



Parts Manual

Bulldog 20" Walk-Behind Traction Drive Cylindrical

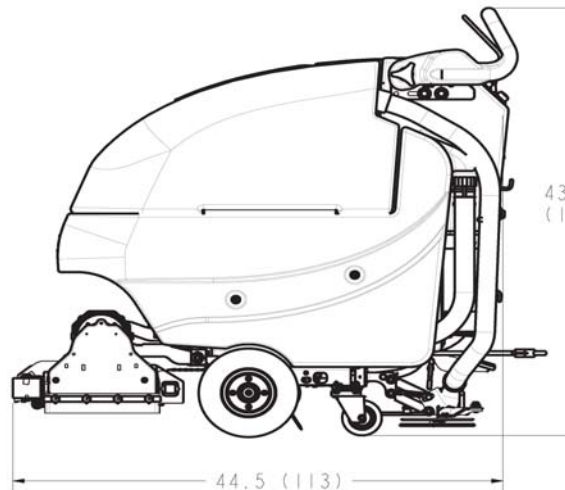
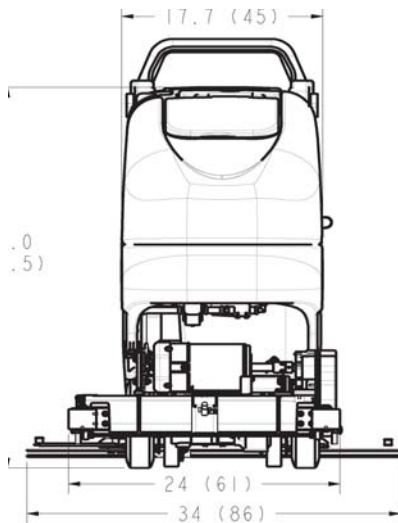
Technical Specifications

Model *Bulldog 20" Traction Drive Cylindrical*

Model No. E20CQP-FC / E20CQPG-FC



Current (Max)	40 amps
Battery Capacity (Lead Acid)	140Ah @20 hr
Battery Capacity (Gel)	95Ah @20 hr
Sound Level	69 dBA
Cleaning path width	20 in (51 cm)
Squeegee width	34 in (86 cm)
Productivity (Traction Drive)	27,280 ft ² /hr (2,534 m ²)
Working speed (Traction Drive)	3.1 mph (5 km per hr)
Rated voltage	24 volts
Vacuum flow	65 cfm (110 m ³ /hr)
Vacuum waterlift	45 inches (112mbar)
Vacuum power	.60 HP (450 W)
Brush type	Cylindrical
Brush motor(s) power	3/4 HP (560W)
Number of brushes	2
Brush RPM	600 RPM
Solution capacity	12 Gal (45 liters)
Recovery capacity	13 Gal (49 liters)
Working Grade	2%
Weight with batteries	370 lbs (168 kg)
Weight without batteries	235 lbs (107 kg)
Dimensions (LxWxH)	44.5 x 24.0 x 38.0 (113.0 x 61.0 x 96.5 cm)
Drive Motor Power	1/5 HP (150W)



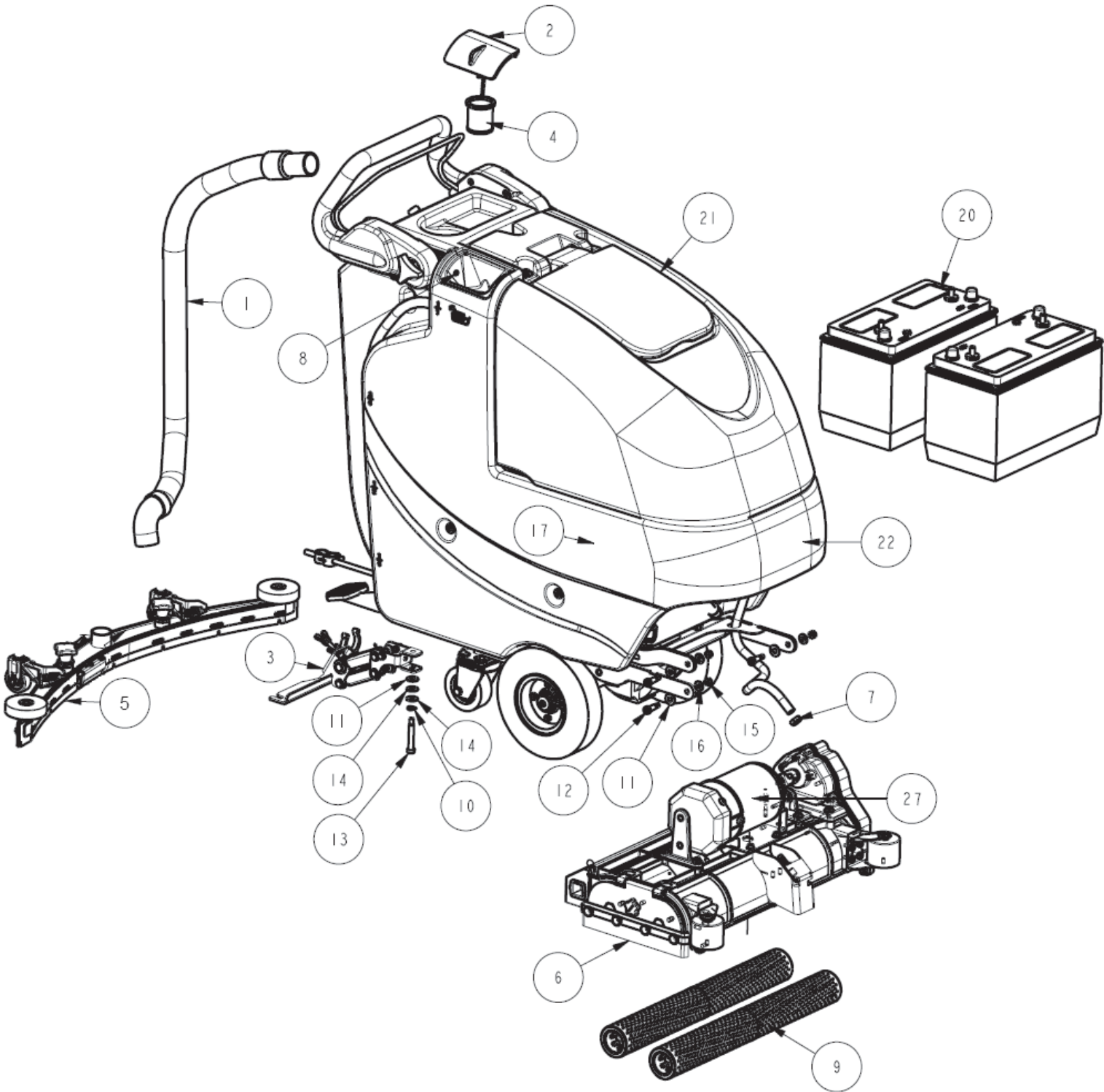
For Safety When Servicing or Maintaining Machine

- Stop on level surface.
- Disconnect the power to the machine by pulling the red Battery Connector located under the recovery tank near the batteries.
- Avoid moving parts. Do not wear loose jackets, shirts, or sleeves when working on machine.
- Avoid contact with battery acid. Battery acid can cause burns. When working on or around batteries, wear protective clothing and safety glasses. Remove metal jewelry. Do not lay tools or metal objects on top of batteries.
- Do not clean machine with a pressure washer.
- Authorized personnel must perform repairs and maintenance. Use Manufacturer supplied replacement parts.



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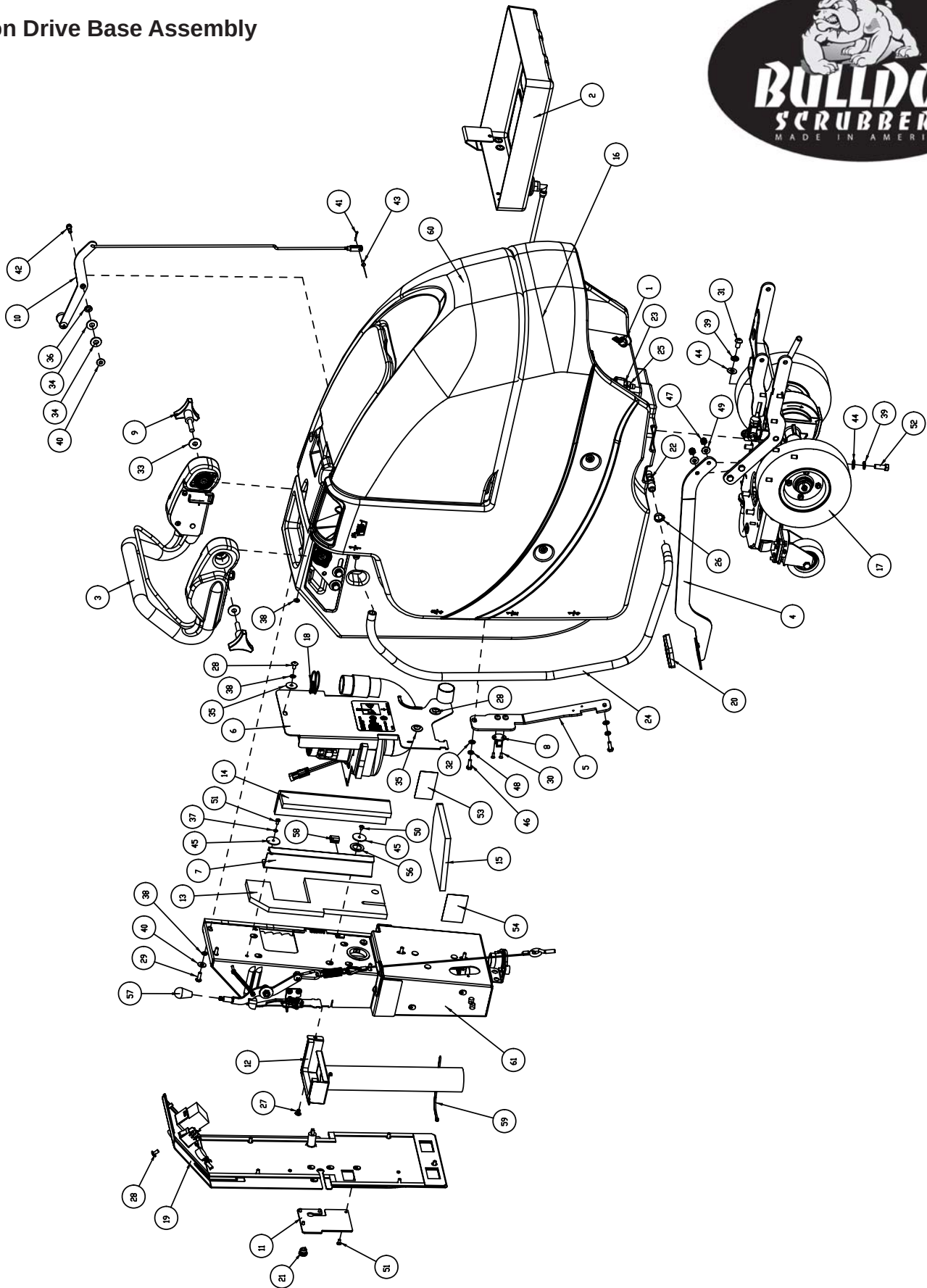
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BILL OF MATERIAL - E20CQP-FC / E20CQPG-FC			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172010	1	HOSE, CLEAR VAC W/ 45 CUFF
2	172018	1	SOLUTION TANK LID ASSY
3	172150	1	SQUEEGEE LIFT MECH ASSY
4	172159	1	FILTER, FILL PORT
5	172230	1	SQUEEGEE, 34" (860)
6	172325	1	CYL DECK ASSY
7	450076	1	CLAMP-CRIMP 185R SS
8	711118	1	SCR-ST-A 10 X .75 SS
9	172320-2	1	20" CYLINDRICAL POLY BRUSH
10	711523	1	WSR-WAVE .37X .68 X .08
11	711569	4	WSR-FLT .390 X .880 X .062 NYL
12	712081	3	SHOULDER BLT 5/16-18 X 3/8 X .75
13	712143	1	BLT-SHLD 3/8 X 2.0, 5/16-18
14	712301	2	WSR-FLAT .37 X .87 X .06
15	712683	3	NUT, HEX 5/16-18 NYLOC SS
16	712772	3	WSR-FLAT .344 x .75 x .06 SS
17	715920FC3	2	DECAL (NOT SHOWN)
18	740164-1	1	JUMPER CABLE ASSY, RED 4G 12"
19	747649	1	CABLE ASSY, BATTERY E17
20	956140	2	BATTERY, 12V 140AH
21	REF ONLY	1	CYL BASE ASSY-120V CHARGER
22	715914FC	1	DECAL (NOT SHOWN)
23	172008	1	SOLUTION TANK LID
24	172123	1	CHAIN, BEADEDSS W / EYELETS
25	712145	1	SCR-PAN HD HI/LO 6-19 X .37 SS
26	828062	1	CABLE TIE LARGE
27	715938	1	DECAL, FCE CONTACT INFO

