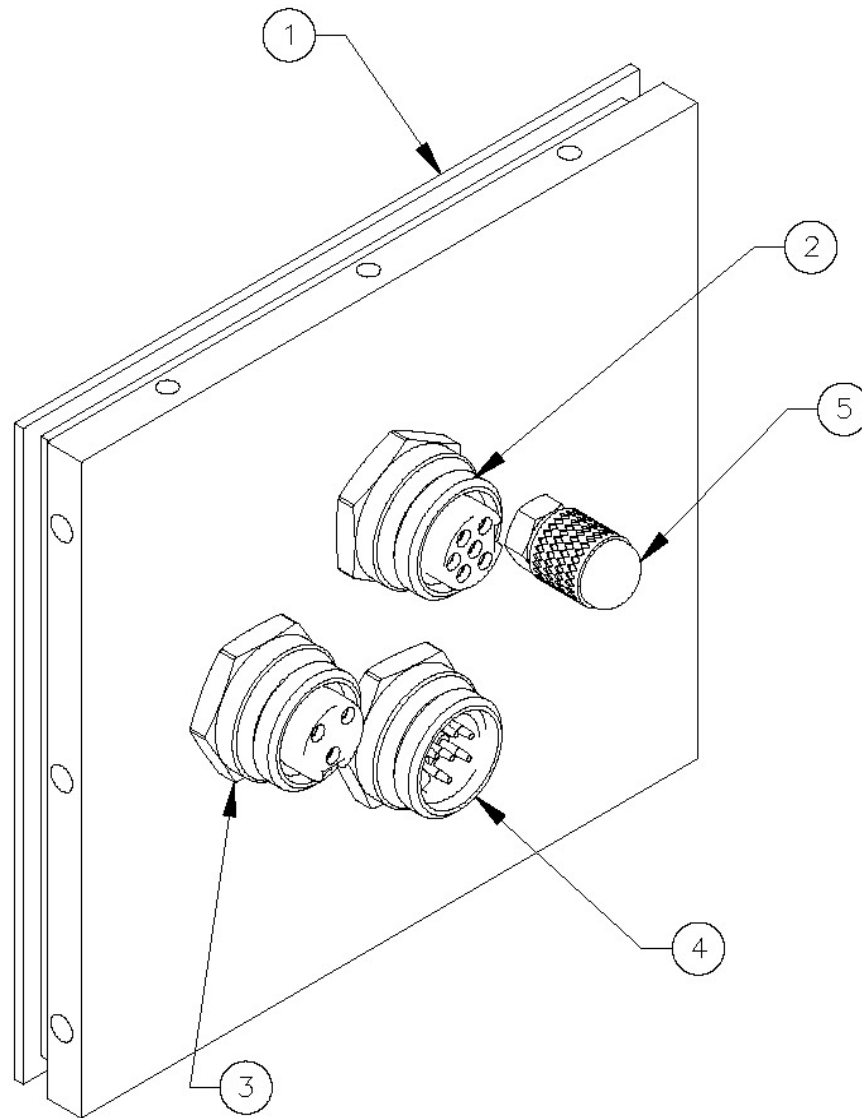


STORM DRAIN TRACTOR MOTOR GEARBOX



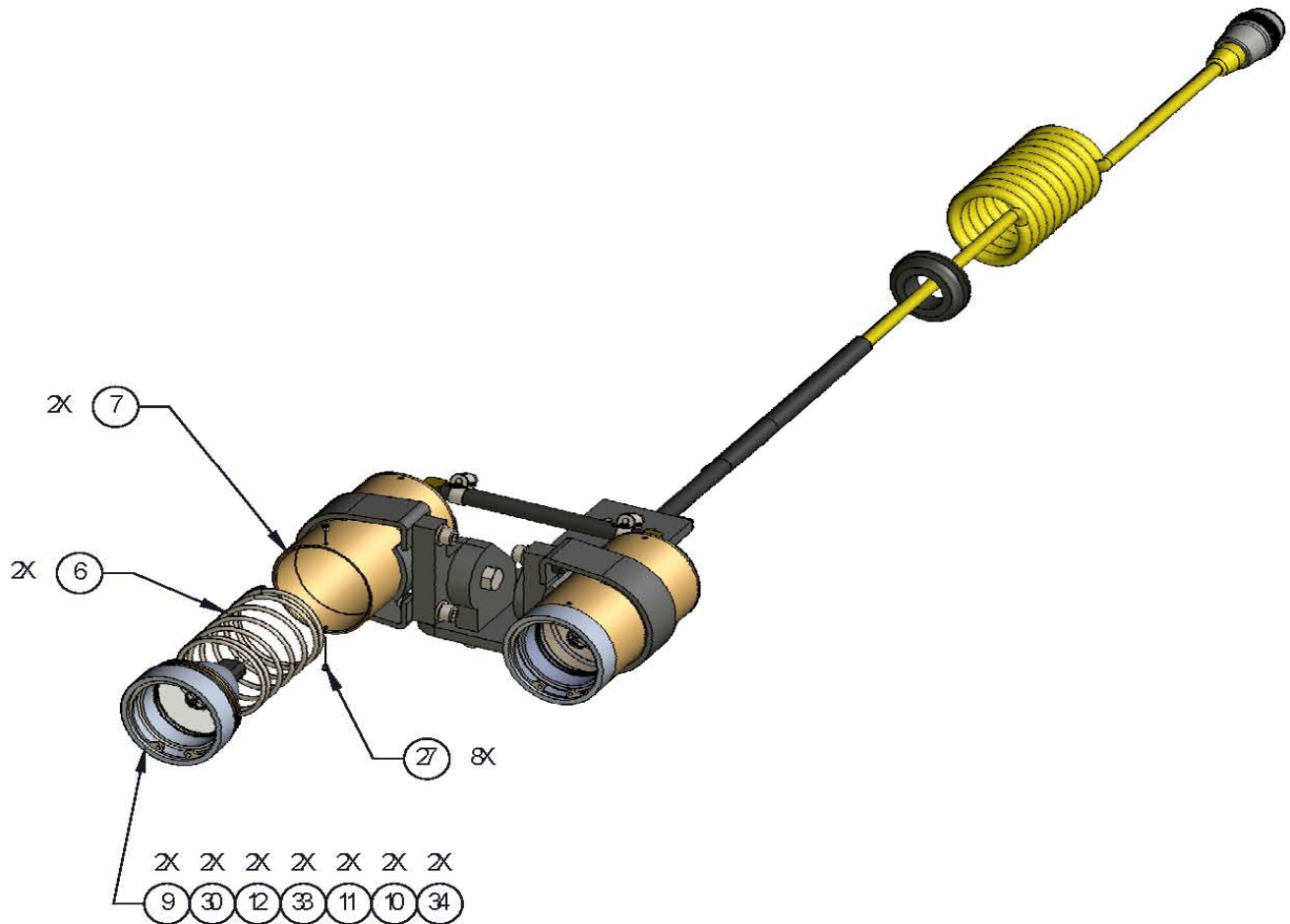
ITEM #	PART #	DESCRIPTION
1	801-34331	ASSY,PLATE,MTG,ELEVATOR MOTOR,SSDT
2	301-13628	MSCR,PAN,PHH,10-32X1 SS
3	635-35887	MOTOR/GEARBOX,ELEVATOR,SSDT
4	441-33963	SPRKT,DRIVE,LEVELWIND,20T,#35,M/C MLCR TYPE 2
5	318-10242	WASHER,THRUST,.625 X 1.125 X .031
6	404-14268	BEARING,THRUST,.625 X 1.125
7	403-33964	SPACER,SPRKT,DRIVEN,ELEVATOR MOTOR,SSDT
8	441-33962-40	SPRKT,DRIVER,13T,ELEVATOR MOTOR,SSDT
9	805-33961	ASSY,LEAD SCREW W/DELRIN 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 SOLD PER INCH (REQUIRES 8")
15	441-11486	MASTER LINK,#25 PITCH (REQUIRES QTY. 2)
16	441-19336	LINK,OFFSET,#25,(HALF LINK)

STORM DRAIN TRACTOR REAR PLATE ASSEMBLY



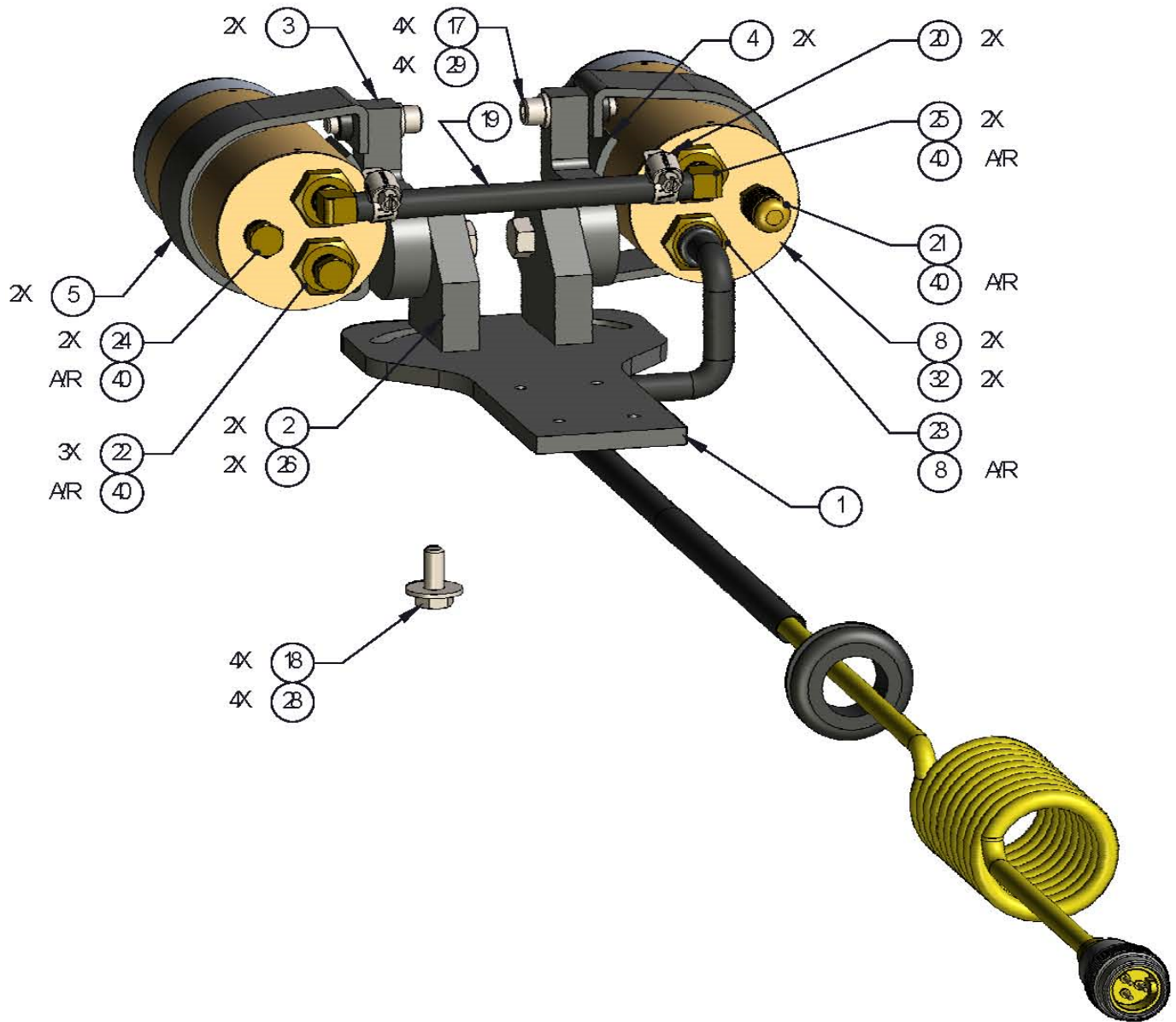
ITEM #	PART #	DESCRIPTION
	801-31534	ASSEMBLY
1	453-31572-21	PLATE,REAR,6PIN,SSDT,SFT BLK ANOD.
2	557-17690	CONN,W.R.,BHD,FEMALE,6SKT FEM THREAD,SOLDER CUP,MINIFAST
3	557-19175	CONN,W.R.,BHD,FEM PLUG/FEM THRD,3SKT,ZI/NI
4	557-19529	CONN,W.R.,BHD,MALE PLG/MALE THRD,6 PIN,SOLDER CUP
5	602-10512	FITTING,AIR 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

