

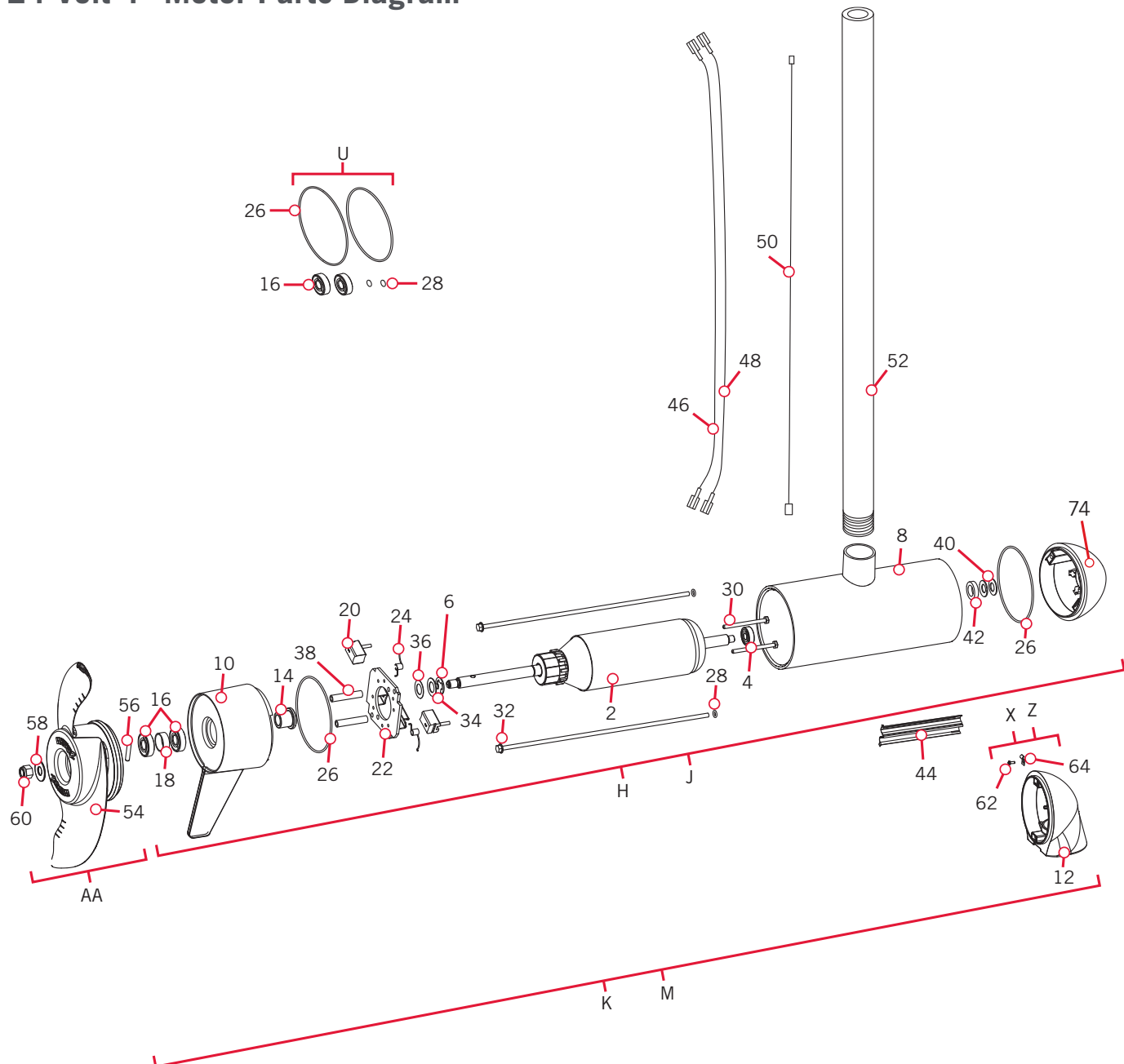
PARTS DIAGRAM & PARTS LIST

FORTREX - 80/112 LBS THRUST - 24/36 VOLT - 45"/52" SHAFT

The parts diagram and parts list provides Minn Kota® WEEE compliance disassembly instructions. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased. Tools required, but not limited to: flat head screwdriver, Phillips screwdriver, socket set, pliers, wire cutters.

