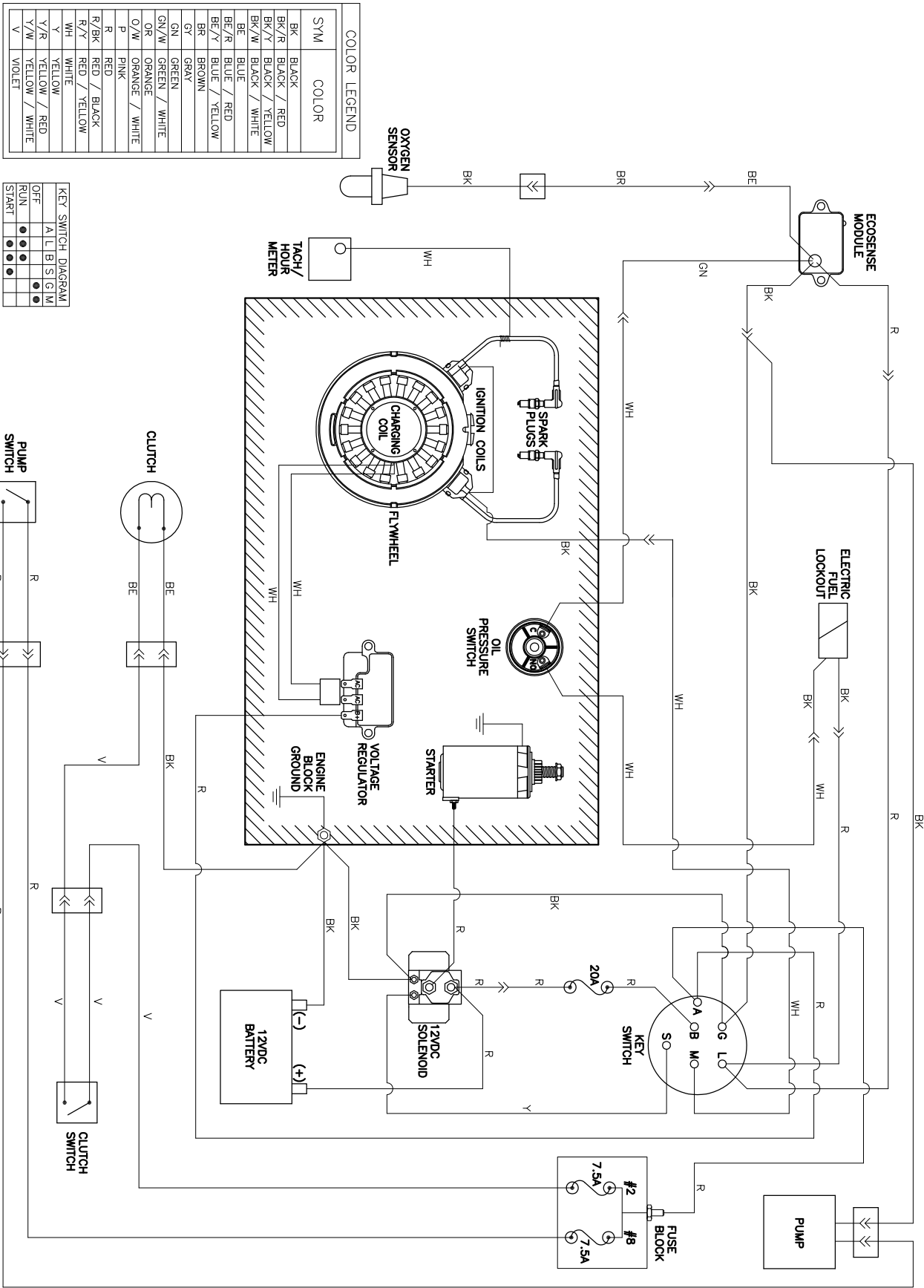




Propane Hard Floor Machine
PE420GP
Operator's Manual



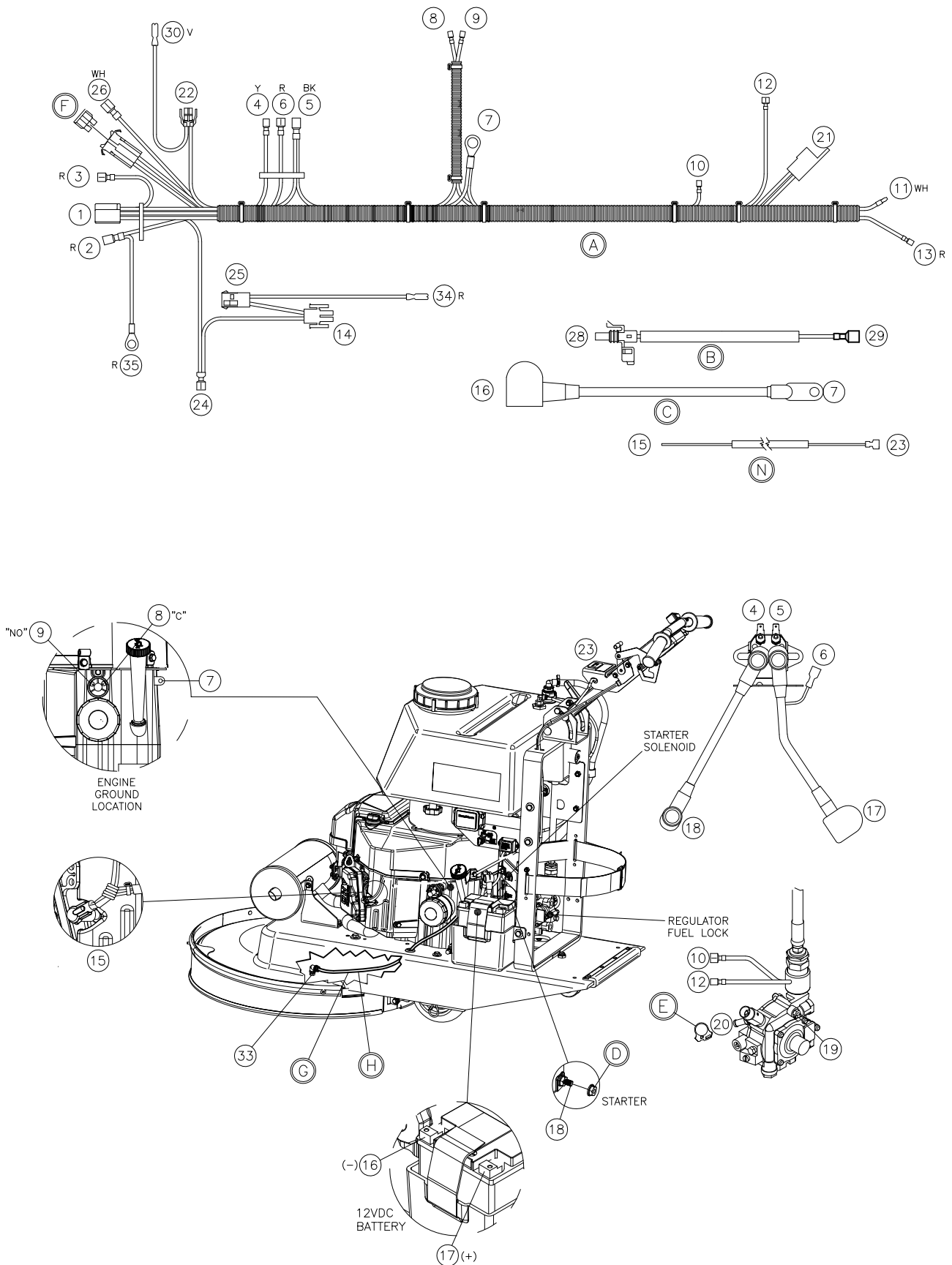