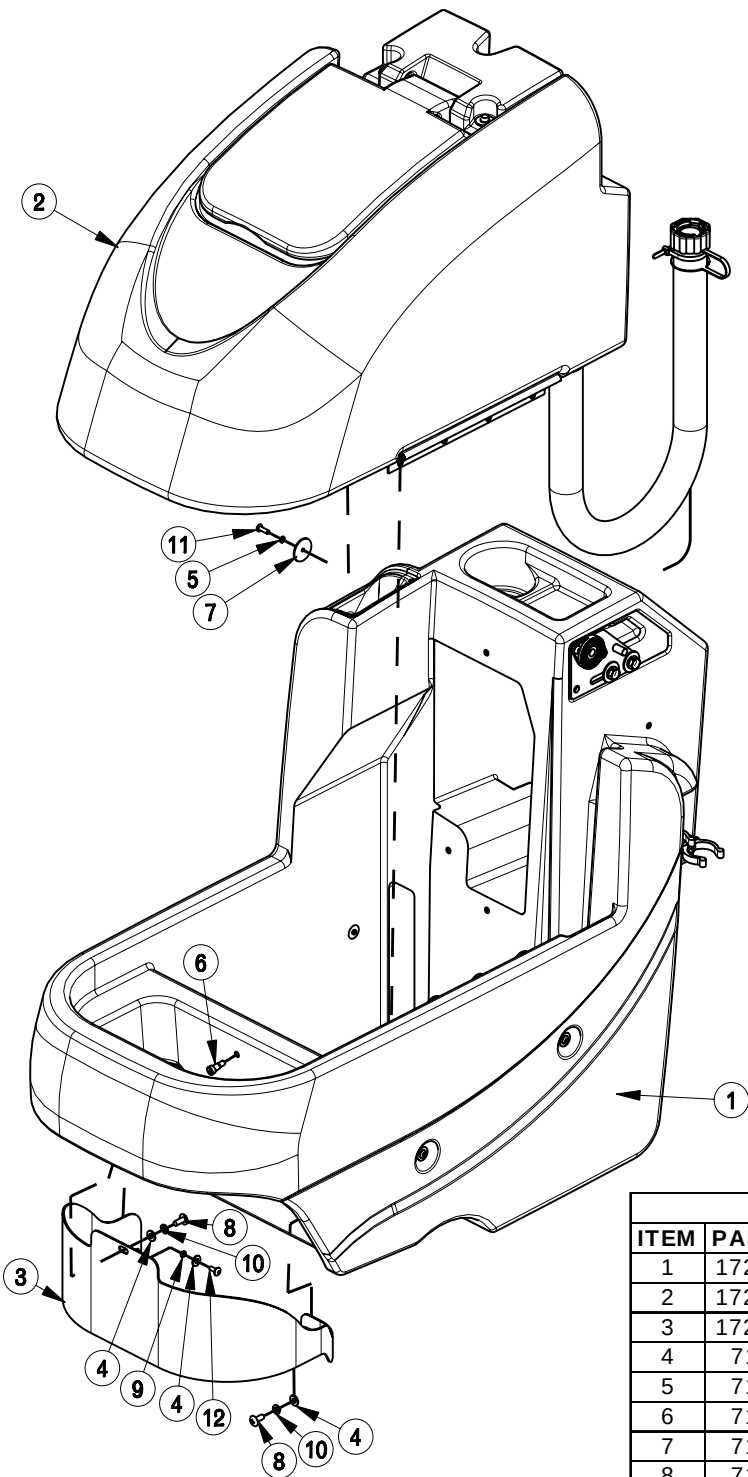
OPTIONAL BRUSHES		
ITEM	PART NO.	DESCRIPTION
9.1	172320-1	BRUSH, 20" NYLON
9.2	172320-2	BRUSH, 20" POLY
9.3	172320-3	BRUSH, 20" GRIT



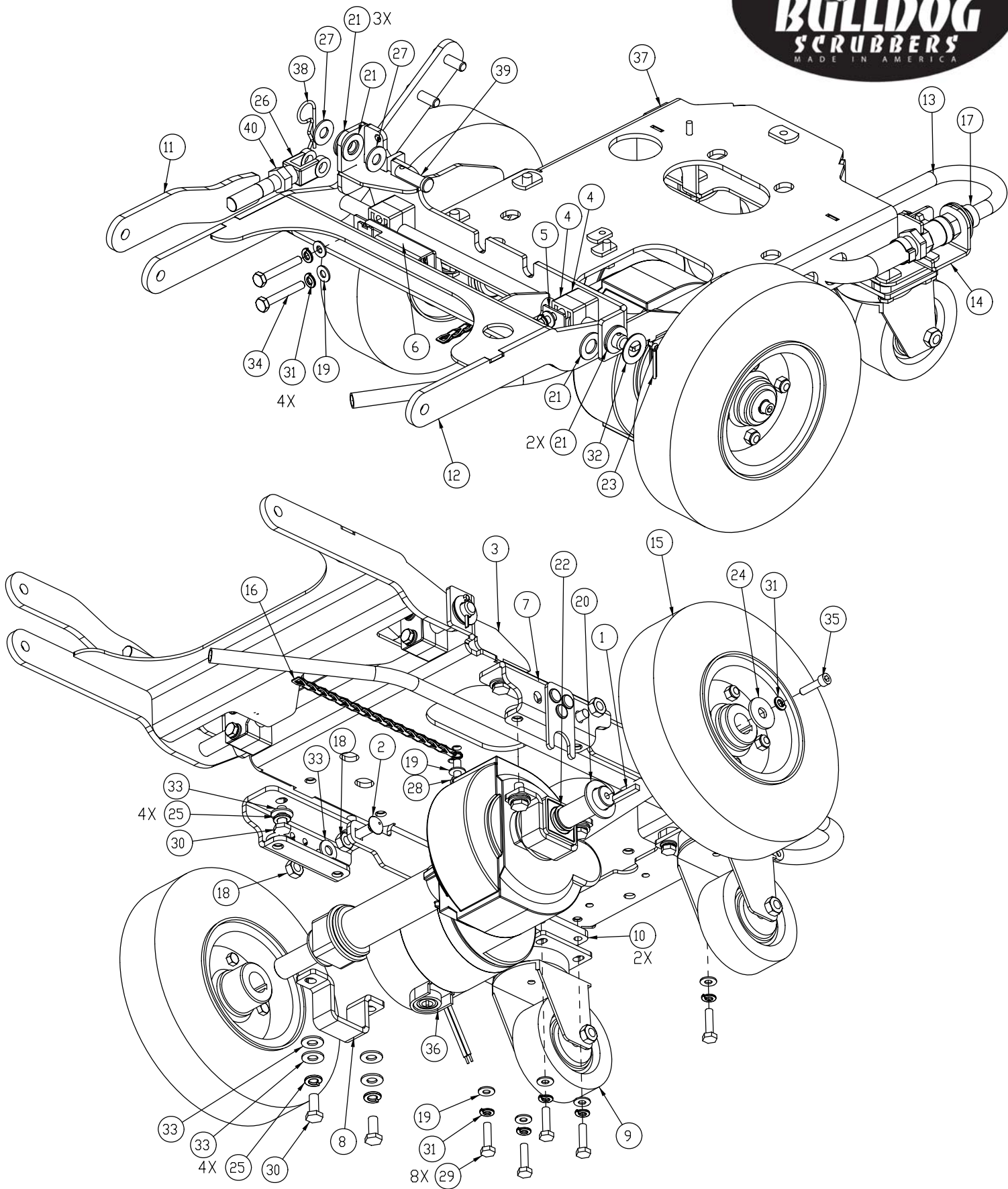
Traction Drive Base Assembly BOM



BILL OF MATERIAL				BILL OF MATERIAL CONT'D			
ITEM	PART NO.	REQ'D	DESCRIPTION	ITEM	PART NO.	REQ'D	DESCRIPTION
1	82-54-A	1	CLAMP, MS21333-114	32	711504	2	WSR-FLAT 1/4 ID SS
2	172012	1	BATTERY TRAY ASSY	33	711507	2	WSR-FLAT .37 X 1.12 X .06
3	REF ONLY	1	TD HANDLE ASSY	34	711508	2	WSR-FLAT .44X 1.0X.08
4	172032	1	LIFT PEDAL WMT	35	711519	3	WSR- FLAT .25 X 1.01 X .06
5	172036	1	BKT, PEDAL STOP	36	711523	1	WSR-WAVE .37X .68 X .08
6	172050	1	VAC MOTOR ASSY	37	711543	1	WSR-HELICAL #10
7	172055	1	BKT, VAC AREA INSIDE COVER	38	711544	9	WSR-HELICAL 1/4
8	172065	1	CLIP, FOR 1/2" ID HOSE	39	711546	6	WSR-HELICAL 3/8
9	172085	2	KNOB, 3/8-16 STUD, 3 LOBE	40	711575	6	WSR-FLT .31x.75x..06ST
10	172112	1	SOL CONTROL ASSY	41	711803	1	COTTER PIN
11	172129	1	BKT, PWR CORD MOUNT	42	712041	1	BLT- SHLDR .31 X .375 X 1/4-20
12	172179	1	CHARGER INLET ASSEMBLY	43	712117	1	CLEVIS PIN 3/16
13	172184	1	FOAM COVER, REAR 1	44	712301	6	WSR-FLAT .37 X .87 X .06
14	172185	1	FOAM COVER, REAR 2	45	712312	2	WSR-FLAT .187 X 1.25
15	172187	1	FOAM COVER, FRONT 2	46	712562	2	BOLT-HH 1/4-20X3/4 SS
16	172305	1	PUMP ASM CYL	47	712683	2	NUT, HEX 5/16-18 NYLOC SS
17	REF ONLY	1	CHASSIS ASM CYL	48	712758	2	WSR-HELICAL 1/4 SS
18	172329	1	CLAMP-HOSE 1.56" 102122 MURRAY	49	712772	2	WSR-FLAT .344 x .75 x .06 SS
19	172330FC	1	CYL ELEC BOX COVER ASSY	50	712800	1	SCR-MC 10-24 X .25 ST PL
20	210142	1	PEDAL PAD	51	712810	5	SCR-MC 10-24 X .37 ST PL
21	293080	1	STRAIN RELIEF-HEYCO 1207	52	713042	4	BLT-HH 3/8-16 X 1 #5
22	342440	1	FITTING, TEE 3/4MPT 1/2BARB	53	715029	1	DECAL-NAME PLATE SERIAL
23	342441	1	FITTING, MGHT X 3/8HB PP	54	715047	1	DECAL-CLEAR LAMINATE 2X3
24	430156	1	HOSE, 1/2 X 42 CLEAR	55	715950	1	LABEL, PATENT NUMBERS
25	450076	1	CLAMP-CRIMP 185R SS	56	717025	1	WSR-FLAT 13/16ID X 1.25 X .08
26	450093	1	CRIMP CLAMP 3/4" STEPLESS	57	760592	1	KNOB, OVAL TAPERED
27	710177	1	SCR-MC 1/4-20 X .37 ST PL	58	809443	1	CLIP-WIRE & CORD
28	710178	10	SCR-MC 1/4-20 X .50 TRUSS STPL	59	828062	1	CABLE TIE LARGE
29	710380	5	SCR-MC RD HD 1/4-20 X .75 STL PL	60	REF ONLY	1	BASE ASSY
30	710530	2	SCR-MC FL HD 8-32 X .50 BRS	61	172075C	1	CYL ELEC BOX ASSY
31	710985	2	SCR-SC 3/8-16 X .62 ST PL				

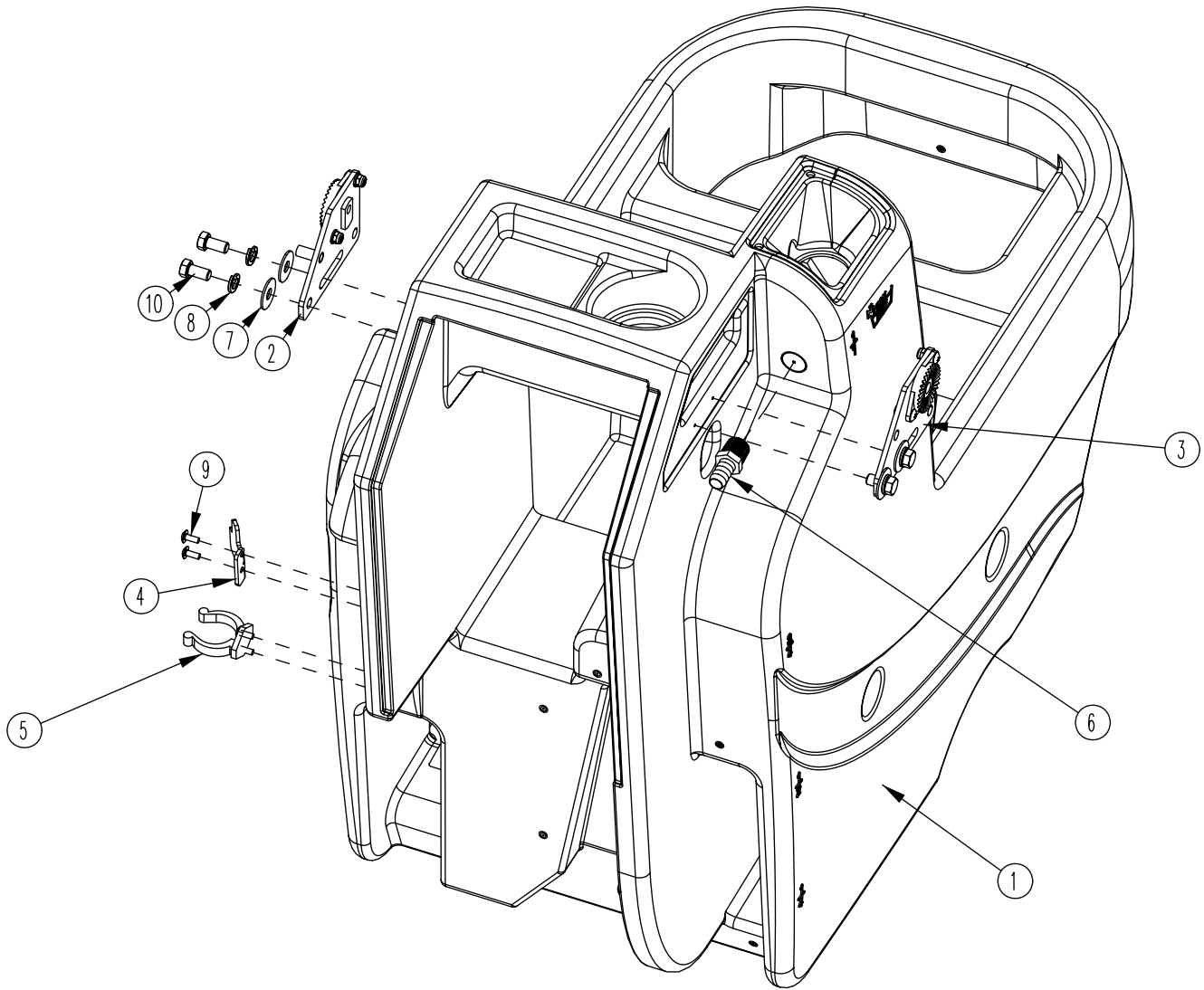


BILL OF MATERIAL - 172001FC			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172013FC	1	SOL TANK ASSY
2	172014FC	1	REC TANK ASSY
3	172144FC	1	PANEL, FRONT
4	711504	3	WSR-FLAT 1/4 ID SS
5	711543	4	WSR-HELICAL #10
6	712041	1	BLT- SHLDR 1/4-20 X .44 X .37
7	712312	4	WSR-FLAT .187 X 1.25
8	712565	2	SCR-MC 1/4-20X.63 SS TR HD
9	712757	1	WSR - HELICAL #10 SS
10	712758	2	WSR-HELICAL 1/4 SS
11	712812	4	SCR-MC 10-24 X .62 PPH ST PL
12	712822	1	SCR-MC TR HD 10-24 X .50 SS
13	172407	1	PLUG, FRONT PANEL (NOT SHOWN)
14	172408	1	PLUG, FRONT PANEL (NOT SHOWN)