FORTREX MOTOR

24 Volt 4" Motor Parts Diagram



PARTS DIAGRAM & PARTS LIST

24 Volt 4" Motor Parts List

Assembly	Part #	Description	Notes	Quantity
H	2417005	24V MOTOR 45" FW	*80 LB* *24V* *45"* *4"*	1
J	2417006	MTR ASY 24V 4" VS FW 80 BS	*24V* *4"*	1
K	2427005 +	24V MOTOR US2 45"	*80 LB* *24V* *45"* *US2* *4"*	1
M	2427006 +	24V MOTOR US2 52"	*80 LB* *24V* *52"* *US2* *4"*	1
U	2889460	SEAL & O-RING KIT	*80 LB* *4"*	1
X	9421-244 +	TRANSDUCER ASSEMBLY	*52"* *80 LB* *4"* *US2*	1
Z	9421-288 +	TRANSDUCER ASSEMBLY	*45"* *80 LB* *4.5"* *US2*	1
AA	1378132	PROPELLER KIT WW2	*80 LB* *4"*	1
Item	Part #	Description	Notes	Quantity
2	2-100-214	ARMATURE ASSEMBLY	*80 LB*	1
4	140-010	BEARING	*80 LB*	1
6	788-040	RETAINING RING		1
8	2-200-160	CENTER HOUSING ASSEMBLY	*80 LB* *4"*	1
	2-200-130	CTR HSG ASY 4.0 CB FW MAG	*80LB*	1
10	2-300-160	BRUSH END HSG ASY	*80 LB* *4"*	1
12	* +	PLAIN END HOUSING ASSEMBLY STD	*4"* *80 LB* *US2* * SEE X OR Z*	
14	144-017	FLANGE BEARING		1
16	880-025	SEAL		2
18	725-095	PAPER TUBE - SEAL BORE		1
20	188-094	BRUSH	*80 LB*	2
22	9-738-015	BRUSH PLATE ASSEMBLY	*4"*	1
24	975-041	BRUSH SPRING	*80 LB*	2
26	701-043	O-RING, MOTOR	*80 LB* *4"*	2
28	701-009	O-RING, THRU-BOLT		2
30	830-027	SCREW, 10-32 X 2	*80 LB*	2
32	830-094	THRU-BOLT 12-24		2
34	990-051	WASHER, STEEL		1
36	990-052	WASHER, NYLATRON		1
38	973-025	SPACER, BRUSH PLATE	*80 LB*	2
40	992-010	WASHER, BELLEVILLE	*80 LB*	2
42	990-045	SPACER, THRUST	*80 LB*	1
44	582-013	CLIP, RETAINING, SHORT, US2 ONLY	*80 LB*	1
46	640-015	LEADWIRE, BLACK	*80 LB* *45"* *4"* *US2* *NON US2*	1
	640-016	LEADWIRE, BLK AWG 56 1/2 XLP	*80LB* *45"*	1
	640-017	LEADWIRE, BLACK	*80 LB* *52"* *4"* *US2*	1

▲ Not shown on Parts Diagram.

* This part is included in an assembly and cannot be ordered individually.

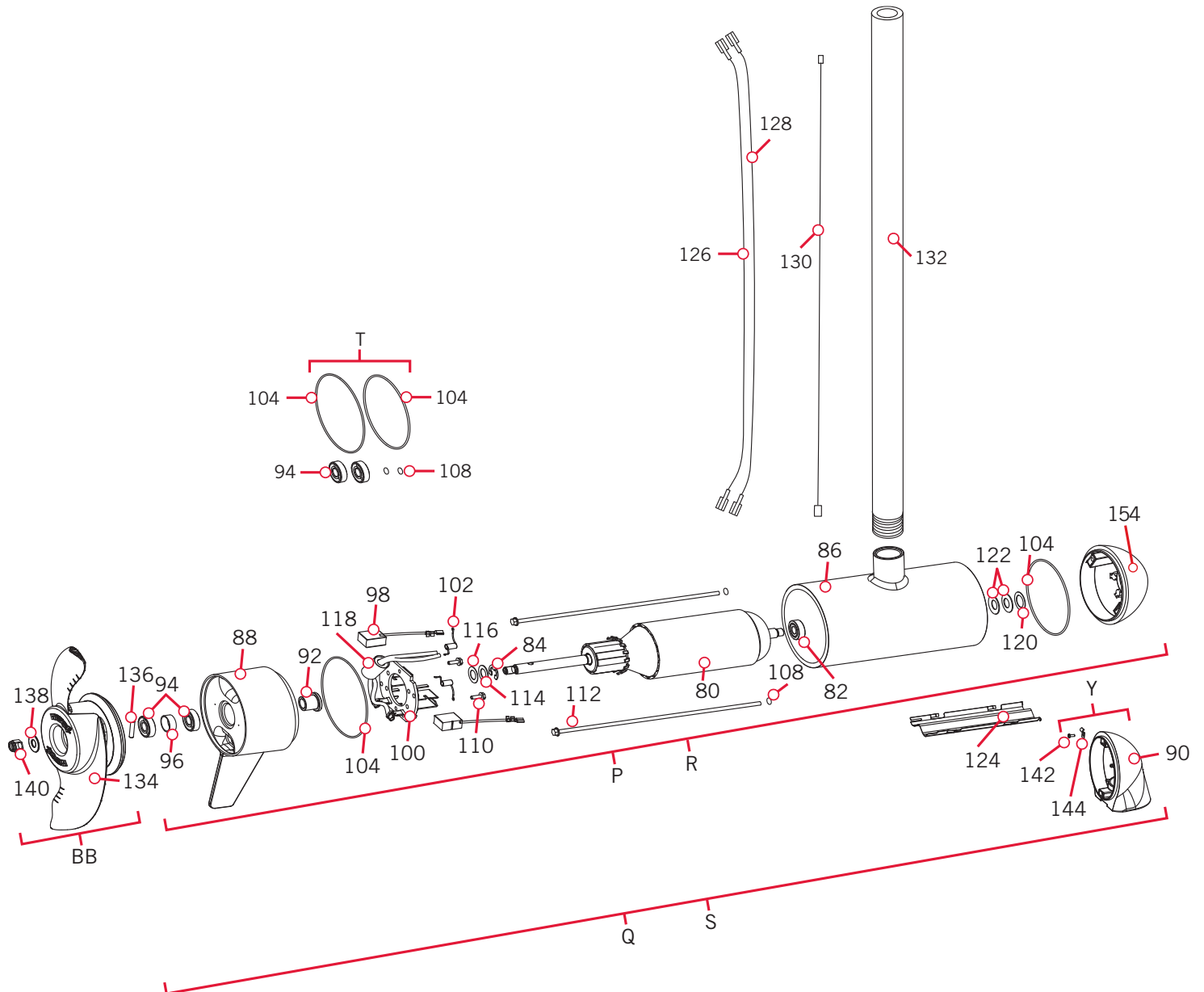
+ Only available with models factory installed with Universal Sonar.

