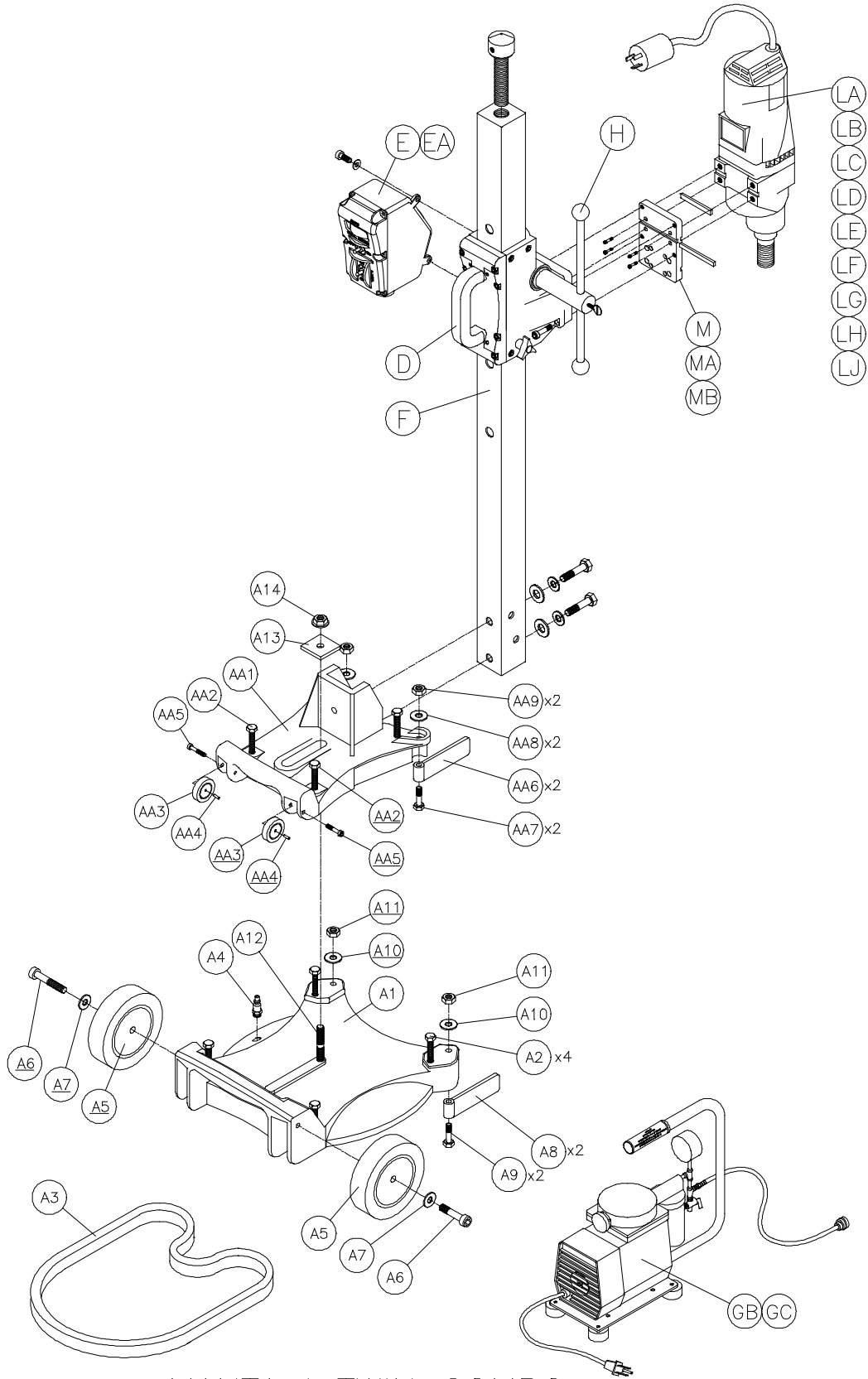


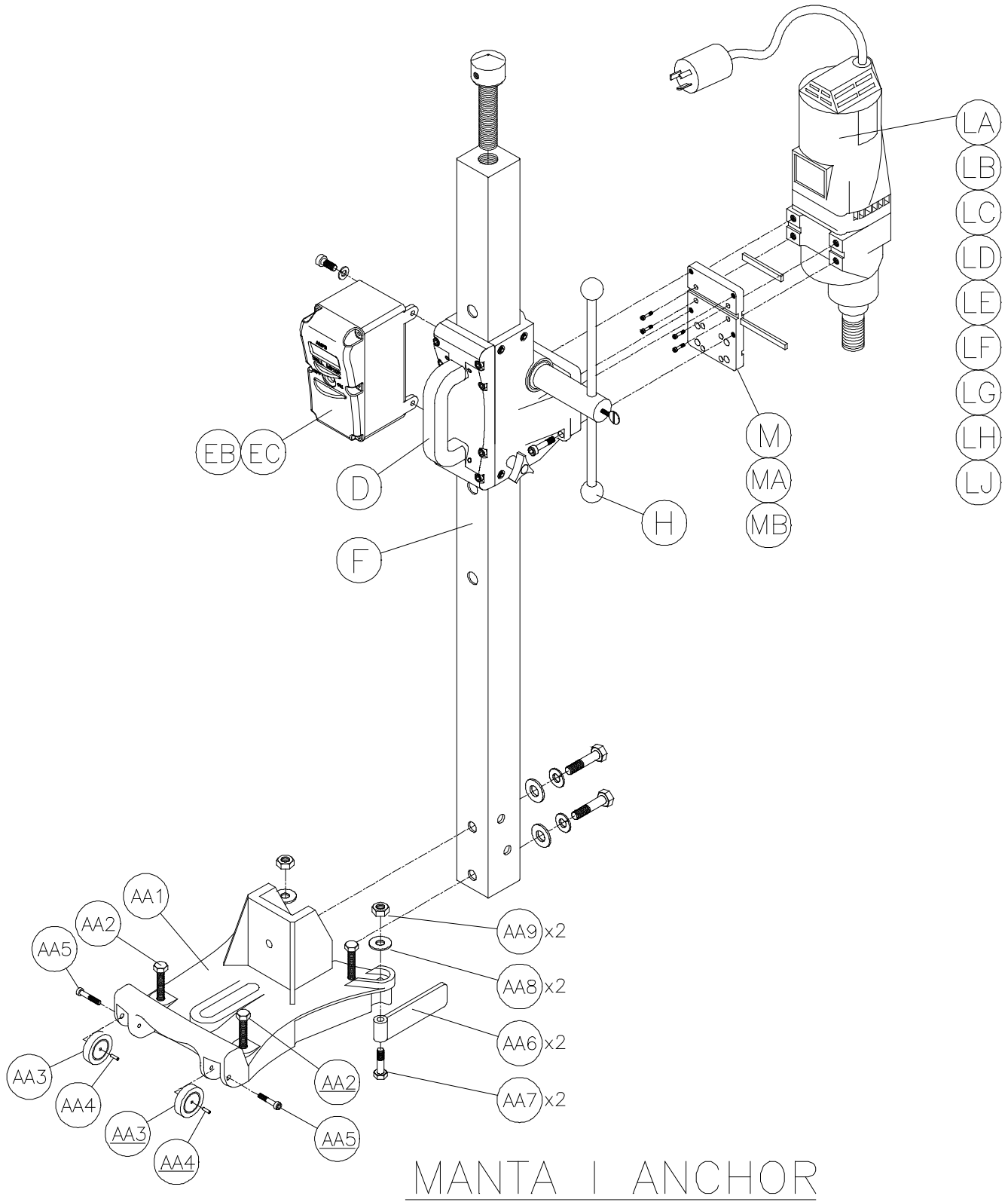