STORM DRAIN TRACTOR LIGHTS ASSEMBLY



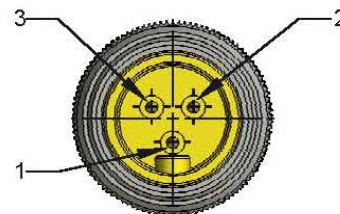
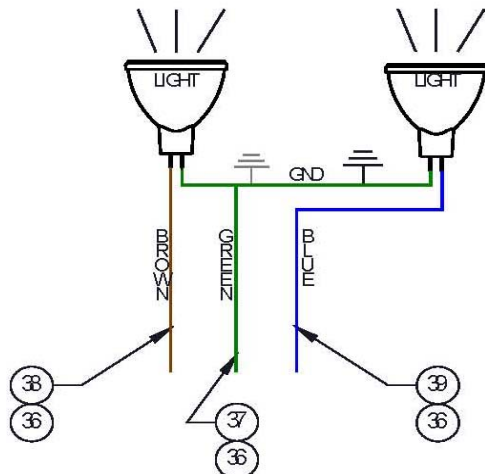
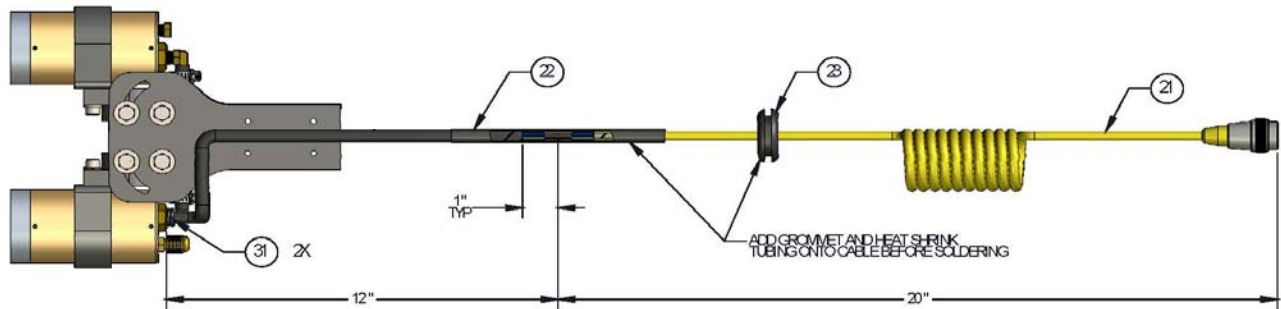
ITEM #	PART #	DESCRIPTION
	867-21567	ASSEMBLY
6	446-14215	SPRING,COMPRESS,5-3/32"L,20LBS,STL/ZIN
7	454-21566-20	TUBE,LIGHTHEAD,3.5",SSDT,GOLD ALODINE
9	453-15507-20	PLATE,FRONT,LG LIGHTHD/SDT,GOLD ALODINE
10	541-20296	LAMP,HALOGEN,MR16,12V,35W,40DEG,FMW
11	541-15282	SKT,LAMP,BI-PIN,CERAMIC,W/LEADS
12	549-12401	WINDOW,QUARTZ,2.0 X .250, SDT/LLL
30	410-12716	RING,SNAP,INT,2.00,BEVELED
33	439-15675	O-RING,SILICONE,032
34	439-14618	O-RING,BUNA,033

STORM DRAIN TRACTOR HALOGEN LIGHTS ASSEMBLY



STORM DRAIN TRACTOR HALOGEN LIGHTS ASSEMBLY

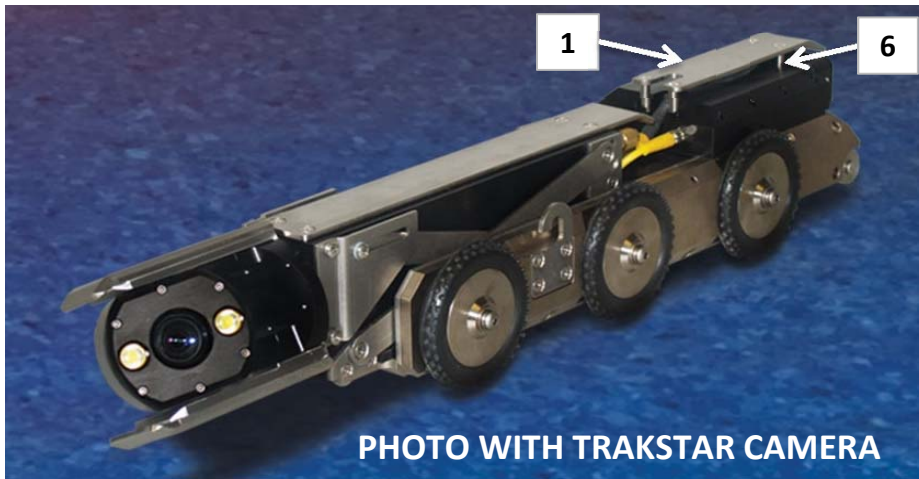
ITEM #	PART #	DESCRIPTION
1	451-32023-21	PLATE,MOUNTING,ADJUSTABLE,LIGHTS,SDT BLACK ANODIZED
2	451-32022-21	BRKT,MTG,LIGHTS,ADJUSTABLE,SDT,BLACK ANODIZED
3	451-21568-21	BRKT,MTG,LIGHTS,SSDT ANODIZE SFT BLK
4	701-38714	STRIP,FOAM,SILICON RUBBER,ADH BACK,1" WIDE X 1/8" THICK
5	800-34572	ASSY,BRKT,MTG,LIGHT, LL/SDT(2-1/4"OD)
8	453-15448-20	PLATE,REAR,LLL/SDT,GOLD ALODINE
17	311-14497	NUT,FLARE,3/8 MALE,INVERTED,BRASS
18	602-11692	PLUG,HEX HD,1/8 MALE NPT
19	602-20233	FITTING,HOSE BARB,1/4",1/8"(M)NPT,90 DEGREE,BRASS
21	557-19174	ASSY,CBL,RETRAC,3 PIN, MALE HSG,IP67,2METER,S90
22	632-10883	TUBE,HEATSHRINK,.5",HEAVY DUTY/MASTIC,6"LONG
23	449-30328	GROMMET,RUBBER,BUNA,7/8" ID,1-1/4" HOLE
24	301-10769	MSCR,SHCS,1/4-20X1 SS
25	301-14262	MSCR,HEXHD,1/4-20X.62 SS
28	316-11245	WASHER,FLT,.25,SAE SS
29	318-15671	WASHER,LKG,.25,HELICAL SS
32	439-15026	O-RING,SILICONE,135
40	630-16876	SEALANT,PIPE,LOCTITE PST 567,50ML



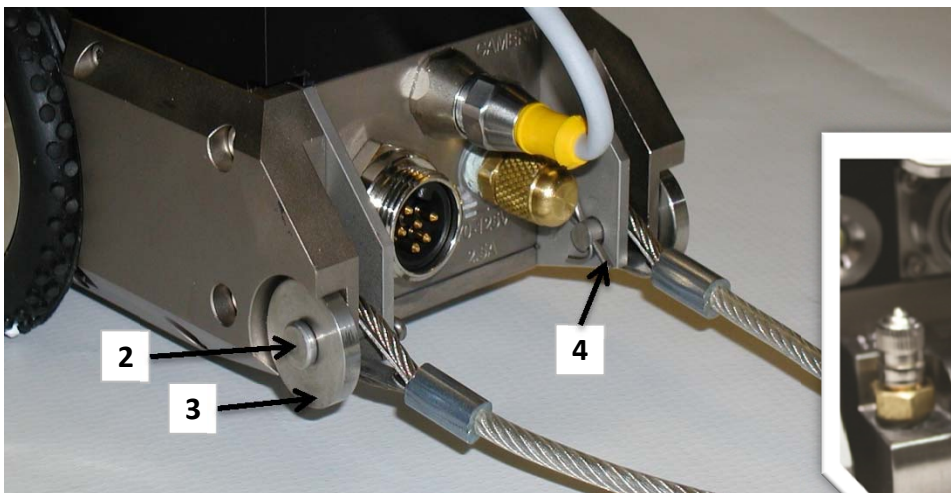
1 = GREEN/YELLOW
2 = BROWN
3 = BLUE

CONNECTOR END VIEW

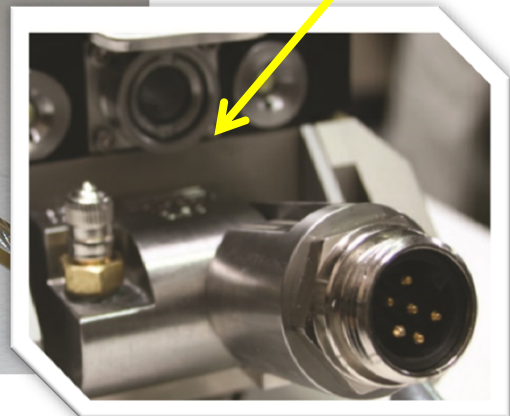
TRANSTAR TRANSPORTER



ITEM #	PART #	DESCRIPTION
1	450-37037	TOP SKID, TRANSTAR
2	400-10833	CLEVIS PIN, .25"DIA X47/64" USABLE L 18-8 SS (<u>BRIDLE MOUNTING</u>)
3	443-36876	WHEEL SKATES
4	400-10774	COTTER PIN, .094"DIA X .50" 316 SS (<u>BRIDLE MOUNTING</u>)
5	867-37642	TOW BRIDLE
6	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 (<u>ELEVATOR</u>)
	806-38138	ASSY,CBL, <u>4 SKT FEM</u> (EURO)- <u>4 PIN MALE</u> (EURO),13.5" +.5"/-0



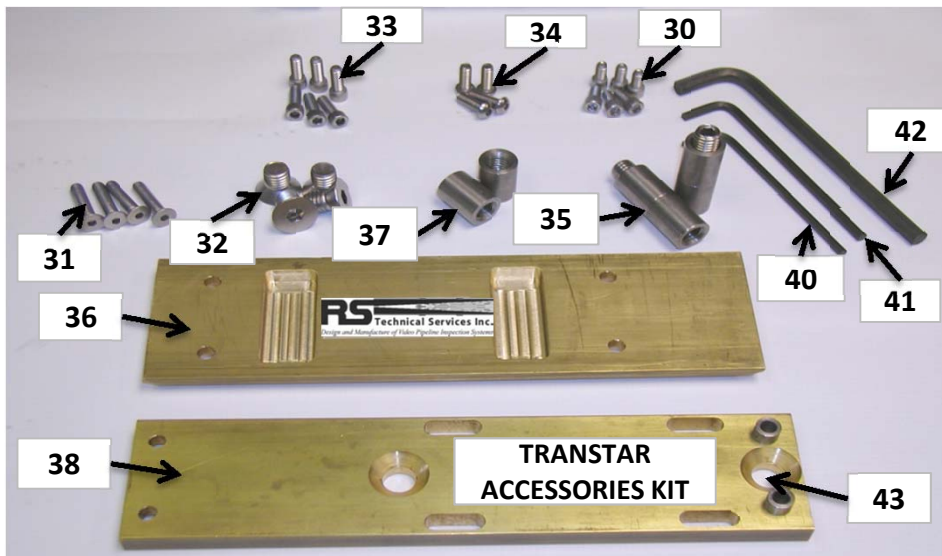
SHOWN WITH TILT UP
CONNECTOR AND
BACKUP CAMERA



TRANSTAR TRANSPORTER ACCESSORIES KIT (W/OUT ELEVATOR)



ITEM #	PART #	DESCRIPTION
	840-37252	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 (PARTS BREAKDOWN ON NEXT PAGE)
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,1/4-20X.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)



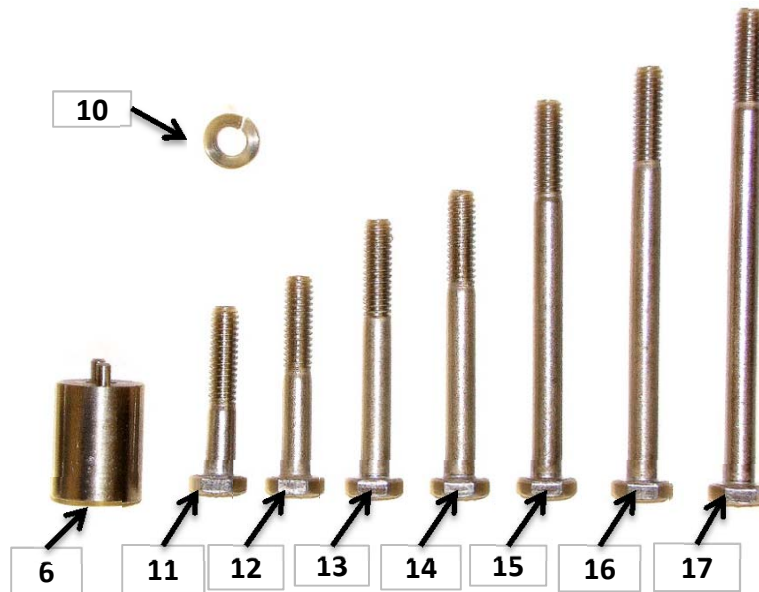
TRANSTAR TRANSPORTER ACCESSORIES KIT (WITH ELEVATOR)

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-37252-1	ACCESSORIES KIT FOR UNITS WITH ELEVATOR
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 <u>(PARTS BREAKDOWN ON NEXT PAGE)</u>
	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>
4	450-39017	SKID, BOTTOM PROTECTOR
5	301-11124	MSCR,FLT,HXS,1/4-20X.50 SS