□ The Bow-Mount Stabilizer Assembly is not required or included on the 80lb 45" Fortrex.

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✖ This part is included in an assembly and cannot be ordered individually. 45" Fortrex.
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36 Volt 4.5" Motor Parts Diagram



PARTS DIAGRAM & PARTS LIST

36 Volt 4.5" Motor Parts List

Assembly	Part #	Description	Notes	Quantity
P	2317084	36V MOTOR 52" FW	*112 LB* *36V* *52"* *4.5"*	1
Q	2327084 +	36V MOTOR US2 52"	*112 LB* *36V* *US2* *52"* *4.5"*	1
R	2317083 +	36V MOTOR 45"	*112 LB* *36V* *45"* *4.5"*	1
S	2327083 +	36V MOTOR US2 45"	*112 LB* *36V* *US2* *45"* *4.5"*	1
T	2881450	SEAL & O-RING KIT	*4.5"* *112 LB*	1
Y	9421-245 +	TRANSDUCER ASSEMBLY	*UP TO 52"* *112 LB* *4.5"* *US2* *NON MDI*	1
BB	1378160	PROPELLER KIT WW2	*112 LB* *4.5"*	1
Item	Part #	Description	Notes	Quantity
80	2-100-245	ARMATURE ASSEMBLY	*112 LB*	1
82	140-014	BEARING	*112 LB*	1
84	788-040	RETAINING RING		1
86	2-200-250	CENTER HOUSING ASSEMBLY	*4.5"* *112 LB*	1
88	2-300-175	BRUSH END HSG ASY 4.5" FW	*4.5"* *112 LB*	1
90	✕ +	PLAIN END HOUSING ASSEMBLY STD	*4.5"* *112 LB* *US2* *SEE Y*	1
92	144-017	FLANGE BEARING		1
94	880-025	SEAL		2
96	725-095	PAPER TUBE - SEAL BORE		1
98	188-095	BRUSH	*112 LB*	2
100	9-738-015	BRUSH PLATE ASSEMBLY	*4.5"*	1
102	975-045	BRUSH SPRING	*112 LB*	2
104	701-098	O-RING, PLAIN END	*4.5"* *112 LB*	2
108	701-009	O-RING, THRU-BOLT		2
110	2053410	SCREW, 8-32 X 1/2	*112 LB*	2
112	830-094	THRU-BOLT 12-24		2
114	990-051	WASHER, STEEL		1
116	990-052	WASHER, NYLATRON		1
118	2307312	FERRITE BEAD		1
120	990-011	WASHER, SHIM		1
122	992-011	WASHER, BELLEVILLE	*112 LB*	2
124	582-016	CLIP, RETAINING	*112 LB*	1
126	640-040	LEADWIRE, BLACK 45"	*112 LB* *4.5"* *45"* *US2* *NON US2*	1
	640-043	LEADWIRE, BLACK 52"	*112 LB* *52"* *4.5"* *US2* *NON US2*	1
128	640-140	LEADWIRE, RED 45"	*112 LB* *4.5"* *45"* *US2* *NON US2*	1
	640-143	LEADWIRE, RED 52"	*112 LB* *52"* *4.5"* *US2* *NON US2*	1