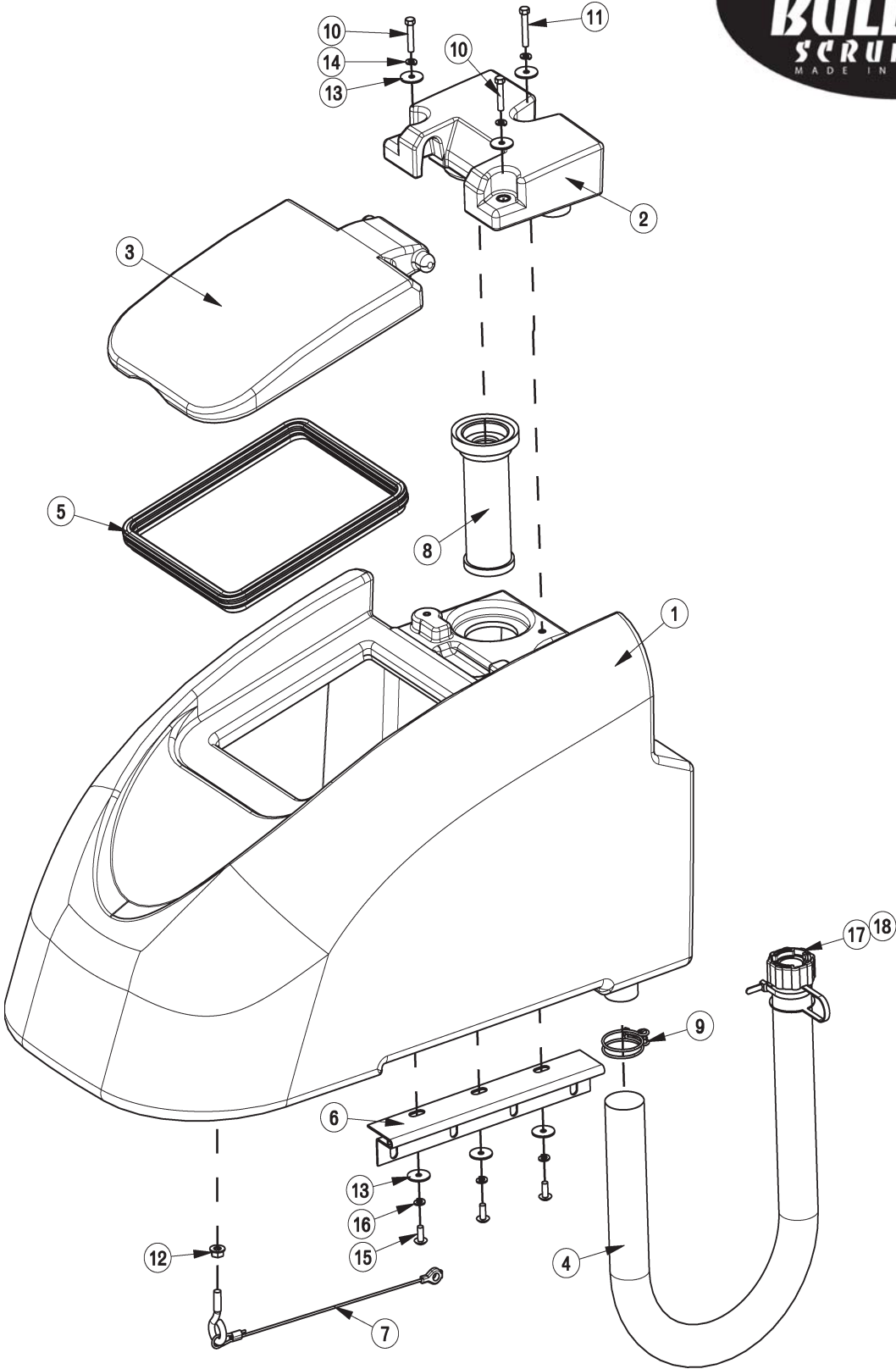




BILL OF MATERIAL - 172315			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	61-65-A	2	KEY, 3/16 X 1-3/4"
2	70-516-16	2	BLT-CAR 5/16-18 X 1.00 ZP
3	172020	1	MAIN FRAME WMT
4	172038	4	BEARING BLOCK
5	172039	1	BEARING BLOCK PLATE
6	172110	1	DECK SWITCH ASSY
7	172113	2	BKT, TRANSAXLE MOUNT BASE
8	172114	2	BKT, TRANSAXLE MOUNT
9	172167	2	CASTER, 3-1/2 POLYURETHANE
10	172192	2	PLATE, 1/4" SPACER
11	172204	1	UPPER LIFT ARM WMT
12	172205	1	DECK LIFT WMT
13	241097	1	HOSE-WIRE REINF 3/8 X 31"
14	172264	1	SOLUTION VALVE ASSY
15	200172-2	2	WHEEL, 8.5" FOAM FILL
16	281200	1	DRAG CHAIN ASSY, FRAME
17	450076	1	CLAMP-CRIMP 185R SS
18	711383	4	NUT-HEX CLR LOC 5/16-18
19	711504	13	WSR-FLAT 1/4 ID SS
20	711512	2	WSR-FLAT .75X1.37X.08
21	711592	7	WSR-FLAT .506 X .9 X .064 NYL
22	711715	2	RETAINING RING EXT .75
23	711809	1	COTTER PIN, 1/8 X 1.0
24	711855	2	WSR-FLT .37X1.12X.10 STL Z HARD
25	712140	8	WSR-HELICAL 5/16 SS
26	712265	1	CLEVIS-YOKE, 1/2-20 W/ .375 PIN
27	712301	2	WSR-FLAT .37 X .87 X .06
28	712562	1	BOLT-HH 1/4-20X3/4 SS
29	712564	8	BOLT-HH 1/4-20X1.00 SS
30	712575	8	BLT-HH 5/16-18 X .75 SS
31	712758	14	WSR-HELICAL 1/4 SS
32	712760	1	WSR-FLAT .56X1.06X.04 SS
33	712772	14	WSR-FLAT .344 x .75 x .06 SS
34	713006	4	BLT-HH 1/4-20 X 1 3/4 #5
35	717026	2	SCR-SC SHCS M6X1.0 X 25 STL Z
36	747606	1	TRANSAXLE, ES1720 24V
37	809444	1	CLIP-CORD
38	833374	1	PIN, HAIRPIN COTTER 3/8
39	833833	1	PIN-CLEVIS 3/8 X 1.25
40	3400449	1	NUT-HEX JAM 1/2-20 ZP



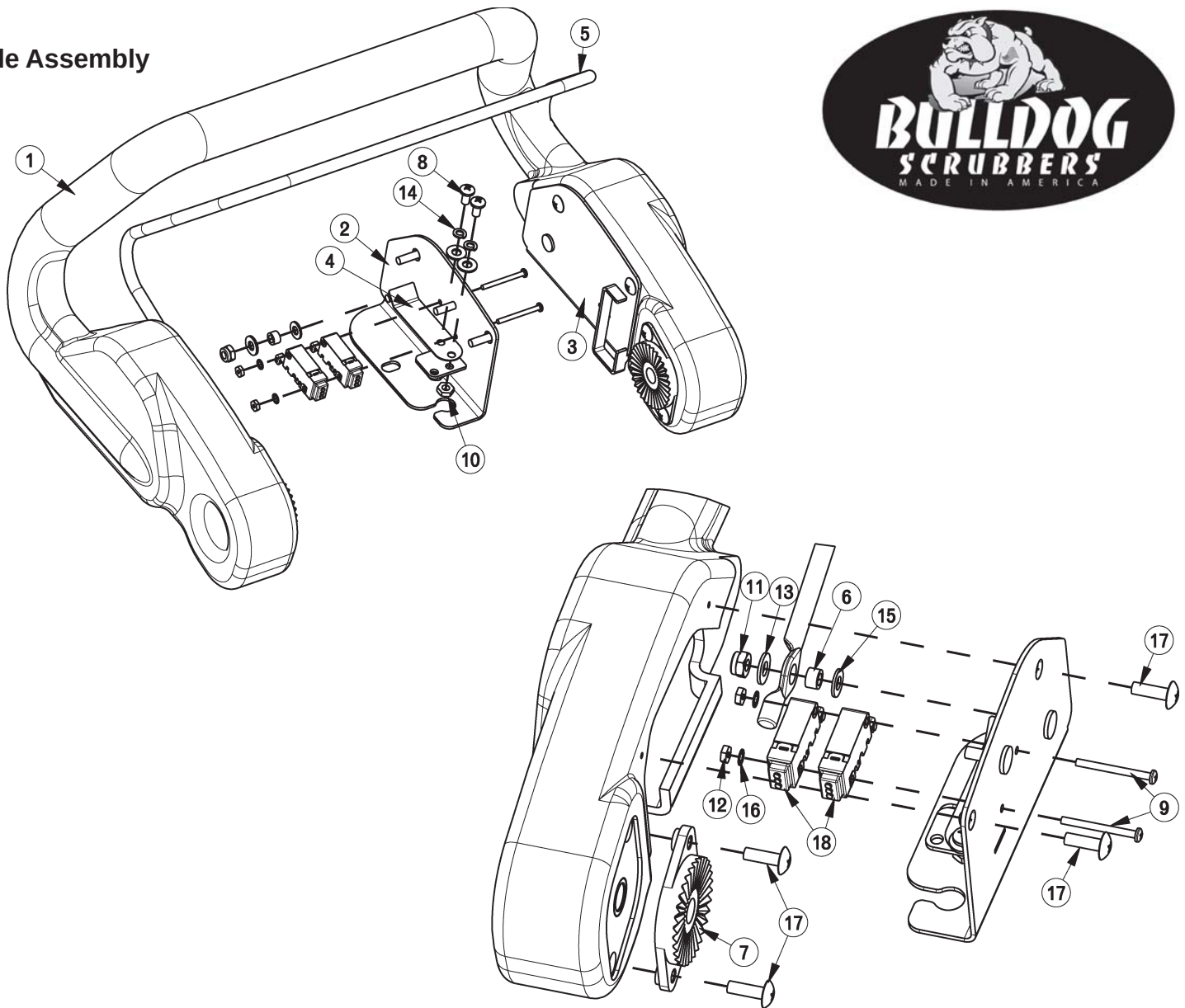
BILL OF MATERIAL - 172013FC			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172003FC	1	SOLUTION TANK
2	172080	1	HANDLE MOUNT ASSY, LEFT
3	172082	1	HANDLE MOUNT ASSY, RIGHT
4	172341	1	HOOK, DRAIN HOSE WITH TWIST VALVE
5	260579	1	TOOL CLIP, 1.5" HOSE
6	342438	1	FITTING, 1/2 MPT 1/2 HB BRASS
7	711507	4	WSR-FLAT .37 X 1.12 X .06
8	711546	4	WSR-HELICAL 3/8
9	712822	4	SCR-MC TR HD 10-24 X .50 SS
10	713041	4	BLT-HH 3/8-16 X 3/4 #5





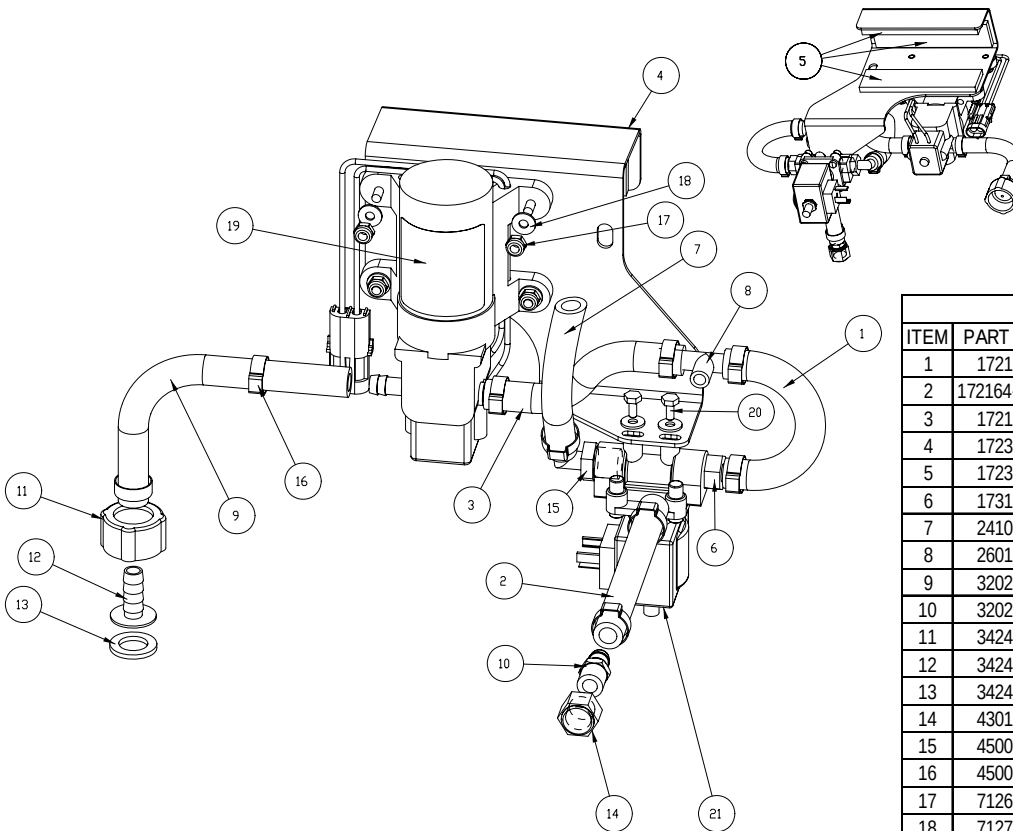
BILL OF MATERIAL - 172014FC			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172004FC	1	RECOVERY TANK
2	172005FC	1	VACUUM MANIFOLD
3	172007FC	1	LID
4	97090096	1	DRAIN HOSE ASSY, RECOVERY TANK
5	172017	1	GASKET, LID
6	172049	1	HINGE, RECOVERY TANK
7	172067	1	REC TANK CABLE ASSY 11.625
8	172132	1	SCREENED FLOAT
9	172329	1	CLAMP-HOSE 1.56" 102122 MURRAY
10	711210	2	BLT-HH 1/4-20 X 1.25 STPL
11	711212	1	BLT-HH 1/4-20 X 1.50 STPL
12	711379	1	NUT, FLANGED WIZZ 5/16-18
13	711519	6	WSR- FLAT .25 X 1.01 X .06
14	711544	3	WSR-HELICAL 1/4
15	712565	3	SCR-MC 1/4-20X.63 SS TR HD
16	712758	3	WSR-HELICAL 1/4 SS
17	15282072	1	REPLACEMENT O-RING (NOT SHOWN)
18	90304528	1	REPLACEMENT CAP