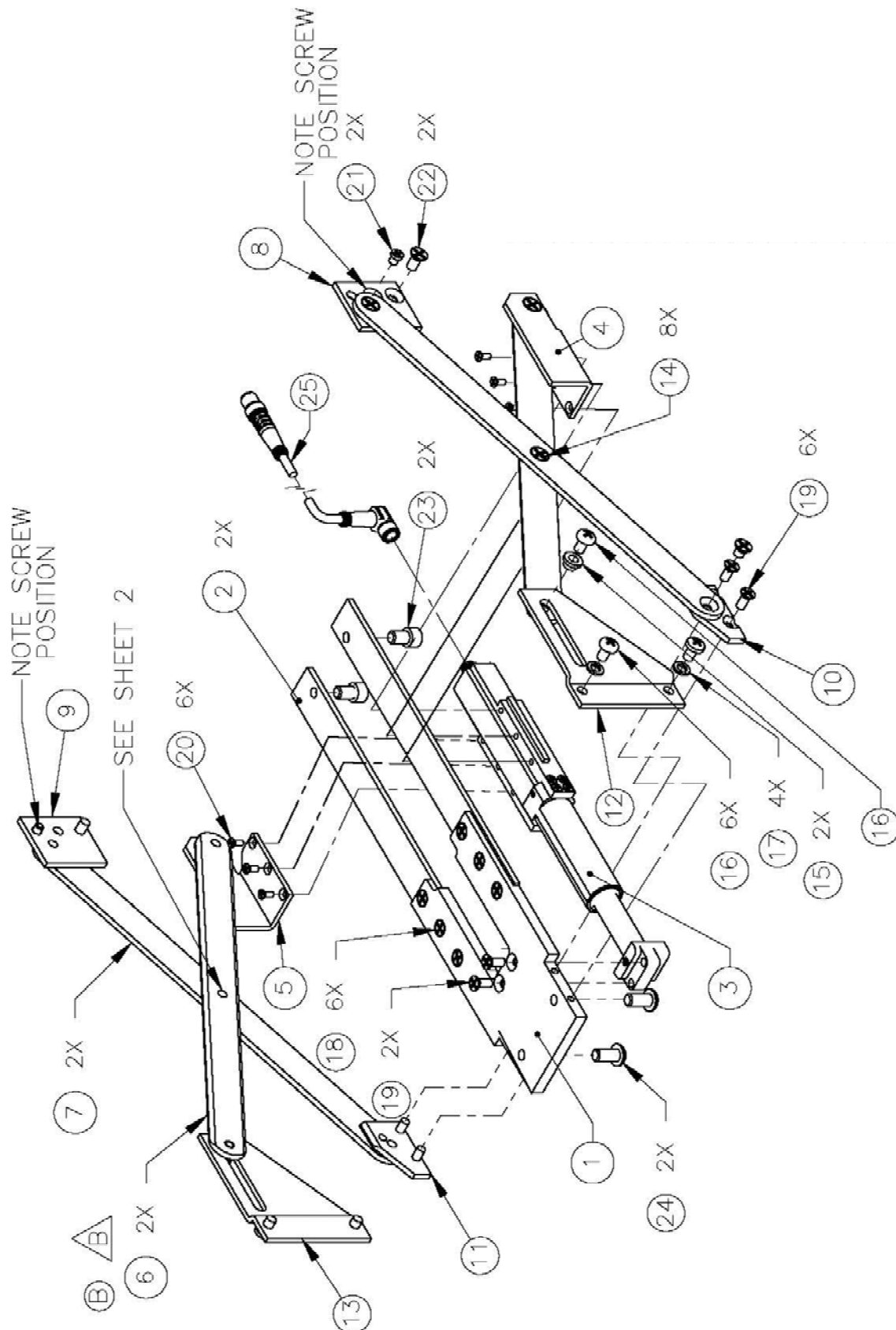


TRANSTAR TRANSPORTER EXTENSION KIT



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

TRANSTAR TRANSPORTER ELEVATOR

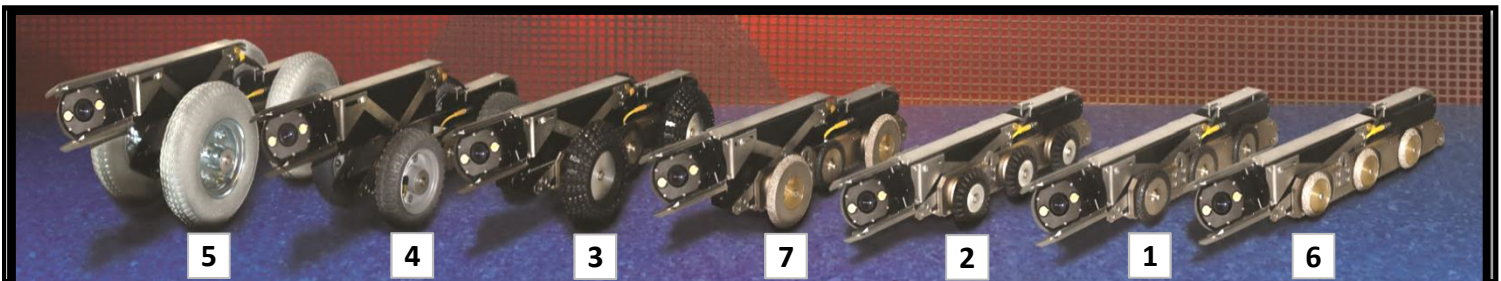


NOTES:

 INSTALL ITEM 6 SO CHAMFERS
ON EACH PIECE FACE CAMERA

TRANSTAR TRANSPORTER ELEVATOR

ITEM #	PART #	DESCRIPTION
	800-42081	ASSY, REPLACEMENT FRAME, ELEVATOR
1	453-39807-21	PLATE,BASE,ELEVATOR,MOTL
2	451-37547-40	RAIL,SLIDE,ELEVATOR,FINAL MACHINE
3	867-39800	ASSY,ACTUATOR HD,ELEVATOR,TRANSTAR
4	451-37681-40	BRKT,SLIDER, <u>LEFT</u>
5	451-37682-40	BRKT,SLIDER, <u>RIGHT</u>
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
	840-40434	KIT, CAMERA TO ELEVATOR HARDWARE (INCLUDES ITEMS BELOW 15,16,17,21,22)
15	318-37726	WASHER,SHLDR,#10 X 0.125L X0.254OD SHLDR X0.38OD,NYLON
16	301-14087	MSCR,PAN,PHH,10-32X.31 SS
17	318-18587	WASHER,LKG,#10,HELICAL SS
21	301-38441	MSCR,MTG,CAMERA,CAMERA LIFT (FLT, PHH, 10-32 x 0.25")
22	301-13172	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, <u>STUDED</u> KNOBBY
443-15618	TIRE, KNOBBY

STANDARD KNOBBY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	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, <u>STUDED</u> KNOBBY
	443-15618	3.5" TIRE ONLY, KNOBBY

HI-TRACTION

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



REFER TO TRANSTAR EXTENSION GUIDE

PART # 963-38193

FOR APPROPRIATE HARDWARE

BALLOON KNOBBY

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

REFER TO TRANSTAR EXTENSION GUIDE

PART # 963-38193

FOR APPROPRIATE HARDWARE



TRANSTAR TRANSPORTER TIRES & WHEELS

TRANSTAR ONLY ASSEMBLIES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
4	860-37376	ASSY,PNEUMATIC, <u>6" X 2"</u>
5	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

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

Requires modification to existing TranStar units

STAINLESS STEEL WIRE

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-35334	ASSY,WIRE



TRANSTAR TRANSPORTER MEGATRAKS

TRANSTAR MEGATRAK KIT

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-35686	KIT (ITEMS IN PHOTO)
	305-39774	MSCR,BUTTON,HXS,1/4-20 X .75 SS,NYLON LOCK STRIP
	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>
2.70"	443-35678-23	WHEEL,MEGATRAK,2.70" OD,NI PLATE
3.30"	443-35679-23	WHEEL,MEGATRAK,3.30" OD,NI PLATE
4.40"	443-35680-23	WHEEL,MEGATRAK,4.40" OD,NI PLATE

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
6	860-36000	HUB ASSEMBLY WITH MEGATRAK,2.70",TRANSTAR
	860-36001	HUB ASSEMBLY WITH MEGATRAK,3.30",TRANSTAR
7	860-36002	HUB ASSEMBLY WITH MEGATRAK,4.40",TRANSTAR



TRANSTAR

867-35899	HUB,MEGATRAK
410-36012	SNAP RING ONLY
443-35895	HUB ONLY

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



TRANSTAR TRANSPORTER

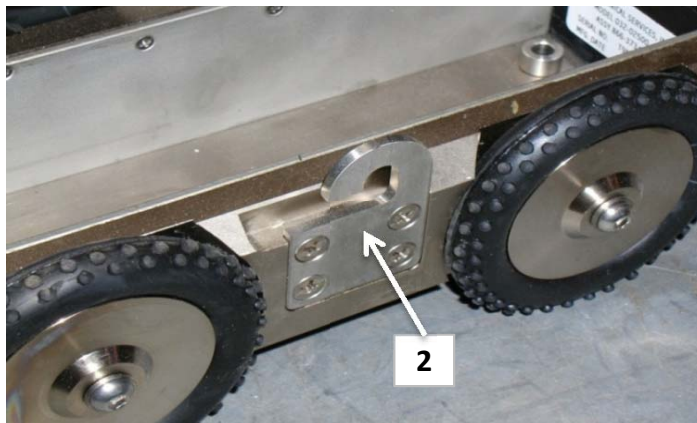
TRANSPORTER REPLACEMENT PARTS & ACCESSORIES

TRANSTAR TRANSPORTER PARTS

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



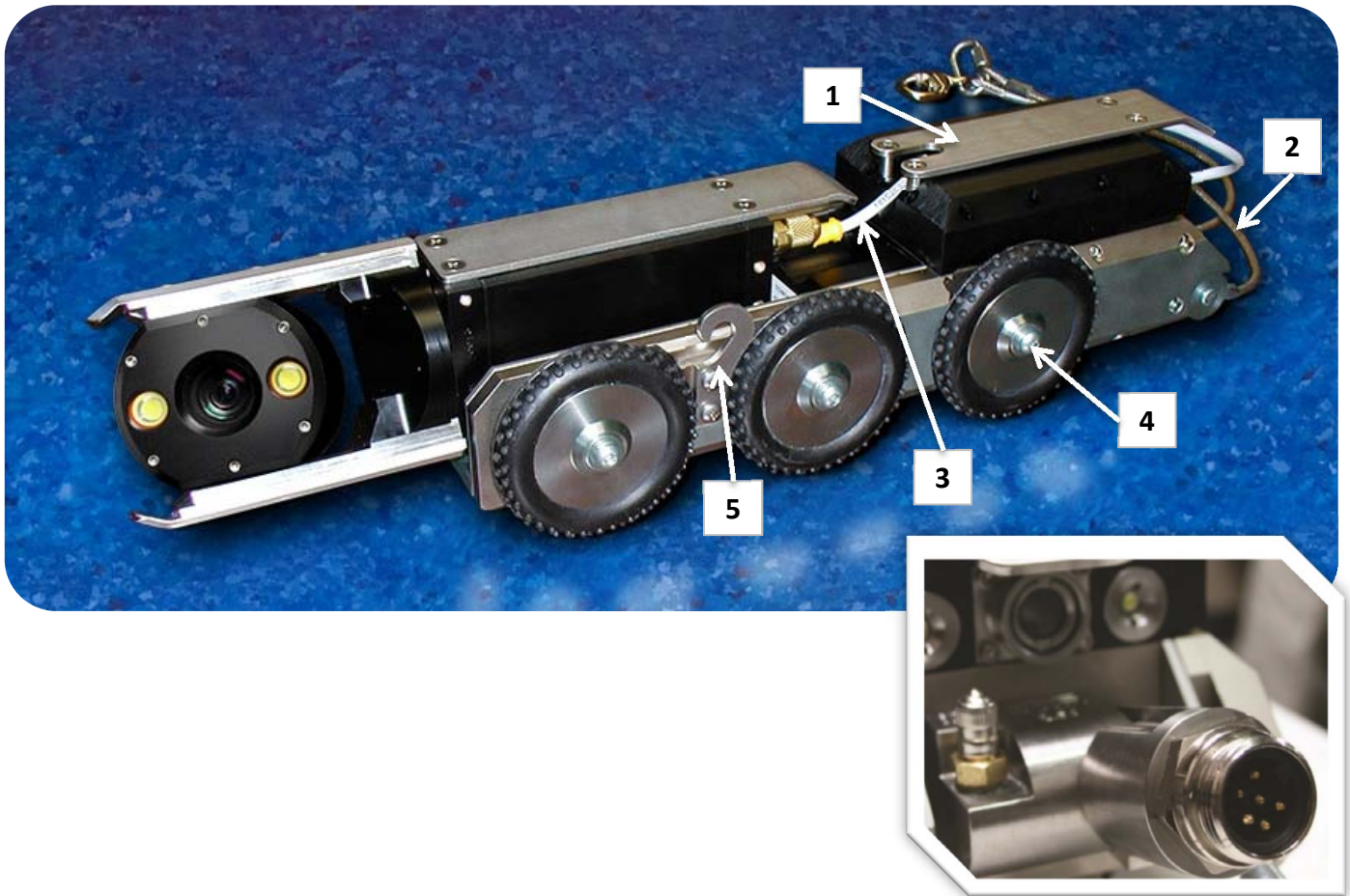
2	451-37881	LIFTING BRACKET, EITHER SIDE
	305-35805	MSCR,HEXHD,1/4-20 X 4.25" SS (HARDWARE FOR LIFT BRACKETS)



3	867-37072	LIFTING TOOL, POLE
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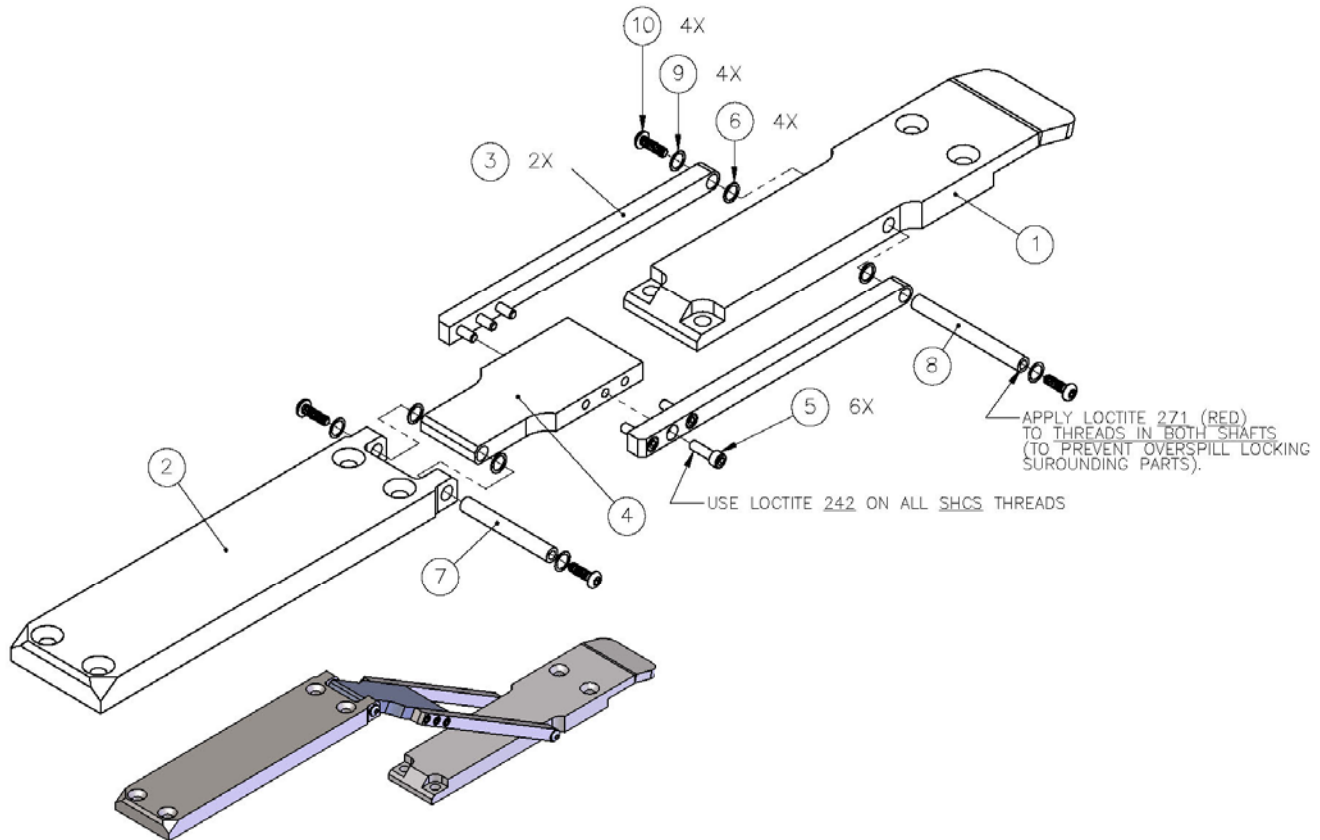
TRANSTAR II (SHORT) TRANSPORTER