# MANTA I COMBO EXPLODED VIEW AND PARTS LIST



MANTA I TWIN COMBO

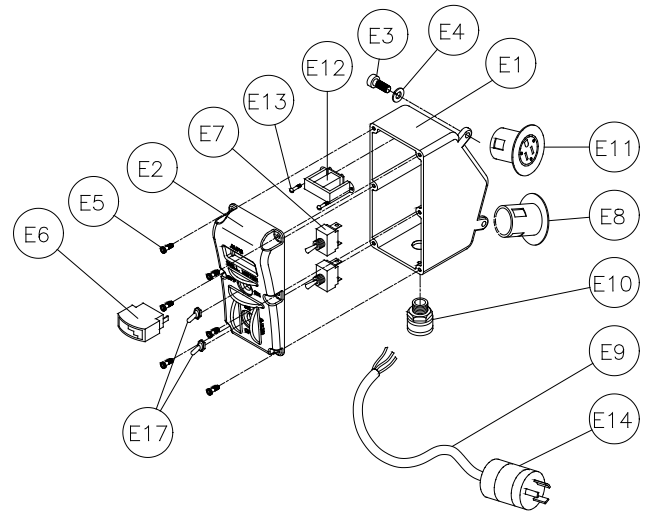
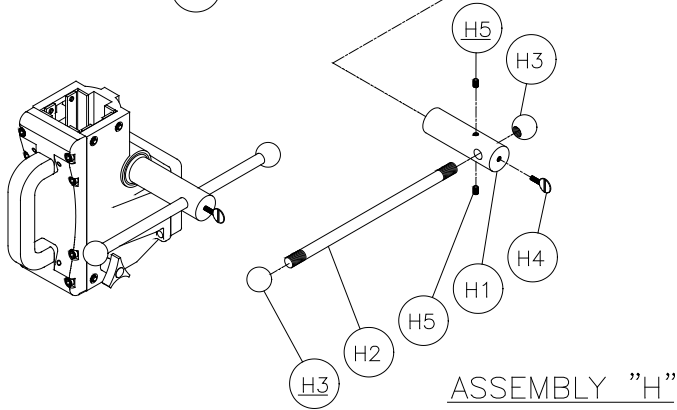
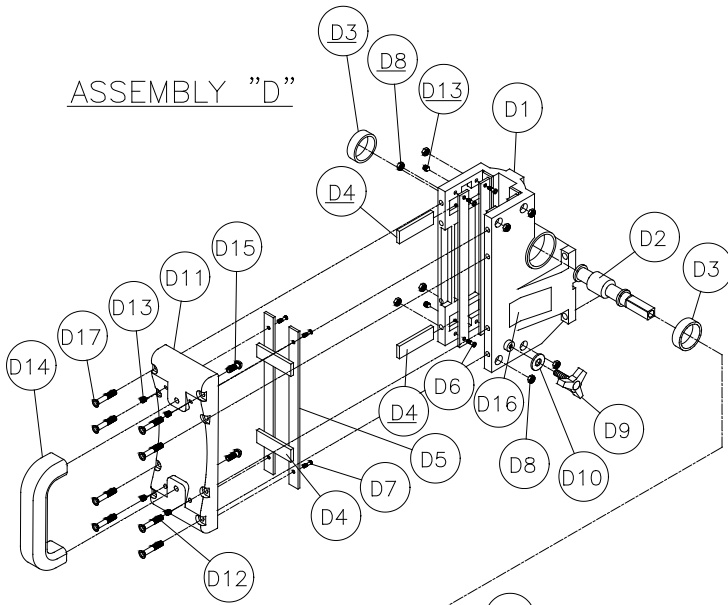
**EXPLODED VIEW**