Handle Assembly



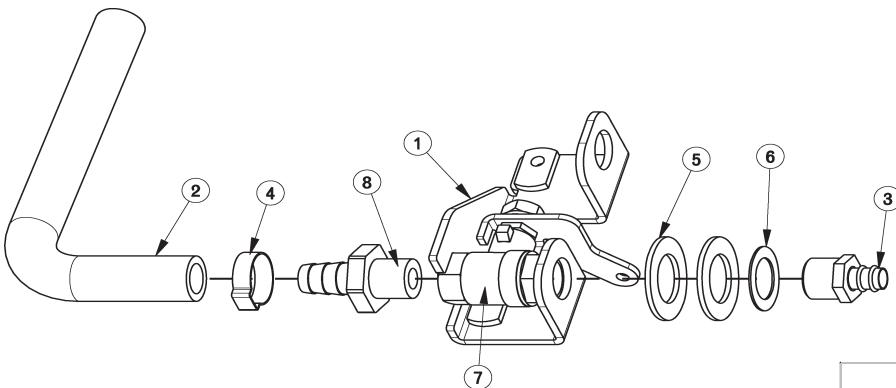
BILL OF MATERIAL - 172015			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172006	1	HANDLE
2	172053	1	BAIL PLATE WMT RH
3	172054	1	BAIL PLATE WMT LH
4	172057	2	LEAF SPRING
5	172059	1	BAIL, HANDLE
6	172074	2	SPACER, 5/16OD X 17GA, ALUM
7	270143	2	HANDLE PIVOT JAW
8	710353	4	SCR-MC RD HD 10-32 X .37 STL
9	710495	2	SCR-MC 4-40 X 1.25 STL Z
10	711310	4	NUT, HEX 10-32 ST PL
11	711350	2	NUT-NYLOC 10-32
12	711428	2	NUT-HEX 4-40
13	711503	6	WSR, FLAT #10
14	711543	4	WSR-HELICAL #10
15	712320	2	WSR-NYLON .22 X .45 X .04
16	712326	2	WSR-INT LOCK #4
17	712830	10	SCR-MC 10-24 X .62 STLZ TR HD
18	747603-1	2	SWITCH ASY, MICRO ROLLER W/PACK/CONDUIT
19	747632-1	1	CABLE ASY, 5 COND 18G TD

Pump Assembly

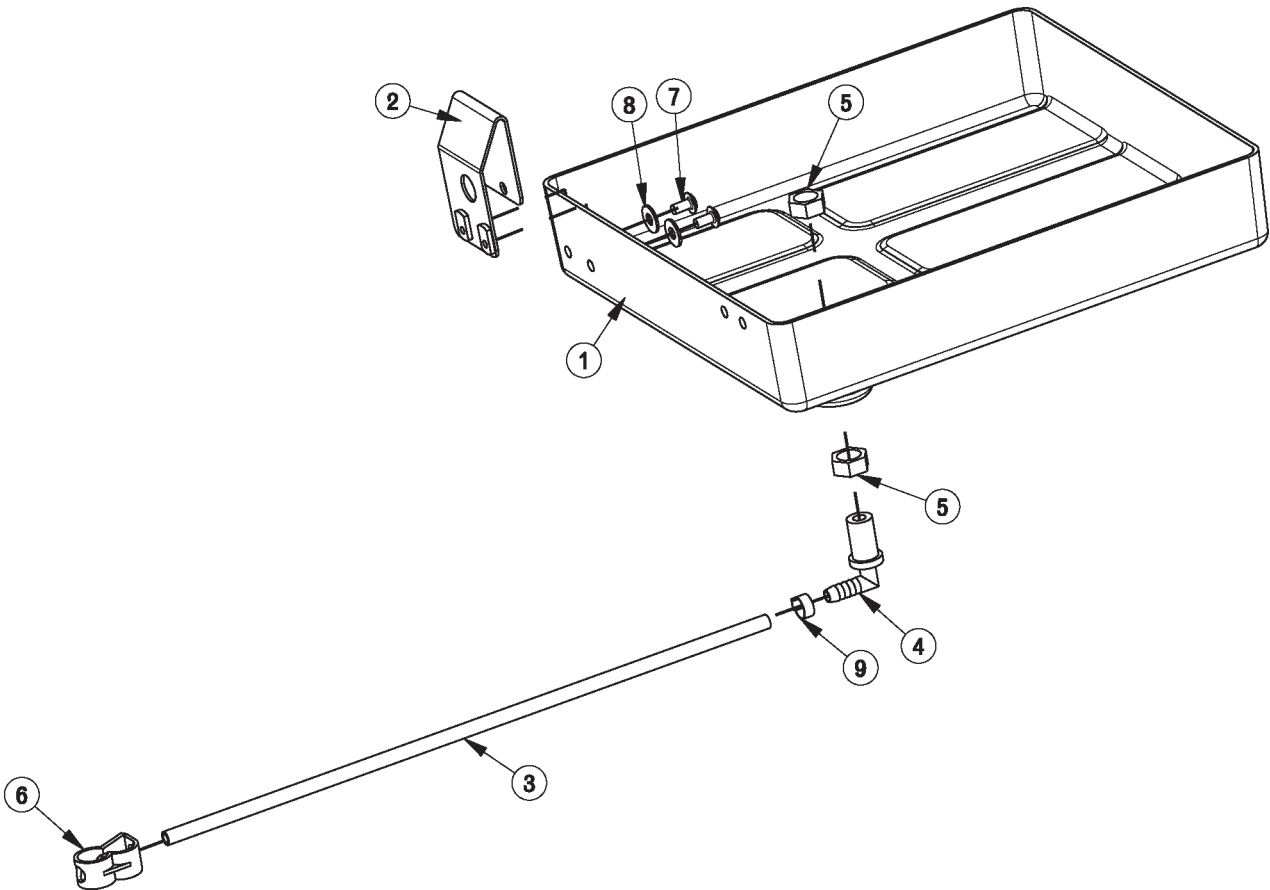


BILL OF MATERIAL - 172305FC			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172164	1	HOSE-WIRE REINF 3/8 X 5.5"
2	172164-STR	1	HOSE-WIRE REINF 3/8 X 5.5"
3	172164	1	HOSE-WIRE REINF 3/8 X 5.5"
4	172302	1	BKT, PUMP MOUNT
5	172304	3	FOAM .25 X 1.25 X 5 W/ ADH
6	173156	1	FITTING, 3/8 MNPT X 3/8 BARB
7	241097	1	HOSE-WIRE REINF 3/8 X 31"
8	260178	1	FITTING, TEE 3/8HB NYLON
9	320254	1	HOSE-WIRE REINF 3/8 X 9"
10	320264	1	FITTING BRASS - 3/8 DBL BARB X 1/4MPT
11	342442	1	FITTING, FGHT NUT PP
12	342443	1	FITTING 3/8HB INSERT PP
13	342444	1	WSR-FILTER, GARDEN HOSE SIZE
14	430114	1	1/4" FPT PLASTIC CAP
15	450040	1	FITTING-90 3/8MPT X 3/8BARB NYLON
16	450076	9	CLAMP-CRIMP 185R SS
17	712638	4	NUT, HEX 10-24 SS NYLOC
18	712764	6	WSR #10 SS
19	747691	1	PUMP, 24VDC 35PSI 3/8HOSE w/CONNECTOR
20	11038965	2	BOLT-HH M4X0.7 X 10 Z DICH
21	90435595	1	WATER SOLENOID, 24VDC 2.5BAR

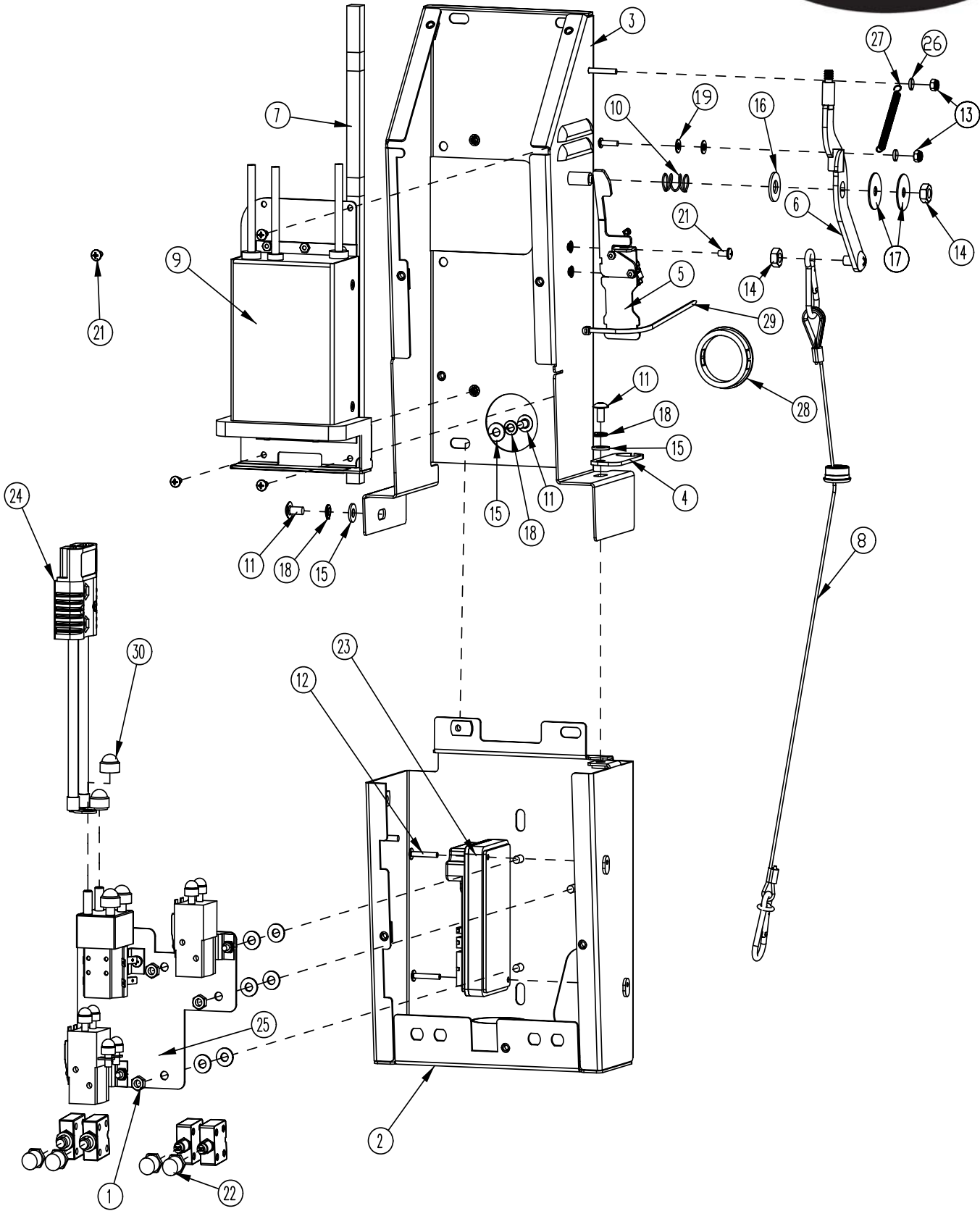
Solution Valve Assembly



BILL OF MATERIAL - 172064			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172063	1	BKT, SOL VALVE MOUNT
2	172158	1	HOSE, 1/2"ID X 7.5" NYLOBRAID
3	320265	1	FITTING DUBL 3/8HBx3/8MPT
4	383347	1	CRIMP CLAMP 1/2 HOSE SS 185R
5	711512	2	WSR-FLAT .75X1.37X.08
6	711513	1	WSR-FLAT .69 X 1.06 X .03 SS
7	809415	1	VALVE, 3/8 FPT, 45 OPEN/CLOSE
8	827008	1	FITTING, 3/8 MPT 1/2 HOSE



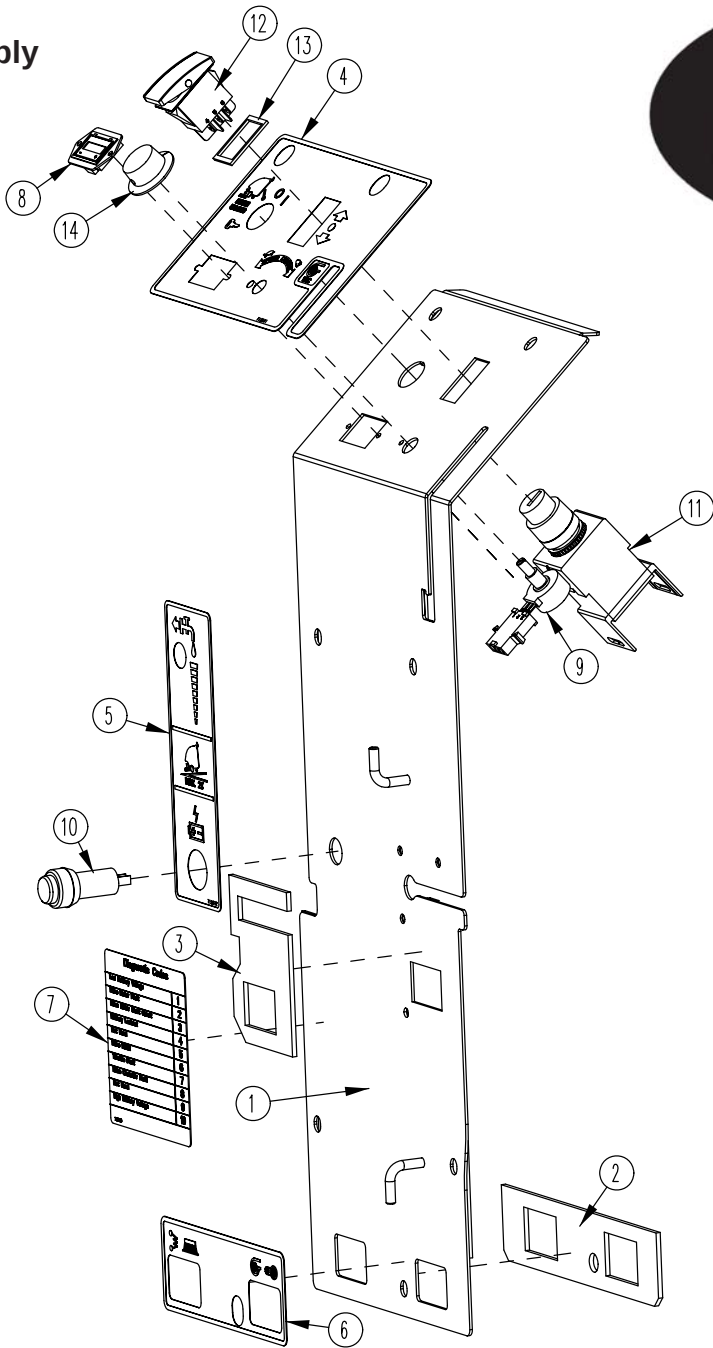
BILL OF MATERIAL - 172012			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172116	1	ES1720 BATTERY BOX
2	172213	1	BKT, SPACER FOR BATTERIES
3	260224	1	18" HOSE
4	320271	1	NOZZLE BODY-ELBOW
5	320272	2	NOZZLE BODY LOCKNUT
6	320273	1	HOSE SHUT-OFF CLAMP
7	710178	2	SCR-MC 1/4-20 X .50 TRUSS STPL
8	711575	2	WSR-FLT .31x.75x.06ST
9	828490	1	CRIMP CLAMP 140R