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	450-37037	RAIL,SKID,TOP,TRANSTAR W/CAMERA LIFT&TRANSTAR II
2	867-37642	ASSY,BRIDLE,TOW,2 PIECE,2 THIMBLE STYLE,TranSTAR
3	806-38138	ASSY,CBL, 4 SKT (EURO) - 4 PIN (EURO),13.5" +.5"/-0
	301-11477	HARDWARE, CAMERA MOUNTING
4	305-39774	HARDWARE, NYLON LOCK STRIP, MSCR,BUTTON,HXS,1/4-20 X 0.75 SS
5	451-37913	LIFTING BRACKET
	301-14087	MSCR,PAN,PHH,10-32X.31 SS (HARDWARE FOR LIFT BRACKET)

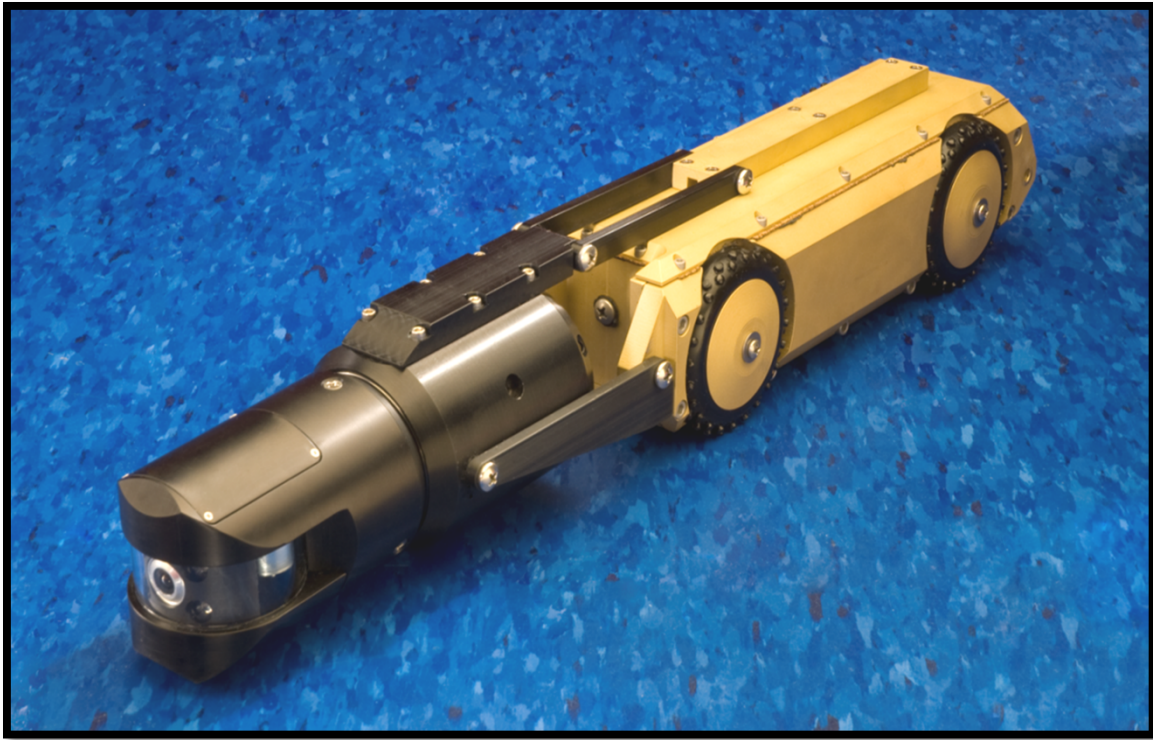
TIRES & WHEELS CAN BE FOUND IN THE **PRIOR TRANSTAR SECTION**

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" S	WHEEL ATTACHMENT
301-13685	MSCR,PAN,PHH,10-32 X 0.50" SS	UPPER ARMS
301-13914	MSCR,FLT,PHH,10-32 X 0.87" S	BRIDAL
301-14029	MSCR,PAN,PHH,10-32 X 0.37" SS	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
560-16073		<u>ADAPTER CABLE</u> , TNC > 3 PIN MALE
806-21760		CABLE, 3 PIN SCREW-ON MALE TO 3 PIN PUSH-ON FEMALE
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 1306 , 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> <u>COMP</u>
	840-30967	ACCESSORIES KIT	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 INCLUDED IN PHOTO)	

MIGHTY MINI TRACTOR TRANSPORTER TIRES & WHEELS



MINI HUB

STANDARD KNOBBY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	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
	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>



443-21996

HI-TRACTION

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-31640-1	KIT,HI TRACTION,HEX DRIVE



MIGHTY MINI TRACTOR TRANSPORTER MEGATRAKS



KIT

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-36600	KIT (SIMILAR TO ITEMS IN PHOTO ABOVE)
	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 2.70"

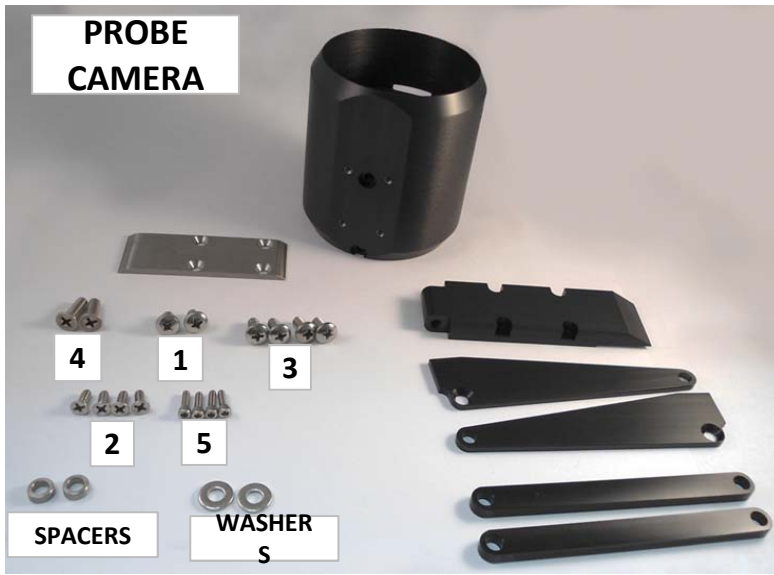


HUB ASSEMBLY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-36521	HUB,MEGATRAK
	443-3619-23	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 COMP
	841-38670	PROBE V2 TYPE,MINI TRACTOR	KIT
4	301-14145	MSCR,FLT,PHH,10-32X.62 SS	2
	316-11835	WASHER,FLT,#10 SS	2
	403-37077	SPACER,RND,#10,.125L,SS	2
	405-38253-21	SLEEVE,MTG,CAMERA,OS PROBE V2	1
	445-38255-21	ARM,LOWER,LEFT CANTILEVER,OS PROBE V2	1
	445-38256-21	ARM,LOWER,RIGHT CANTILEVER,OS PROBE V2	1
	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	4
3	301-14029	MSCR,PAN,PHH,10-32X.37 SS	4
1	301-14087	MSCR,PAN,PHH,10-32X.31 SS	2
5	301-11713	MSCR,SHCS,4-40X.37 SS (SLEEVE TO SLEEVE BLOCK)	4
	445-16032-21	ARM,UPPER CANTILEVER	2
	841-38669	1306 TYPE,MINI TRACTOR	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 PUSH CABLE



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	
	806-38136-25	CBL, <u>WITH</u> CAMERA TERMINATION	25 FT
	806-38136-3	CBL, <u>W/O</u> CAMERA TERMINATION	25 FT
	806-38136-50	CBL, <u>WITH</u> CAMERA TERMINATION	50 FT
	806-38136-2	CBL, <u>W/O</u> CAMERA TERMINATION	50 FT
	806-38136	CBL, <u>WITH</u> CAMERA TERMINATION	100 FT
	806-38136-1	CBL, <u>W/O</u> CAMERA TERMINATION	100 FT
	806-38136-150	CBL, <u>WITH</u> CAMERA TERMINATION	150 FT
	806-38136-5	CBL, <u>W/O</u> CAMERA TERMINATION	150 FT
	806-38136-200	CBL, <u>WITH</u> CAMERA TERMINATION	200 FT
	806-38136-4	CBL, <u>W/O</u> CAMERA TERMINATION	200 FT



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	410-38222	E-CLIP
	446-38225	SPRING

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



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

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

LATERAL LAUNCHER COMPLETION KIT



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	841-38738	KIT, COMPLETION
	410-38222	SNAP RING
	446-38225	SPRING
	806-38351	CAMERA CONN.

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	KIT (ITEMS IN PHOTO)
	305-39774	MSCR,BUTTON,HXS,1/4-20 X .75 SS,NYLON LOCK STRIP
	316-11245	WASHER, FLAT 0.25 SAE SS
	318-15671	WASHER, LKG 0.25 SS



(WHEEL ONLY)

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

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
6	860-36000	HUB ASSEMBLY WITH MEGATRAK,2.70",TRANSTAR
	860-36001	HUB ASSEMBLY WITH MEGATRAK,3.30",TRANSTAR
7	860-36002	HUB ASSEMBLY WITH MEGATRAK,4.40",TRANSTAR