Electrical Schematic



RF039500

080311

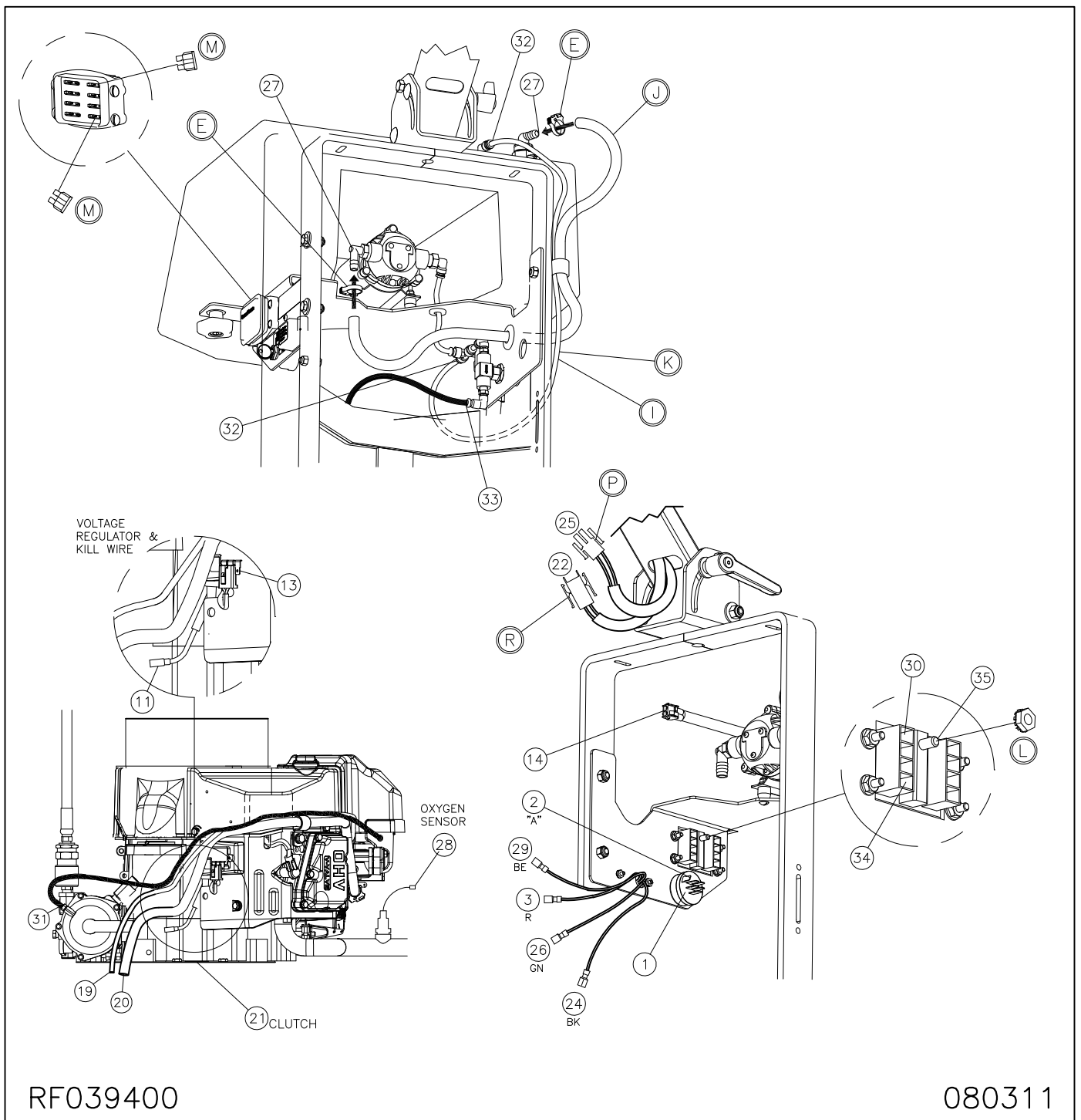
Connections



RF039400

080311

Connections (Continued)