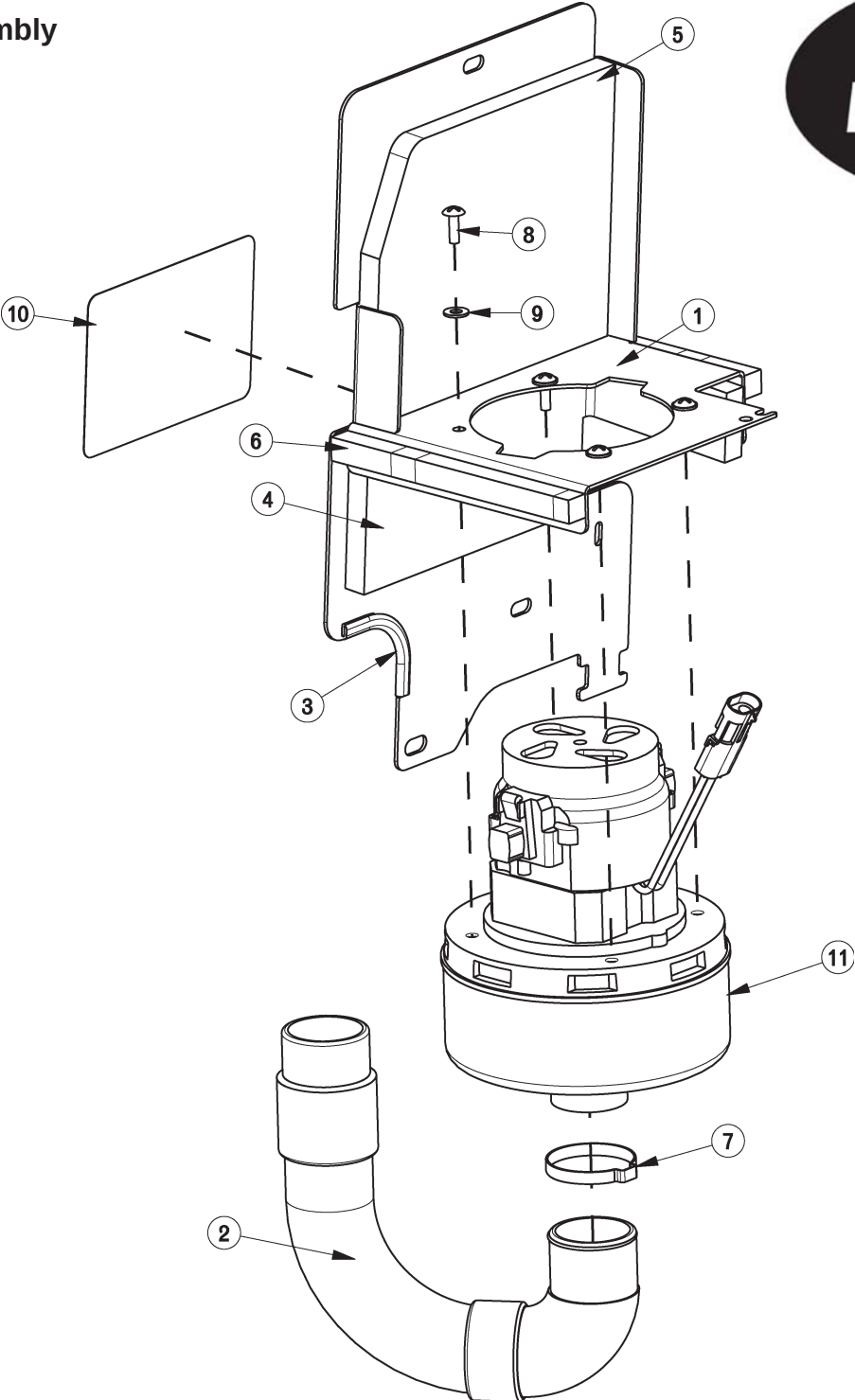
BILL OF MATERIAL - 172075C-120/230			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	369-416	3	NUT-HEX 1/4-20 NYLOC SERATED
2	172077	1	ELEC BOX-BOT HALF WMT
3	172088	1	ELEC BOX-TOP HALF WMT
4	172107	1	BKT, UPPER BUSHING MOUNT
5	172141	1	VAC SWITCH ASSY
6	172152	1	VAC LEVER WMT
7	172188	1	FOAM TAPE, 1/2" SQ X 16.5"
8	172381	1	CABLE ASSY, SQUEEGEE LIFT
9	172385	1	E1720 120V CHARGER ASSEMBLY
9CE	957753	1	E1720 230V CHARGER ASSEMBLY
10	670093	1	SPRING, COMPRESSION
11	710178	3	SCR-MC 1/4-20 X .50 TRUSS STPL
12	710534	2	SCR-MC TR HD 8-32 X 1.00 SS
13	711305	1	NUT, HEX 8-32 BR
14	711372	2	NUT-NYLOC 8-32 STL ZINC
15	711383	2	NUT-HEX CLR LOC 5/16-18
16	711505	9	1/4 FLAT WASHER, STEEL
17	711508	1	WSR-FLAT .44X 1.0X.08
18	711516	2	WSR- FLAT .31 X 1.25 X .05
19	711544	3	WSR-HELICAL 1/4
20	712320	2	WSR-NYLON .22 X .45 X .04
21	712770	6	WSR INT LOCK #10A SS
22	712810	6	SCR-MC 10-24 X .37 ST PL
23	742748	4	CIRCUIT BREAKER BOOT
24	747608	1	I-DRIVE, 24V 70A PM MOTOR CONTROL
25	747637	1	WIRE ASY, MACHINE-BATTERY E1720
26	747670C	1	ELEC PANEL ASSY, E1720TD
27	760134	2	MOUNT RING
28	762084	1	SPRING-EXT .25OD X 2" F.L. MUSIC
29	762400	1	HEYCO BUSHING 2.00"
30	828062	1	CABLE TIE LARGE
31	15592033_CAP	2	CAP, SAFETY NUT COVER M8

Electrical Box Cover Assembly

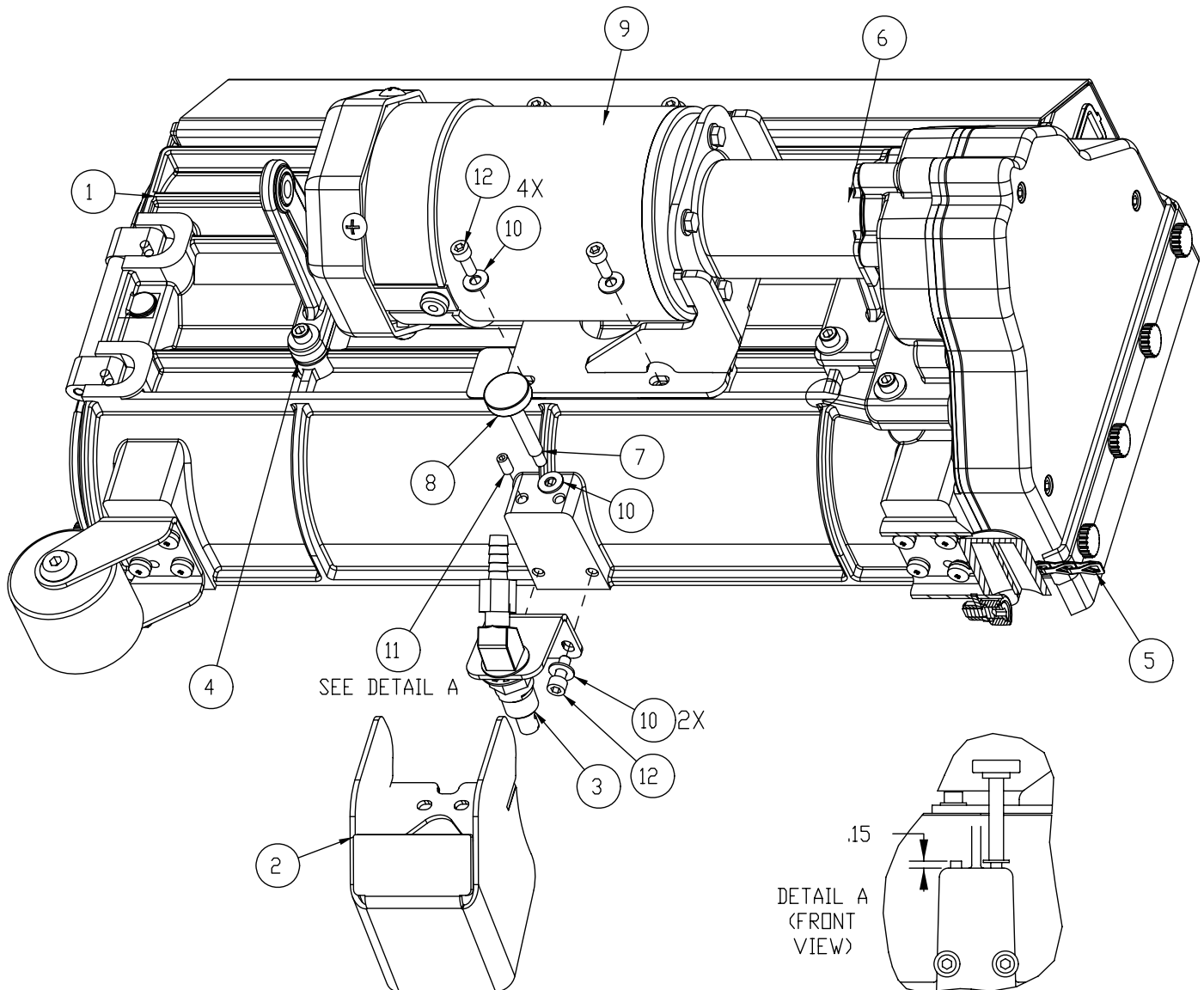


BILL OF MATERIAL - 172079FC			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172182	1	TD COVER WMT
2	172193	1	GASKET, CB OUTLINE
3	172194	1	GASKET, CHARGER CORD PLATE
4	715680FC	1	DECAL, TD DASHBOARD
5	715672	1	DECAL, CHARGE STATUS, SOLUTION CTRL
6	715674	1	DECAL, TD CIRCUIT BREAKER
7	715678	1	DECAL, DIAGNOSTIC CODES TD
8	747011	1	BATTERY GAUGE, TRU CHARGE
9	747026	1	POTENTIOMETER ASSY SPEED CONTROL
10	747614	1	CHARGE STATUS INDICATOR
11	747617-2	1	KEYSWITCH ASY, KEYSWITCH + WIR
12	748201	1	SWITCH, DPDT ON/OFF/ON
13	748209	1	GASKET -FOR 2 POLE ROCKER SWITCHES
14	809874	1	KNOB, SPEED CONTROL

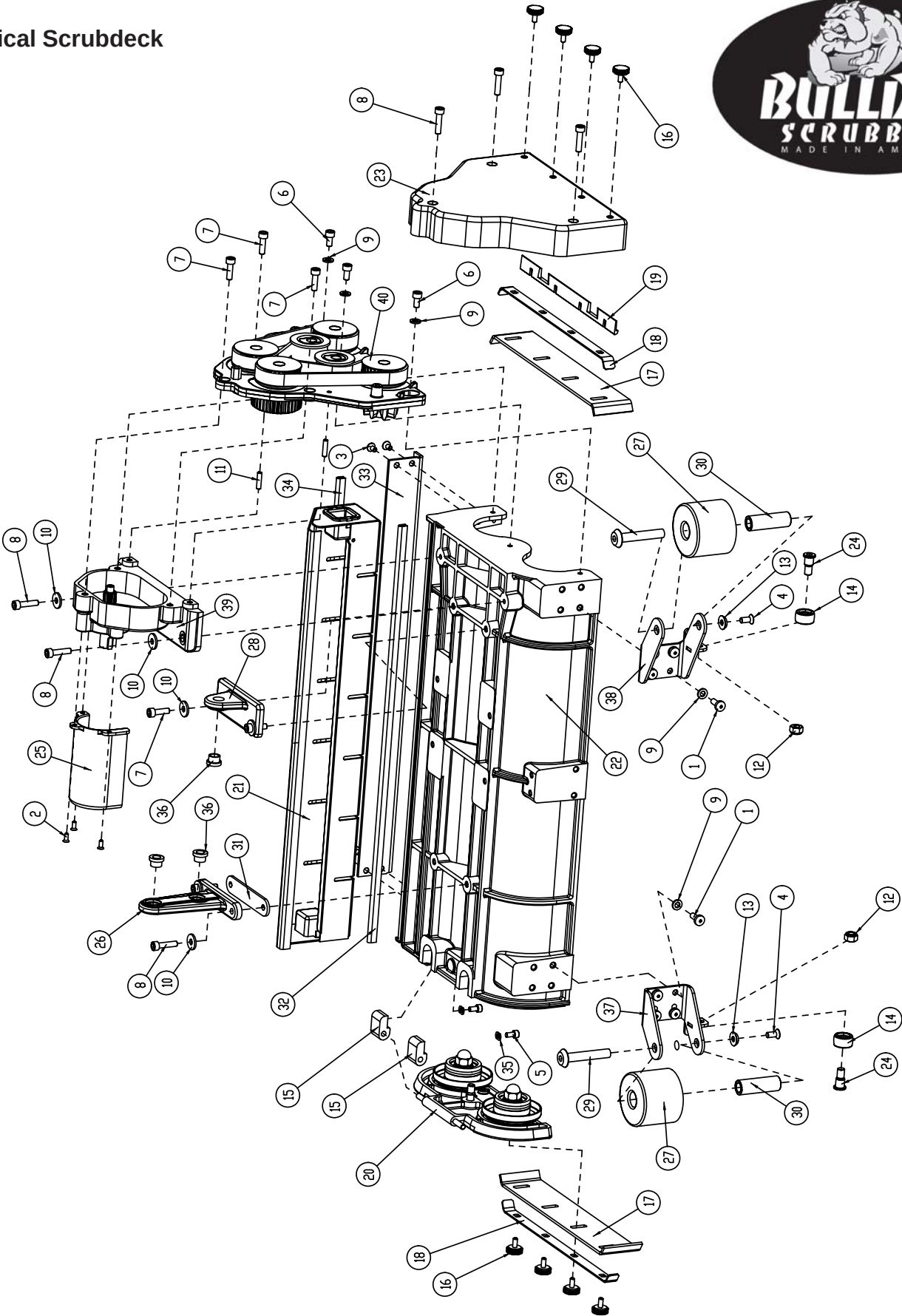
Vac Motor Assembly



BILL OF MATERIAL - 172050							
ITEM	PART NO.	REQ'D	DESCRIPTION	ITEM	PART NO.	REQ'D	DESCRIPTION
1	172045	1	VAC MOUNT WMT, ES1720	7	450095	1	CRIMP CLAMP, 1.75"
2	172048	1	HOSE, STRETCH 13"	8	711160	4	#10 X 5/8 HI-LO
3	172124	1	EDGE TRIM, .063 X 3.0, BLACK	9	711503	4	WSR, FLAT#10
4	172186	1	FOAM COVER, FRONT 1	10	715676	1	DECAL, BATT CABLE ROUTE, E1720
5	172187	1	FOAM COVER, FRONT 2	11	747607-1	1	VAC MOTOR ASY, E1720
6	172188	2	FOAM TAPE, 1/2" SQ X 16.5"				



