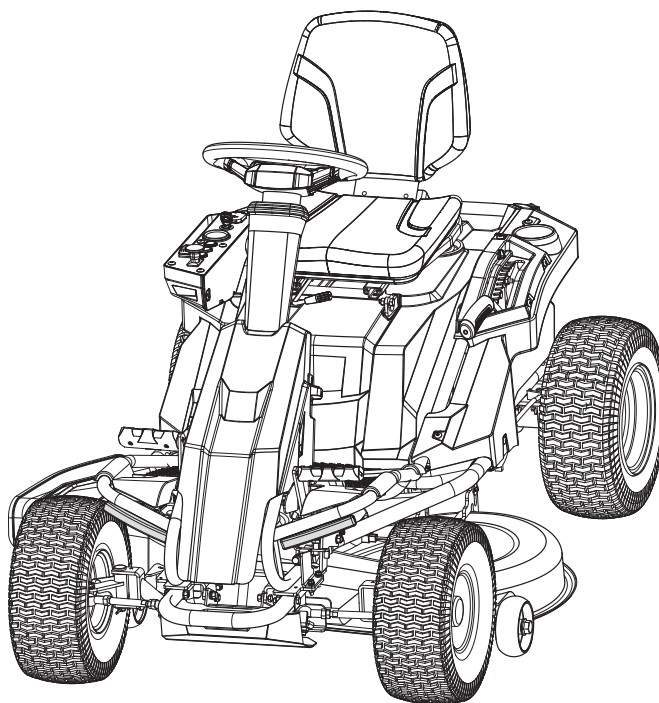


REPLACEMENT PARTS LIST

BRAND		DESCRIPTION
RYOBI		48 Volt 38 in. Riding Lawn Mower
MODEL NO.	MFG. NO.	
RY48110	099749009	
RY48111	099749010	
RY48112	099749011	

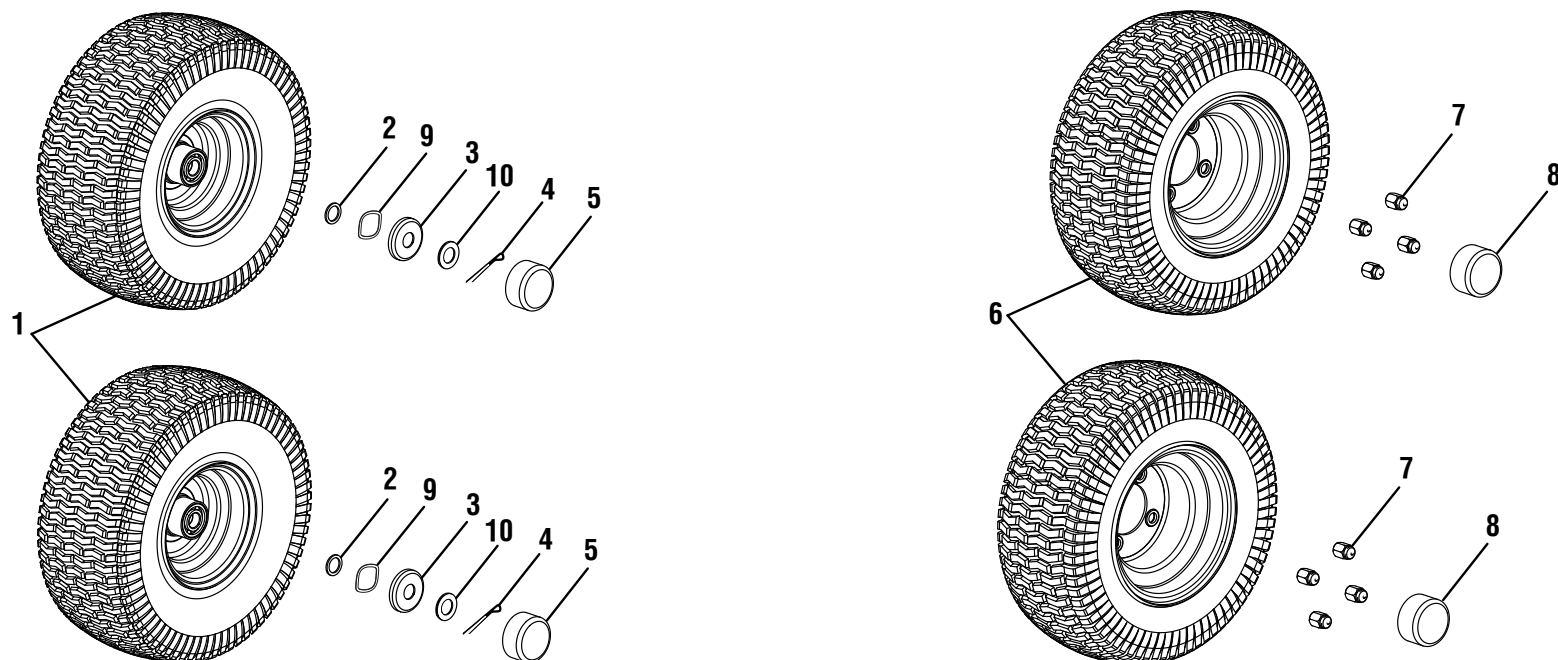


TECHTRONIC INDUSTRIES POWER EQUIPMENT

P.O. Box 1288, Anderson, SC 29622 ■ 1-800-525-2579 ■ www.ryobitools.com

995000548
5-19-23 (Rev:03)

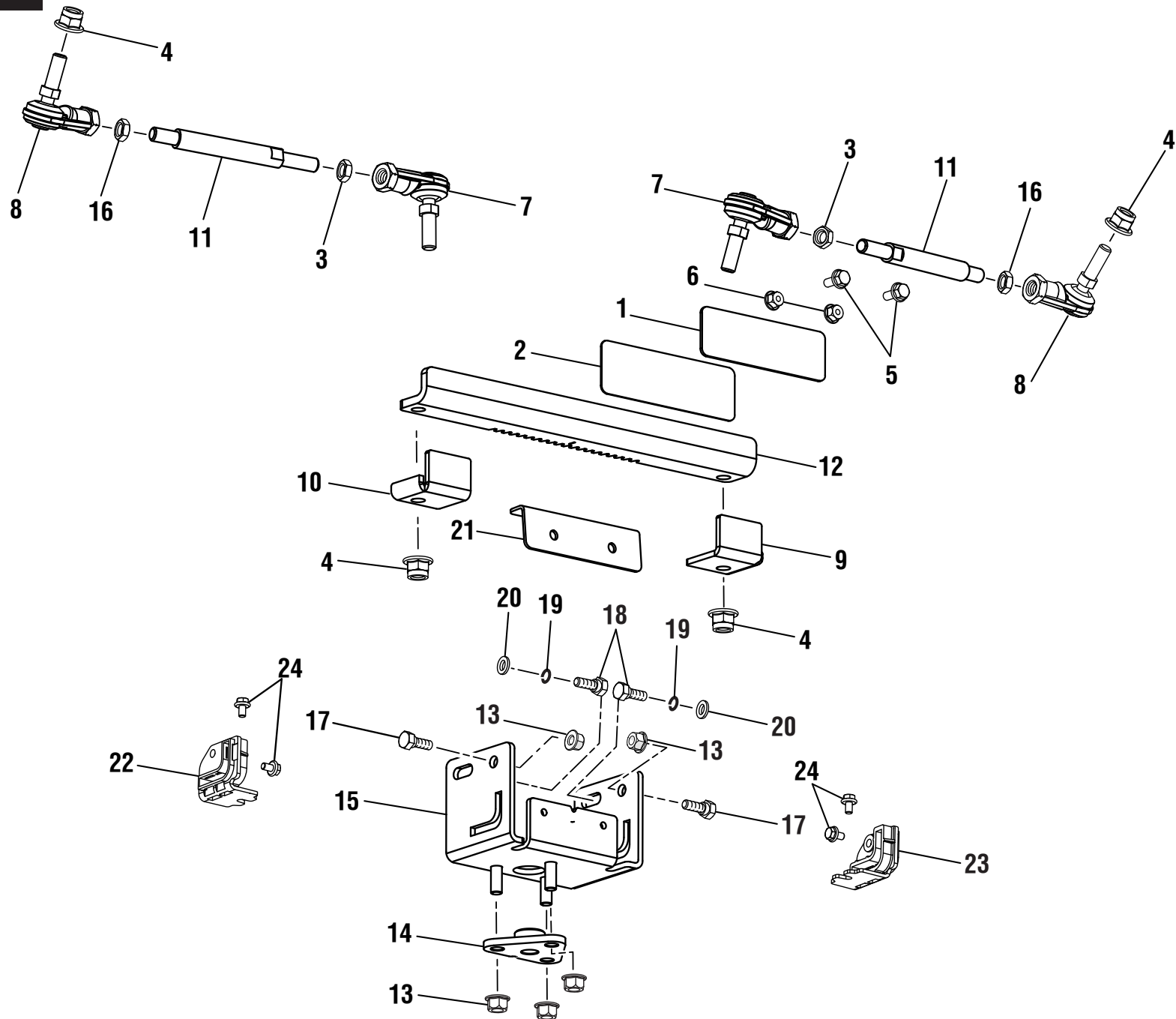
The model number and manufacturing location will be found on a label attached to the product. Always mention this information in all communications regarding this product and when ordering parts.



PARTS LIST — FIGURE A

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994871001	Front Wheel Assembly	2
2	994842001	Washer (OD28 x ID20.5 x 2t)	2
3	994857001	Front Wheel Bearing Cover	2
4	994768001	Cotter Pin (4 x 40 mm)	2
5	996033001	Dust Cover, Front Wheel	2
6	996220001	Rear Wheel Assembly	2

KEY NO.	PART NO.	DESCRIPTION	QTY.
7	996229001	Acorn Nut (M14)	8
8	996029001	Wheel Hub Cover	2
9	996362001	Wavy Washer	2
10	994766001	Washer (OD37 x ID21 x 0.3t)	2
	Not Shown:		
	995000004	Operator's Manual	