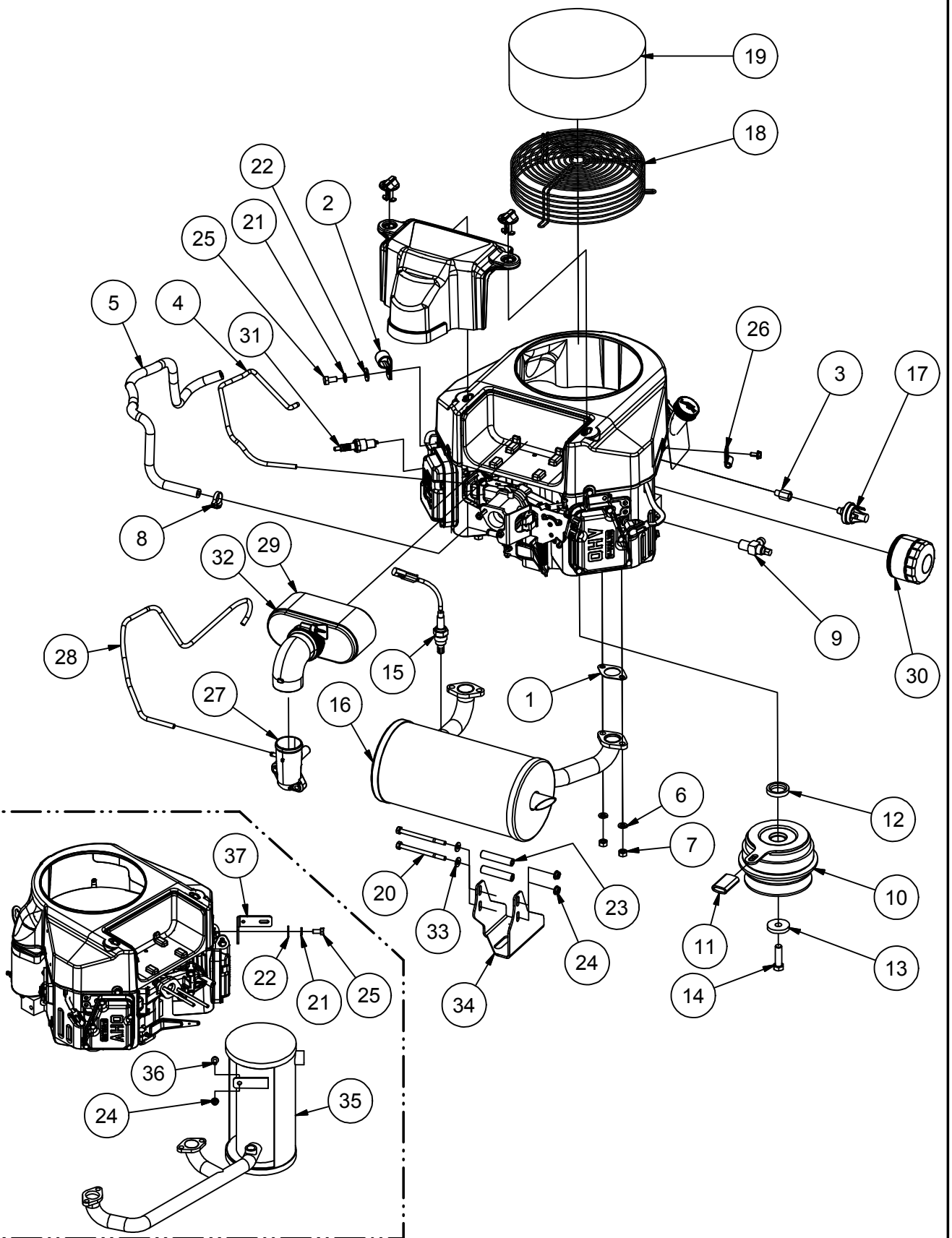


RF039400

080311

Item	Ref. No.	Description	Qty	Item	Ref. No.	Description	Qty
A	MP403200	HARNESS, WIRING	1	I	MP184200	TUBING, NYLON, 1/4" OD	38"
B	MP373000	WIRE, SENSOR, OXYGEN	1	J	NB2470	HOSE, FUEL, 3/8"	33"
C	MP368500	CABLE, BATTERY, 10	1	K	NB7240	WIRE, SENSOR, OXYGEN	36"
D	NB9545	NUT, FLANGE, 1/4"	1	L	NB9845	TERMINAL ADAPTER	1
E	NB7282	CLAMP, HOSE	3	M	MP043000	FUSE, 7.5A	2
F	SS2570	FUSE, 20A	1	N	MP311500	WIRE, HOUR METER	1
G	MP184200	TUBING, NYLON, 1/4" OD	36"	O	MP382200	HARNESS, WIRING, PUMP	1
H	NB7240	SLEEVING, BLACK	34"	P	MP122100	HARNESS, WIRING, CLUTCH	1

Engine Assembly



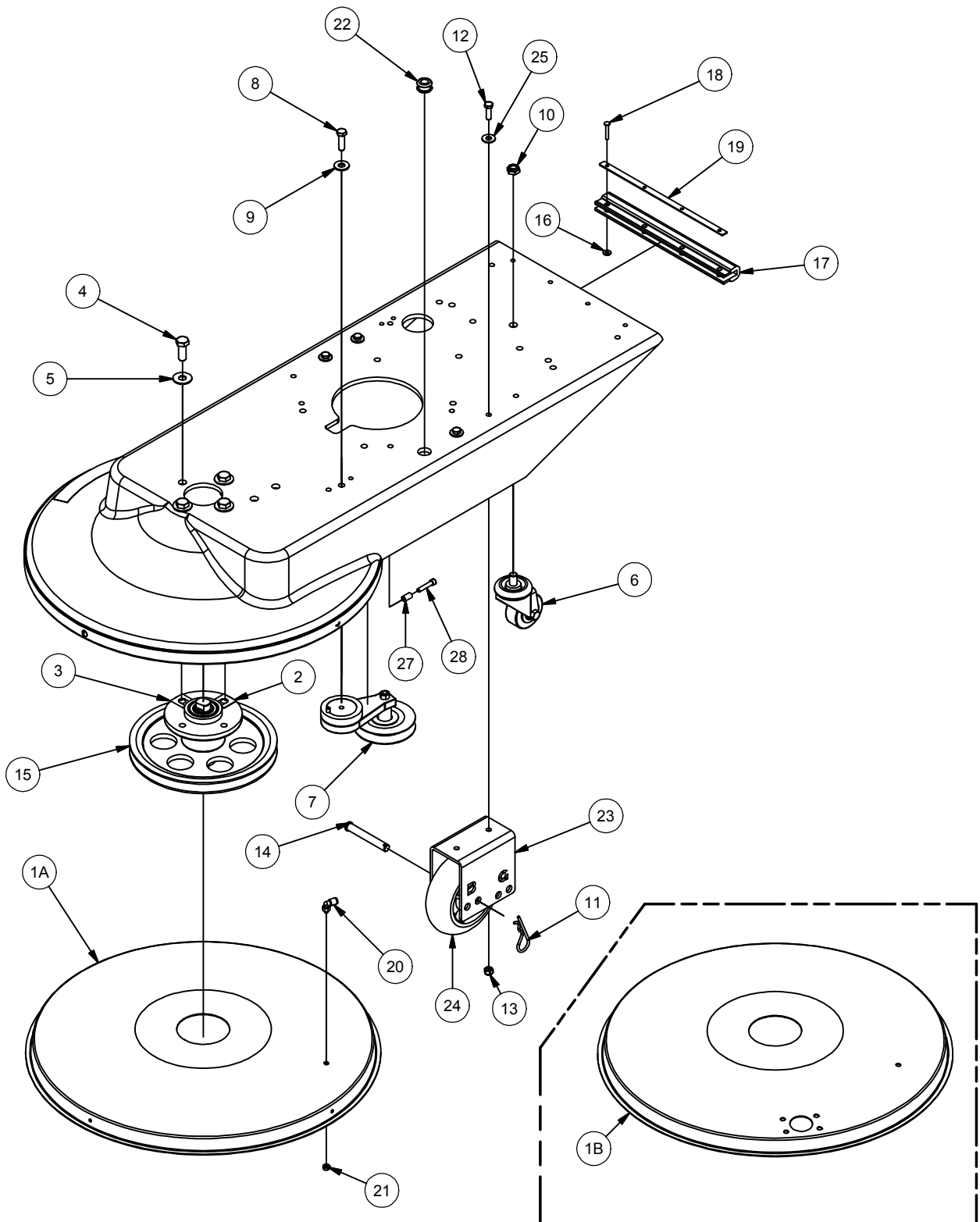
RF038200

112113

Engine Assembly (continued)

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	KA110607016	GASKET, MUFFLER	2	20	NB068500	BOLT, HEX, 1/4" X 3-1/2"	2
2	NB8130	CLAMP, 3/4" ID	1	21	NB6111	WASHER, LOCK, 5/16"	1
3	MP044800	ADAPTER, 1/8" NPT	1	22	NB9267	WASHER, FLAT, 5/16"	1
4	NB2460	HOSE, VACUUM, 5/32"	27"	23	MP455900	SPACER, 1/4" ID	2
5	NB2470	HOSE, FUEL, 3/8"	26"	24	NB9545	NUT, FLANGE, 1/4"	2
6	KA461DA0800	WASHER, LOCK, M8	4	25	NB065000	BOLT, HEX, M8 X 16	1
7	KA922107027	NUT, HEX, M8	4	26	NB8125	CLAMP, 1/4" ID	1
8	NB7282	CLAMP, HOSE	1	27	MP376300	CARB., ASM.	1
9	MP072300	VALVE, DRAIN, OIL	1	28	NB2460	HOSE, VACUUM, 5/32"	33"
10	MP4787	CLUTCH, ASM.	1	29	KA110137046	PRECLEANER, AIR	1
11	MP4790	TUBING, NEOPRENE	2.5"	30	KA490657007	FILTER, OIL	1
12	MP371700	SPACER, 1.02" ID	1	31	KA920702112	PLUG, SPARK, NGK, BPR4ES	2
13	MP4805	SPACER, BOTTOM, CLUTCH	1	32	KA110130752	ELEMENT, FILTER, AIR	1
14	NB005800	BOLT, HEX, 7/16" X 1-1/2"	1	33	NB3350	WASHER, FLAT, 1/4"	2
15	MP466500	SENSOR, OXYGEN	1	34	MP455601	BRACE, MUFFLER	1
16	MP364900	MUFFLER, CATALYST	1	35	MP365300	MUFFLER, CATALYST, VERT.	1
17	MP019200	SWITCH, PRESSURE, OIL	1	36	NB049300	BOLT, FLANGE, 1/4" X 1/2"	1
18	MP371200	CAGE, INTAKE, ENGINE	1	37	MP387601	BRACKET, MUFFLER	1
19	MP371300	FILTER, INTAKE, ENGINE	1				