**MANTA EXPLODED VIEW (cont...)**

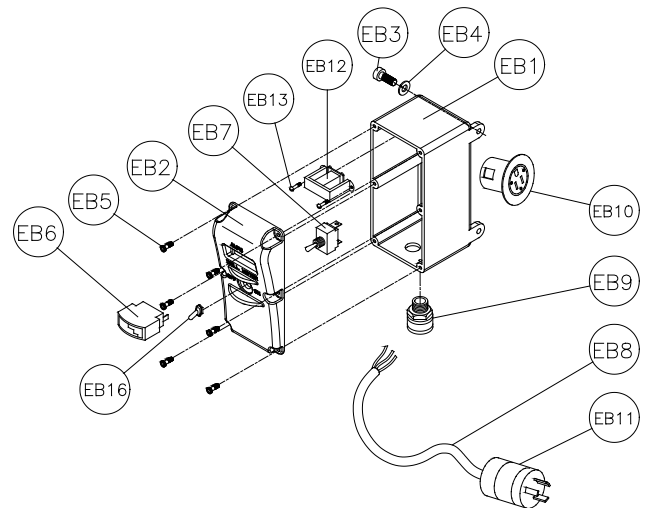


# MANTA EXPLODED VIEW (cont...)

ASSEMBLY "D"

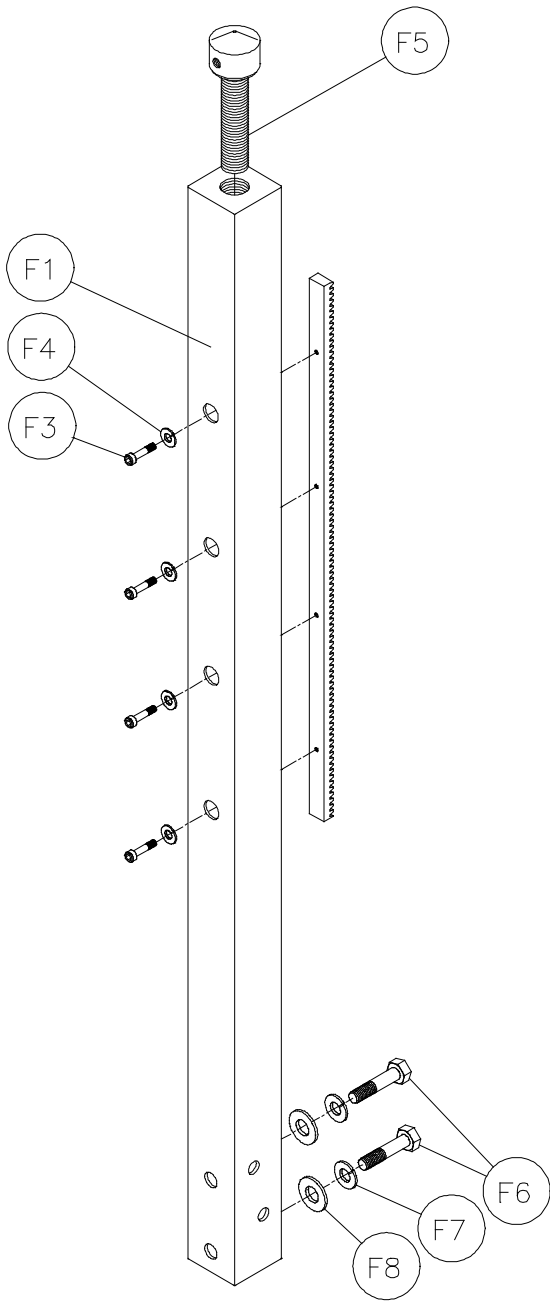


ASSEMBLY "E & EA"