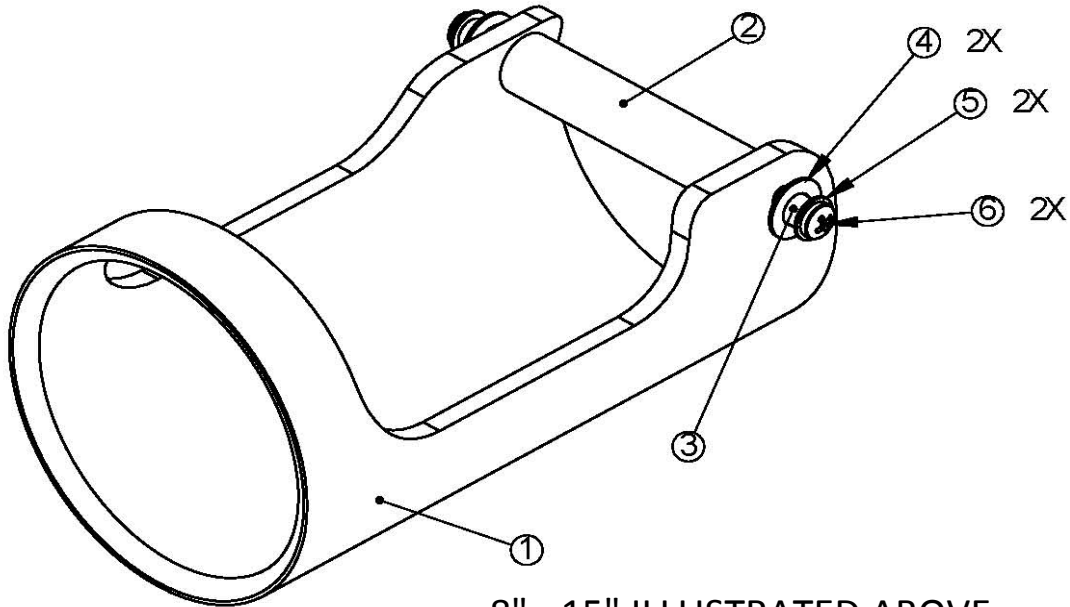
LAT. LAUNCHER

867-35899	HUB,MEGATRAK
410-36012	SNAP RING ONLY
443-35895	HUB ONLY

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



LATERAL LAUNCHER LAUNCH EXTENSIONS



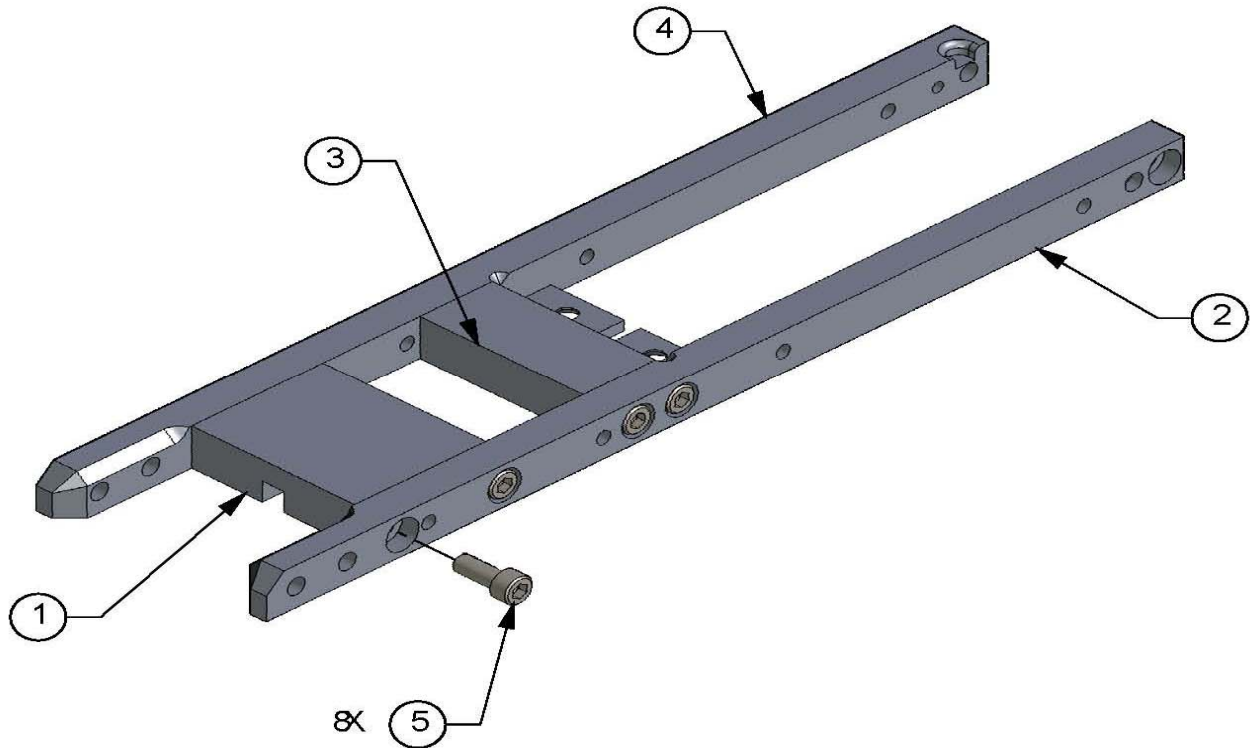
8" - 15" ILLUSTRATED ABOVE

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	840-38778	<u>KIT</u> , EXTENSION, LAUNCH, <u>8"-15" AND 20"-24"</u>
	800-38485	EXTENSION ASSY, STNDRD, <u>8" - 15"</u>
	800-38486	EXTENSION ASSY, LARGE, <u>20" - 24"</u>
1	451-38487-21	<u>8"- 15"</u> HOUSING EXTENSION
1	451-38488-21	<u>20"-24"</u> HOUSING EXTENSION
2	443-38489	ROLLER, LAUNCH EXTENSION
3	407-38490	SHAFT, MOUNTING, LAUNCH EXTENSION
4	403-38491	SPACER, WASHER, LAUNCH EXTENSION
5	318-14498	WASHER, LKG, #4, INT TOOTH, SS
6	301-10591	MSCR, PAN, PHH, 4-40 X 0.25", SS

EXTENSIONS/ACCESSORIES

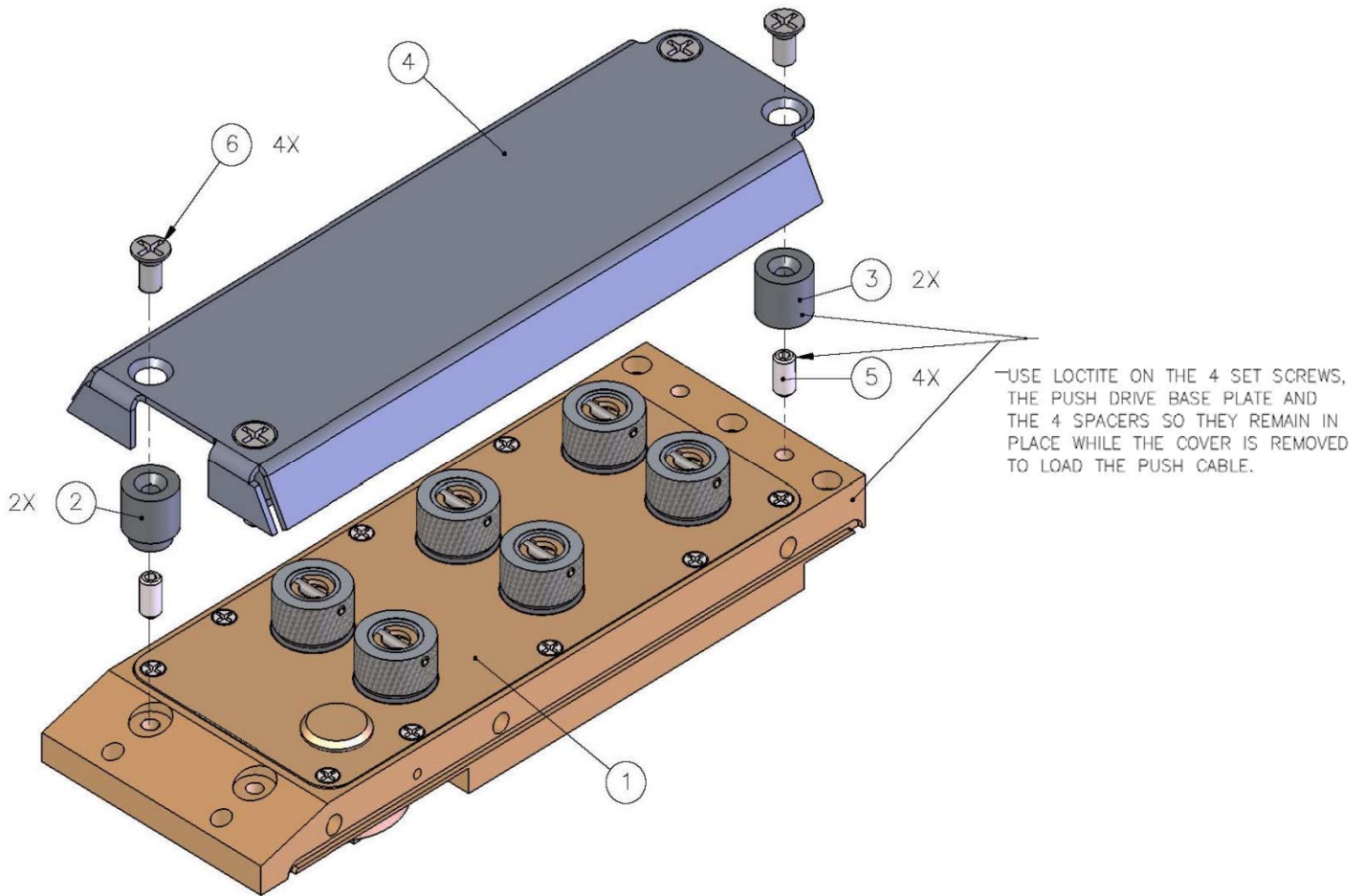
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	840-39502	KIT, ACCESSORIES	COMP KIT
	840-34854	EXTENSION KIT, BREAKDOWN IN TRANSTAR SECTION	1
	305-39774	HARDWARE, NYLON LOCK STRIP	4
	634-11114	ALLEN WRENCH, 5/32, LONG ARM	1
	963-38193	EXTENSION APPLICATION GUIDE	1

LATERAL LAUNCHER FLOOR RAIL ASSEMBLY



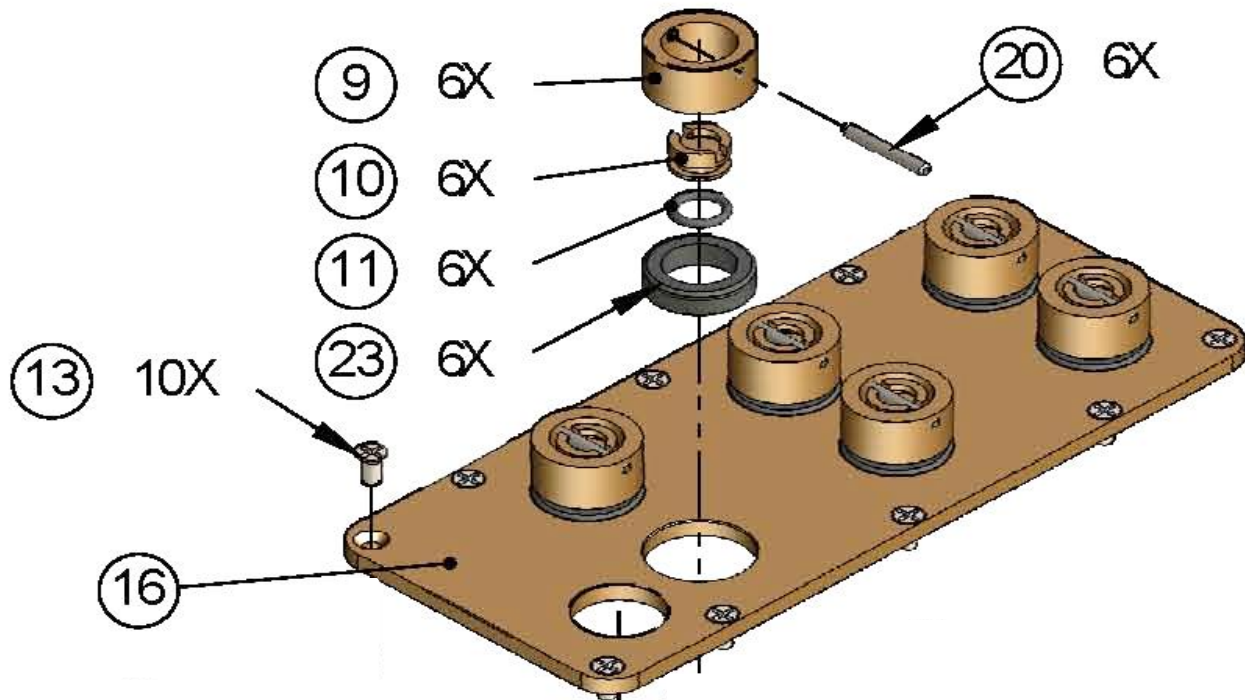
ITEM #	PART #	DESCRIPTION
1	451-37942	RAIL, CROSS BASE, FRONT
2	451-37945	RAIL, BASE, REAR, LEFT
3	451-37943	RAIL, CROSS BASE, MID
4	451-37944	RAIL, BASE, REAR, RIGHT
5	301-11241	MSCR, SHCS, 10-32 X 0.50, SS

LATERAL LAUNCHER PUSH CABLE DRIVE ASSEMBLY



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
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

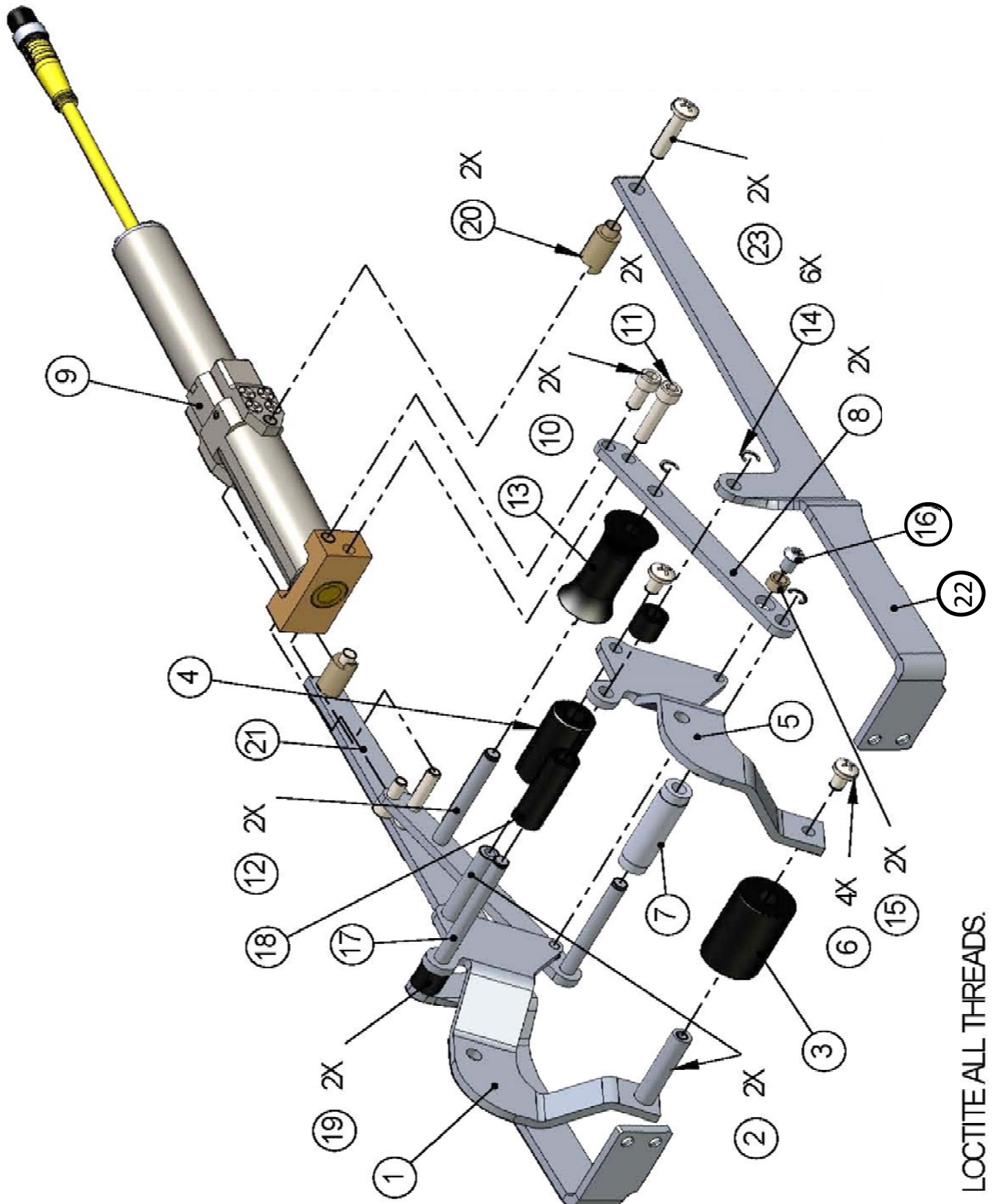
LATERAL LAUNCHER PUSH CABLE DRIVE ASSEMBLY



<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	CALL TECH SUPPORT	
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**