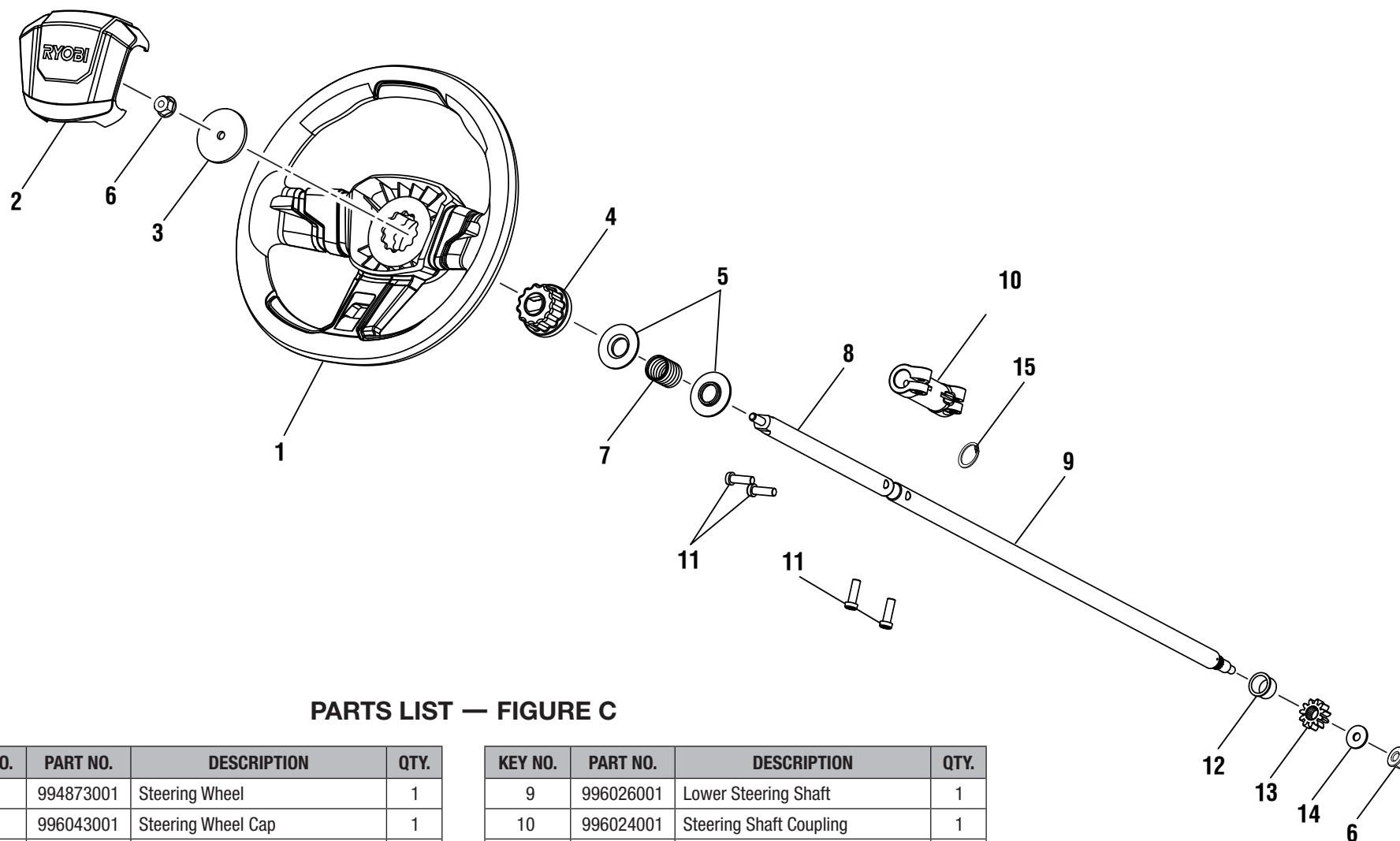


RY48110/RY48111/RY48112

PARTS LIST — FIGURE B

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996503001	Steel Pad	1
2	996502001	Shim Steering Rack	1
3	994836001	Nut (M10)	2
4	996249001	Flange Lock Nut (M10 x 1.25 mm)	4
5	996247001	Flange Bolt (M6 x 14 mm, Hex Hd.)	2
6	994792001	Flange Nut (M6)	2
7	996245001	Rod End	2
8	996246001	Rod End 2	2
9	996222001	Left Rack Limiter	1
10	996223001	Right Rack Limiter	1
11	994866001	Tie Rod	2
12	996221001	Steering Rack	1

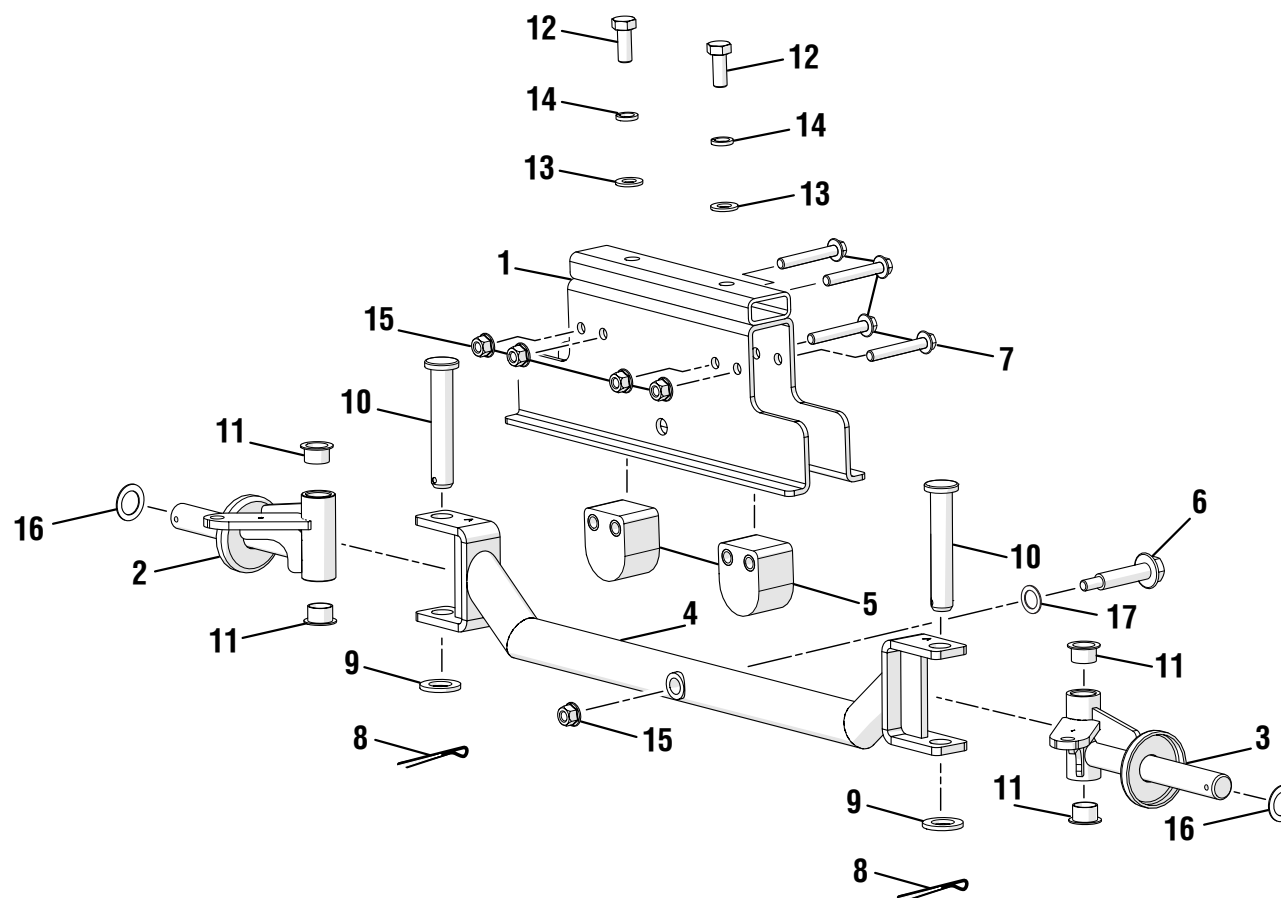
KEY NO.	PART NO.	DESCRIPTION	QTY.
13	994867001	Flange Nut (M8)	5
14	994863001	Steering Shaft Seat	1
15	996501001	Seat Bracket	1
16	996343001	Hex Nut (M10 x 1.25 mm, Left Hand)	2
17	996255001	Hex Bolt (M8 x 25 mm)	2
18	996046001	Bolt (M8 x 25 mm, Hex Hd.)	2
19	994770001	Lock Washer (M8)	2
20	994771001	Washer (M8)	2
21	996354001	Rack Shim Limiter	1
22	996504001	Rack Bushing (Right)	1
23	996505001	Rack Bushing (Left)	1
24	996520001	Bolt (M5 x 8 mm, Hex Flange Hd.)	4



PARTS LIST — FIGURE C

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994873001	Steering Wheel	1
2	996043001	Steering Wheel Cap	1
3	994899001	Washer Plate	1
4	994898001	Spline Collar	1
5	996031001	Spring Seat	2
6	994867001	Flange Lock Nut (M8)	2
7	996032001	Steering Shaft Spring	1
8	996027001	Upper Steering Shaft	1

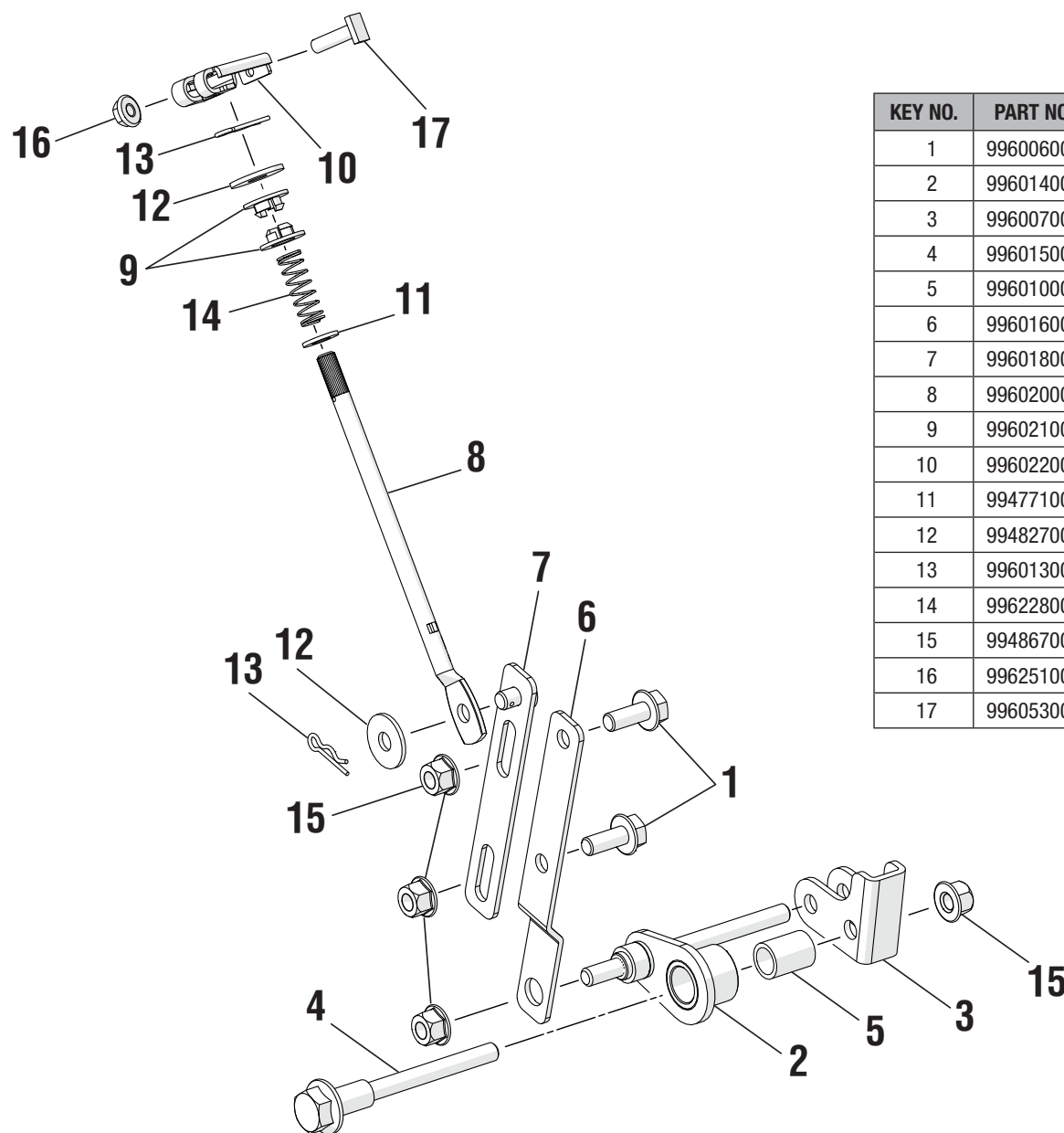
KEY NO.	PART NO.	DESCRIPTION	QTY.
9	996026001	Lower Steering Shaft	1
10	996024001	Steering Shaft Coupling	1
11	996025001	Screw (M8 x 25 mm, Soc. Hd.)	4
12	994860001	Flanged Bushing (19 x 22 x 15)	1
13	996225001	Steering Pinion Gear	1
14	994827001	Washer (OD24 x ID8.4 x 2t)	1
15	996359001	Retaining Ring	1