Deck Assembly



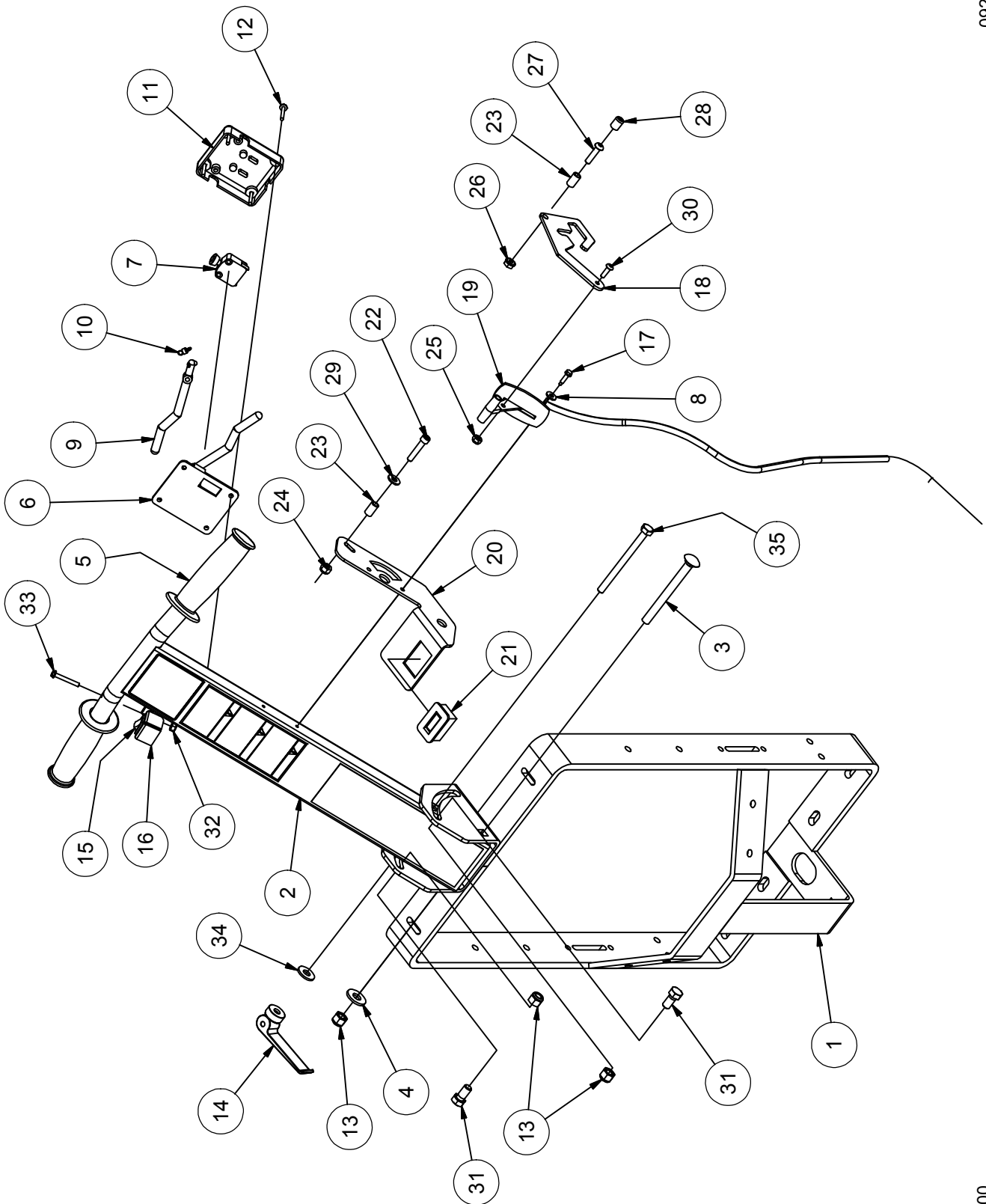
RF038300

112113

Deck Assembly (continued)

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1A	SA028700	LINER, REPLACEMENT	1	14	NB053400	PIN, CLEVIS, 1/2" X 3-1/2"	2
1B	SA030500	LINER, HD, REPLACEMENT	1	15	MP379700	SPINDLE, 9.75", ASM.	1
2	MP197100	SHIM, 1/32"	1	16	NB9645	WASHER, FLAT, #10	4
3	MP197000	SHIM, 1/16"	1	17	MP371400	BUMPER, ROK-BAK	1
4	NB6864	BOLT, HEX, 1/2" X 1-1/4"	4	18	NB063400	RIVET, 3/16" X 1.00"	4
5	NB9269	WASHER, FLAT, 7/16"	4	19	MP336200	STRAP, BUMPER	1
6	MP012801	CASTER, 2-1/2"	1	20	MP443300	FITTING, ELBOW, 1/4"	1
7	MP071800	TENSIONER, BELT	1	21	NB006600	NUT, KEPS, #10	1
8	NB6044	BOLT, HEX, 3/8" X 1-1/4"	1	22	NB6525	GROMMET, 1/2" ID	1
9	NB3450	WASHER, FLAT, 3/8"	1	23	MP389001	BRACKET, WHEEL	2
10	NB003100	NUT, HEX, 1/2"	1	24	RV009600	WHEEL, 6" X 2"	2
11	LX2105	CLIP, HITCH PIN	2	25	NB9267	WASHER, FLAT, 5/16"	4
12	NB6545	BOLT, HEX, 5/16" X 1"	4	26	MP139900	BUSHING, SKIRT	1
13	NB3265	NUT, LOCK, 5/16"	4	27	NB038800	BOLT, SH, 1/4" X 1-1/4"	1