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PARTS DIAGRAM & PARTS LIST

Item	Part #	Description	Notes	Quantity
130	640-315	BONDING WIRE, BROWN 45"	*45"*	1
	640-316	BONDING WIRE, BROWN 52"	*52"*	1
132	2032003	TUBE 45"		1
	2032006	TUBE 52"		1
134	2341160	PROPELLER WW2	*112LB* *4.5"*	1
136	2262658	DRIVE PIN, LARGE		1
138	2091701	WASHER, PROP, LARGE		1
140	2093101	NUT, NYLOCK, PROP, LARGE		1
▲	✖	TRANSDUCER ASSY US2 W/T	*45"*	1
	✖	TRANSDUCER ASSY US2 W/T	*52"*	1
142	2302104 +	SCREW - #6-20 X 3/8 THD CUTS, RI		1
▲	✖	SCREW - #6-20 X 1/2 THD CUTS, RI		3
144	230-038	CABLE CLAMP		1
154	421-240	PLAIN END HSG 4.5" PNTD FW 4.5" LOWER UNIT	*112 LB*	1

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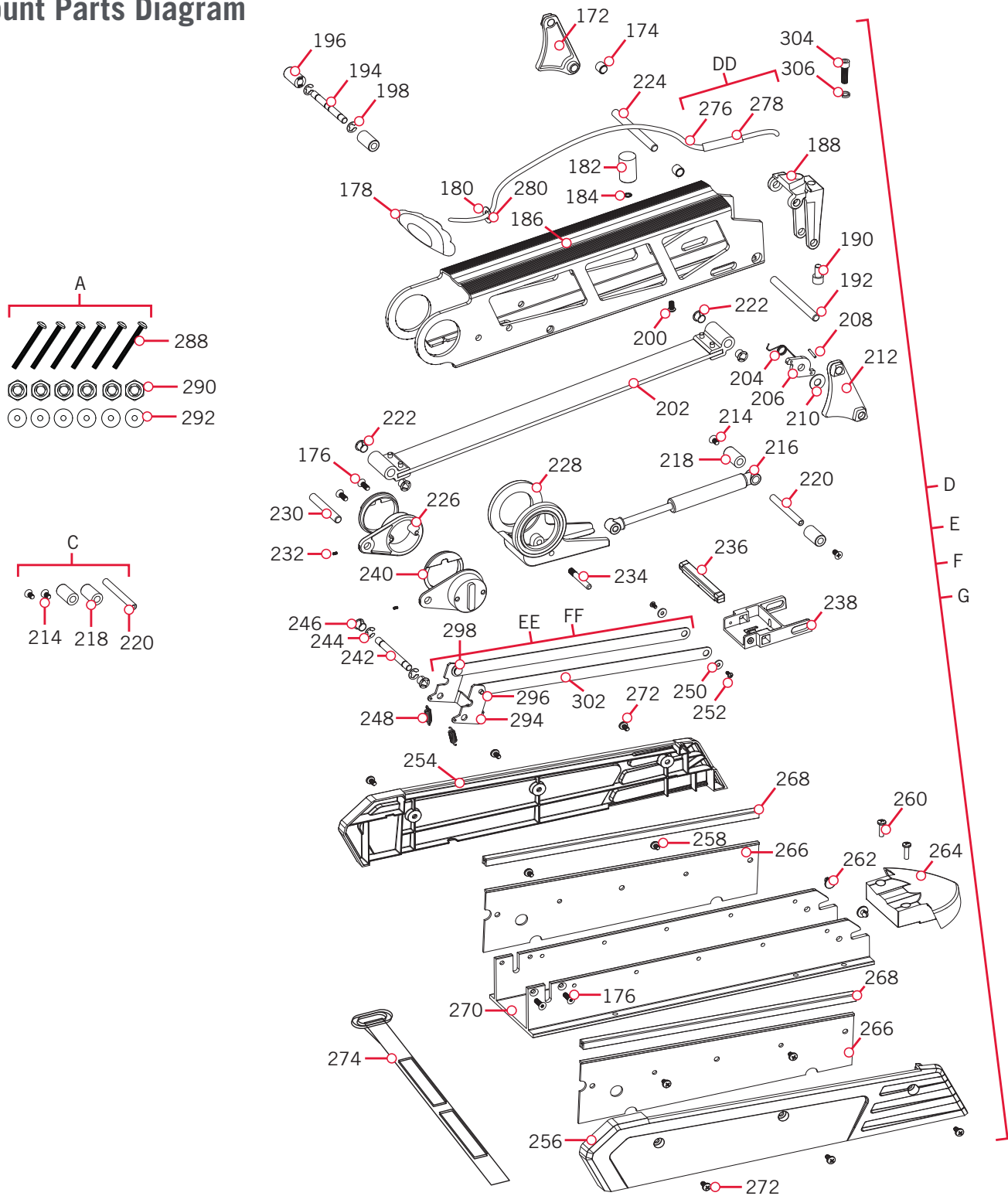
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PARTS DIAGRAM & PARTS LIST