PARTS LIST — FIGURE D

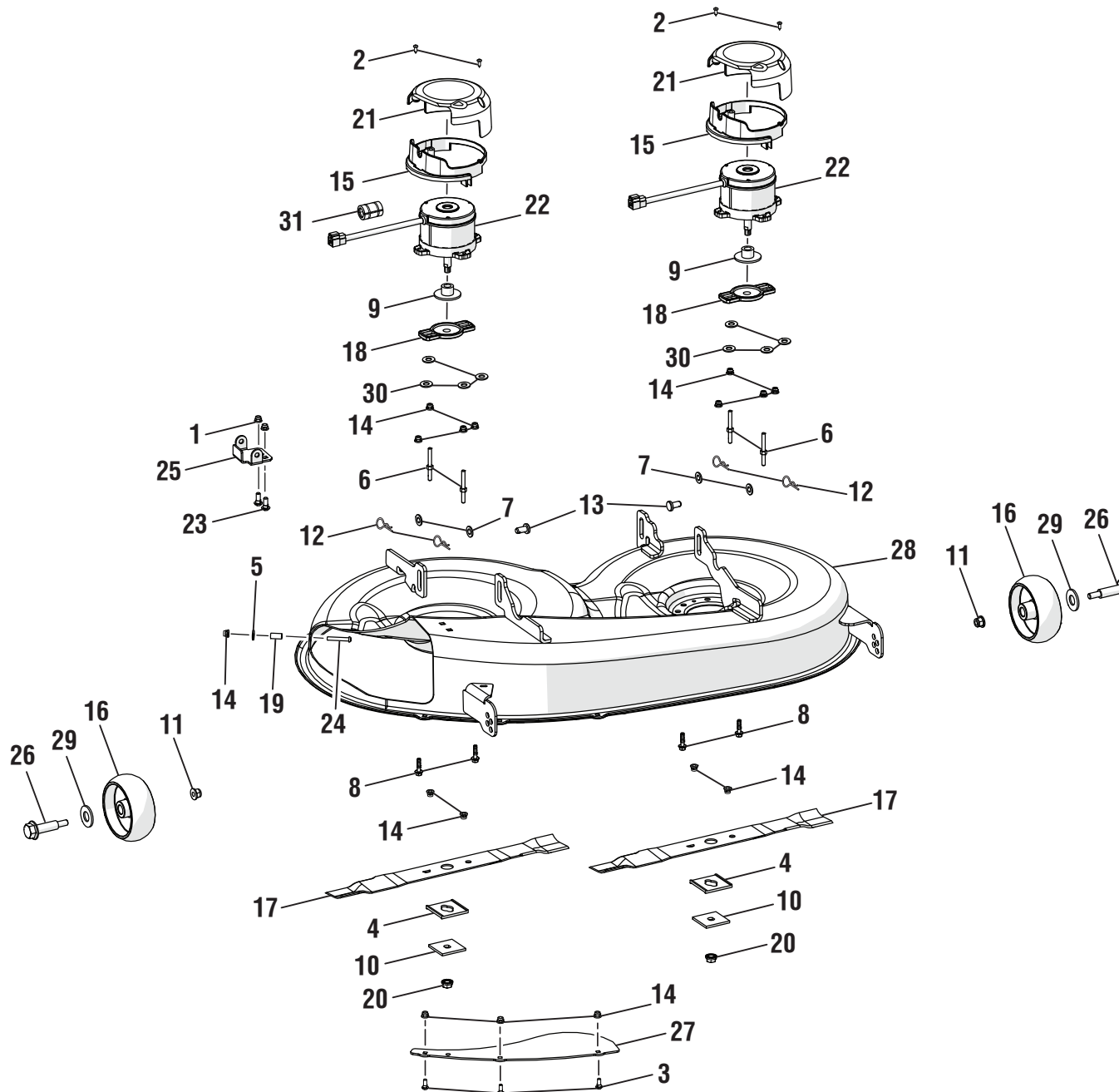
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994864001	Front Axle Channel Plate w/Brackets	1
2	994835001	Right Steering Knuckle	1
3	994834001	Left Steering Knuckle	1
4	994826001	Front Axle	1
5	996496001	Front Axle Rubber Bumper Assembly	2
6	994789001	Shoulder Bolt (M8 x 60 mm, Flange Hex Hd.)	1
7	996237001	Bolt (M8 x 55 mm, Flange Hex Hd.)	4
8	994768001	Cotter Pin (4 x 40)	2
9	994763001	Washer (OD30 x ID17 x 3t)	2

KEY NO.	PART NO.	DESCRIPTION	QTY.
10	994778001	Steering Knuckle Anchor	2
11	994865001	Steering Knuckle Bushing	4
12	996323001	Bolt (M10 x 45 mm, Hex Hd.)	2
13	994996001	Washer (OD20 x ID10.5 x 2t)	2
14	994998001	Lock Washer (M10)	2
15	994867001	Flange Nut (M8)	5
16	994842001	Washer (OD28 x ID20.5 x 2t)	2
17	994891001	Washer (OD24 x ID13 x 2.5t)	1



PARTS LIST — FIGURE E

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996006001	Flange Bolt (M8 x 20 mm, Hex Hd.)	2
2	996014001	Pivot Bracket	1
3	996007001	Limiter	1
4	996015001	Center Step Bolt	1
5	996010001	Nylon Sleeve	1
6	996016001	Lower Connecting Plate	1
7	996018001	Upper Connecting Plate Assembly	1
8	996020001	Upper Rod	1
9	996021001	Spring Capture Bushing, Nylon	2
10	996022001	Lever Bracket	1
11	994771001	Washer (OD16 x ID8.4 x 1.6t)	1
12	994827001	Washer (OD24 x ID8.4 x 2t)	2
13	996013001	Cotter Pin (8 mm)	2
14	996228001	Compression Spring	1
15	994867001	Flange Nut (M8)	4
16	996251001	Flange Nut (M6)	1
17	996053001	Screw (M6 x 22 mm, Rectangle Hd.)	1



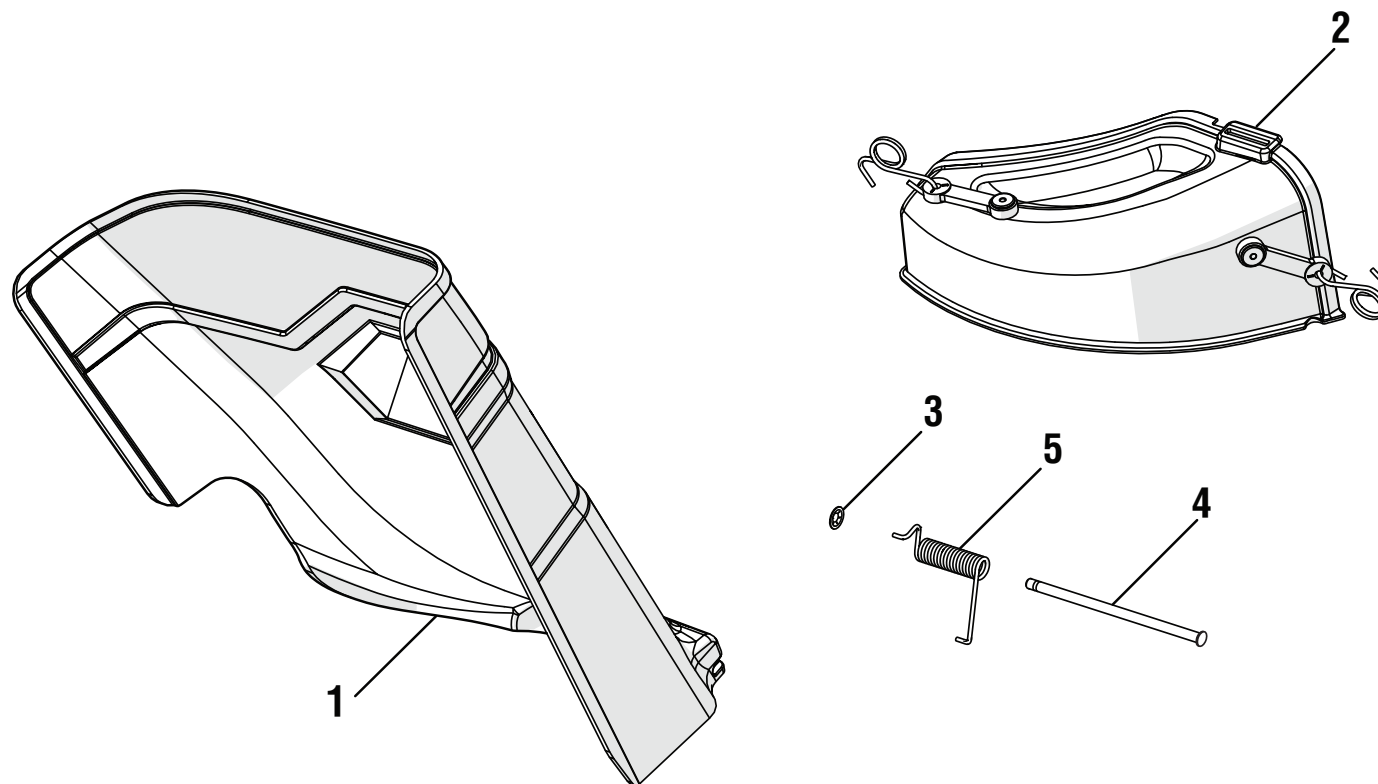


RY48110/RY48111/RY48112

PARTS LIST — FIGURE F

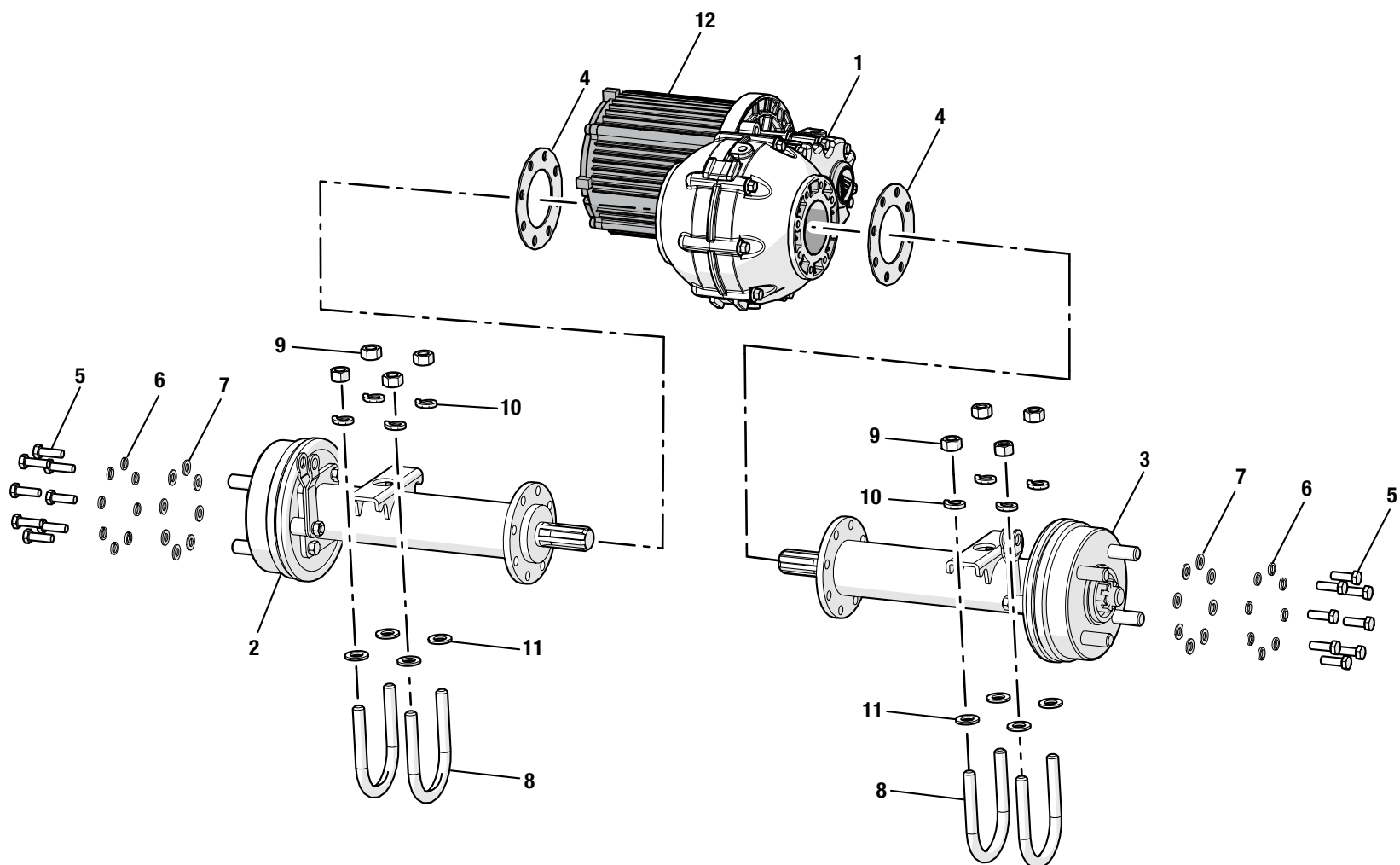
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994867001	Flange Nut (M8 x 1.25)	2
2	996291001	Screw (M4.2 x 13 mm)	4
3	994791001	Carriage Bolt (M6 x 16 mm)	3
4	996259001	Blade Spacer	2
5	996034001	Washer (OD18 x ID6.4 x 1.6t)	1
6	996201001	Threaded Stud (M6 x 35 mm)	4
7	994996001	Washer (OD20 x ID10.5 x 2t)	4
8	996057001	Flange Bolt (M6 x 25 mm, Hex Hd.)	4
9	996258001	Motor Axle Bushing	2
10	996257001	Metal Blade Retainer	2
11	996192001	Lock Nut (M10 x 1.5 mm)	2
12	996356001	Cotter Pin (10 mm)	4
13	996262001	Lifting Plate Pin	2
14	996251001	Flange Lock Nut (M6 x 1.00)	16
15	994903001	Motor Cover	2
16	996265001	Front Deck Roller Wheel (124.5 Dia.)	2