Handle Assembly



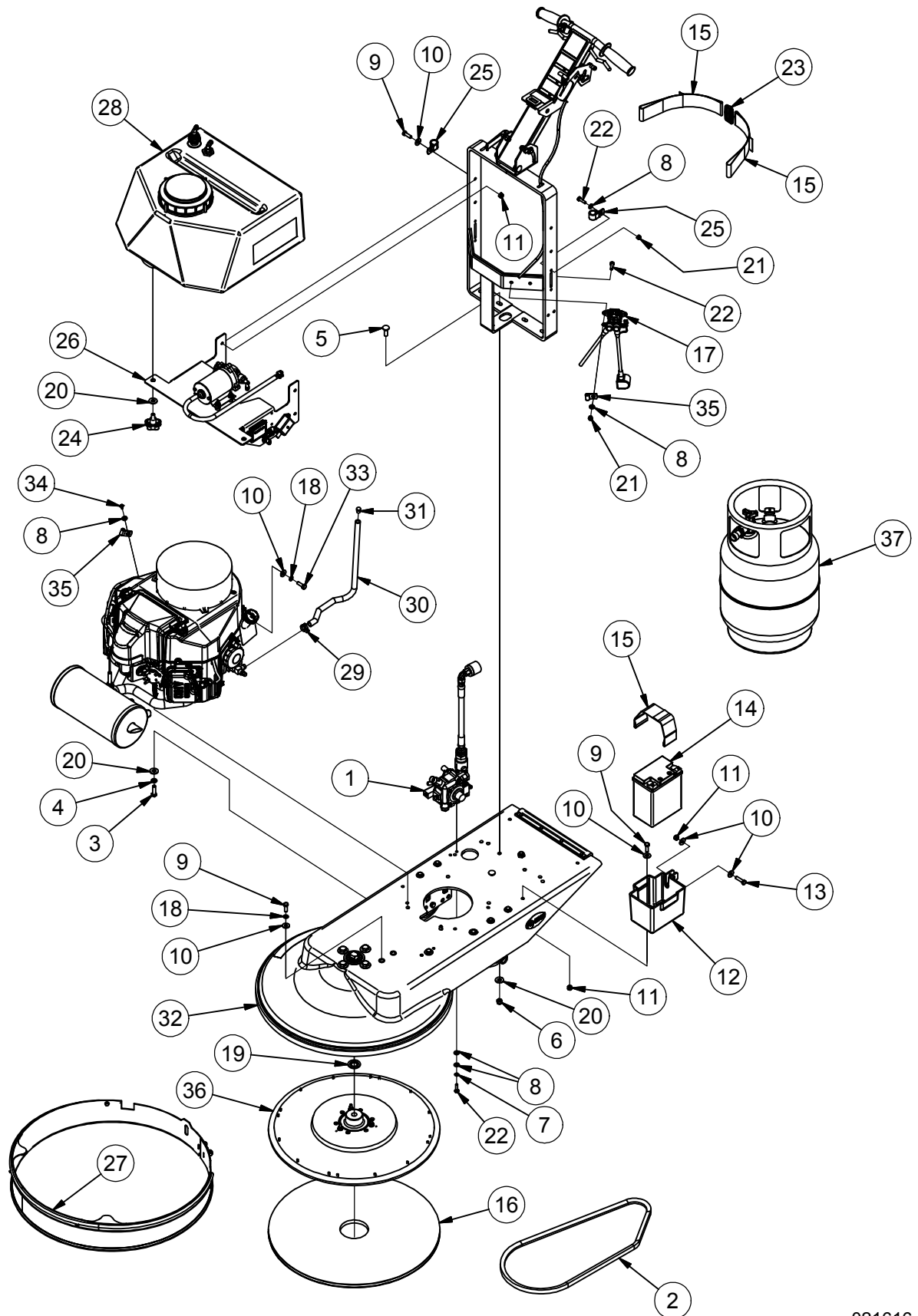
092815

RF038400

Handle Assembly (continued)

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	MP366500	HANDLE, BASE	1	19	MP380500	CABLE, THROTTLE	1
2	MP366800	HANDLE, TOP	1	20	MP383901	BRACKET, HOUR METER	1
3	NB9460	BOLT, CARRIAGE, 3/8" X 4"	2	21	MP280400	METER, HOUR / TACH	1
4	NB3450	WASHER, FLAT, 3/8"	2	22	NB038800	SCREW, SH, 1/4" X 1-1/4"	1
5	MP366900	GRIP, HANDLE	2	23	MP139900	BUSHING, SKIRT	2
6	MP1230	BASE, BOX, SWITCH	1	24	NB3275	NUT, LOCK, 1/4"	1
7	MP376000	SWITCH, ASM.	1	25	NB9735	NUT, LOCK, #10	1
8	NB9645	WASHER, FLAT, #10	2	26	NB9845	NUT, KEPS, 1/4"	1
9	MP087100	LEVER, SWITCH	2	27	NB9308	SCREW, BH, 1/4" X 1"	1
10	MP9606	SPRING, LEVER	2	28	NB4000	CAP, YELLOW	1
11	MP1210	COVER, BOX	1	29	NB3350	WASHER, FLAT, 1/4"	1
12	NB5366	SCREW, #8 X 1-1/4"	4	30	NB049200	SCREW, BH, #10 X 5/8"	1
13	NB3267	NUT, LOCK, 3/8"	3	31	NB6851	BOLT, HEX, 3/8" X 3/4"	2
14	MP417900	LEVER, ADJUSTMENT	1	32	NB9725	NUT, LOCK, #8	1
15	MP380000	SWITCH, ROCKER	1	33	NB063100	SCREW, FLANGE, #8 X 1-1/4"	1
16	MP240500	BRACKET, SWITCH	1	34	NB9267	WASHER, FLAT, 5/16"	1
17	NB4381	SCREW, #8 X 3/4"	2	35	NB066400	BOLT, HEX, M8 X 100	1
18	MP384001	LEVER, THROTTLE	1				

Main Assembly



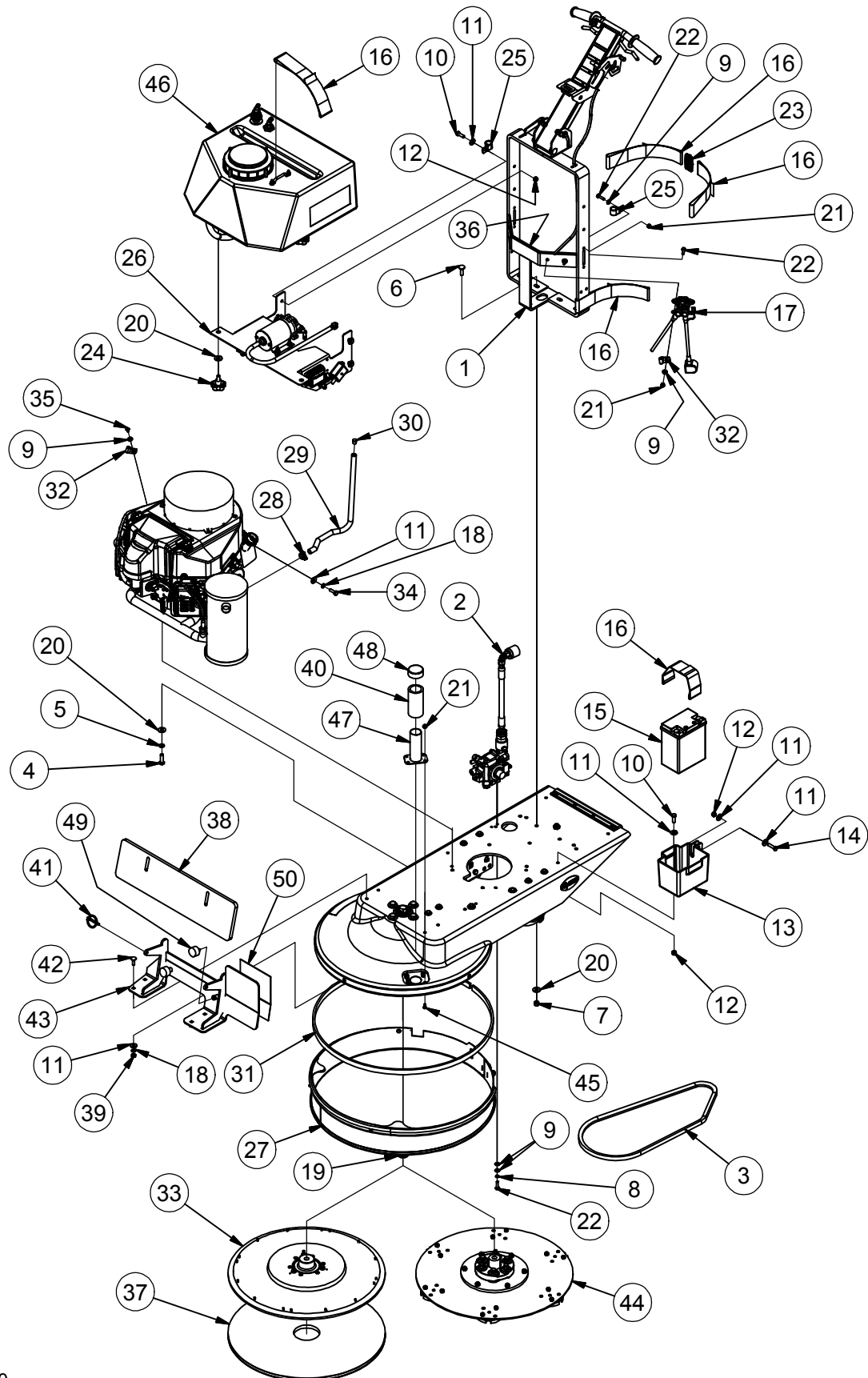
RF038000

021616

Main Assembly (continued)