FORTREX MOUNT

Mount Parts Diagram



PARTS DIAGRAM & PARTS LIST

Mount Parts List

Assembly	Part #	Description	Notes	Quantity
D	2991650	MNT FW 80# 45", 112#/HC 52"	*80 LB 45"* *112 LB 52"*	1
E	2991652	MNT ASM FTX FW 80# 52/62"	*80 LB 52"* *80 LB 62"*	1
F	2991653	MNT ASM FTX FW 112# 45"	*112 LB 45"*	1
G	2991654	MNT ASM FTX FW 112# 52"	*112 LB 52"*	1
DD	2771601	ROPE ASSEMBLY		1
EE	2773600	LATCH STRAP ASSEMBLY, SHORT		1
FF	2773601	LATCH STRAP ASSEMBLY, LONG		1
A	2994887	MOUNTING HARDWARE BAG ASSY		1
C	2991912	BAG, ASSY. FORTREX MOUNT HDW		1
Item	Part #	Description	Notes	Quantity
172	2280800	LINK, BOWGUARD MOUNT, LEFT		1
	2990810	END LINK, LEFT, MACHINED	*112 LB 62" ONLY*	1
174	2287303	BUSHING, UPPER PINS		2
176	2283411	SCREW, 1/4-20 X 1" FHS RIE TORX		4
178	2880401	PULL GRIP ASSEMBLY		1
180	2261732	WASHER		2
182	2281516	SPACER, INNER ARM		1
184	2281702	WASHER, LOCK 1/4		1
186	2284202	OUTER ARM, SHORT		1
	2284212	OUTER ARM, LONG		1
188	2992322	ROPE GUIDE ASSEMBLY	*INCLUDES THREADED INSERT*	1
190	2281530	INSERT, THREADED		1
192	2282608	PIN, 7/16 X 5 5/32 - 52"		1
194	2282602	PIN, 3/8 X 3 3/4" SS		1
196	2261505	SPACER		2
198	2263011	E-RING, 3/8 SHAFT		2
200	2223418	SCREW, 1/4-20 X 1/2 BHCS		1
202	2993821	INNER ARM ASSEMBLY, LONG		1
	2993819	INNER ARM ASSEMBLY, SHORT		1
204	2042711	SPRING, TORSION		1
206	2283620	LATCH, SAFETY		1
208	2282611	PIN, SAFETY LATCH		1
210	2281704	WASHER 7/16 NYLON		1
212	2280805	LINK, BOWGUARD MOUNT, RIGHT		1
	2990815	END LINK, RIGHT, MACHINED	*112 LB 62" ONLY*	1

▲ Not shown on Parts Diagram.