KEY NO.	PART NO.	DESCRIPTION	QTY.
17	996516001	Mulching Blade	2
18	996256001	Blade Holder	2
19	996039001	Deck Bagger Chute Mounting Shaft	1
20	996261001	Flange Lock Nut (M10 x 1.25)	2
21	994908001	Motor Cover Cap	2
22	996260001	Deck Motor	2
23	996050001	Carriage Bolt (M8 x 20 mm)	2
24	996250001	Screw (M6 x 40, Soc Hd.)	1
25	994904001	Mounting Mulch Door Bracket	1
26	996205001	Shoulder Bolt (M10 x 70 mm)	2
27	994868001	Butterfly Bracket	1
28	996235001	Mower Deck w/Brackets	1
29	996355001	Spring Washer (OD20.5 x ID17 x 0.3t)	2
30	996594001	Washer (OD18 x ID6.4 x 3t)	8
31	996561001	Magnetism Ring	1



PARTS LIST — FIGURE G

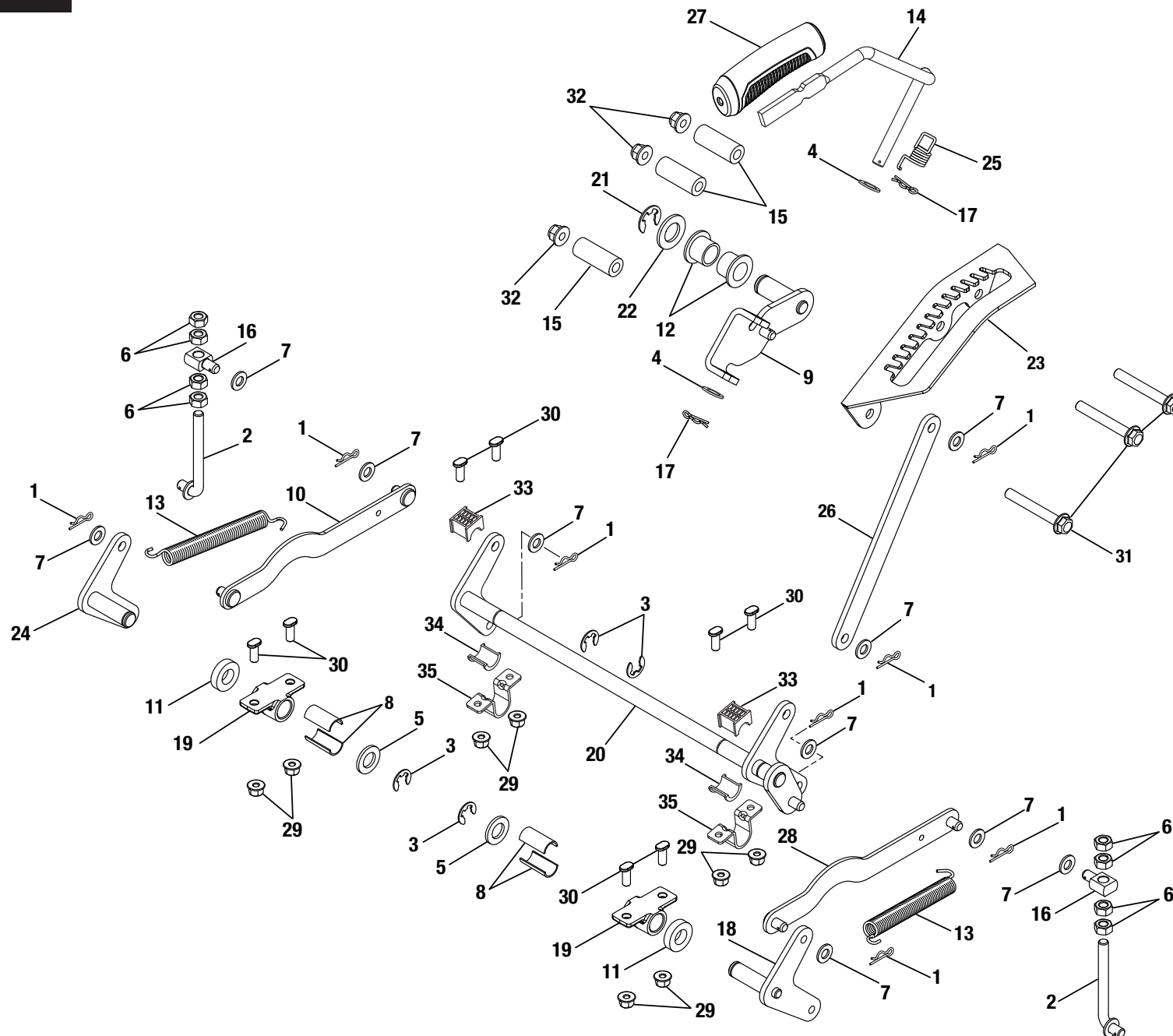
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994906001	Grass Deflector	1
2	996242001	Mulch Cover Kit	1
3	996292001	Retainer Clip	1
4	994981001	Hinge Pin (7.7 x 167.35)	1
5	994980001	Torsion Spring (19 x 62 x 3.02t)	1



PARTS LIST — FIGURE H

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994920001	Transaxle (Inc. Key No. 12)	1
2	994801001	Left Rear Axle	1
3	994800001	Right Rear Axle	1
4	996045001	Transmission Gasket	2
5	996046001	Bolt (M8 x 25 mm)	16
6	994770001	Lock Washer (8 mm)	16

KEY NO.	PART NO.	DESCRIPTION	QTY.
7	994771001	Washer (OD16 x ID8.4 x 1.6t)	16
8	994809001	U-Bolt	4
9	994788001	Hex Nut (M12 x 1.75 mm)	8
10	996062001	Spring Washer (OD20 x ID12.4 x 2t)	8
11	994891001	Washer (OD24 x ID13 x 2.5t)	8
12	997913001	Drive Motor Assembly (MOTOR ONLY)	1



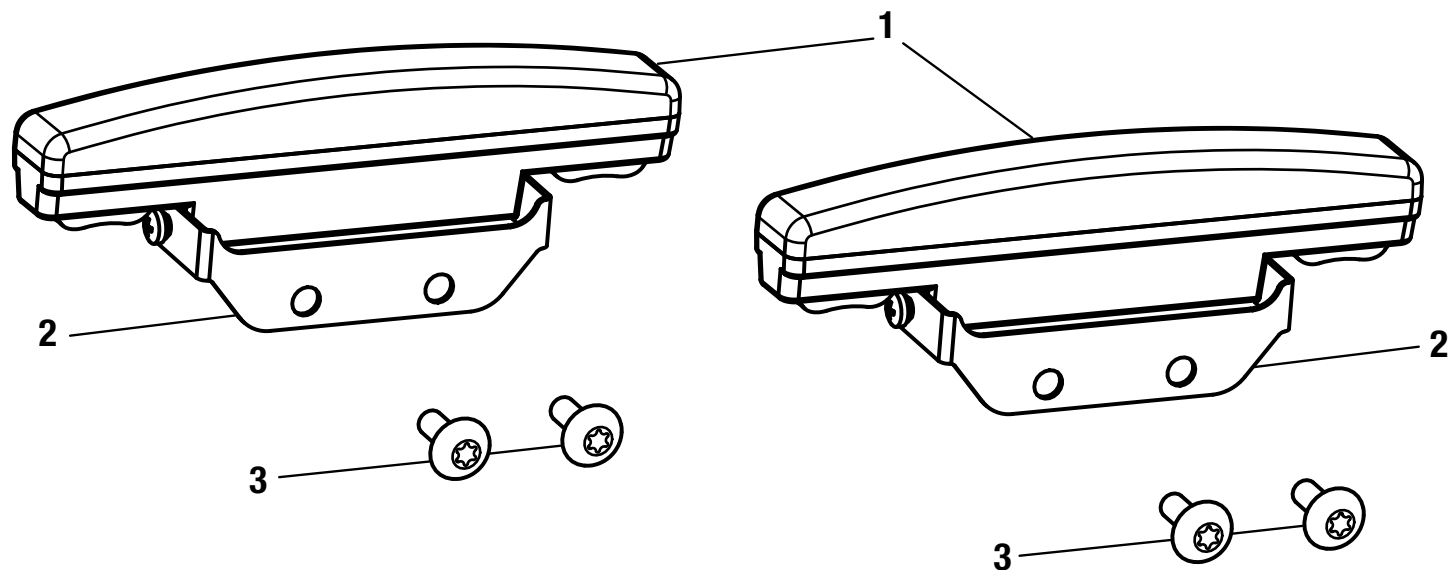


RY48110/RY48111/RY48112

PARTS LIST — FIGURE I

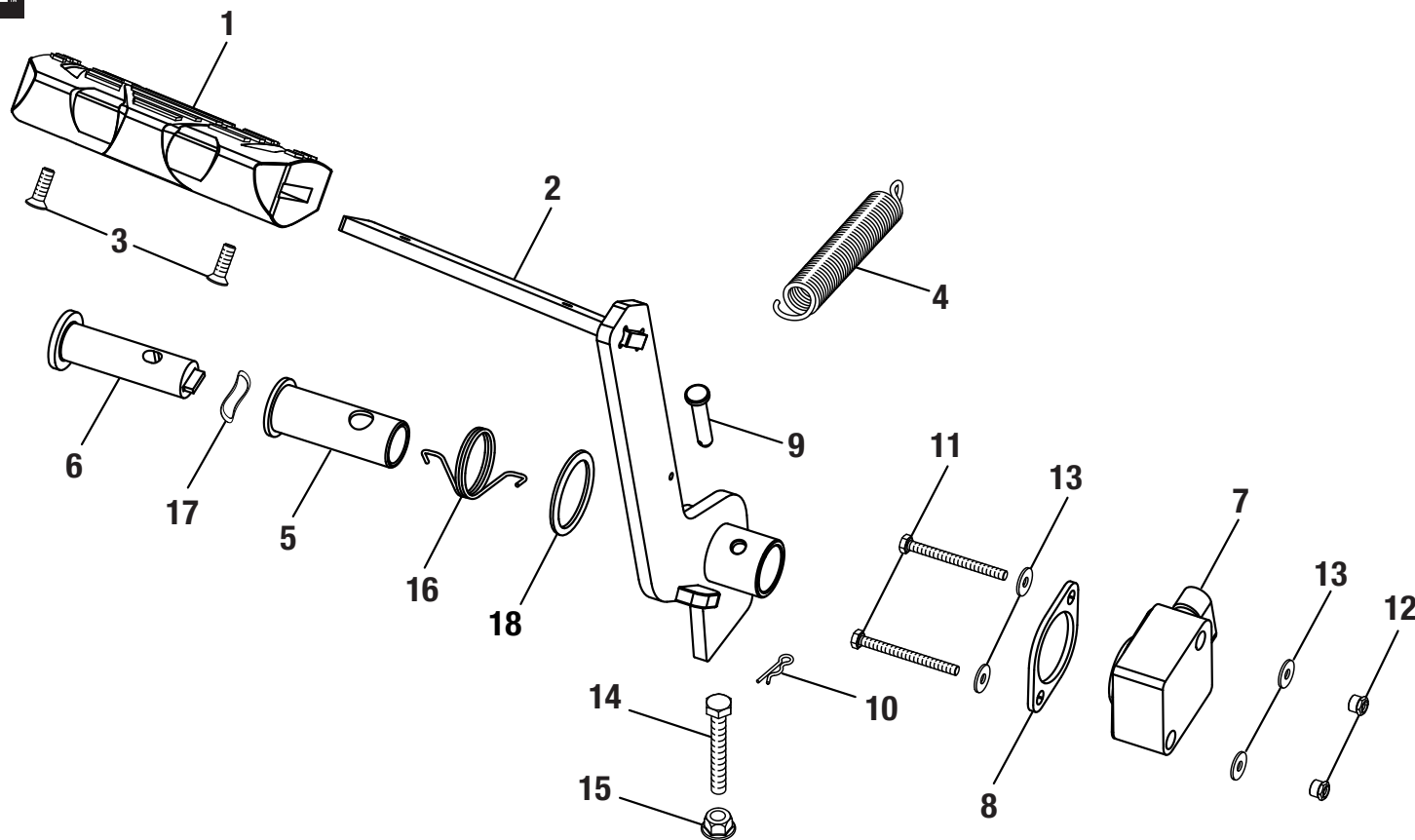
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996264001	Cotter Pin (10 mm)	8
2	994829001	Hanger Stud	2
3	994833001	E-Ring Clip (12 mm)	4
4	994891001	Washer (OD24 x ID13 x 2.5t)	2
5	994763001	Washer (OD30 x ID17 x 3t)	2
6	996263001	Nut (M10)	8
7	994996001	Washer (OD20 x ID10.5 x 2t)	10
8	994846001	Half Bushing Sleeve	4
9	996200001	Deck Lift Pivot Assembly	1
10	996198001	Right Linkage Assembly	1
11	996517001	Deck Lift Spacer	2
12	996004001	Pivot Plastic Sleeve	2
13	994911001	Tension Spring (Deck)	2
14	994885001	Lever Rod	1
15	996226001	Spacer (10.5 x 20 x 51)	3
16	994828001	Hanger Stud Mount	2
17	994892001	Cotter Pin (12 mm)	2
18	996196001	Front Lifting Axle, Left	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
19	994845001	Frame Mount Hanger Bracket	2
20	996199001	Rear Lifting Axle	1
21	996267001	E-Ring Clip (15 mm)	1
22	994766001	Washer (OD37 x ID21 x 3t)	1
23	994921001	Detent Plate (4 mm)	1
24	996195001	Front Lifting Axle, Right	1
25	994888001	Torsion Spring	1
26	994887001	Deck Lift Lever Double Link	1
27	994972001	Decklift Handle	1
28	996197001	Linkage Assembly, Left	1
29	994867001	Flange Nut (M8)	8
30	996219001	Bolt (M8 x 25 mm, Flush Mount)	8
31	996253001	Flange Bolt (M10 x 75 mm, Hex Hd.)	3
32	996192001	Lock Nut (M10 x 1.5 mm)	3
33	099749009037	Top Axle Bushing	2
34	099749009038	Bottom Axle Bushing	2
35	099749009039	Frame Mount Hanger Bracket	2