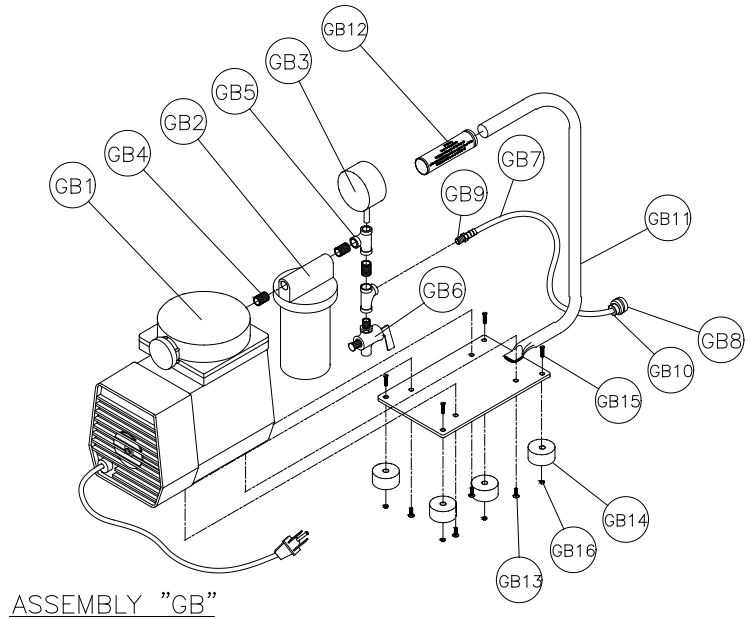


ASSEMBLY "EB & EC"

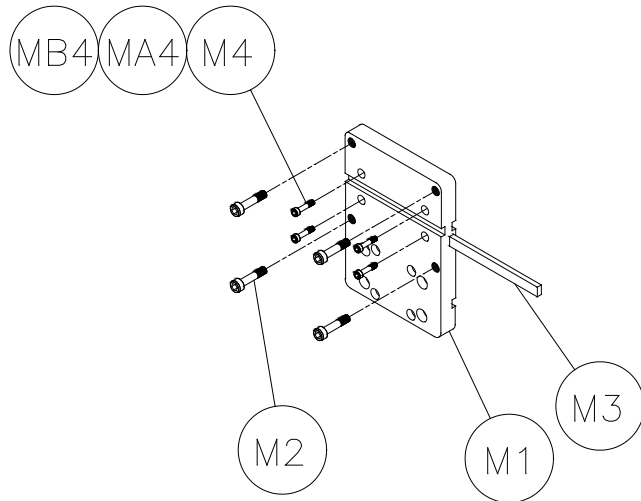
**MANTA EXPLODED VIEW (cont...)**



ASSEMBLY "F"



ASSEMBLY "GB"



**MANTA PARTS LIST****PARTS LIST:**

Item	Description	Qty	MK p/n
A	Assembly, M1 Base, Vacuum	1	n/a
A1	Base, M1 Vacuum	1	155753
A2	Screw, 1/2-13 x 3 1/2 Hex Hd. Cap, Full Thread	4	158284
A3	Gasket, Neoprene	1	154543
A4	Fitting, 1/4 MNPT x 3/8 Barb	1	154659
A5	Wheel 6"	2	157434
A6	Screw, 1/2 x 1 3/4 Socket Head Shoulder	2	158390
A7	Washer, 1/2 SAE Flat	2	150924
A8	Foot, Base Support	2	158389
A9	Screw, 3/8-16 x 2 1/4 Hex Head Cap	2	153529
A10	Washer, 3/8 SAE Flat	2	150923
A11	Nut, 3/8-16 Hex Nylok	2	152505
A12	Stud, 1/2-13 x 4 Clamping	1	155124
A13	Washer, Plate 1/4 x 2 x 2	1	154613
A14	Nut, 1/2-13 Flange	1	155125
AA	Assembly, M1 Base, Anchor	1	n/a
AA1	Base, M1 Anchor	1	155755
AA2	Screw, 1/2-13 x 3 1/2 Hex Hd. Cap, Full Thread	4	158284
AA3	Wheel, Dia. 1 5/8 x 7/8	2	158396
AA4	Sleeve Bearing	2	158458
AA5	Screw, 1/4-20 x 2.0, Socket Head Cap	2	158394
AA6	Foot, Base Support	2	158389
AA7	Screw, 3/8-16 x 2 1/4 Hex Head Cap	2	153529
AA8	Washer, 3/8 Flat	2	150923
AA9	Nut, 3/8-16 Hex Nylok	2	152505
AA10	Label, Manta Serial Tag (not shown)	1	157730
AA11	Label, Caution, Safety (not shown)	1	155576
AA12	Label, MK, Adhesive (not shown)	1	157914
D	Assembly, Carriage 2 1/2"	1	n/a
D1	Body, Carriage	1	155757
D2	Shaft, Gear, Short	1	158348
D3	Bearing	2	137711
D4	Plate, Adjustment	3	157317
D5	Slide, Carriage	8	157318
D6	Screw, 6-32 x 1/2 Flat Head Phillips Machine	8	154448
D7	Screw, 6-32 x 3/8 Flat Head Phillips Machine	8	157521
D8	Nut, 6-32 Nylok Hex	8	157519
D9	Knob, Davies 1/4-20 x 3/4	1	151681
D10	Washer, 1/4 SAE Flat	1	151915
D11	Back, Carriage	1	157438
D12	Screw, 1/4-20 X 1 Socket Head Cap	4	151049
D13	Screw, 1/4-20 x 5/16 Socket Head Set	6	154226
D14	Handle, Carriage	1	157440
D15	Screw, 1/4-20 X 3/4 Pan Head Phillips	2	157523
D16	Label, MK USA	2	154334
D17	Screw, 1/4-20 X 1 1/4 Socket Head Cap	4	159336
E	Assembly, Control Box, Fixed, Dual Switch 120V	1	158428
E1	Box, Control, Fixed	1	158274
E2	Cover, Control Box, Fixed, Dual Switch	1	158276
E3	Screw, 1/4-20 x 3/4 Socket Head Cap	2	152587
E4	Washer, 1/4 Split Lock	2	152591
E5	Screw, 10-24 x 5/8 Self Tapping (phillips)	6	153681
E6	Ammeter 120V	1	154489