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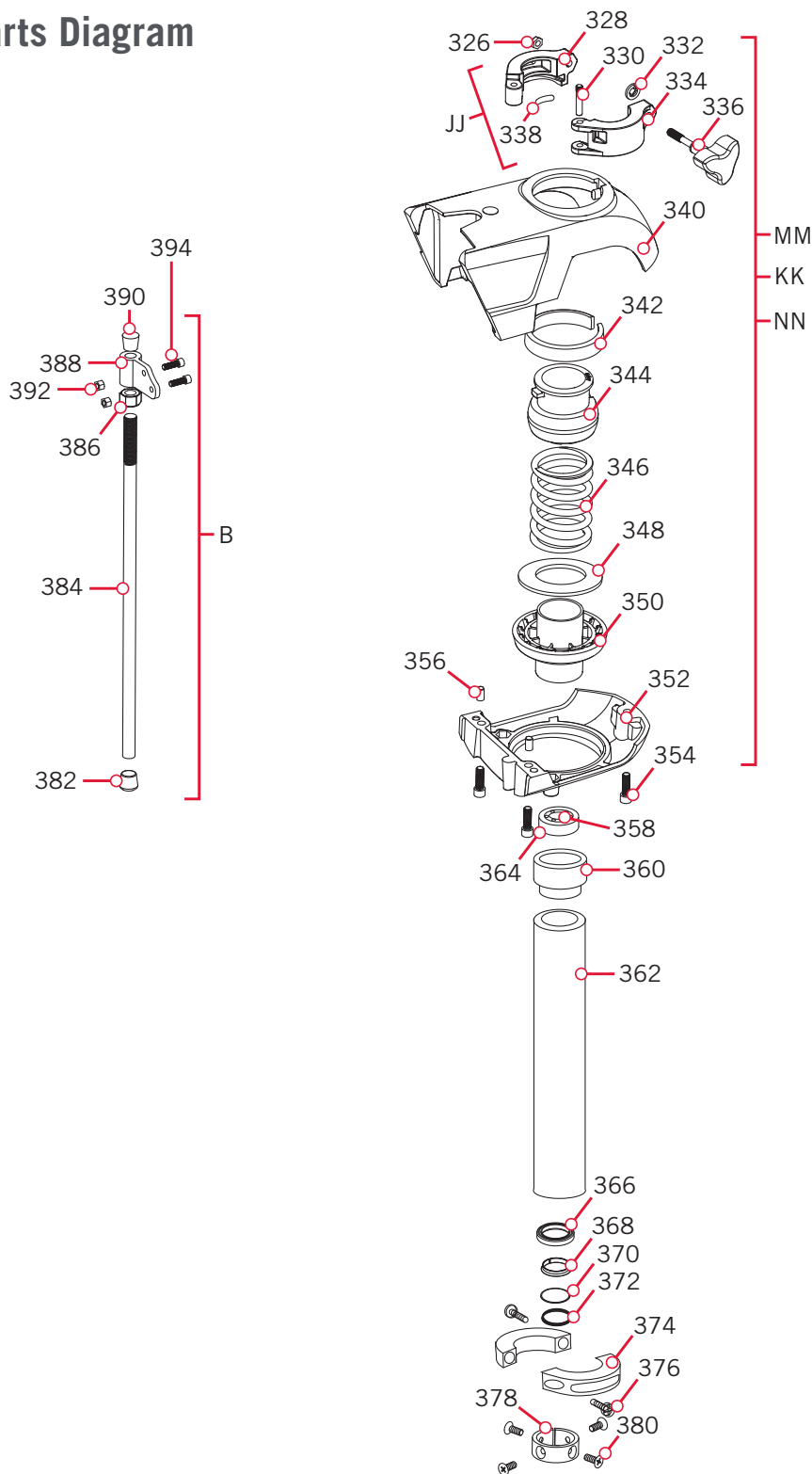
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PARTS DIAGRAM & PARTS LIST

FORTREX BOWGUARD

BowGuard Parts Diagram



PARTS DIAGRAM & PARTS LIST

» BowGuard Parts List

Assembly	Part #	Description	Notes	Quantity
JJ	2991550	CLAMP COLLAR ASSEMBLY		1
KK	2991753	BOWGUARD ASSEMBLY	*112 LB 52"*	1
MM	2991754	BOWGUARD ASSEMBLY	*80 LB 52"* *80 LB 45"*	1
NN	2991755	BOWGUARD ASSEMBLY	*112 LB 45"* *80 LB 62"*	1
B	2991925 □	BRACKET STABILIZER ASSEMBLY		1
Item	Part #	Description	Notes	Quantity
326	2073102	NUT, 1/4-28 SS		1
328	✖	COLLAR CLAMP, "A" SIDE	*SEE JJ*	1
330	2072621	PIN, KNURLED		1
332	2071718	WASHER #10 NYLON RETAINING		1
334	✖	COLLAR CLAMP, "B" SIDE	*SEE JJ*	1
336	2281505	KNOB - SOFT GRIP, FW		1
338	2075120	PAD, URETHANE, DEPTH COLLAR		1
340	2281952	BRACKET, TOP		1
342	2280001	BEARING, TOP BRACKET		1
344	2071541	SPRING SLEEVE, UPPER		1
346	2282700	SPRING, BOWGUARD 80		1
	2282704	SPRING, BOWGUARD 112		1
348	2281525	SPACER, SPRING 62" ONLY		1
350	2281520	SPRING SLEEVE, LOWER	*80 LB 52"* *80 LB 45"*	1
	2071535	SPRING SLEEVE, LOWER	*80 LB 62"* *112 LB 45"*	1
	2281540	SPRING SLEEVE, LOWER	*112 LB 52"*	1
352	2991728	BRACKET, BOTTOM	*80 LB 52"* *80 LB 45"*	1
	2991730	BRACKET, BOTTOM	*112 LB 52"* *112 LB 45"* *80 LB 62"*	1
354	2283413	SCREW 3/8-16 X 1 SHCS, RIE		3
356	2282612	PIN, SPRING 5/16" SS		2
358	2266000	BEARING, BALL, STEEL		1
360	2266260	BEARING RACE		1
362	2772085	TUBE W/ BEARING RACE 21"	*80 LB 45"* *112 LB 45"*	1
	2772086	TUBE W/BEARING RACE 24"	*80 LB 52"*	1
	2772092	TUBE W/BEARING RACE 24"*	112 LB 52"*	1
	2772088	TUBE W/BEARING RACE 28.5"	*80 LB 62"*	1
364	2267307	BUSHING OUTER TUBE		1
366	2266116	BEARING, CARTRIDGE		1
368	2266001	BEARING, SPLIT RING		1
370	2284600	O-RING		1