PARTS LIST — FIGURE J

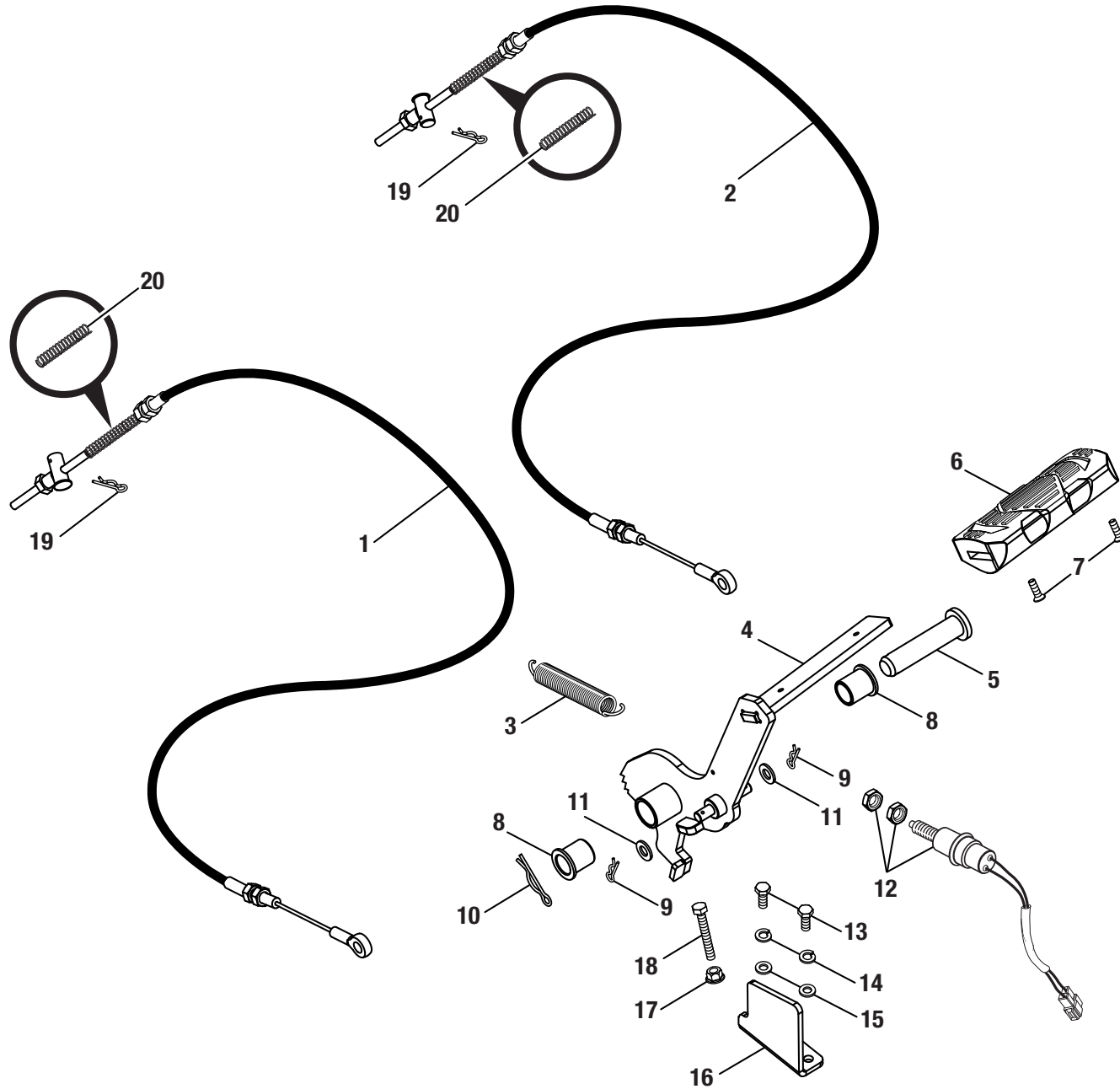
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994957001	Light Assembly (Inc. Key Nos. 2)	2
2	996028001	Bracket (Bracket Only)	2
3	994989001	Screw (M6 x 16, Torx. Pan Hd.)	4



PARTS LIST — FIGURE K

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994931001	Brake Pedal	1
2	996500001	Acceleration Pedal	1
3	994937001	Screw (M5 x 16 mm, Flat Hd.)	2
4	994838001	Pedal Spring	1
5	994848001	Accelerator Axle Bushing	1
6	994847001	Accelerator Axle	1
7	996499001	Speed Control Switch	1
8	994858001	Control Switch Mounting Bracket	1
9	994769001	Clevis Pin (6 x 30 mm)	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
10	996293001	Cotter Pin (6 mm)	1
11	996254001	Bolt (M4 x 45 mm, Hex Hd.)	2
12	996301001	Nut (M4 x 0.7, Lock)	2
13	996294001	Washer (OD12 x ID4.3 x 1t)	4
14	996061001	Bolt (M6 x 45 mm, Hex Hd.)	1
15	994792001	Flange Nut (M6)	1
16	996365001	Torsion Spring	1
17	996355001	Wavy Washer	1
18	996523001	Adjusting Shim Kit	1



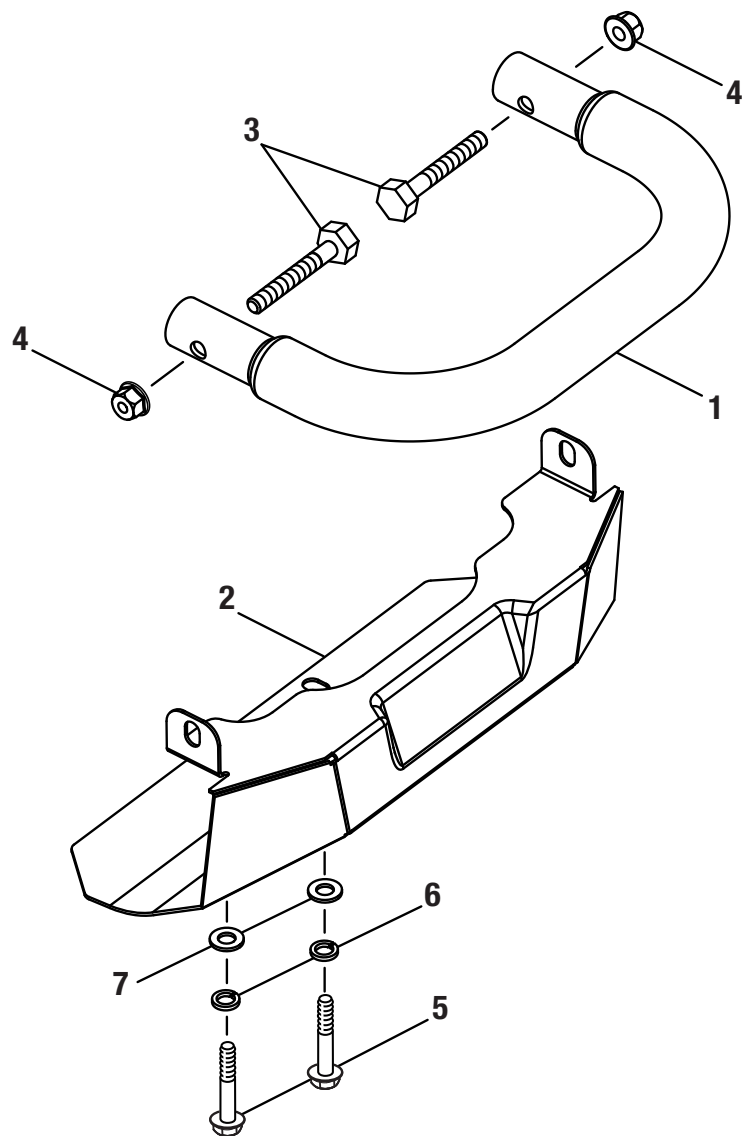


RY48110/RY48111/RY48112

PARTS LIST — FIGURE L

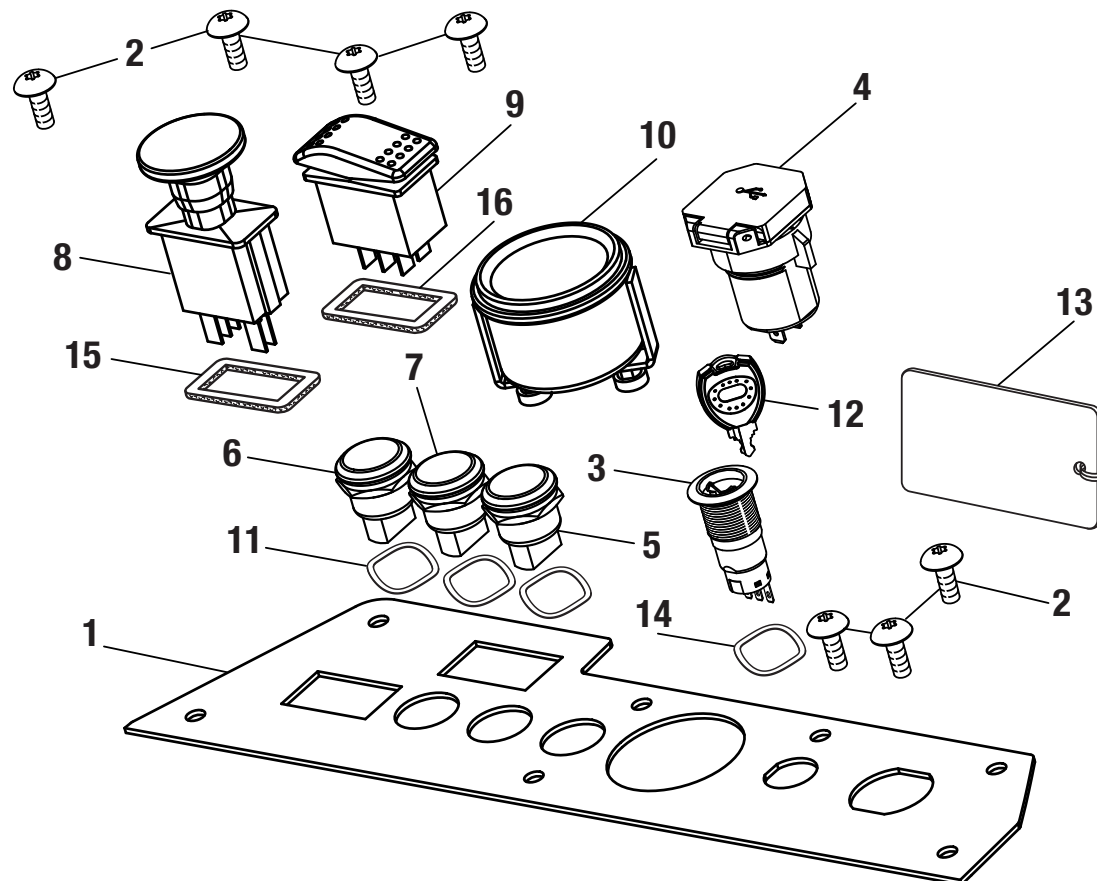
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996000001	Right Brake Cable	1
2	994999001	Left Brake Cable	1
3	994838001	Pedal Spring	1
4	994927001	Lever	1
5	994929001	Clevis Pin	1
6	994931001	Brake Pedal	1
7	994937001	Screw (M5 x 16 mm, Flat Hd.)	2
8	994928001	Bushing	2
9	996013001	Lock Pin (8 mm)	2
10	994930001	Lock Pin (16 mm)	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
11	994771001	Washer (OD16 x ID8.4 x 1.6t)	2
12	994837001	Brake Switch Assembly	1
13	996282001	Bolt (M6 x 16 mm, Hex Hd.)	2
14	996058001	Spring Washer (M6)	2
15	996281001	Washer (OD12 x ID6.4 x 1.6t)	2
16	996206001	Brake Switch Guard	1
17	994792001	Flange Nut (M6)	1
18	996061001	Bolt (M6 x 45 mm, Hex Hd.)	1
19	994892001	Lock Pin	2
20	996559001	Compression Spring	2