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	MP371800	REGULATOR, ASM.	1	20	NB3450	WASHER, FLAT, 3/8"	10
2	MP8080	BELT, BX-51	1	21	NB3275	NUT, LOCK, 1/4"	3
3	NB6044	BOLT, HEX, 3/8" X 1-1/4"	3	22	NB6530	BOLT, HEX, 1/4" X 1"	5
4	MX1075	WASHER, LOCK, 3/8"	3	23	MP367600	SLIDE, STRAP, 2"	1
5	NB5520	BOLT, CARRIAGE, 3/8" X 1-1/4"	5	24	MP107200	KNOB, HANDLE, ASM.	2
6	NB3267	NUT, LOCK, 3/8"	5	25	NB8130	CLAMP, 3/4"	2
7	NB6110	WASHER, LOCK, 1/4"	2	26	MP380700	BRACKET, PUMP/TANK, ASM.	1
8	NB3350	WASHER, FLAT, 1/4"	8	27	MP382600	SKIRT, STEEL, 21", ASM.	1
9	NB6545	BOLT, HEX, 5/16" X 1"	7	28	MP381700	TANK, 6 GAL., ASM.	1
10	NB9267	WASHER, FLAT, 5/16"	10	29	NB7282	CLAMP, HOSE	1
11	NB3265	NUT, LOCK, 5/16"	6	30	MP4515	TUBING, DRAIN, OIL	18"
12	MP367500	TRAY, BATTERY	1	31	NB1621	PLUG, CAP	1
13	NB001800	BOLT, HEX, 5/16" X 1-1/4"	1	32	MP139600	FELT, BLACK	75"
14	MP362200	BATTERY, 12V	1	33	NB065100	BOLT, HEX, M8 X 25	1
15	MP368100	STRAP, 2" X 23"	3	34	NB064900	SCREW, TH, #10 X 1/2"	1
16	MP392600	PAD, ADAPTER	1	35	NB8125	CLAMP, 1/4"	2
17	MP368600	SOLENOID, ASM.	1	36	MP446300	PAD HOLDER, 21", ASM.	1
18	NB6111	WASHER, LOCK, 5/16"	3	37	MP105900	CYLINDER, LP	1
19	MP192300	SPACER, BEARING	1				

Main Assembly HD



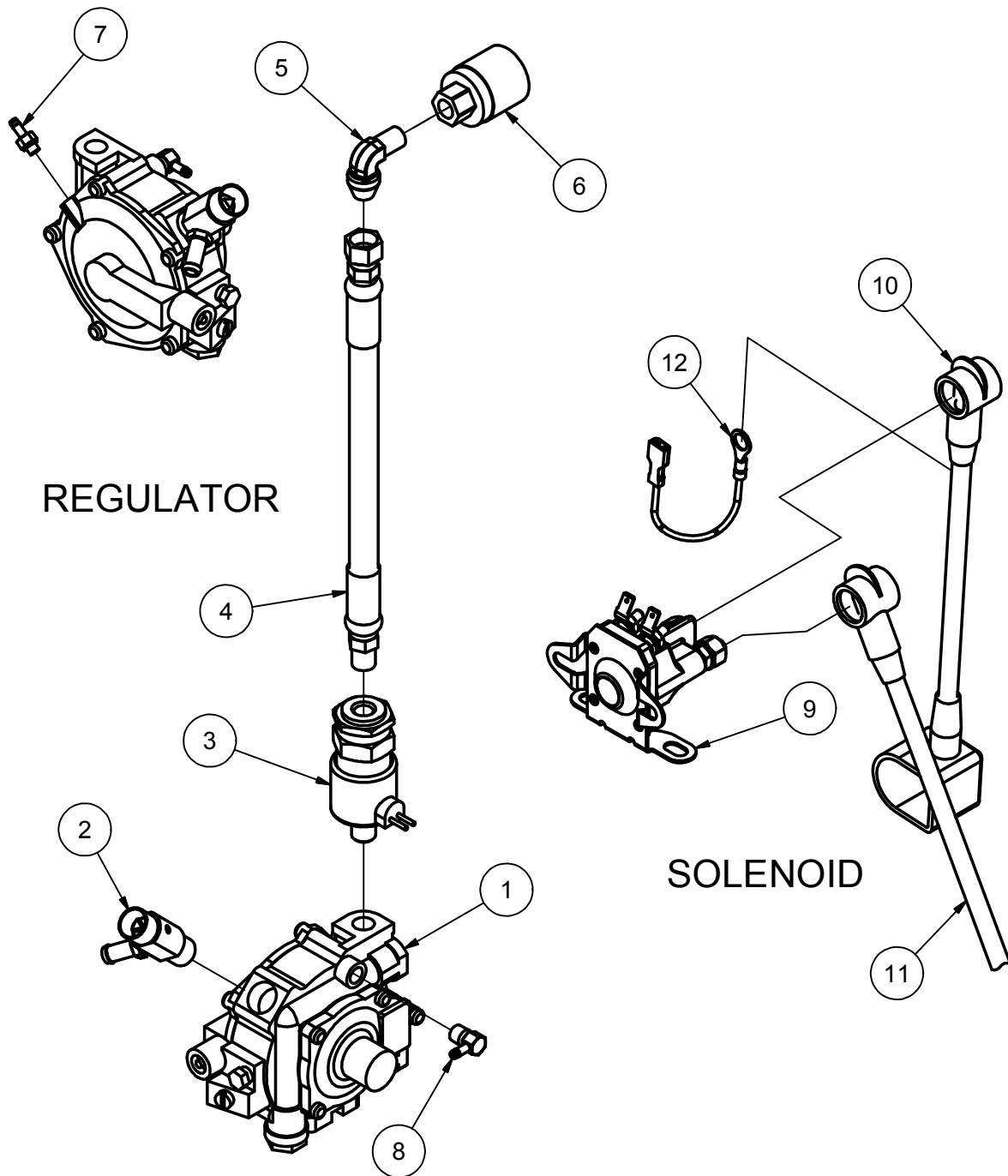
RF048300

112113

Main Assembly HD (continued)