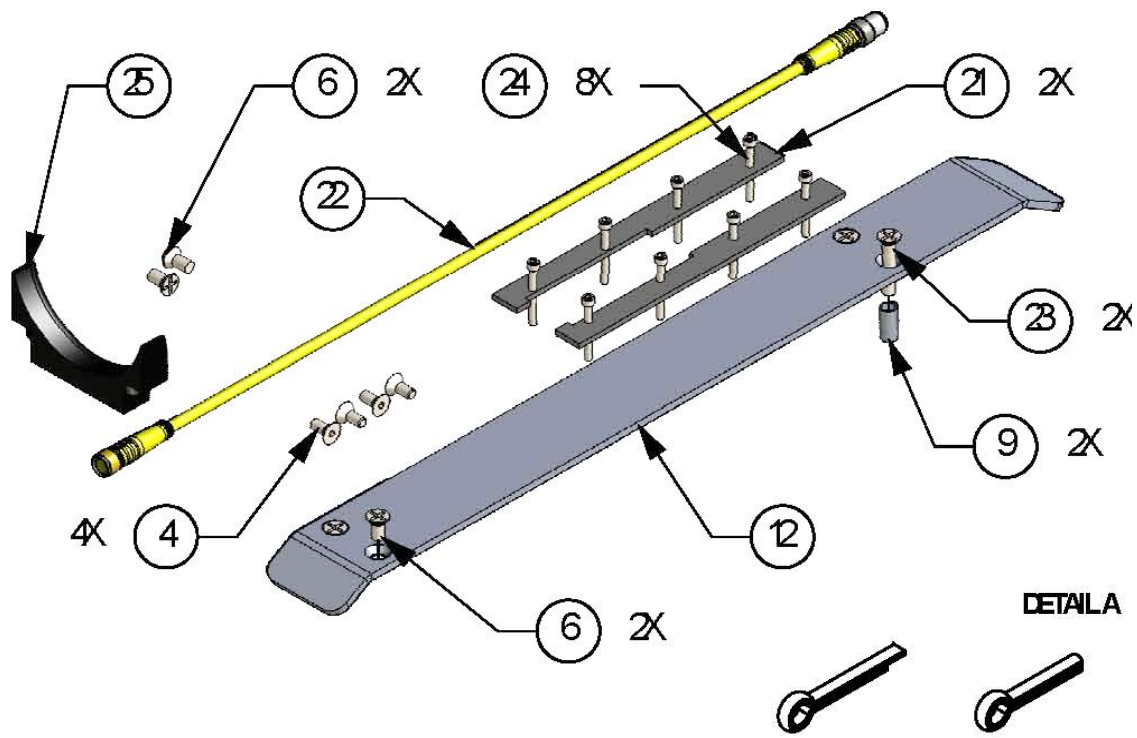
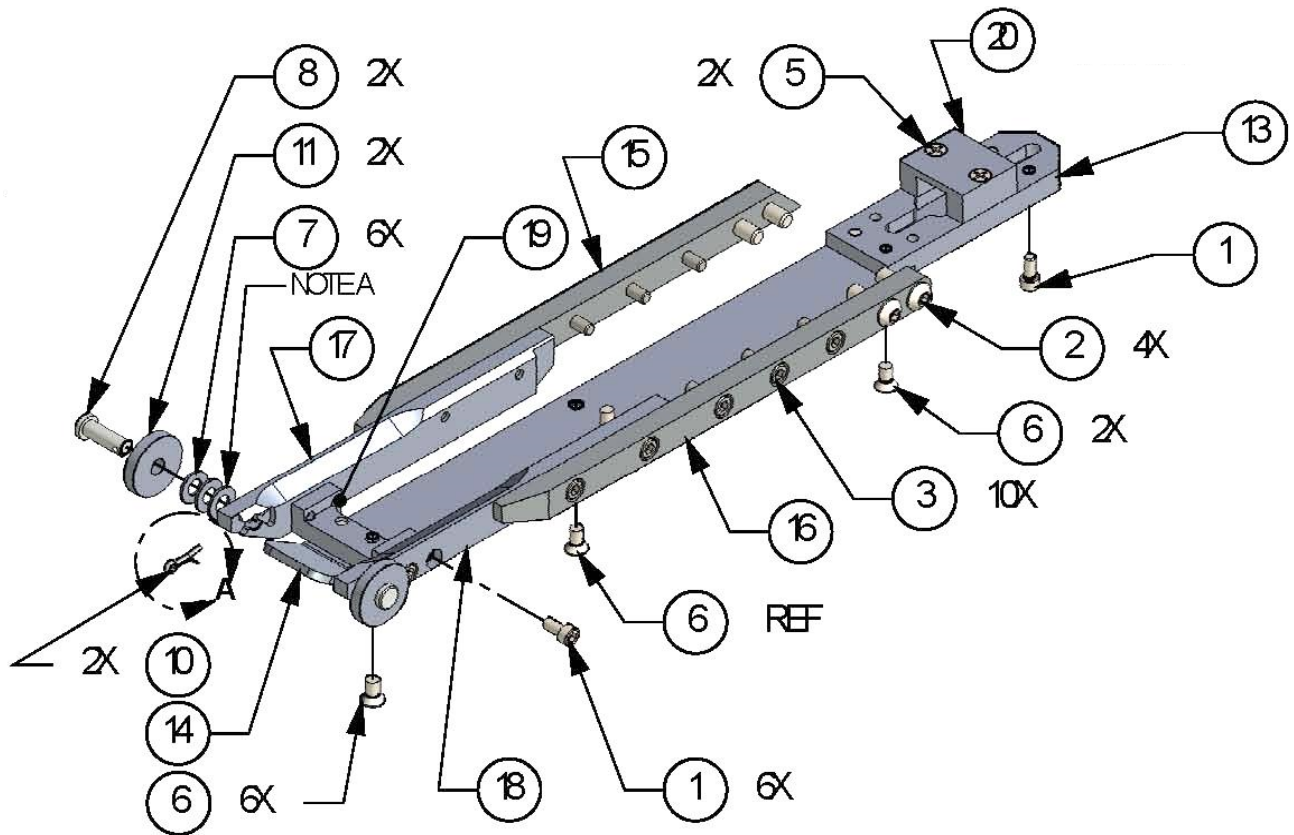
LATERAL LAUNCHER LAUNCHING MODULE ASSY



LATERAL LAUNCHER LAUNCHING MODULE ASSY

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-38475	LAUNCHING MODULE ASSEMBLY
1	451-37930	<u>RIGHT</u> SIDE, LAUNCH HEAD
2	407-37959	AXLE, ROLLER, MAIN, LAUNCH HEAD
3	443-37960	ROLLER, MAIN, <u>FRONT</u> , LAUNCH HEAD
4	443-37958	ROLLER, MAIN, <u>REAR</u> , LAUNCH HEAD
5	451-37929	<u>LEFT</u> SIDE, LAUNCH HEAD
6	301-12533	MSCR, PAN, PHH, 8-32 X 0.25", SS
7	443-39952	ROLLER, CABLE TRAPPING
8	444-39951	LEG, CLEVIS, CABLE TRAPPING
9	867-39076	ACTUATOR HD ASSEMBLY, LIFT
10	301-12302	MSCR, SHCS, 8-32 X 0.375", SS
11	301-12008	MSCR, SHCS, 8-32 X 0.75", SS
12	407-37970	SHAFT, ROLLER, CLEVIS, LAUNCH HEAD
13	443-37969	ROLLER, CLEVIS, LAUNCH HEAD
14	410-39068	RING, RETAINING, EXT. SIDE MNT
15	405-37972	BUSHING, CLEVIS LEG, LAUNCH HEAD
16	305-38474	SCREW, MOUNTING, PUSH LEG, ACUTUATOR
17	407-37964	SHAFT, PIVOT, HEAD, LAUNCH HEAD
18	443-37962	ROLLER, PIVOT, HEAD, LAUNCH HEAD
19	403-37963	SPACER, OUTER, HEAD PIVOT, LAUNCH HEAD
20	403-39086	SPACER, MOUNTING, ACTUATOR HD, LIFT
21	451-38408-40	RIGHT SIDE, MODULE
22	451-38409-40	LEFT SIDE, MODULE
23	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>
	841-38725	COMPLETION KIT (<u>PREVIOUS VERSION</u>)	COMP KIT
	841-38725-1	COMPLETION KIT (<u>REARVIEW CAM VERSION</u>)	COMP KIT
1	301-12302	MSCR,SHCS,8-32 X .375 SS	6
2	305-30381	MSCR,BUTTON,HXS,1/4-20 X .75 SS	4
3	301-11241	MSCR,SHCS,10-32X.50 SS	10
4	301-12126	MSCR,FLT,HXS,8-32X.37 SS	4
5	301-12591	MSCR,FLT,PHH,8-32X.75 SS	2
6	301-13172	MSCR,FLT,PHH,10-32X.37,UNDERCUT SS	10
7	316-11245	WASHER,FLT,.25,SAE SS	6
8	400-39069	PIN,CLEVIS,.25"DIA X 9/16"USABLE L 18-8 SS	2
9	403-37997	SPACER,SKID RAIL (<u>PREVIOUS VERSION</u>)	2
10	400-10774	PIN,COTTER,.094"DIA X .50" 316 SS	2
11	443-36876	SKATE WHEELS	2
12	450-37996	RAIL,SKID,UPPER (<u>PREVIOUS VERSION</u>)	1
12	450-39037	RAIL,SKID,UPPER (<u>REARVIEW CAM VERSION</u>)	1
13	450-38434	RAIL,CENTER,LOW	1
14	450-38435	SKID,FRONT,LOWER,CENTER	1
15	451-38436	RAIL,FRONT,RIGHT	1
16	451-38437	RAIL,FRONT,LEFT	1
17	451-38438	SKID,FRONT,LOWER,RIGHT	1
18	451-38439	SKID,FRONT,LOWER,LEFT	1
19	451-38440	BRACE,CROSS,SKIDS,FRONT,LOWER	1
20	453-37950	COVER,CBL,SLACK,CAMERA	1
21	453-38470	PLATE,SPACER,CAM CNTRL BOX (<u>PREVIOUS VERSION</u>)	1
22	557-38154	CBL, 4PIN, 26AWG, MALE/FEM, 0.4M, PICOFAST	1
23	301-13571	MSCR,FLT,PHH,10-32X1 SS (<u>PREVIOUS VERSION</u>)	2
24	301-38471	MSCR,SHCS,4-40X 1.0 SS (<u>PREVIOUS VERSION</u>)	8
25	449-37948	CHOCK,MID,BASE RAILS	1

CONTROLLERS



DESKTOP AUXILIARY CONTROLLER

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
542-12037		PUSH BUTTON W/O LABEL
542-13658		MINI TOGGLE SWITCH – IRIS OR FOCUS (SPDT MOMENTARY) LEFT & RIGHT SIDES
542-14523		SWITCH, TOGGLE, CENTER DPDT, MINI MOMENTARY
542-30606		SWITCH, 3-WAY, 5A (ZOOM/NON-ZOOM FUNCTION)
706-31314		LABEL FOR CONTROLLER BOX
806-11177		POWER CORD, SHIELDED TWINAX
806-17873		IRIS or FOCUS TOGGLE SWITCH ASSY (PREWIRED)
861-18827		ASSY, PCB, DTMF ENCODER (CIRCUIT BOARD ASSY)

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)
861-30167	ASSY, PCB, VOLT/FREQ DISPLAY - LISTED
861-30171	ASSY, PCB, VOLT/AMP DISPLAY - LISTED
861-30175	ASSY, PCB, INDICATOR, REEL LOAD AMPS - LISTED
861-31809	ASSY, PCB, RIPPLE FILTER, SINGLE FET, NON-LISTED (4 PIN CONN.)
861-31811	ASSY, PCB, RIPPLE FILTER, SINGLE FET, LISTED (5 PIN CONN.)