PARTS LIST — FIGURE M

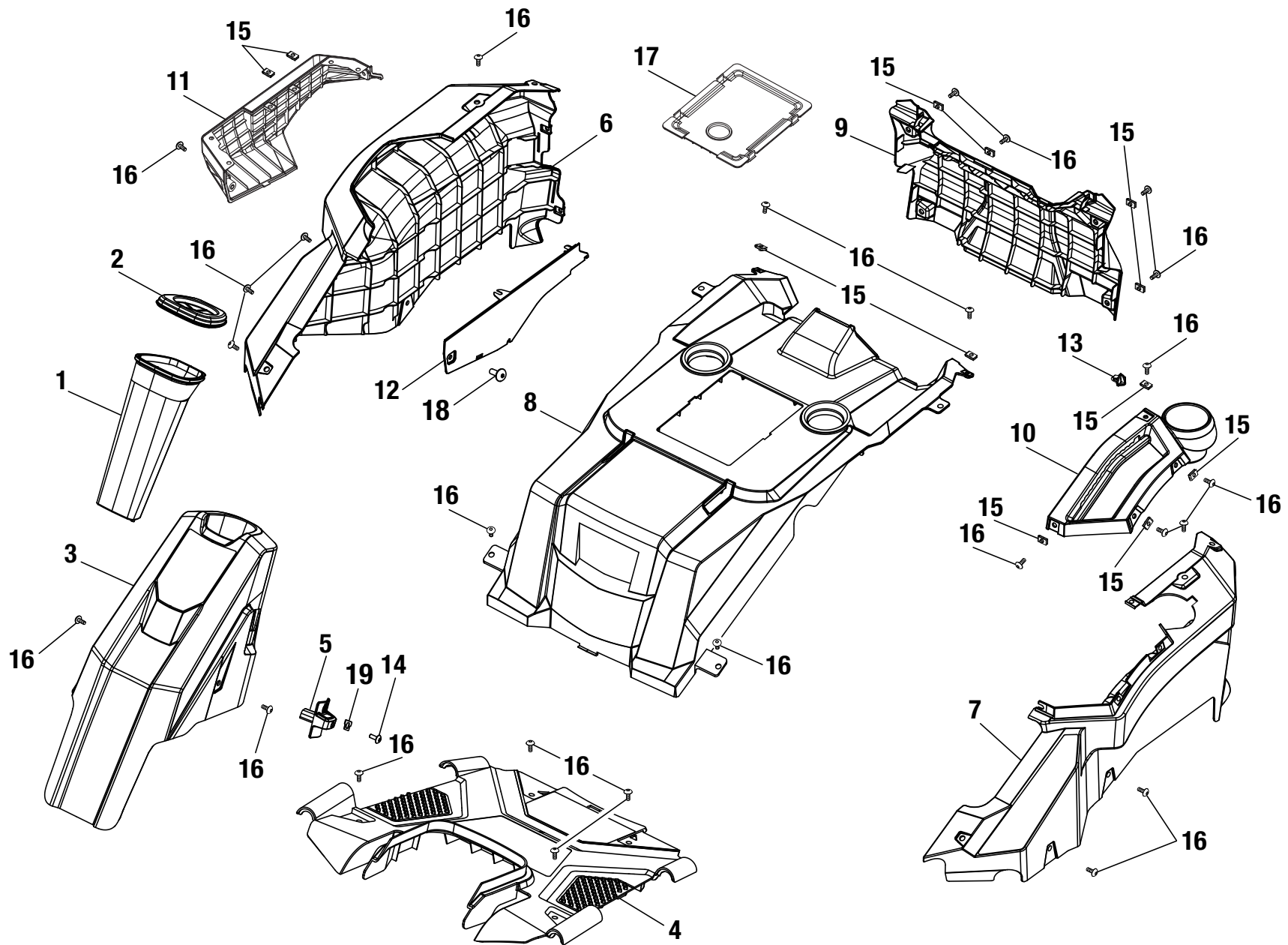
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994894001	Mower Bumper Tube	1
2	996023001	Front Bumper Cover	1
3	996289001	Shoulder Bolt (M8 x 50 mm)	2
4	994867001	Lock Nut (M8 x 1.25)	2
5	994795001	Shoulder Bolt (M8 x 45 mm, Hex Flange Hd.)	2
6	994770001	Lock Washer (8 mm)	2
7	994771001	Washer (OD16 x ID8.4 x 1.6t)	2



PARTS LIST — FIGURE N

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994961001	Face Plate	1
2	994989001	Screw (M6 x 10 mm, Soc. Button Hd.)	7
3	994964001	Switch Key Module	1
4	994963001	USB Module	1
5	994966001	Light Switch	1
6	994968001	Cruise Button	1
7	994967001	Reverse Mow Operation Button	1
8	994970001	Power Take Off Button (PTO)	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
9	994969001	Toggle Switch	1
10	994965001	Gauge Module	1
11	996361001	Wavy Washer	3
12	996049001	Key	1
13	996288001	Warning Tag	1
14	996362001	Wavy Washer	1
15	996345001	Rubber Gasket	1
16	996344001	Gasket	1



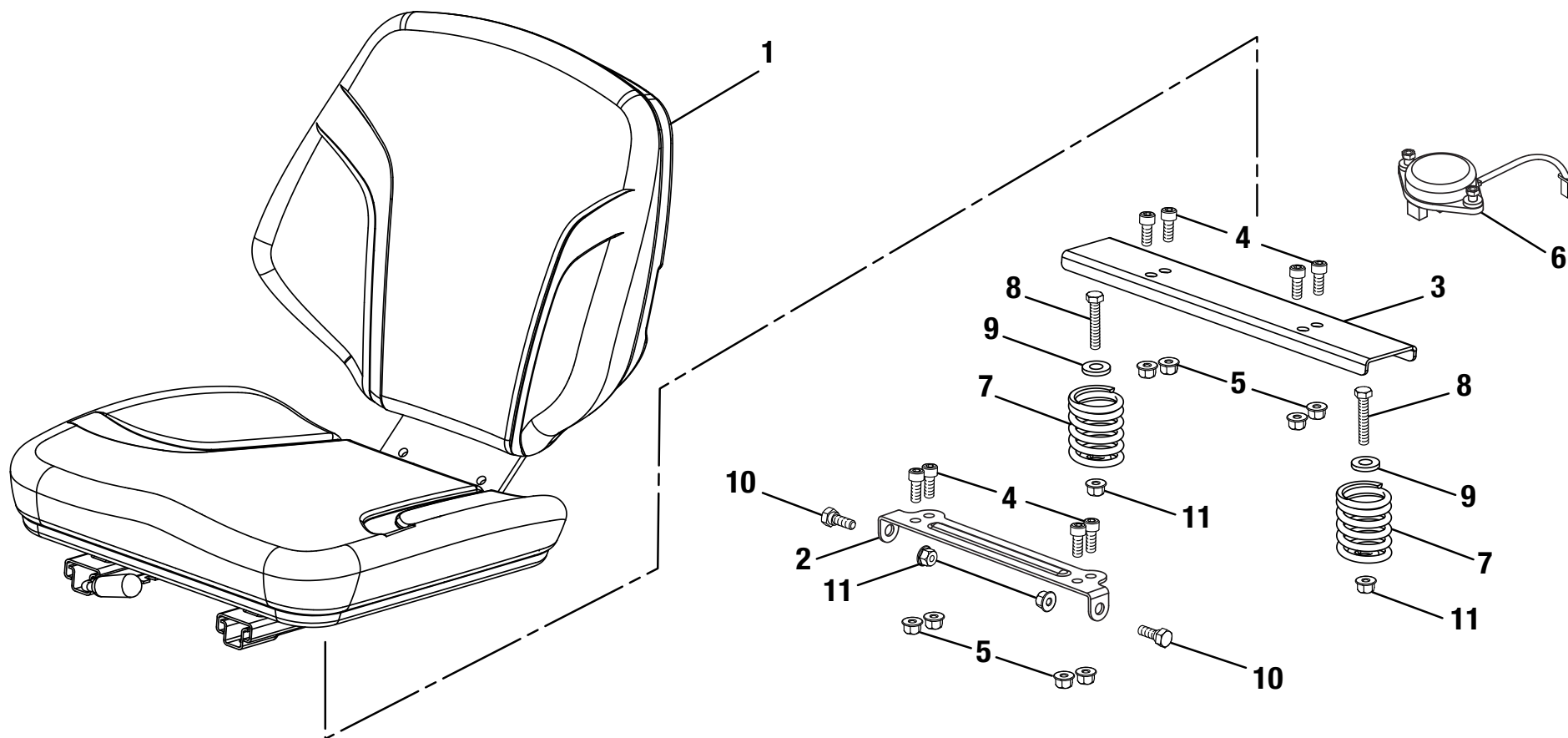


RY48110/RY48111/RY48112

PARTS LIST — FIGURE O

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	994901001	Upper Steering Column	1
2	994902001	Steering Column Cover	1
3	994883001	Lower Steering Column	1
4	994876001	Floor Pan	1
5	994910001	Parking Brake Lever	1
6	994879001	Right Fender Housing	1
7	994880001	Left Fender Housing	1
8	994907001	Seat Pan	1
9	994895001	Rear Mover Cover	1
10	994900001	Deck Lift Console	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
11	994882001	Console	1
12	994786001	Rear Console Cover	1
13	994958001	Indicator Flag	1
14	996297001	Screw (M4 x 10 mm, Pan Hd.)	1
15	994785001	Clip-On Nut (M6)	12
16	994989001	Screw (M6 x 16 mm, Torx Soc. Hd.)	26
17	996002001	Battery Access Cap	1
18	996291001	Screw (ST4.2 x 13 mm)	1
19	996524001	Adjusting Washer	1