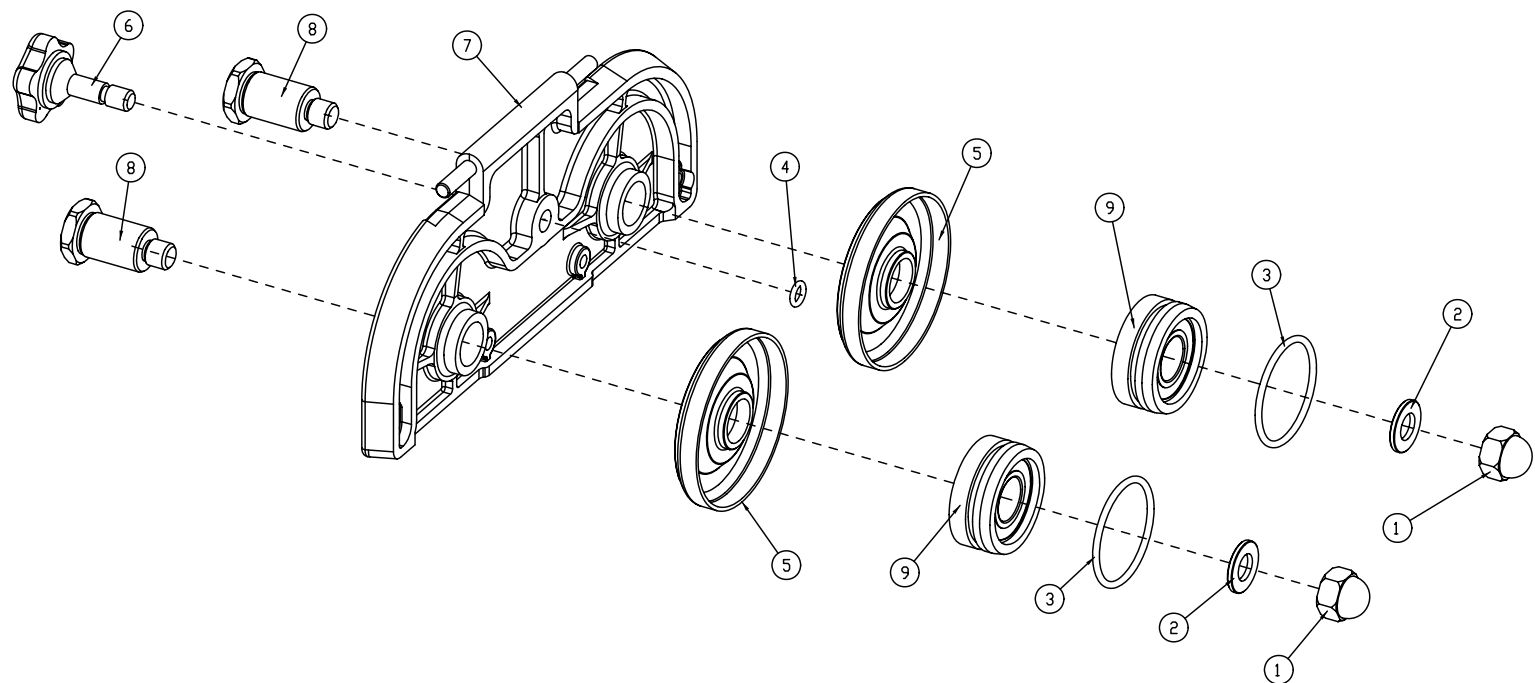
BILL OF MATERIAL - 172325			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	172300	1	CYLINDRICAL SCRUBDECK
2	172307	1	SPRAYJET COVER WELDMENT
3	172312	1	SPRAY NOZZLE ASSY
4	172333	1	SPACER, CYL DECK MOUNT
5	172334	1	DRAG CHAIN, CYL. SCRUBDECK
6	172345	1	L-070 LOVEJOY COUPLER
7	172349	1	BLT- SHLDR .31 X .375 X 1/4-20
8	172353	1	KNOB, KNURLED
9	172355	1	CYL MOTOR ASM
10	711504	7	WSR-FLAT 1/4 ID SS
11	712160	1	SCR-SK, M6 X 12 SS CUP PT
12	11132065	6	SCR-SC, M6X1.0 X 16 Z DICH





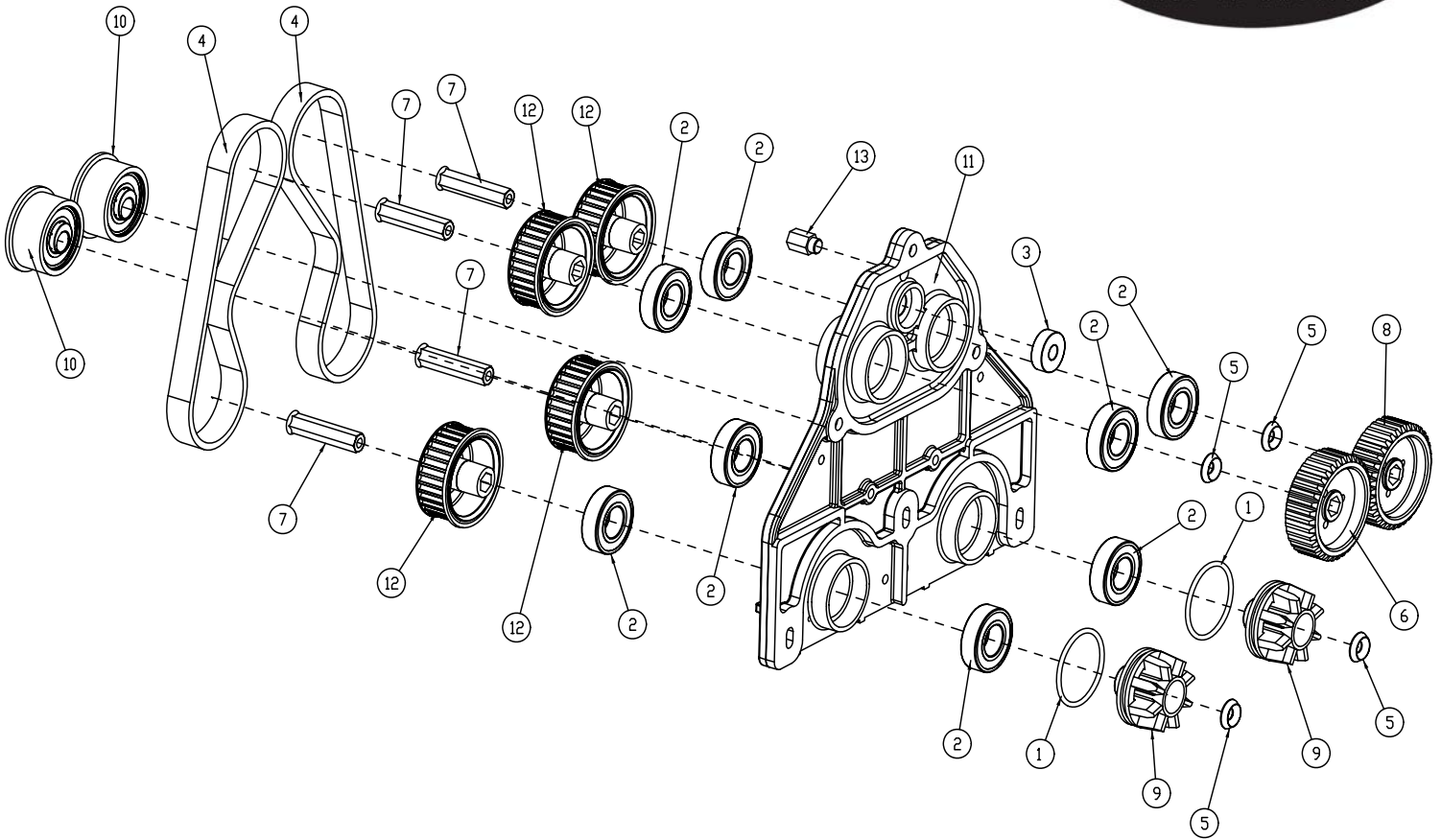
BILL OF MATERIAL - 172300			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	817306	8	SCR-PAN HD M6x16
2	829103	3	SCR-MC FL HD M4 X 10 SS
3	829203	4	CR-CSK-SCREW-M5X10-SS
4	829321	2	SC-FHCS M6 X 14 SS
5	831203	2	SCR-SHCS, M5X10 ZP
6	831304	3	SCR-SHCS, M6X12 ZP
7	831307	5	SCR-SHCS, M6X20 ZP
8	831308	7	SCR-SHCS, M6X25 ZP
9	844061	11	WASHER-6 4X12X1_6
10	844063	6	WASHER-6 4X18X2
11	853508	2	DOWEL PIN
12	859086	2	NUT-NYLOC M8
13	925012	2	WASHER-BRIDGE
14	931163	2	WHEEL - BRUSH
15	931171	2	HINGE-IDLER END
16	931172	8	KNOB-SQG
17	931235	2	LIP-FLASH GUARD
18	3130024	2	STRIP-FLASH GUARD
19	3130110	1	SEAL-BELT COVER
20	3180062	1	IDLER SUPPORT ASSLY BRUSH
21	3180217	1	DEBRIS TRAY
22	3530278	1	BRUSH DECK HOUSING
23	3530280	1	BELT COVER
24	3530283	2	PIN-BRUSH WHEEL
25	3530287	1	COUPLER COVER
26	3530288	1	BRACKET - DOUBLE ARM
27	3530290	2	DEFLECTOR ROLLER
28	3530291	1	BRACKET - SINGLE ARM
29	3530292	2	DEFLECTOR ROLLER STUD
30	3530296	2	SLEEVE DEFLECTOR ROLLER
31	3530346	1	SPACER, DOUBLE ARM
32	3530358	1	STRIP HOUSING U BEEDING
33	3530359	1	SUPPORT PLATE HOUSING
34	3530361	1	STRIP HOUSING U BEEDING
35	3530362	2	SPECIAL WASHER M5
36	3530408	3	BUSHING-FLG, .375X50X.31 GFS-055
37	3580215	1	DEFLECTOR ROLLER ARM RH WELDMENT
38	3580216	1	DEFLECTOR ROLLER ARM LH WELDMENT
39	3580219	1	HOUSING - GEAR ASSY
40	3580257	1	HOUSING ASSY-GEAR SUPPORT

Cylindrical Scrubdeck
SubAssy I - Idler Support



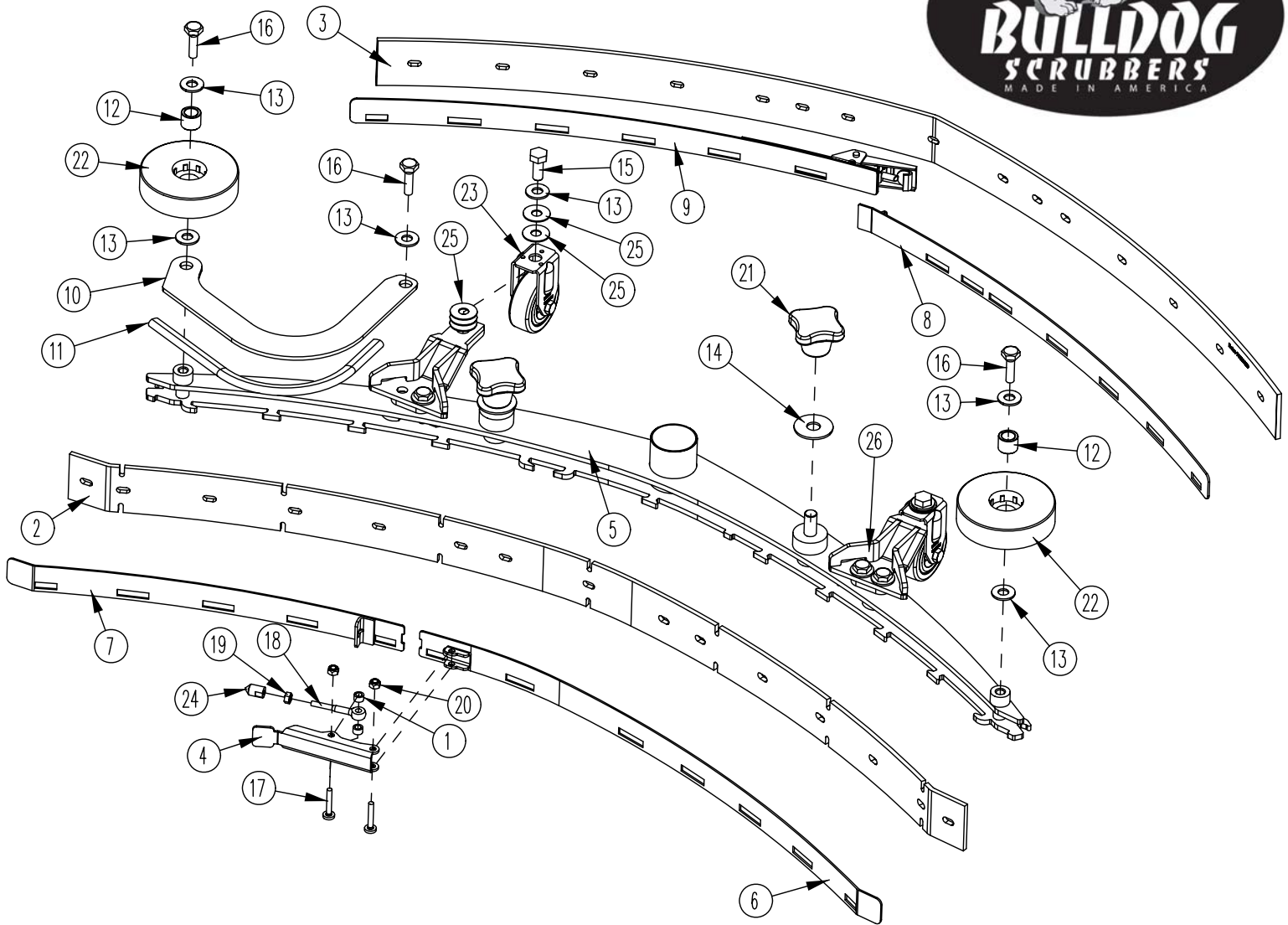
BILL OF MATERIAL - 3180062			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	838100	2	DOMED CAP NUT-M10-SS
2	845101	2	WASHER-SS-304-10.5X20X2
3	854007	2	O' RING - 36X2.5
4	854008	1	ORING 6X2.0
5	931157	2	SPACER, IDLER HUB COVER
6	931758	1	KNOB-IDLER COVER LOCK
7	3130005	1	COVER IDLER END -MACHINING
8	3130042	2	PIN-IDLER END
9	3180091	2	IDLER PULLEY - BRUSH