CABLES

TEST CABLES

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	705-14818	12/1300 CONTROLLER TO CAMERA (N-PLUG / TNC) 10 FT
2	806-17063	CABLE, TEST, 3-PIN FEMALE PUSH –ON / N-PLUG
3	806-31484	CABLE, TEST/ADAPTER CABLE, M/L REEL to CAMERA (6-PIN (F) SCREW STYLE TO N-PLUG)
	806-36831	CBL, 4PIN FEM(EURO) - 6 PIN MALE(IP67) ,10 INCH



PIGTAILS / 3-PIN PUSH ON STYLE

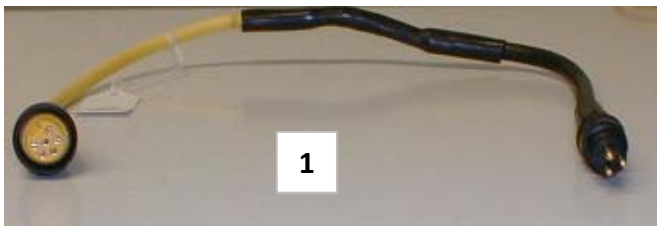
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
4	557-13260	PIGTAIL, FEMALE, 3-PIN PUSH ON STYLE, WATER RESISTANT
5	806-10527	ASSY, CBL, 3-PIN FEMALE PUSH TO TNC (TRACTOR TOP CABLE)
	560-14003	PLUG, DUMMY FOR 3-PIN FEMALE PIGTAIL
	560-15227	PROTECTOR SLEEVE, 3-PIN BULKHEAD CONN. (THREADED)
	634-17225	TOOL, PIG TAIL REMOVAL
	806-32662	ASSY, CBL, 3-PIN FEMALE PUSH TO 4 PIN EUROFAST (TRANSPORTER TOP CABLE FOR LISTED TRACTOR) (MUST BE SOLDERED ON)



CABLES

TWIST-ON BULLET STYLE

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	806-19576	CBL 3-PIN MALE PUSH-ON TO 6-PIN FEMALE SCREW-ON
2	806-21760	3-PIN (M) SCREW ON TO 3-PIN PUSH ON (TRACTOR TO BULLET)
3	557-19528	PIGTAIL, 6-PIN F SCREW-ON STYLE
4	806-19668	ASSY, CABLE, 6-PIN TO TNC, 31: MLT (TRACTOR TOP CABLE)
5	806-40192	3-PIN (M) SCREW STYLE TO 6-PIN (F) SCREW STYLE (INTERCONNECT CABLE, TRACTOR TO REEL)
6	806-37583	ASSY,CBL, <u>SONDE</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>
1	806-30399	ASSY, CABLE, 6-PIN CAMERA TO TNC, S/C CRAWLER, 22-1/2 (TOP CABLE FOR <u>NON-LISTED CRAWLERS</u>)
	806-32501	ASSY, CBL, 1300 TO TRAC (TNCj/6-PINm) W/ FILTER
2	806-34469-13	ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, 13 IN (TOP CABLE FOR <u>TRANSTAR</u>)
	806-34469-16	ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, 16 IN (TOP CABLE FOR <u>TRANSTAR WITH ELEVATOR</u>)
	806-34469-21	ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, 21 IN (TOP CABLE FOR <u>LISTED 6" CRAWLER</u>)
	806-34469-24	ASSY, CABLE, 6SKT (IP67) TO 4-PIN EUROFAST, 24 IN (TOP CABLE FOR <u>LISTED 8" CRAWLER</u>)
	806-34469-33	ASSY, CBL, 6-PIN FEMALE SCREW TO 4 PIN 33 IN , EUROFAST (TOP CABLE FOR LISTED TRACTORS)
	806-36831	ASSY,CBL,4PIN FEM(EURO)-6 PIN MALE(IP67),10 INCH (LED LIGHTS, EXTERNAL DUAL UPGRADE)



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'

SINCON

3-PIN PUSH ON, TERMINATED

ITEM #	PART #	DESCRIPTION
	806-10291	ASSY, SINCON, 500' - (SPECIAL ORDER)
	806-14778	ASSY, SINCON, 1000' - (SPECIAL ORDER)
	806-15011	ASSY, SINCON, 1500' - (SPECIAL ORDER)
	806-15188	ASSY, SINCON, 2000' - (SPECIAL ORDER)

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

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

EXPLOSION PROOF, TERMINATED

806-33267	ASSY, SINCON, 1000' - (SPECIAL ORDER)
806-33967	ASSY, SINCON, 1500' - (SPECIAL ORDER)
806-32386	ASSY, SINCON, 2000' - (SPECIAL ORDER)

NOTE: REQUIRES 48-72 HOUR PROCESSING TIME

CABLE SOLD SEPERATELY (AVAILABLE IN 500 FT INCREMENTS)

569-20283	SINGLE CONDUCTOR, <u>SINCON</u> , STEEL ARMORED, <u>PER FOOT</u>
569-35058	SINGLE CONDUCTOR, 0.34" O.D. KEVLAR, BLUE JKT, <u>PER FOOT</u>
569-34351	MULTI-CONDUCTOR, <u>PER FOOT</u>
701-13388	SPOOL

AIRCRAFT CABLE

569-13266	CBL, AIRCRAFT, 1/8", 7/19 STRND, SS, <u>PER FOOT</u>
569-13380	CBL, AIRCRAFT, 1/8", <u>1000' ROLL</u>
569-13494	CBL, AIRCRAFT, 3/16", 7/19 STRND, SS, <u>PER FOOT</u>
569-18971	CBL, AIRCRAFT, 3/16", <u>500' ROLL</u>
569-13323	CBL, AIRCRAFT, 3/16", <u>1000' ROLL</u>

CABLE

PUSH REEL

CABLE ASSEMBLIES, TERMINATED, TNC

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	806-10469	ASSY, CBL, PUSH 150' TNC
	806-20807	ASSY, CBL, PUSH 200' TNC
	806-20530	ASSY, CBL, PUSH 250' TNC
	806-20531	ASSY, CBL, PUSH 300' TNC
<u>NOTE:</u> REQUIRES 24-48 HOUR PROCESSING TIME		

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

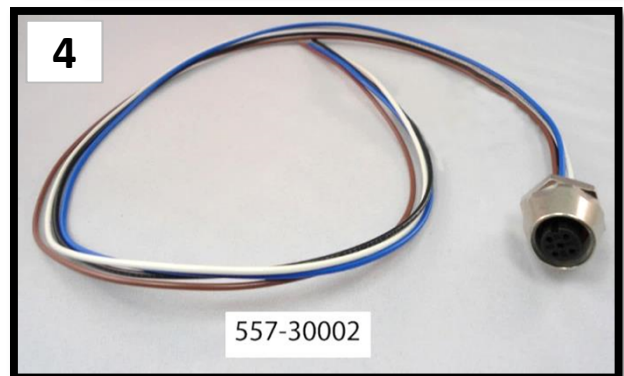
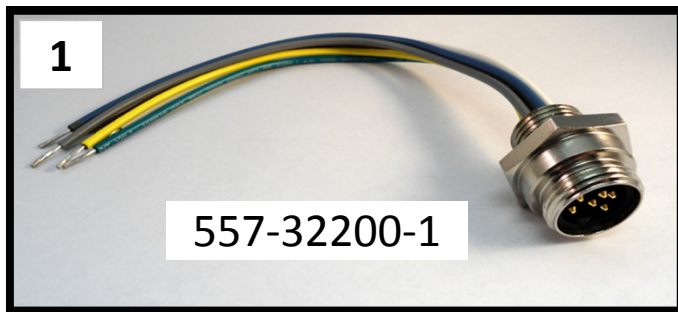
PUSH CABLE

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	
	806-38136-25	CBL, <u>WITH</u> CAMERA TERMINATION	25 FT
	806-38136-3	CBL, <u>W/O</u> CAMERA TERMINATION	25 FT
	806-38136-50	CBL, <u>WITH</u> CAMERA TERMINATION	50 FT
	806-38136-2	CBL, <u>W/O</u> CAMERA TERMINATION	50 FT
	806-38136	CBL, <u>WITH</u> CAMERA TERMINATION	100 FT
	806-38136-1	CBL, <u>W/O</u> CAMERA TERMINATION	100 FT
	806-38136-150	CBL, <u>WITH</u> CAMERA TERMINATION	150 FT
	806-38136-200	CBL, <u>WITH</u> CAMERA TERMINATION	200 FT

CONNECTORS

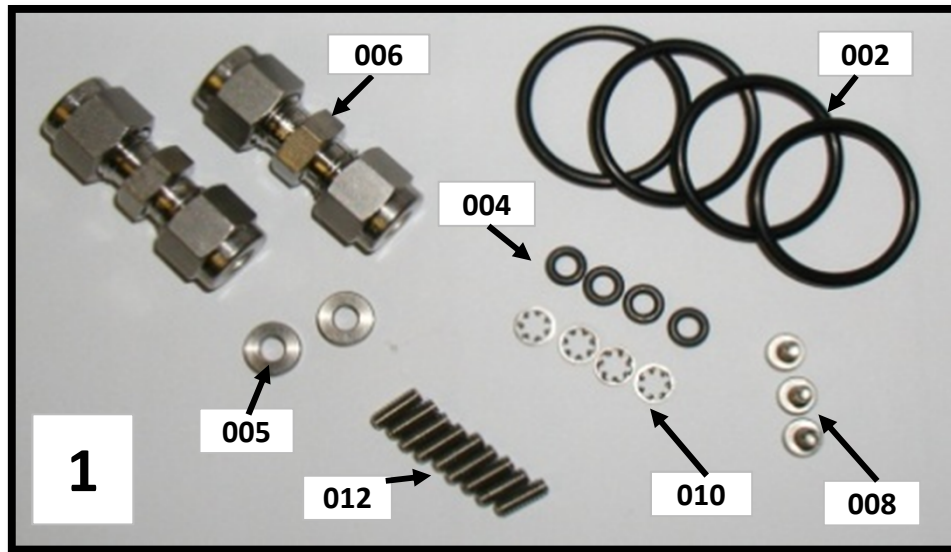
BULKHEAD CONNECTORS

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	557-30633	3-PIN, UNMODIFIED (OLD PART # 557-12796)
1	557-32200	6-PIN MALE, THREADED BULKHEAD CONNECTOR, BARE
	806-11000	3-PIN PUSH-ON, PREWIRED (FOR CAMERA ONLY)
	806-19679	6-PIN SCREW TYPE, PREWIRED (OEIII CAMERA NON-LISTED)
2	806-21194	3-PIN PUSH-ON, PREWIRED (FOR TRACTOR ONLY)
	806-31431	6-PIN SCREW TYPE, PREWIRED (ML/OE/OEII CAMERA ONLY)
3	806-31465	6-PIN SCREW TYPE, PREWIRED (FOR TRACTOR ONLY)
	806-32514	6-PIN SCREW TYPE, PREWIRED (OEII LISTED CAMERA)
	806-32688	6-PIN SCREW TYPE, PREWIRED (OEIII CAMERA LISTED ONLY)
	806-33654	6-PIN SCREW TYPE, PREWIRED (OE STAR CAMERA)
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



BULLET KITS AND ACCESSORIES

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

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u> <u>COMP</u>
	841-31910	KIT, CHANGEOVER 6-PIN CONN, TRACTOR, BULLET TO INCLUDE:	KIT
	806-40192	ASSY,CBL,3PIN MALE/6 PIN FEMALE,.4M LONG	1
	806-31465	ASSY,HARNESS,BHC,6PIN(M) SCREW-ON,MLT	1
	841-31486	KIT, FIELD, SINCON, 6PIN F TO 3PIN M (BREAKDOWN NEXT PG)	1

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u> <u>COMP</u>
	841-21759	KIT, PIGTAIL, BULLET CONNECTOR 3-PIN SCREW ON, 3-PIN PUSH ON STYLE	KIT
	867-31751	BULLET ASSEMBLY	1
	806-21760	CBL, 3PIN M (SCREW ON) TO 3PIN F (PUSH ON) PIGTAIL	1
	634-10524	ALLEN WRENCH, 7/64	1
	301-19935	MSCR, SHCS, 6-32 X 0.375 SS	3
	450-32403	SLEEVE, DELRIN SKID, BULLET, 2" O.D.	1
	968-30426	DWG	1
	970-30904	INSTRUCTIONS	1

BULLET KITS AND ACCESSORIES

ITEM #	PART #	DESCRIPTION	QTY COMP KIT
1	841-31486	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
2	867-31751	ASSY, BULLET TERMINAL, REMOVEABLE PIGTAIL