PARTS LIST — FIGURE P

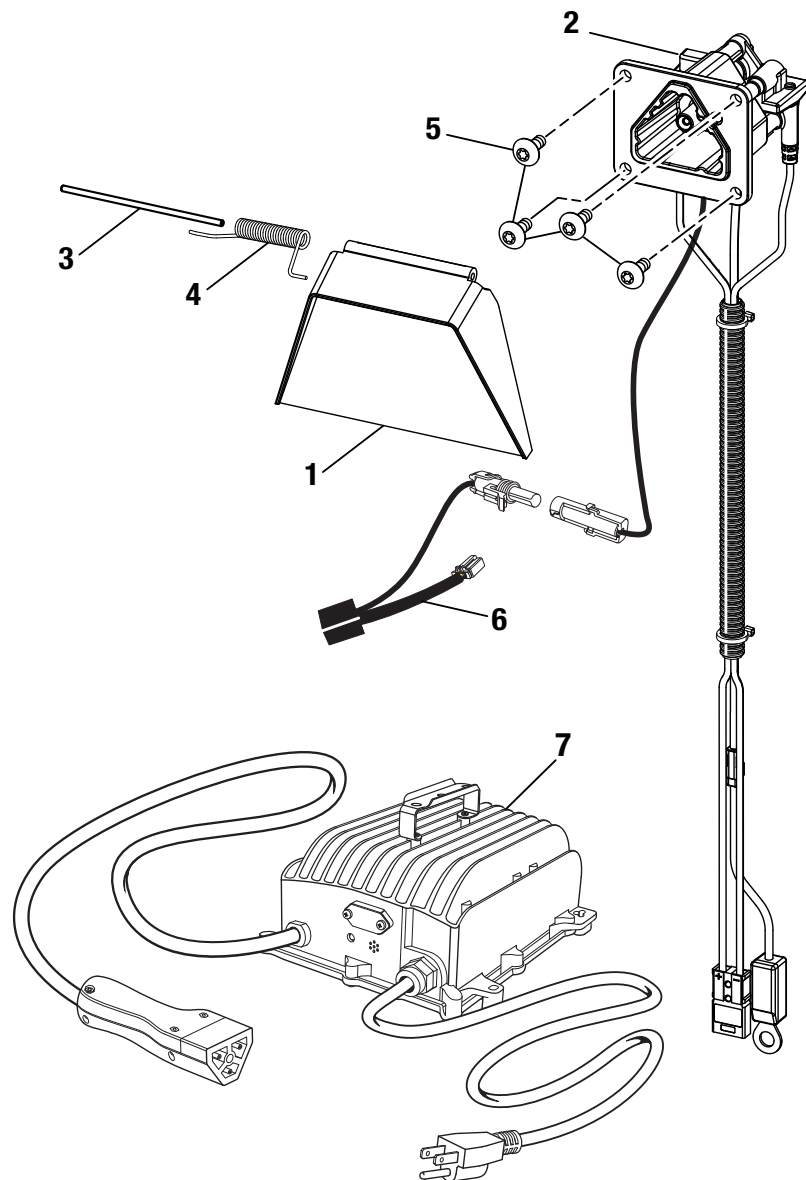
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996274001	P6 Seat	1
2	996275001	Seat Base Plate	1
3	996276001	Seat Base Plate, Rear	1
4	996302001	Screw (M8 x 16 mm)	8
5	996525001	Lock Nut (M8)	8
6	996277001	Seat Switch	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
7	994839001	Seat Spring	2
8	994795001	Bolt (M8 x 45 mm)	2
9	994827001	Washer (OD24 x ID8.4 x 2t)	2
10	994849001	Shoulder Bolt (M8 x 20 mm)	2
11	994867001	Flange Lock Nut (M8 x 1.25, Hex Hd.)	4



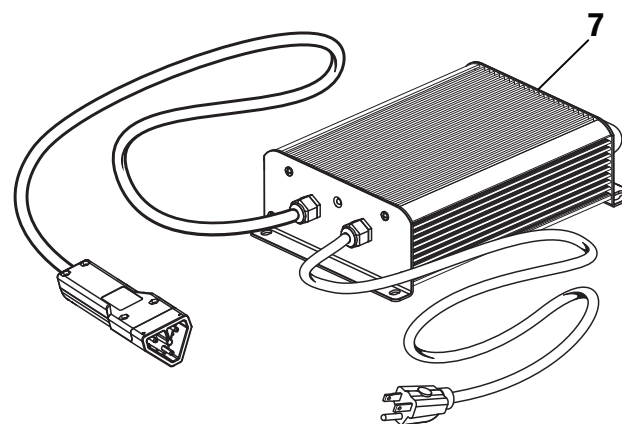
RY48110/RY48111/RY48112

FIGURE Q — CHARGER PORT ASSEMBLY

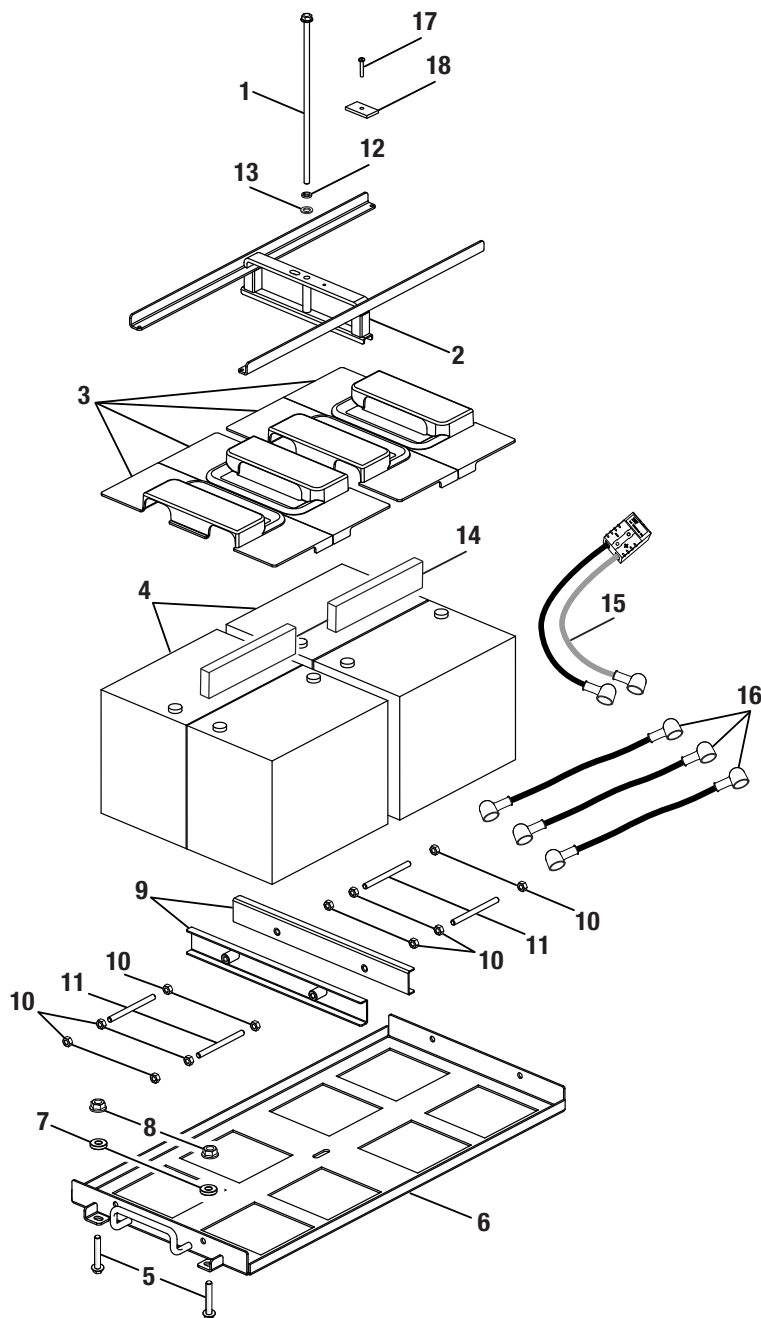


PARTS LIST — FIGURE Q

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996208001	Charger Port Hinge Door	1
2	996515001	Charger Receptacle	1
3	996283001	Hinge Pin	1
4	996210001	Torsion Spring	1
5	994989001	Screw (M6 x 16 mm, Torx Soc. Hd.)	4
6	996342001	Charger Lockout Circuit	1
7	996514001	Charger	1
	140448001	Charger <i>(For Mowers with Serial Numbers: JY17412D and after)</i>	1

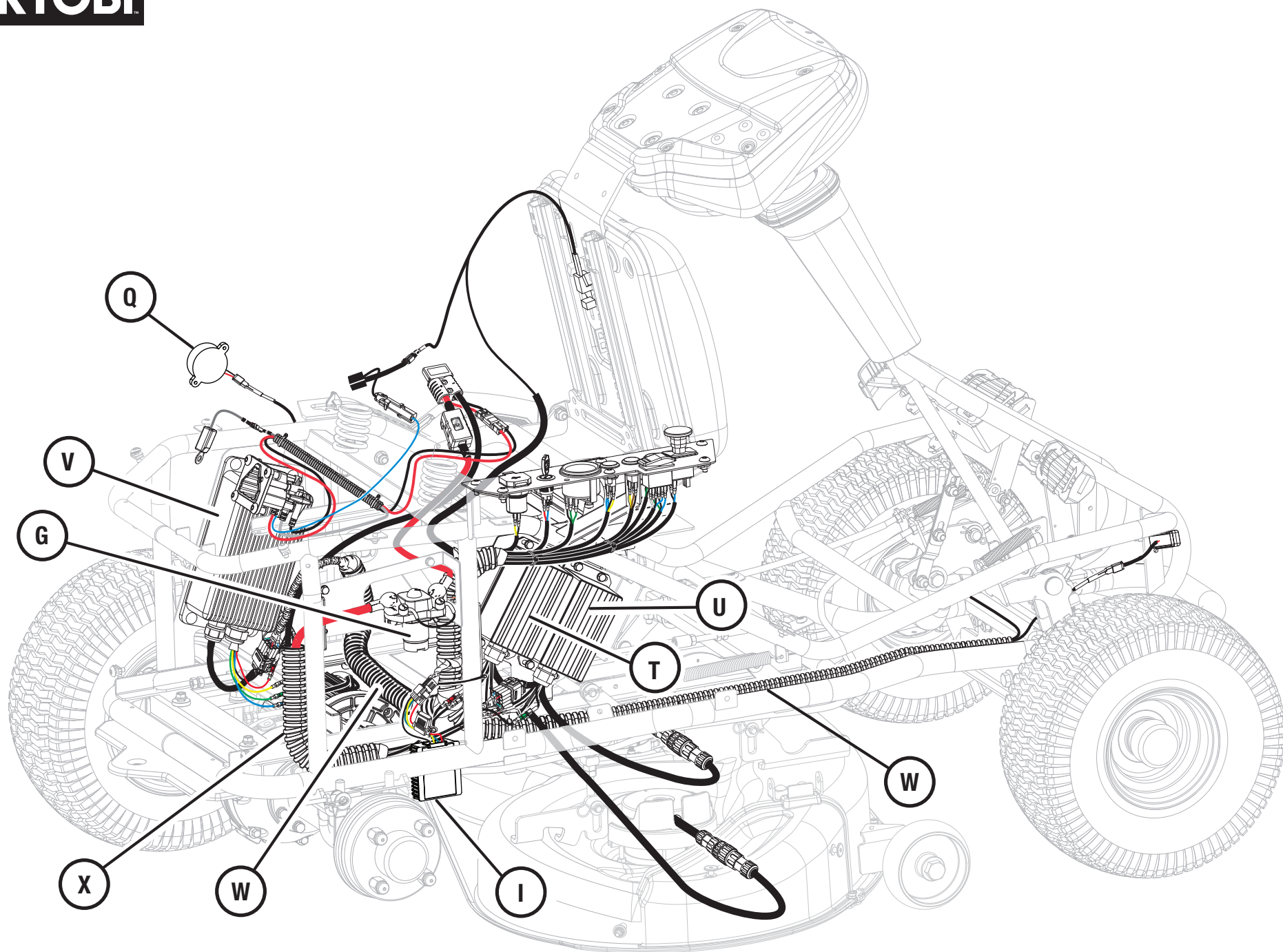


(For Mowers with Serial Numbers: JY17412D and After)



PARTS LIST — FIGURE R

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	996357001	Bolt (M8)	1
2	994925001	Battery Tie Down	1
3	994990001	Battery Cover	4
4	996269001	Battery (LPC12-75, RY48110, RY48112)	4
	996239001	Battery (LPC12-100, RY48111)	4
5	996237001	Flange Bolt (M8 x 55 mm, Hex Hd.)	2
6	994923001	Battery Tray	1
7	996038001	Metal Bushing	2
8	994867001	Flange Nut (M8)	2
9	996351001	Battery Holder Bracket	2
10	996346001	Hex Nut (M8)	12
11	996350001	Threaded Rod (M8 x 100 mm)	4
12	994770001	Lock Washer (OD9.8 x ID8.5 x 5t)	1
13	994954001	Washer (OD12.5 x ID8.4 x 4t)	1
14	996363001	Battery Spacer (LPC12-75)	2
15	996270001	Two Wire Battery Cable (4 AWG Black & 4 AWG Red, 250 mm)	1
16	996272001	Battery Cable w/Covers (Red and Black, 120 mm)	3
17	996527001	Screw (M5 x 30 mm, Cross Recess Pan Hd.)	1
18	996528001	Main Connector Washer	1