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PARTS DIAGRAM & PARTS LIST



Item	Part #	Description		Quantity
372	2281706	WASHER-NYLATRON		1
374	2261622	COLLAR HALF		2
376	2263453	SCREW, 1/4-20 X 1 SHCS		2
378	2071560	COLLAR, TUBE		1
380	2263457	SCREW-#8-32 X 3/8 PFH		4
382	2265100	BUMPER (CRUTCH TIP)		1
384	2263624	ANODIZED ALUMINUM 3/4" ROD, 22"		1
386	2263107	HEX NUT 3/4-10 NYLON		1
388	2281929	STABILIZER ARM BRACKET		1
390	2260221	VINYL CAP		1
392	2223100	NYLOCK STAINLESS STEEL NUT		2
394	2263422	SCREW - 5/16-18 X 1"		2

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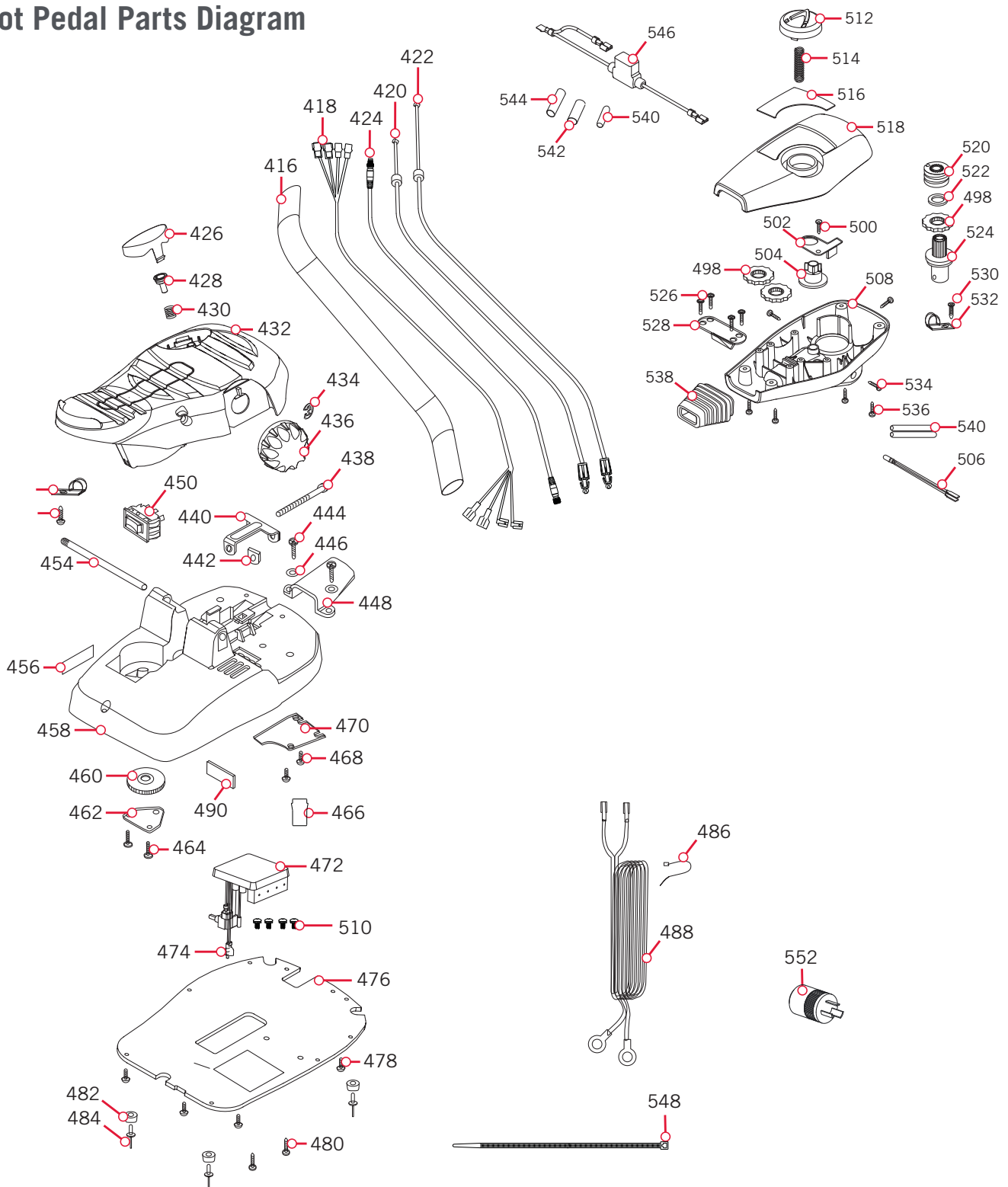
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FORTREX FOOT PEDAL