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

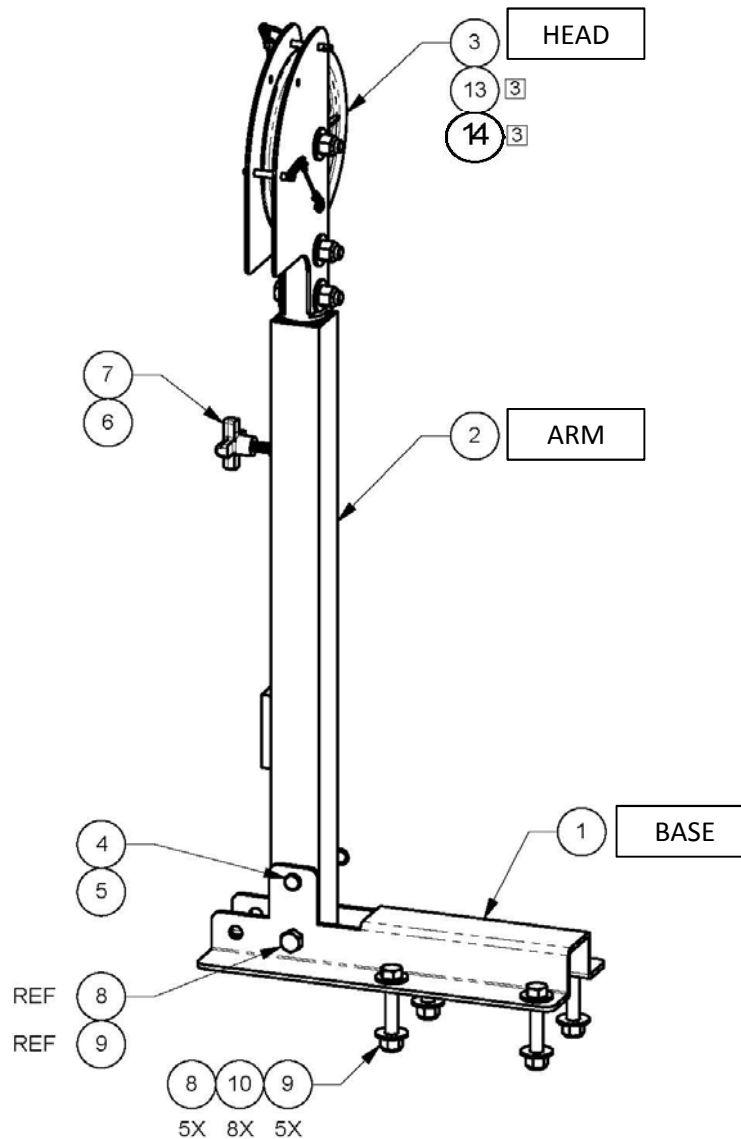


RECHARGE KIT



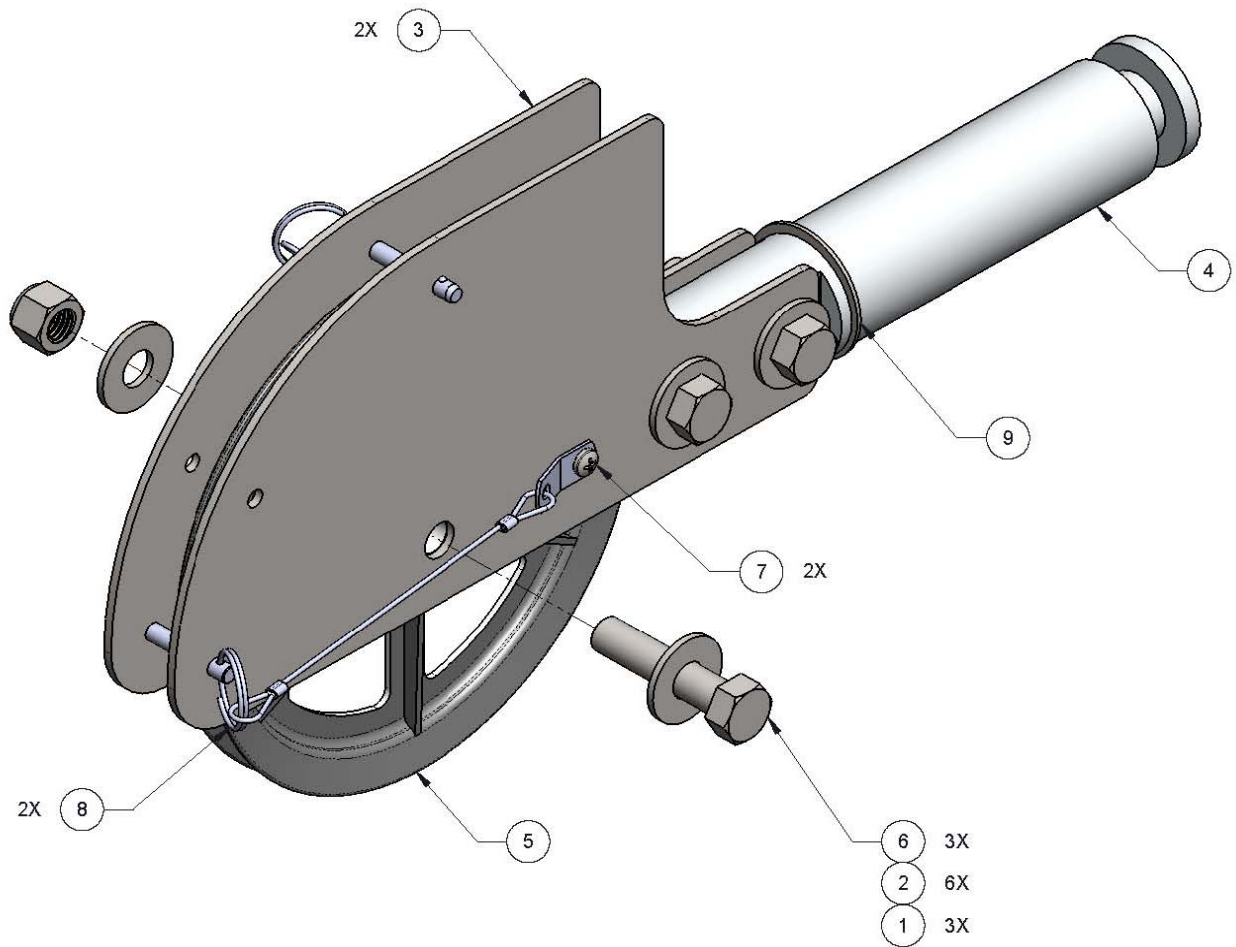
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	840-35012	RECHARGE KIT (ALL 3 ITEMS)	COMP KIT
1	603-35024	HOSE, 800 PSI, 1/4" FEMALE CONNECTOR	1
2	566-35083	REGULATOR, TWO GAUGE, 0-30 PSI, NITROGEN	1
3	633-35020	PORTABLE STAND	1

ARTICULATING ARM



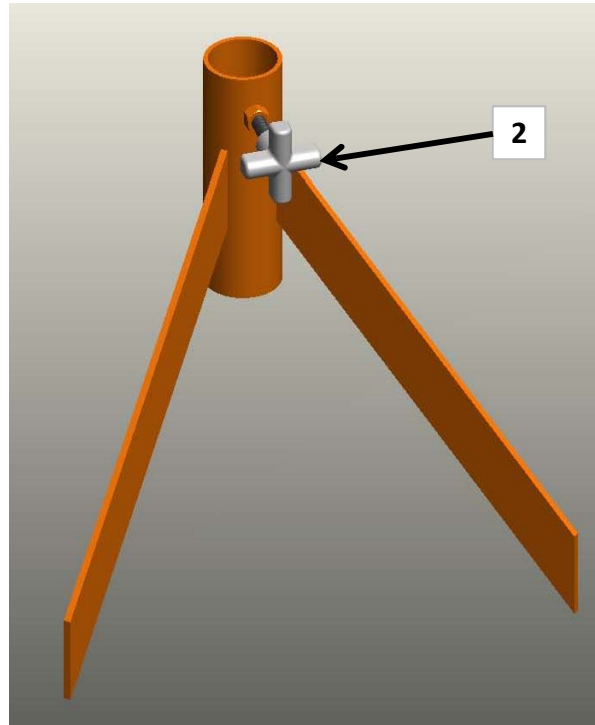
ITEM #	PART #	DESCRIPTION
	867-32615	ENTIRE ASSEMBLY
1	451-39831	BASE,ARTICULATED CBL GUIDE
2	800-20678-31	ASSY,ARM,ARTICULATED CBL GUIDE,RST SILVER
3	867-32400	HEAD ASSY - DWG & BREAKDOWN NEXT PAGE
4	400-20660	PIN,CLEVIS,.5" DIA X 2.75" L STEEL
5	400-20659	PIN,COTTER,HAIRPIN STYLE,.375"->.75"SHAFT,.093 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, MC CABLE
14	867-21720	HEAD ASSY, GUIDE ROLLER, HI LOAD CAPACITY ,ARTICULATING

ARTICULATING ARM HEAD ASSEMBLY



<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
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	407-34201-21	SHAFT, PIVOT, GUIDE, CABLE
5	440-32041	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

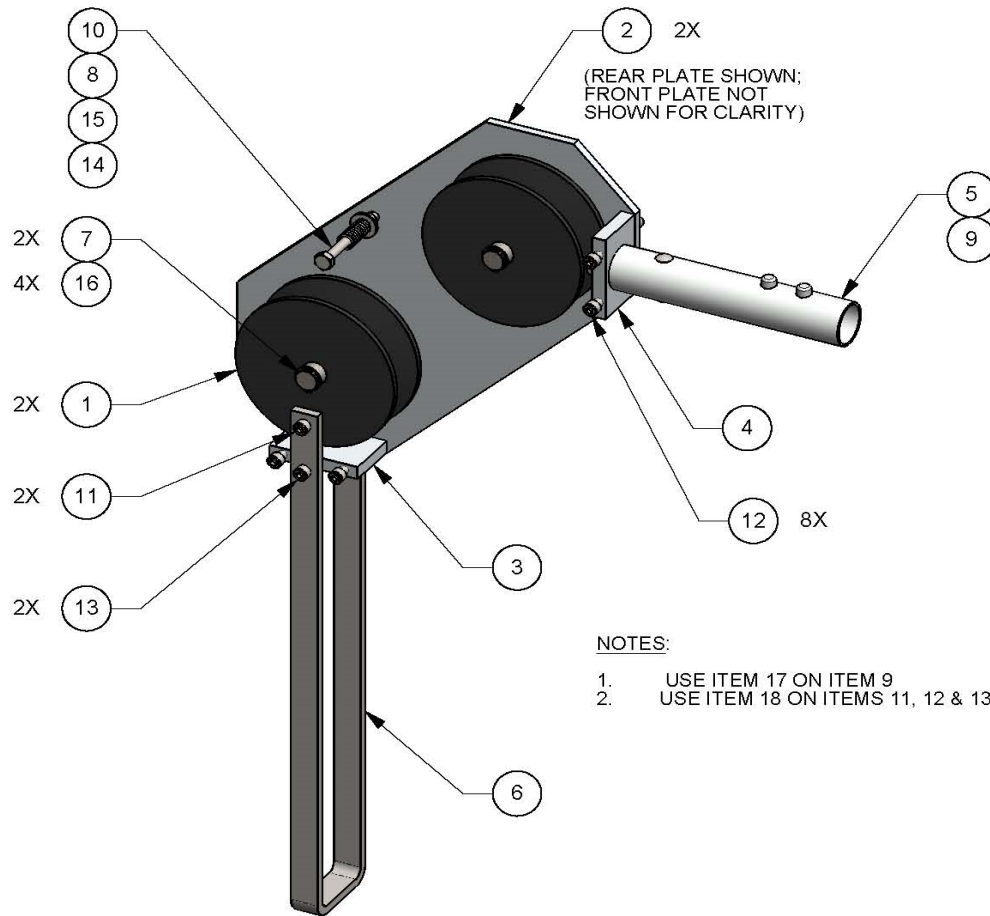


<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
	867-21355	MANHOLE HOOK COMPLETE ASSEMBLY
2	805-12527	DRAG BRAKE KNOB & SHAFT



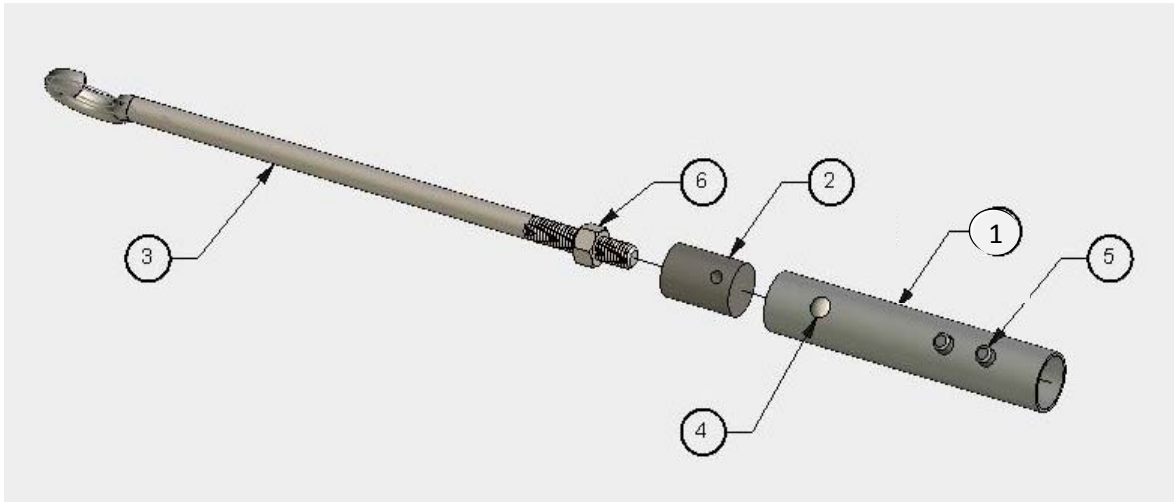
<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	867-18552	COMPLETE DOWNHOLE POLE	COMP
2	405-15873-31	SLEEVE, INTERLOCKING	1
3	401-12481	RIVET, 1/4 X 1-5/8 X 7/16 STEEL	1
4	447-15944	SNAP BUTTON LATCH, DUAL, ZINC PLATE STEEL	1

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

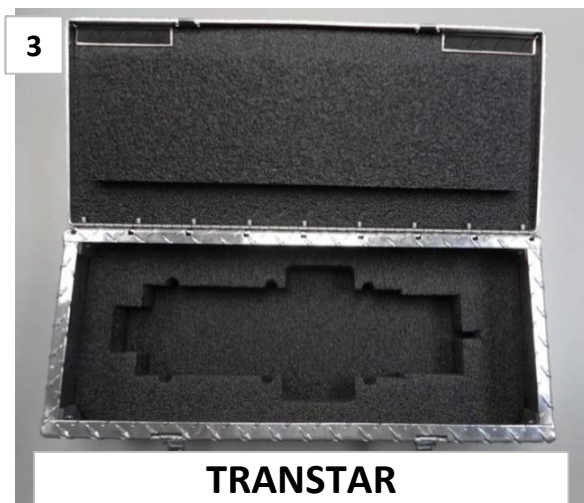


<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	867-12371	COMPLETE ASSEMBLY - GRAB HOOK	COMP
1	455-15956-22	POLE,INTERLOCKING,PSH BTTN,6.5",CLR GALVANIZE OR NICKEI	1
2	409-16902	INSERT,POLE END,THREADED,DOWNHOLE EQUIP	1
3	444-12603	HOOK,GRAB	1
4	401-17760	RIVET,SEMI TUBULAR,.25X1.375X7/16,STEEL	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 <u>(SOLD SEPARATELY)</u>	



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

CASES



ITEM #	PART #	DESCRIPTION
1	701-12230	CASE - <u>M/L CAMERA</u>
1.1	701-33326	FOAM INSERTS (SET) FOR DIAMOND PLATE CASE
2	701-38617	CASE,LATERAL LAUNCHER GEN 2, 40 INCH
3	701-38703	CASE,TRANSTAR
N/A	701-18954	STORM DRAIN TRACTOR <u>WOODEN CRATE</u>

Thank you for choosing