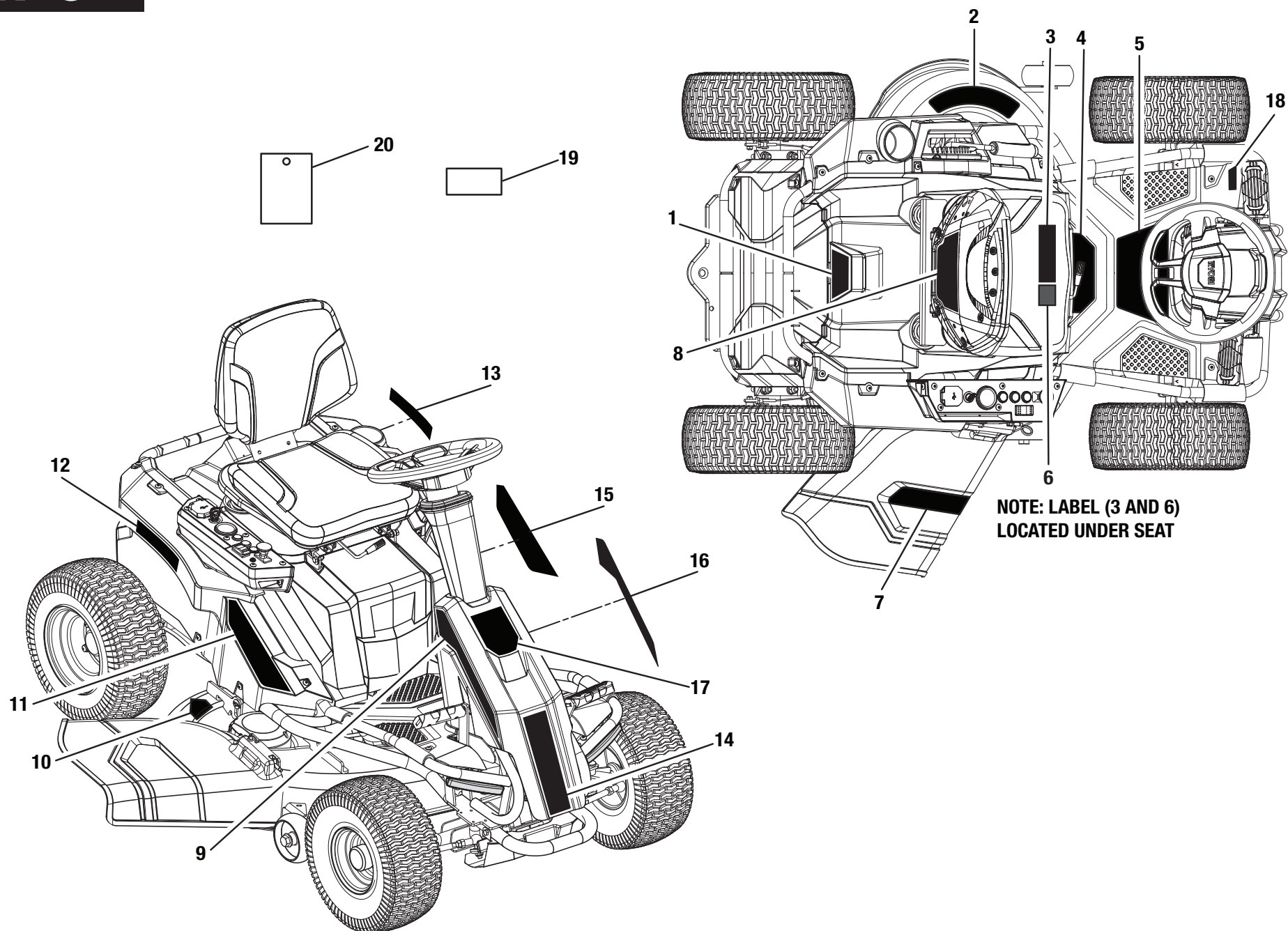


RY48110/RY48111/RY48112

PARTS LIST — FIGURE S

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997077001	12 Volt Power Converter (I)	1
2	996506001	Deck Motor Controller 01 (T)	1
3	996507001	Deck Motor Controller 02 (U)	1
4	997912001	Drive Motor Controller (V)	1
5	996498001	Main Wiring Harness (W)	1
6	996273001	Sub Wiring Harness (X)	1
7	996497001	Main Relay (G)	1
8	996290001	Beeper (Q)	1
	Not Shown:		
	996381001	Heat Shrink (19.1 x 80 mm, Main Wiring Harness)	2
	996382001	Heat Shrink (15.9 x 80 mm, Main Wiring Harness)	3
	996383001	Heat Shrink (12.7 x 60 mm, Main Wiring Harness)	6

KEY NO.	PART NO.	DESCRIPTION	QTY.
Not Shown (cont.):			
	996384001	Heat Shrink (25.4 x 80 mm, Drive Motor Controller, Power/Motor Wiring)	5
	996565001	Bolt (M5 x 16 mm, Hex hd.) (For Main Relay G)	2
	996286001	Lock Washer (For Main Relay G)	2
	996295001	Washer (OD12 x ID5.3 x 1t) (For Main Relay G & Power Converter I)	6
	996556001	Cap Screw (M5 x 16 mm, Hex Socket Hd.) (For Power Converter I)	2
	996058001	Spring Washer (M6) (For Deck Motor Controllers T & U)	2
	996281001	Washer (OD12 x ID6.4 x 1.6t) (For Deck Motor Controllers T & U)	2
	994867001	Flange Nut (M8) (For Drive Motor Controller V)	4
	996035001	Washer (OD7 x ID3.2 x 0.6t) (For Beeper Q)	4





RY48110/RY48111/RY48112

PARTS LIST — FIGURE T

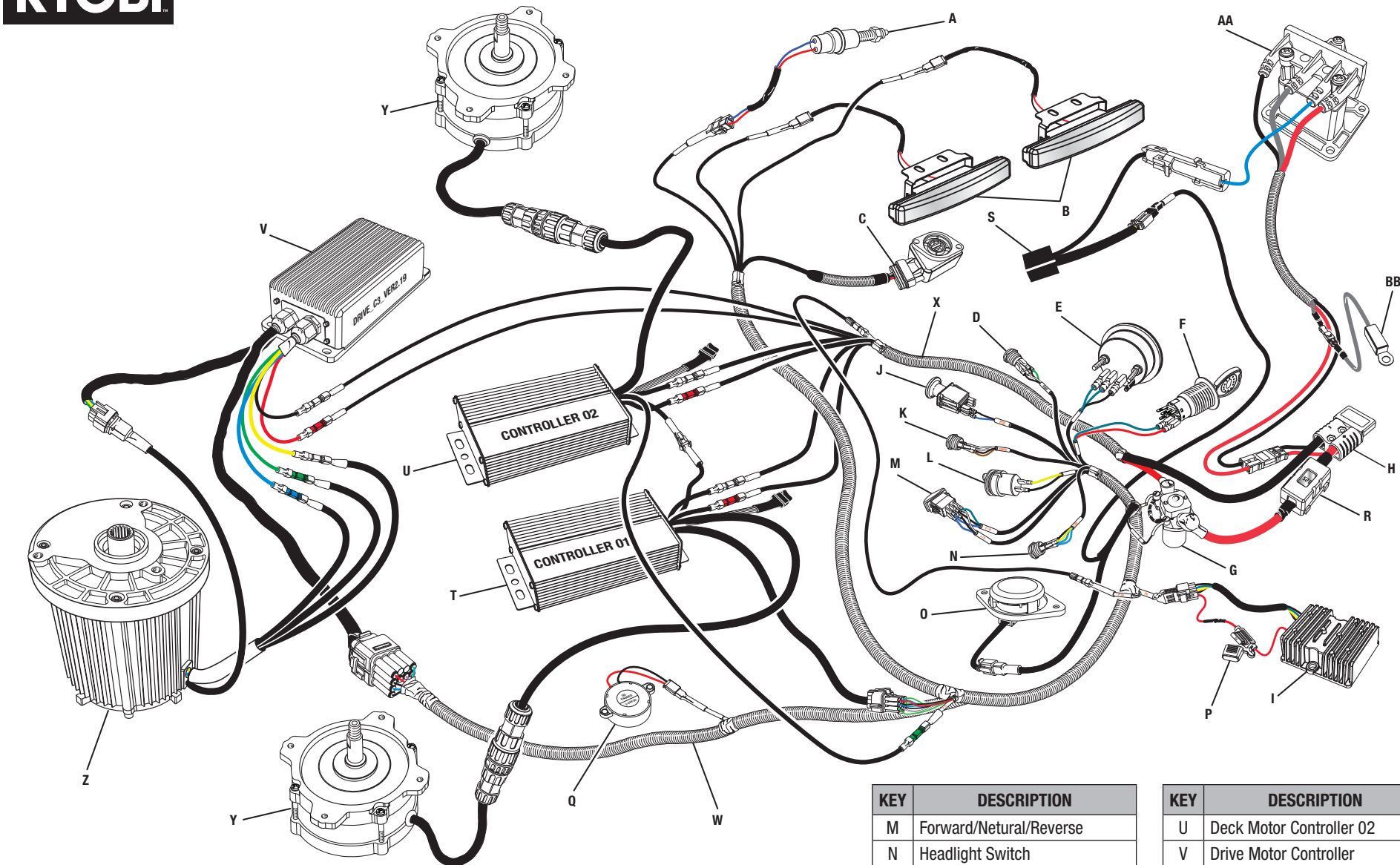
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	940851222	Charging Port Label, English	1
	940851239	Charging Port Label, English/French	1
	940851231	Charging Port Label, Spanish	1
2	940851207	Deck Danger Label, English	1
	940851236	Deck Danger Label, English/French (RY48112)	1
	940851227	Deck Danger Label, Spanish	1
3	941588227	Data Label (RY48110)	1
	941588228	Data Label (RY48111)	1
	941588229	Data Label (RY48112)	1
4	940851206	Starting Warning Label, English	1
	940851233	Starting Warning Label, English/French (RY48112)	1
	940851225	Starting Warning Label, Spanish	1
5	940851205	Danger Label, English	1
	940851232	Danger Label, English/French	1
	940851224	Danger Label, Spanish	1
6	940851240	RPL Label, English	1
	940851264	RPL Label, English/French	1
	940657249	RPL Label, Spanish	2
7	940851208	Discharge Danger Label, English	1
	940851235	Discharge Danger Label, English/French (RY48112)	1
	940851228	Discharge Danger Label, Spanish	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
8	941511015	Seat Back Panel	1
9	940851212	Right Stripes Label	1
10	940851219	No Hands CPSC Danger Label, English	1
	940851234	No Hands CPSC Danger Label, English/French	1
	940851226	No Hands CPSC Danger Label, Spanish	1
11	940851209	RM480e Label, Right	1
12	940851223	RYOBI Logo Label, Right	1
13	940705370	RYOBI Logo Label, Left	1
14	940705382	Front Column Logo Label	1
15	940851210	RM480e Label, Left	1
16	940851211	Left Stripes Label	1
17	940705369	Steering Column Logo Label	1
18	940531303	Brake Pedal Label, English	1
	940531305	Brake Pedal Label, Spanish	1
19	996288001	Watch For Kids, Keychain Label	1
20	941511019	Prop 65 Hangtag	1



RY48110/RY48111/RY48112

WIRING DIAGRAM



KEY	DESCRIPTION
A	Brake Switch
B	Headlights
C	Accelerator
D	RMO

KEY	DESCRIPTION
E	Battery Gauge
F	Switch w/Key
G	Relay
H	Battery Connector

KEY	DESCRIPTION
I	12 Volt Power Converter
J	Blade PTO
K	Cruise
L	USB

KEY	DESCRIPTION
M	Forward/Neutral/Reverse
N	Headlight Switch
O	Seat Switch
P	5 Amp Fuse
Q	Beeper
R	125 Amp Fuse
S	Charger Lockout Circuit
T	Deck Motor Controller 01

KEY	DESCRIPTION
U	Deck Motor Controller 02
V	Drive Motor Controller
W	Main Wiring Harness
X	Sub Wiring Harness
Y	Deck Motor
Z	Drive Motor
AA	Charger Port
BB	Temperature Sensor