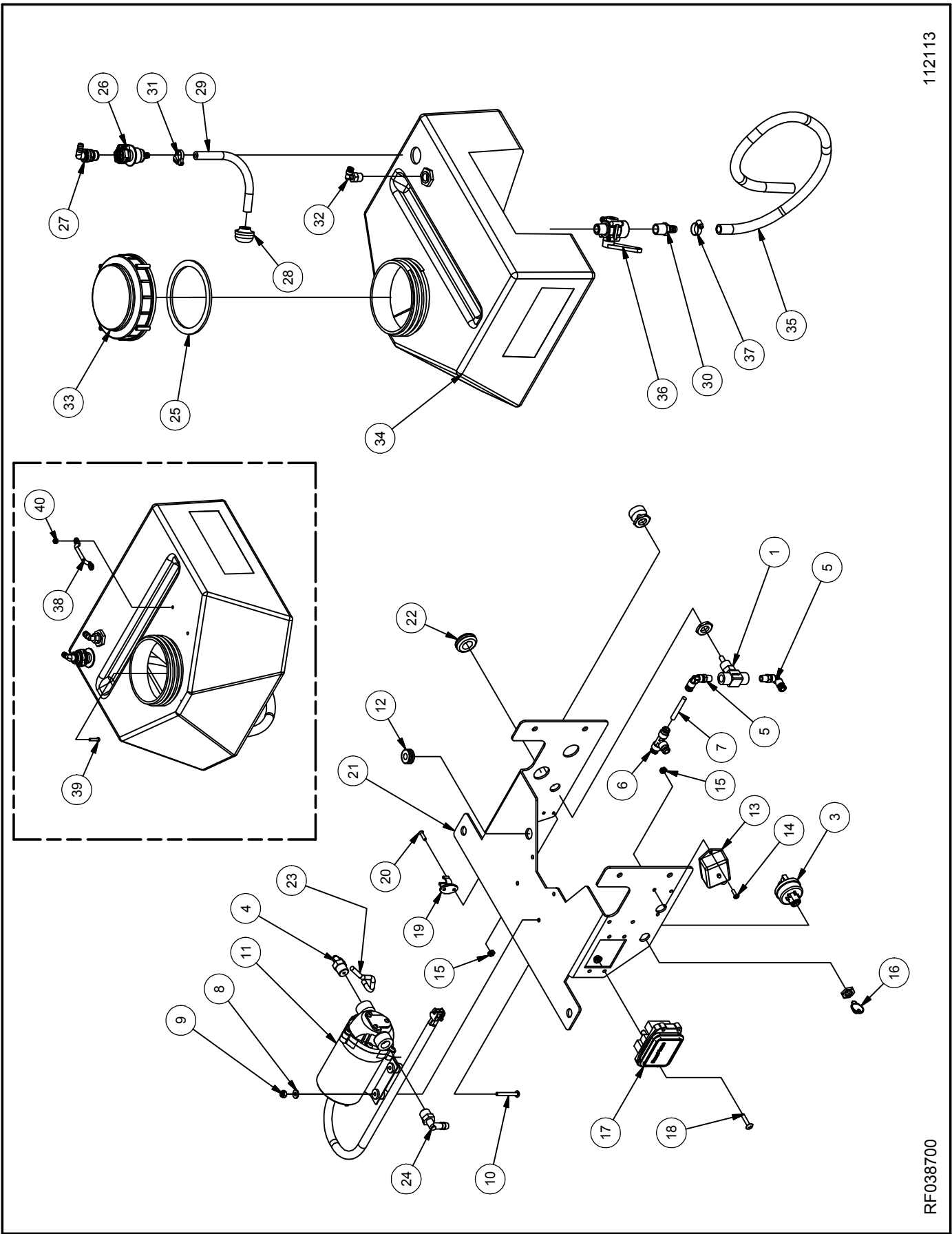
<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	MP381200	HANDLE, w/ CLUTCH, ASM.	1	26	MP380700	BRACKET, PUMP/TANK, ASM.	1
2	MP371800	REGULATOR, ASM.	1	27	MP382600	SKIRT, 21", ASM.	1
3	MP8080	BELT, BX-51	1	28	NB7282	CLAMP, HOSE	3
4	NB6044	BOLT, HEX, 3/8" X 1"	3	29	MP4515	TUBING, DRAIN, OIL	18"
5	MX1075	WASHER, LOCK, 3/8"	3	30	NB1621	PLUG, CAP	1
6	NB5520	BOLT, CARRIAGE, 3/8" X 1-1/4"	5	31	MP139600	FELT, BLACK	75"
7	NB3267	NUT, LOCK, 3/8"	5	32	NB8125	CLAMP, 1/4"	2
8	NB6110	WASHER, LOCK, 1/4"	2	33	MP446300	PAD HOLDER, 21", ASM.	1
9	NB3350	WASHER, FLAT, 1/4"	8	34	NB065100	BOLT, HEX, M8 X 25	1
10	NB6545	BOLT, HEX, 5/16" X 1"	7	35	NB064900	SCREW, #10 X 1/2"	1
11	NB9267	WASHER, FLAT, 5/16"	14	36	MP6600	FELT, VELCRO, BLACK	27"
12	NB3265	NUT, LOCK, 5/16"	6	37	MP392600	PAD, ADAPTER	1
13	MP367500	TRAY, BATTERY	1	38	MG001000	WEIGHT, FLAT, 17LBS	5
14	NB001800	BOLT, HEX, 5/16" X 1-1/4"	1	39	NB3260	NUT, HEX, 5/16"	4
15	MP362200	BATTERY, 12V	1	40	MG006400	ADAPTER, TUBE, VACUUM	1
16	MP368100	STRAP, 2" X 23"	5	41	NB046300	PIN, LYNCH, 1/4" X 1-3/4"	2
17	MP368600	SOLENOID, ASM.	1	42	NB5000	BOLT, CARRIAGE, 5/16" X 1"	4
18	NB6111	WASHER, LOCK, 5/16"	5	43	MP462300	BRACKET, WEIGHT, ASM.	1
19	MP195300	SPACER, BEARING	1	44	MP463200	DRIVER, DIAMOND, 21", ASM.	1
20	NB3450	WASHER, FLAT, 3/8"	10	45	NB057000	SCREW, BH, 1/4" X 1/2"	4
21	NB3275	NUT, LOCK, 1/4"	7	46	MP462900	TANK, 6 GAL., ASM.	1
22	NB6530	BOLT, HEX, 1/4" X 1"	5	47	MP463700	TUBE, DUST, VACUUM	1
23	MP367600	SLIDE, STRAP, 2"	1	48	MP464000	CAP, VINYL	1
24	MP107200	KNOB, HANDLE, ASM.	2	49	MP199900	MOUNT, VIBRATION	1
25	NB8130	CLAMP, 3/4"	2	50	MP462800	INSULATION, HEAT	1

Regulator and Solenoid Assembly



Regulator and Solenoid Assembly (continued)