## MANTA PARTS LIST (cont...)

E7	Switch, Toggle	2	154491
E8	Receptacle, Flanged 15A / 125V	1	154473
E9	Cord, Power	3'	154494
E10	Connector, Cord	1	151307
E11	Receptacle	1	157375
E12	Transformer	1	154490
E13	Screw, 6-32 x ½ Pan Head	2	153459
E14	Plug, Twist-lock	1	154556
E15	Wire Harness (not shown)	1	154715
E17	Cover, Toggle Switch	2	154301
EB	Assembly, Control Box, Single Switch 120V	1	158430
EB1	Box, Control, Single Switch	1	158385
EB2	Cover, Control Box, Single Switch	1	158387
EB3	Screw, ¼-20 x ¾ Socket Head Cap	2	152587
EB4	Washer, ¼ Split Lock	2	152591
EB5	Screw, 10-24 x 5/8	6	153681
EB6	Ammeter 120V	1	154489
EB7	Switch, 30A Toggle	1	154491
EB8	Cord, Power	3'	154494
EB9	Connector, Cord ½	1	151307
EB10	Receptacle, Flanged Twist-lock 20A / 125V	1	157375
EB11	Plug, Twist-lock	1	154556
EB12	Transformer, Current	1	154490
EB13	Screw, 6-32 x ½ Pan Head	2	153459
EB14	Wire Harness	1	154715
EB15	RTV Silicon Adhesive Sealant	.25 oz.	n/a
EB16	Cover, Toggle Switch	1	154301
F1	Assembly, Column		n/a
F1	Manta, Core Drill Column (w/Gear Rack)	1	158425-2
F3	Screw, 10-32 X ½ Socket Hd. Cap	4	157525
F4	Washer, #10 Split Lock	4	153684
F5	Screw M22 x 1.25 Jack	1	157445
F6	Screw, 1/2-13 X 3 ½ Hex Head Cap	2	154574
F7	Washer, 1/2 Split Lock	2	153524
F8	Washer, 1/2 SAE Flat	2	150924
GB	Assembly, Vacuum Pump w/ Handle 120V	1	154741
GB1	Pump, Vacuum 120v	1	154475
GB2	Filter, Water	1	154476
GB3	Gauge, Vacuum	1	154477
GB4	Nipple, 1/4 MNPT X Close	3	152598
GB5	Fitting, 1/4 FNPT X 1/4 FNPT X 1/4 FNPT Tee	2	154497
GB6	Valve, 1/4" Pettcock	1	154488
GB7	Hose, 3/8 I.D. Air	6'	154656
GB8	Coupler Body, 1/4 FNPT	1	154617
GB9	Fitting, 1/4 MNPT X 3/8 BARB	2	154659
GB10	Ferrell, Crimp	2	154660
GB11	Base, Vacuum Pump	1	154495
GB12	Handgrip, 3/4 X 4 9/16 Black	1	139949
GB13	Screw, 10-32 X 1/2 Phillips Pan Head Cap	4	151052
GB14	Foot, Rubber	4	154496
GB15	Screw, 1/4-20 X 3/4 Flat Head Phillips Cap	4	154657
GB16	Nut, 1/4-20 Hex	4	151893
H	Assembly, Handle, Slip	1	n/a
H1	Hub, Slip Handle	1	157321