**Cylindrical Scrubdeck
SubAssy II - Gear Support**



BILL OF MATERIAL - 3580257			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	854007	2	O' RING - 36X2.5
2	875010	8	BEARING-6003 NSE NACHI
3	875011	1	BEARING-608 2Z
4	925002	2	DRIVE BELT 425-5M-15-HTD
5	925012	4	WASHER-BRIDGE
6	925193	1	GEAR-LH
7	931027	4	DRIVE KEY
8	931035	1	GEAR-RH
9	931129	2	PULLEY-DRIVE
10	931815	2	IDLER-PLAIN ASSY
11	3130006	1	HOUSING-GEAR SUPPORT
12	3180008	4	SPROCKET ASSEMBLY-GEAR
13	3530372	1	STUD-M/F, M8/M6 ZP

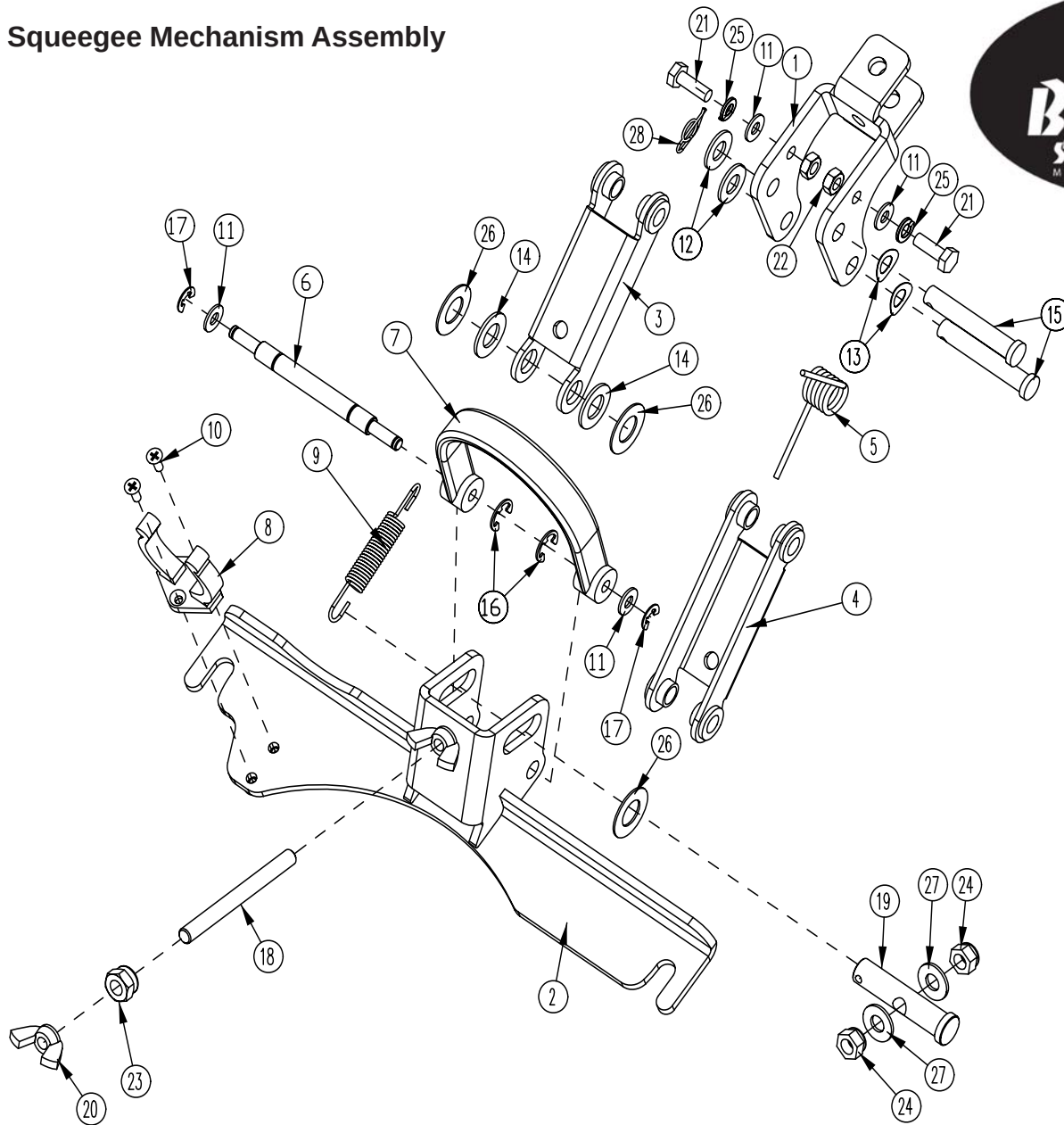
Rear Squeegee Assembly



BILL OF MATERIAL - 172230

ITEM	PART NO.	REQ'D	DESCRIPTION	ITEM	PART NO.	REQ'D	DESCRIPTION
1	172074	2	SPACER, 5/16OD X 17GA, ALUM	14	712773	2	WSR FLAT .438 X 1.25 X .07 SS
2	172162	1	BLADE, FRONT 34" SQUEEGEE	15	717030	2	BOLT-HH M8X1.25 X 20 SS
3	172163	1	BLADE, REAR 34" SQUEEGEE	16	11039567	6	BLT-HH M8 X 25 SS DIN933
4	172234	1	LEVER, 90535758	17	11175494	2	SCR-MC M5 X 25 SS DIN7985
5	172235	1	SQUEEGEE WMT, 34" (860)	18	11518313	1	BLT-EYE M5 X 40 SS
6	172240	1	STRAP WMT, FRONT LEFT	19	12022430	1	NUT-HEX M5 SS DIN934
7	172241	1	STRAP WMT, FRONT	20	12040283	2	NUT-HEX M5 NYLOC SS DIN985
8	172245	1	STRAP WMT, REAR	21	17133026	2	KNOB, M10 STAR HANDLE
9	172246	1	STRAP WMT, REAR	22	90336637	2	WHEEL, 3.15OD
10	172271	1	BUMPER, 34" SQG	23	90513094	2	FIXED CASTOR
11	172274	1	EDGE TRIM 5/16 X 10" BLACK	24	90513631	1	PIN, THD 90513631
12	430322	2	BUSHING .435 X .625 X .50	25	90531112	10	WSR-FLT 8.3 X 22 X 1MM SS
13	712772	10	WSR-FLAT .344 x .75 x .06 SS	26	96116389	2	SQG CASTER WMT

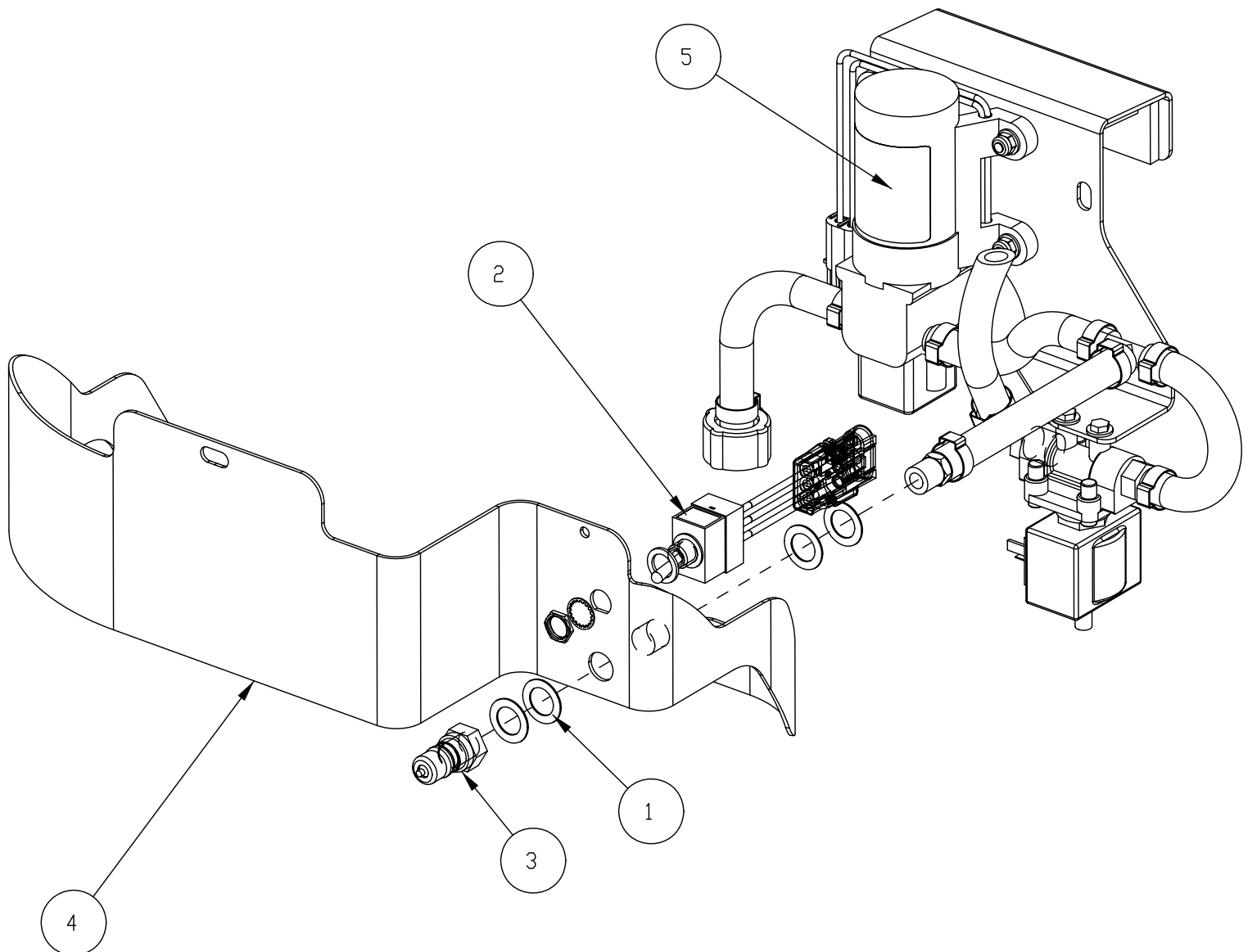
Squeegee Mechanism Assembly



BILL OF MATERIAL - 172150

ITEM	PART NO.	REQ'D	DESCRIPTION	ITEM	PART NO.	REQ'D	DESCRIPTION
1	172134	1	BKT, MAIN SQUEEGEE HINGE	15	711678	2	CLEVIS PIN 3/8 X 2-1/4
2	172155	1	SQUEEGEE MOUNT WMT	16	711717	2	RETAINING RING- E TYPE .37
3	172196	1	SQ TOP LINK W/ BUSHING	17	711720	2	.250 DIA RETAINING RING- E TYPE
4	172197	1	SQ BOT LINK W/ BUSH	18	712147	1	ROD-THD 5/16-18 X 3.5 SS
5	172261	1	TORSION SPRING	19	712148	1	CLEVIS PIN, 1/2 x 2.25 W/ HOLE
6	172352	1	PIN, 3/8 X 3.0, SQG STRAP	20	712157	2	NUT- WING 5/16-18 SS
7	172357	1	STRAP, 9" PU, BLACK	21	712562	2	BOLT-HH 1/4-20X3/4 SS
8	260579	1	TOOL CLIP, 1.5" HOSE	22	712665	2	NUT-HEX 1/4-20 SS
9	430051	1	RETURN SPRING-3.00"	23	712680	1	NUT-HEX 5/16-18 SS
10	710530	2	SCR-MC FL HD 8-32 X .50 BRS	24	712683	2	NUT, HEX 5/16-18 NYLOC SS
11	711504	4	WSR-FLAT 1/4 ID SS	25	712758	2	WSR-HELICAL 1/4 SS
12	711515	2	WSR-FLAT .406 X .812 X .0625	26	712760	3	WSR-FLAT .56X1.06X.04 SS
13	711523	2	WSR-WAVE .37X .68 X .08	27	712772	2	WSR-FLAT .344 x .75 x .06 SS
14	711592	2	WSR-FLAT .506 X .9 X .064 NYL	28	3400125	1	PIN-COTTER 3/8 RUE RING