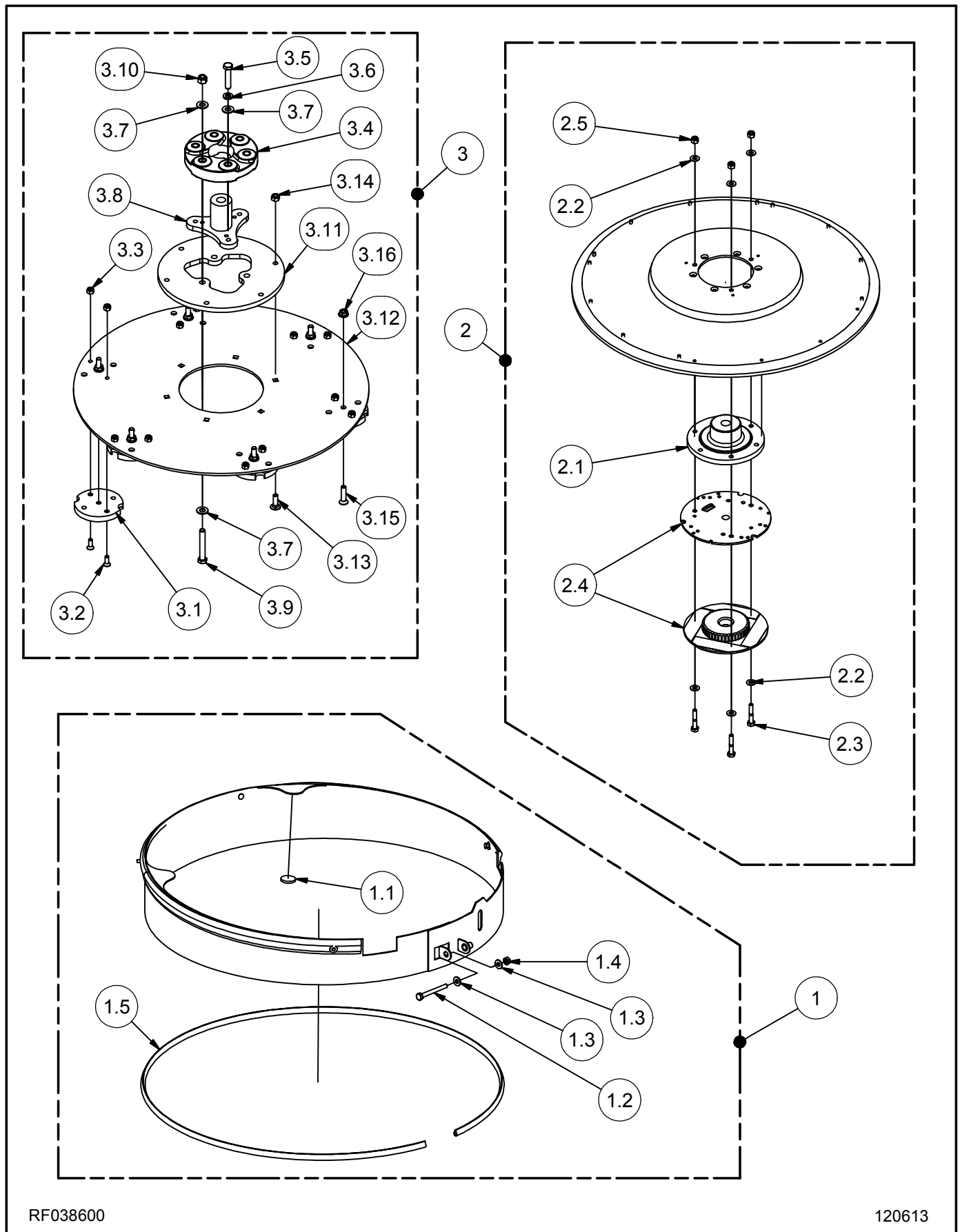
<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	SA026300	REGULATOR, LP	1
2	MP017900	ADJUSTMENT, FUEL, ASM.	1
3	MP317500	FUELOCK, ASM.	1
4	MP367300	HOSE, FUEL, 13"	1
5	MP4330	FITTING, ELBOW	1
6	MP4500	COUPLER, REGO	1
7	MP371100	FITTING, 3/16" HB	1
8	MP372400	FITTING, ELBOW, 1/8"	1
9	MP367100	SOLENOID, STARTER	1
10	MP366700	CABLE, BATTERY, 9"	1
11	MP120900	CABLE, BATTERY, 14"	1
12	MP354900	WIRE, SOLENOID	1



Tank and Controls (continued)

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>	<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	MP331000	VALVE, NEEDLE, 1/8"NPT	1	21	MP379101	BRACKET, TANK/PUMP	1
2	SS900001	LABEL, SWITCH	1	22	NB009900	GROMMET, 11/16" X 1"	1
3	MP199000	SWITCH, IGNITION	1	23	MP184200	TUBING, NYLON, 1/4"	6"
4	MP325900	FITTING, 1/4" NPT, 90°	1	24	MP331300	FITTING, PE, 3/8" NPT, 90°	1
5	MP171000	FITTING, 1/8" NPT, 90°	2	25	MP152800	GASKET, CAP, SCREW	1
6	MP171100	FITTING, UNION TEE	1	26	MP331900	COUPLING, BODY, 3/8"	1
7	MP184200	TUBING, NYLON, 1/4"	1.5"	27	MP332000	COUPLING, INSERT, 3/8"	1
8	NB9645	WASHER, FLAT, #10	4	28	MP332400	STRAINER, SUCTION	1
9	NB9735	NUT, LOCK, #10	4	29	NB2470	HOSE, FUEL, 3/8"	9"
10	NB027500	SCREW, #10 X 1-1/2"	4	30	MP164100	FITTING, PE, 1/2" NPT	1
11	MP380600	PUMP, 12V, ASM.	1	31	NB7282	CLAMP, HOSE	1
12	NB009800	GROMMET, 3/8" X 5/8"	1	32	MP325900	FITTING, 1/4" NPT, 90°	1
13	MP402300	MODULE, ECOSENSE, ASM.	1	33	MP152700	CAP, SCREW, 6"	1
14	NB007400	SCREW, PH, #8 X 1/2"	2	34	MP378000	TANK, SOLUTION, 6 GAL.	1
15	NB9710	NUT, KEPS, #8	4	35	MP178000	TUBING, VINYL, 1/2" ID	3 FT
16	KC4834001	KEY, IGNITION	1	36	MP156100	VALVE, BALL, 1/2"	1
17	MP151800	BLOCK, FUSE	1	37	NB050700	CLAMP, HOSE, 1/2"	1
18	NB5350	SCREW, TH, #10 X 1"	4	38	RV009500	LOOP, FOOTMAN	1
19	MP332100	CLIP, HOSE, 5/8"	1	39	NB049100	SCREW, BH, #10 X 7/8"	2
20	NB9810	SCREW, CS, #8 X 5/8"	2	40	NB9735	NUT, LOCK, #10	2

Skirt, Driver, and Pad Holder



RF038600

120613

Skirt, Driver and Pad Holder (continued)

SKIRT ASSEMBLY

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
1	MP382600	SKIRT, STEEL, 21", ASM.	1
1.1	MP140000	DOT, FELT	2
1.2	NB050600	BOLT, HEX, 1/4" X 2-1/2"	1
1.3	NB3350	WASHER, FLAT, 1/4"	2
1.4	MX1045	NUT, HEX, 1/4"	1
1.5	MP139800	EDGING, WEAR	74"

PAD HOLDER ASSEMBLY

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
2	MP446300	PAD HOLDER, 21", ASM.	1
2.1	MP175900	DISC, FLEXI	1
2.2	NB025400	WASHER, FLAT, 1/4"	6
2.3	NB030500	BOLT, HEX, 1/4" X 1-1/2"	3
2.4	MP383200	RETAINER, PAD	1
2.5	NB3275	NUT, LOCK, 1/4"	3

DRIVER ASSEMBLY

<u>Item</u>	<u>Ref. No.</u>	<u>Description</u>	<u>Qty</u>
3	MP463200	DRIVER, DIAMOND, 21", ASM.	1
3.1	MP463300	HOLDER, LIPPAGE	6
3.2	NB068200	BOLT, CS, 1/4" X 3/4"	12
3.3	NB3275	NUT, LOCK, 1/4"	12
3.4	MP317700	COUPLING, FLEXI	1
3.5	NB024500	BOLT, HEX, 3/8" X 1-3/4"	3
3.6	MX1075	WASHER, LOCK, 3/8"	3
3.7	MX1080	WASHER, FLAT, 3/8"	9
3.8	MP463500	HUB, DRIVE	1
3.9	NB1588	BOLT, HEX, 3/8" X 2-1/2"	3
3.10	NB3267	NUT, LOCK, 3/8"	3
3.11	MP463101	PLATE, ADAPTER, DRIVER	1
3.12	MP463001	PLATE, DRIVER, 21"	1
3.13	NB5000	BOLT, CARRIAGE, 5/16" X 1"	6
3.14	NB3265	NUT, LOCK, 5/16"	6
3.15	NB069100	BOLT, CS, M8 X 35	6
3.16	NB3105	NUT, FLANGE, M8	6