## MANTA PARTS LIST(cont...)

H2	Spoke, Slip Handle	1	157322
H3	Knob, Ball ½-20 Female	2	154486
H4	Screw, 1/4-20 X ¾ Thumb	1	157432
H5	Screw, ¼-20 X 1/4 Socket Head Set	2	157528
K	Assembly, Accessory Pack (not shown)	1	n/a
K1	Carton, Accessory Pack	1	157323
K2	Owner's Manual, MK-Manta 1 Core Drill	1	161115
K3	Card, Warranty	1	155859
K4	MK Sell Sheet	1	155333
LA	Assembly, Motor, Milwaukee 4094	1	n/a
LA1	Motor, Milwaukee 4094 - Shear Pin, 20A/120V	1	154633
LB	Assembly, Motor, Milwaukee 4096	1	N/a
LB1	Motor, Milwaukee 4096 - Slip Clutch, 20A/120V	1	155540
LD	Assembly, Motor, Milwaukee 4004	1	n/a
LD1	Motor, Milwaukee 4004 - Slip Clutch, 20A/120V	1	159263
LE	Assembly, Motor, Milwaukee 4097-20	1	n/a
LE1	Motor, Milwaukee 4097-20 - Slip Clutch, 15A/120V	1	159264
LF	Assembly, Motor, Milwaukee 4090	1	n/a
LF1	Motor, Milwaukee 4090 - Shear Pin, 15A/120V	1	155976
LJ	Assembly, Motor, Eibenstock EBM 300/3 P	1	N/a
LJ1	Motor, Eibenstock EBM 300/3/P - Slip Clutch, 20A/120V	1	158754
M	Assembly, ¾" Motor Mount Plate, Hybrid, Milwaukee	1	n/a
M1	Casting, Motor Mount Plate, Hybrid	1	158412
M2	Screw, 3/8-16 x 1 ¼, Socket Hd. Cap	4	157529
M3	Key, 3/8 x 3/8 x 5	1	157520
M4	Screw, ¼-20 x 1.0, Socket Hd. Cap	4	151049
MA	Assembly, ¾" Motor Mount Plate, Hybrid, CB748	1	n/a
MA1	Casting, Motor Mount Plate, Hybrid	1	158412
MA2	Screw, 3/8-16 x 1 ¼, Socket Hd. Cap	4	157529
MA3	Key, 3/8 x 3/8 x 5	1	157520
MA4	Screw, ¼-28 x 1.5", Socket Hd. Cap	4	154684
MB	Assembly, ¾" Motor Mount Plate, Hybrid, Ebinstock	1	n/a
MB1	Casting, Motor Mount Plate, Hybrid	1	158412
MB2	Screw, 3/8-16 x 1 ¼, Socket Hd. Cap	4	157529
MB3	Key, 3/8 x 3/8 x 5	1	157520
MB4	Screw, M8 x 1.25 x 25mm, Socket Hd. Cap	4	157530
	Optional Accessories:		
N	Assembly, 2", Spacer Block Milwaukee	1	n/a
N	Spacer Block, 2" Milwaukee	1	154721
N2	Screw, 3/8-16 x 3 ¼, Socket Hd. Cap	4	161118
N3	Key, 3/8 x 3/8 x 5	1	157520