Foot Pedal Parts Diagram



PARTS DIAGRAM & PARTS LIST

Foot Pedal Parts List

Item	Part #	Description	Quantity
416	2265430	CABLE JACKET, 5'	1
418	2261220	WIRE HARNESS, MAX	1
420	2267505	CABLE ASSEMBLY, RIGHT, 5'	1
422	2267515	CABLE ASSEMBLY, LEFT, 5'	1
424	2211410 +	CABLE EXTENSION, US2 175"	*US2 ONLY* 1
426	2773705	PUSH BUTTON W/ MAGNET	1
428	2260810	CLIP, REED SENSOR	1
430	2302732	SPRING, PEDAL BUTTON	1
432	2994497	FOOT PEDAL W/ PLUG	1
434	2263000	E-RING, KNOB	1
436	2280115	KNOB, SPEED CONTROL VARS	1
438	2263466	SCREW 1/4-20 X 2	1
440	2263210	BRACKET, CONDUIT ADJUSTMENT	1
442	2263140	NYLOCK KEEPER	1
444	2372100	SCREW 8-18 X 5/8	2
446	2261714	WASHER, MAX FOOT PEDAL	2
448	2265115	BOOT, FOOT PEDAL	1
450	2254031	SWITCH, MOM/OFF/CON	1
452	2332103	SCREW 6-20 X 3/8	1
454	2260511	PIN, PIVOT, FOOT PEDAL	1
456	2266610	DECAL, ON/OFF SWITCH	1
458	2992104	FOOT PEDAL BASE	1
	2994556	ASSEMBLY, FT PED BASE/PIN	1
460	2262301	PULLY, FOOT PEDAL	1
462	2266401	COVER, PULLEY	1
464	2301310	SCREW 8-18 X 1/2	2
466	2266413	TENSION SCREW PLATE	1
468	2332103	SCREW 6-20 X 3/8	2
470	2266412	SWITCH PLATE, FOOT PEDAL	1
472	2264056	CONTROL BOARD MAX 24/36	*NON MDI* *NON US2* *US2* 1
474	2884019	SWITCH-REED, MAGNETIC W/CONNECTORS	1
476	2264511	BOTTOM PLATE, MAX	1
478	2372100	SCREW 8-18 X 5/8	5
480	2223455	SCREW 10-32 X 1/2 ZP	2

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Item	Part #	Description	Quantity
482	2265126	BUMPER PAD, FOOT PEDAL	4
484	2378600	POP RIVET, 3/16 X 3/4 ALUM	4
486	2256300	TIEWRAP	1
488	2261238	LEADWIRE	1
490	2365107	INSULATING PAD (2.3 X 3.2)	1
492	2263201	CLAMP WIRE HARNESS MICRO	1
498	2267800	GEAR, INDICATOR	3
500	2301310	SCREW 8-18 X 1/2	1
502	2261905	BRACKET, INDICATOR	1
504	2262221	INDICATOR, DRIVE	1
506	2264015	LIGHT, INDICATOR	1
508	2282500	CONTROL BOX	1
510	2263471	SCREW #6-32 X 1/4" SEMS ZPS	4
512	2990140	INDICATOR ASSEMBLY	1
514	2282730	SPRING, INDICATOR	1
516	2285621	DECAL-COVER 80#, FW	*80 LB*
	2285623	DECAL, COVER 112#, FW	*112 LB*
518	2280202	COVER, CONTROL BOX	1
520	2232360	PULLEY, CABLE DRUM	1
522	2261730	WASHER, NYLON	1
524	2996247	TOP BEARING, PINION DRIVE	1
526	2223430	SCREW 8 X 3/4	4
528	2261901	BRACKET, CONDUIT	1
530	2372100	8-18 X 5/8	1
532	2263201	CLAMP, WIRE HARNESS	1
534	2053414	8-32 X 1/2 TRI-LOBE	3
536	2372100	SCREW 8-18 X 2/8	4
538	2265110	BOOT, CONTROL BOX	1
540	2355410	SHRINK TUBE 3/8	3
542	2335400	SHRINK TUBE 1/2" OD X 2"	2
544	2375400	SHRINK TUBE 1/4" OD X 1 3/4"	1
546	2218200	FUSE HOLDER ASSEMBLY	1
548	9953310	TIE WRAP-8.5"	1
550	2996716 ▲	SKEETER PLUG/LEADWIRE ASSY	1
552	2266710	PLUG-MARINCO MALE 30AMP 125V	1

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