Optional Pump Kit



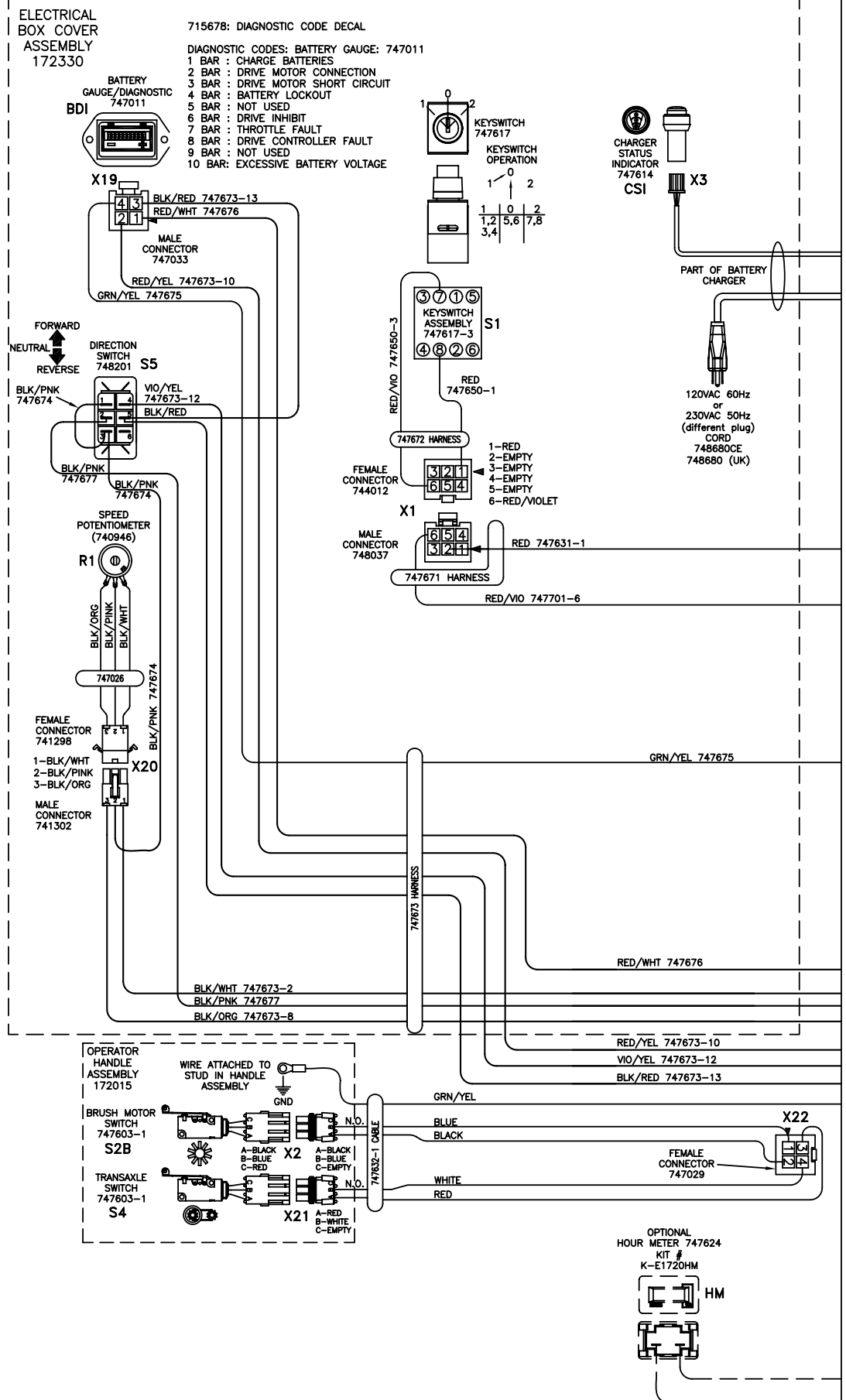
BILL OF MATERIAL - K-E20CP			
ITEM	PART NO.	REQ'D	DESCRIPTION
1	711594	4	WSR-FLAT .56 X .88 X .03
2	747693-1	1	SWITCH ASY, TOGGLE ON-ON SPDT W/ 3P
3	828368	1	MALE COUPLER
4	172144FC	1	FRONT PANEL, FOR OAW, E1720
5	172305FC	1	PUMP ASM, BULLDOG20 CYL

1 Wiring Diagrams

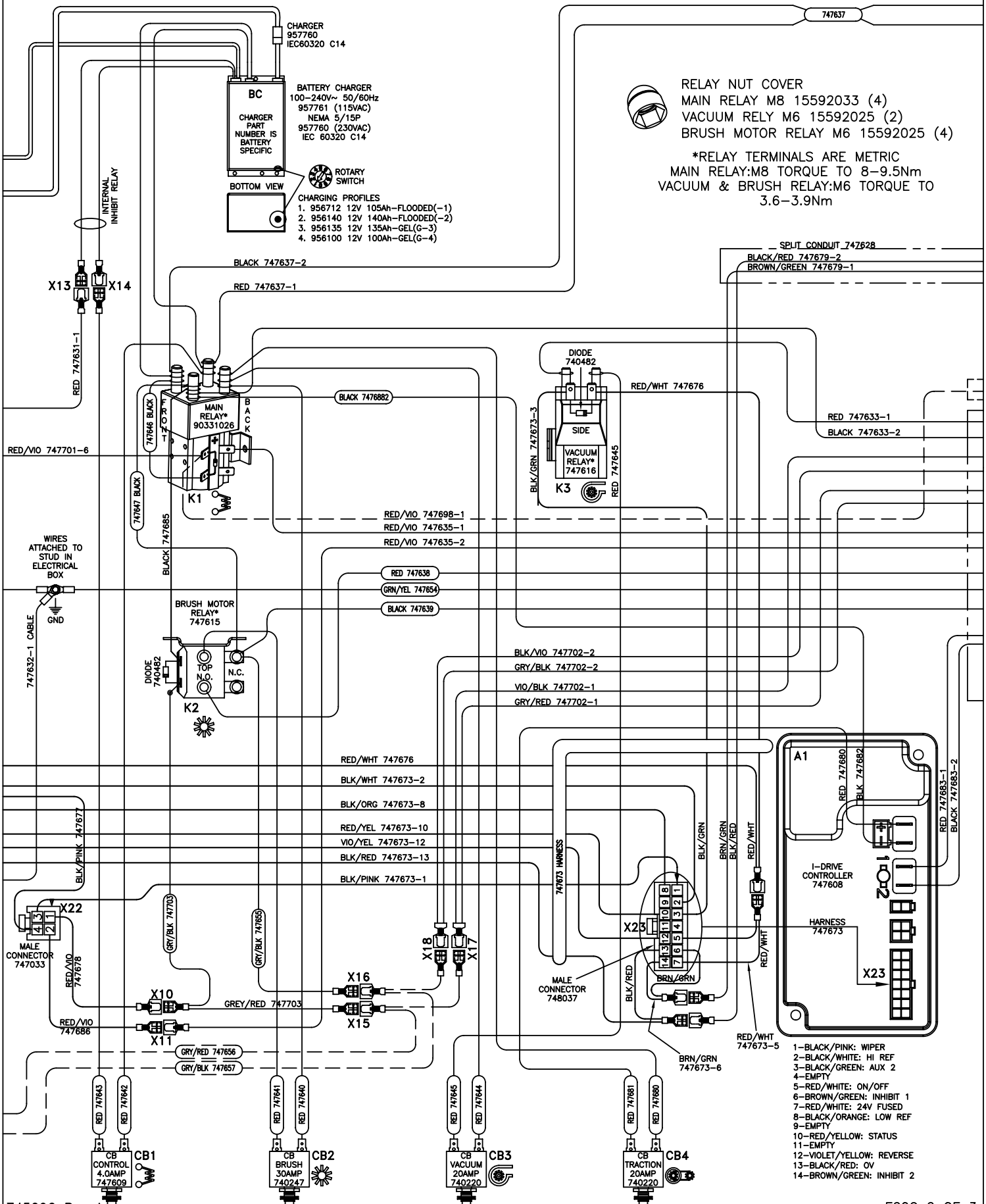
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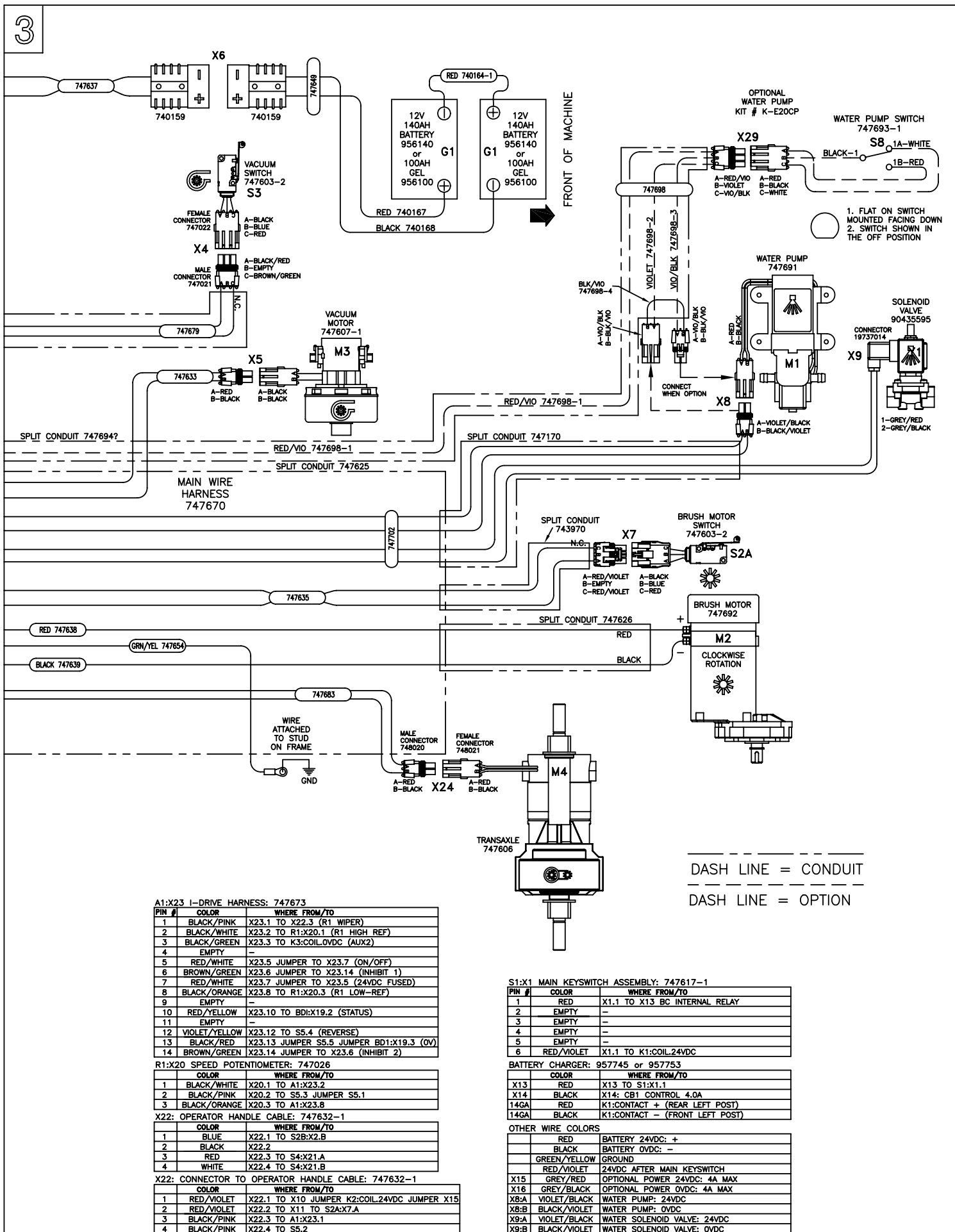


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ELECTRICAL
BOX ASSEMBLY
172075C-120
172075C-230





E20C PART REFERENCE LIST
Schematic 745096

REFERENCE #	COMPONENT NAME	PART NUMBER
M1	PUMP, WATER	748691
M2	MOTOR, BRUSH	748692
M3	MOTOR, VACUUM ASSEMBLY	747607-1
M4	TRANSAXLE	747606
Y1	SOLENOID VALVE, WATER	90435595
K1	RELAY, MAIN	90331026
K2	RELAY, BRUSH MOTOR	747615
K3	RELAY, VACUUM	747616
CB1	CIRCUIT BREAKER 4.0A, CONTROL	747609
CB2	CIRCUIT BREAKER 30A, BRUSH MOTOR	740247
CB3	CIRCUIT BREAKER 20A, VACUUM MOTOR	740220
CB4	CIRCUIT BREAKER 20A, TRANSAXLE	740220
S1	KEYSWITCH	747617
S2A	SWITCH, BRUSH MOTOR (at motor)	747603-2
S2B	SWITCH, BRUSH MOTOR (handle)	748603-1
S3	SWITCH, VACUUM MOTOR	748603-2
S4	SWITCH, TRANSAXLE (handle)	748603-1
S5	SWITCH, DIRECTION	748201
S8 (optional)	SWITCH, PUMP- OFF AISLE WAND (KIT K-E20CP)	747693-1
A1	CONTROLLER, I-DRIVE	747608
R1	SPEED POTENTIOMETER ASSEMBLY	747026
BDI	BATTERY DISCHARGE INDICATOR	747011
CSI	CHARGER STATUS INDICATOR	747614
HM (optional)	HOUR METER (KIT K-E1720HM)	747624
BC (model specific)	BATTERY CHARGER 115VAC (battery type specific)	957761 (-2 or G-4)
BC (model specific)	BATTERY CHARGER 230VAC (battery type specific)	957760 (-2 or G-4)
G1	BATTERY, 12V 140AH (2 REQUIRED)	956140
G1 (optional)	BATTERY, GEL 12V 100AH (2 REQUIRED)	956100
D1	DIODE, MAIN RELAY	Part of K1
D2	DIODE ASM, BRUSH MOTOR RELAY	740482
D3	DIODE ASM, VACUUM MOTOR RELAY	740482

REFERENCE #	CONNECTOR FUNCTION	PART # -female	PART # -male
X1	KEYSWITCH (S1)	744012	748037
X2	SWITCH, BRUSH MOTOR (S2B)	747022	747021
X3	CHARGER STATUS INDICATOR (CSI)	Part of CSI	Part of BC
X4	SWITCH, VACUUM (S3)	747022	747021
X5	MOTOR, VACUUM (M3)	748021	748020
X6	BATTERY CONNECTOR	740159	740159
X7	SWITCH, BRUSH MOTOR (S2A)	747022	747021
X8	PUMP, WATER (M1)	748021	748020
X9	SOLENOID VALVE, WATER (Y1)	19737014	N/A
X10	OPERATOR HANDLE CABLE	741093	740697
X11	OPERATOR HANDLE CABLE	740366	740697
X13	BATTERY CHARGER (BC)- INTERNAL RELAY	740366	740697
X14	BATTERY CHARGER (BC)-INTERNAL RELAY	740366	740697
X15	SOLENOID (Y1) /HOUR METER CONNECTION (HM)	740366	741165
X16	SOLENOID (Y1) /HOUR METER CONNECTION (HM)	740366	741165
X17 (optional)	OPTIONAL HOUR METER (HM) WIRE-747656	740366	741165
X18 (optional)	OPTIONAL HOUR METER (HM) WIRE-747657	740366	741165
X19	BATTERY GAUGE (BDI)	Part of BDI	747033
X20	SPEED POT ASSEMBLY (R1)	741298	741302
X21	SWITCH, TRANSAXLE (S4)	747022	747021
X22	OPERATOR HANDLE CABLE: 747632-1	747029	747033
X23	I-DRIVE HARNESS: 747673	Part of A1	748037
X24	TRANSAXLE (M4)	748021	748020
X25	I-DRIVE (A1) TO VACUUM SWITCH (S3)	740366-1	741165
X26	I-DRIVE (A1) TO VACUUM SWITCH (S3)	741093	740698
X27	I-DRIVE (A1) TO VACUUM RELAY-CONTACT	741093	741165
X28 (optional)	SWITCH, TOGGLE WATER PUMP (S8)	747022	747021
X29 (optional)	PUMP, OFF AISLE WAND (M1)	748021	748020