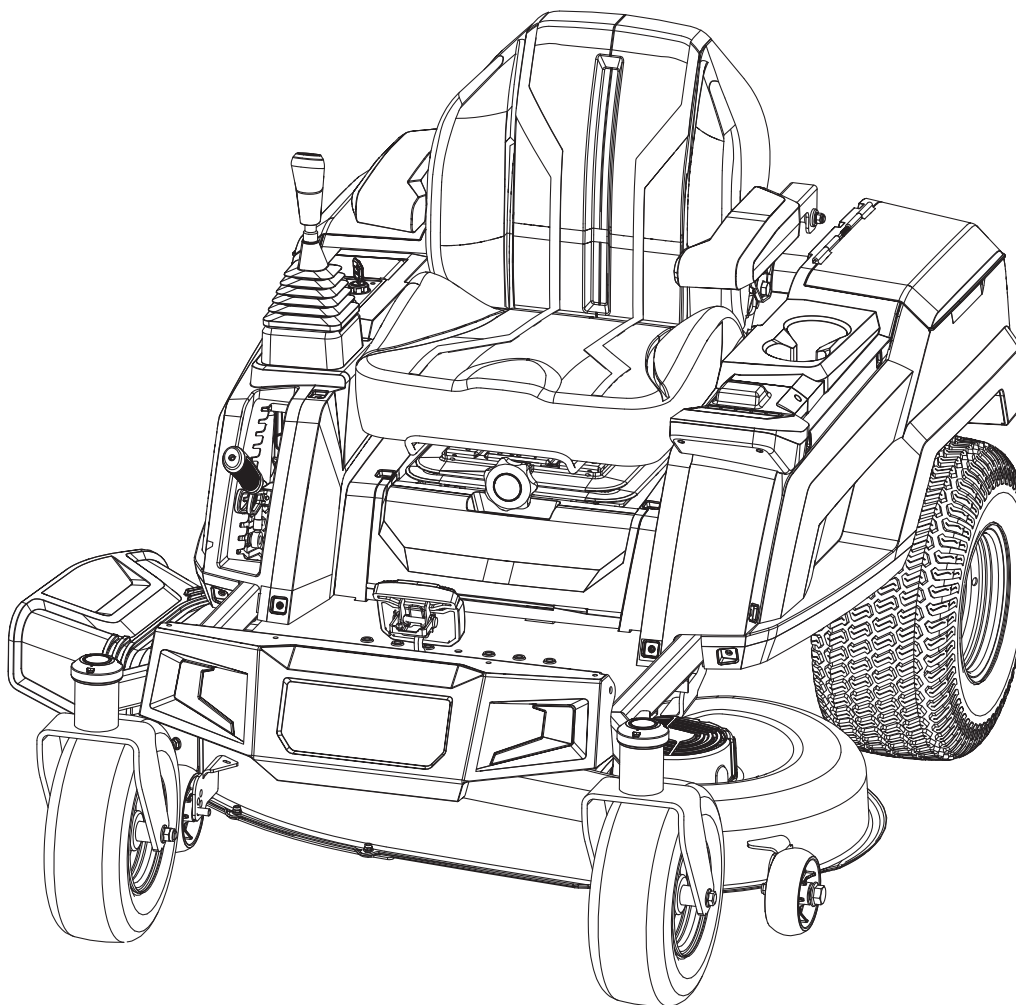


REPLACEMENT PARTS LIST

BRAND RYOBI		DESCRIPTION 42 in. Riding Lawn Mower
MODEL NO. RYRM8002	MFG. NO. 099262002	



TECHTRONIC INDUSTRIES POWER EQUIPMENT

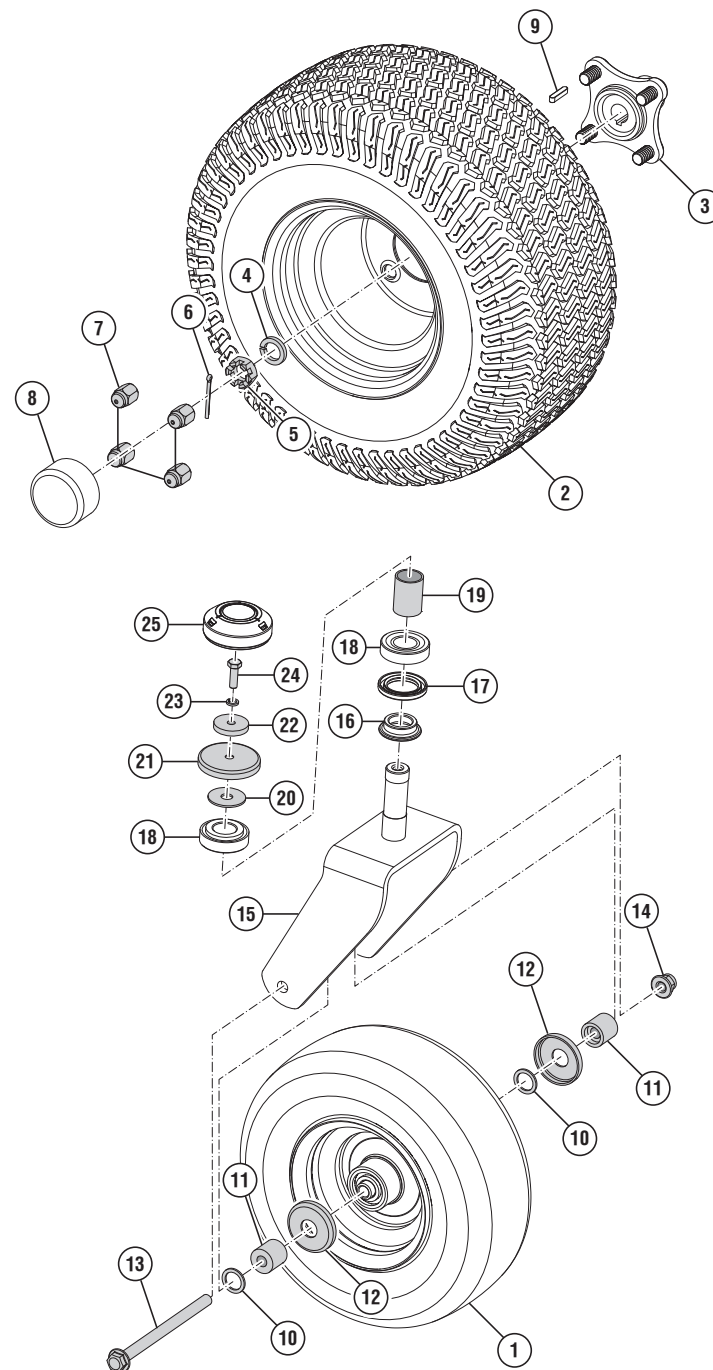
P.O. Box 1288, Anderson, SC 29622 ■ 1-800-525-2579 ■ www.ryobitools.com

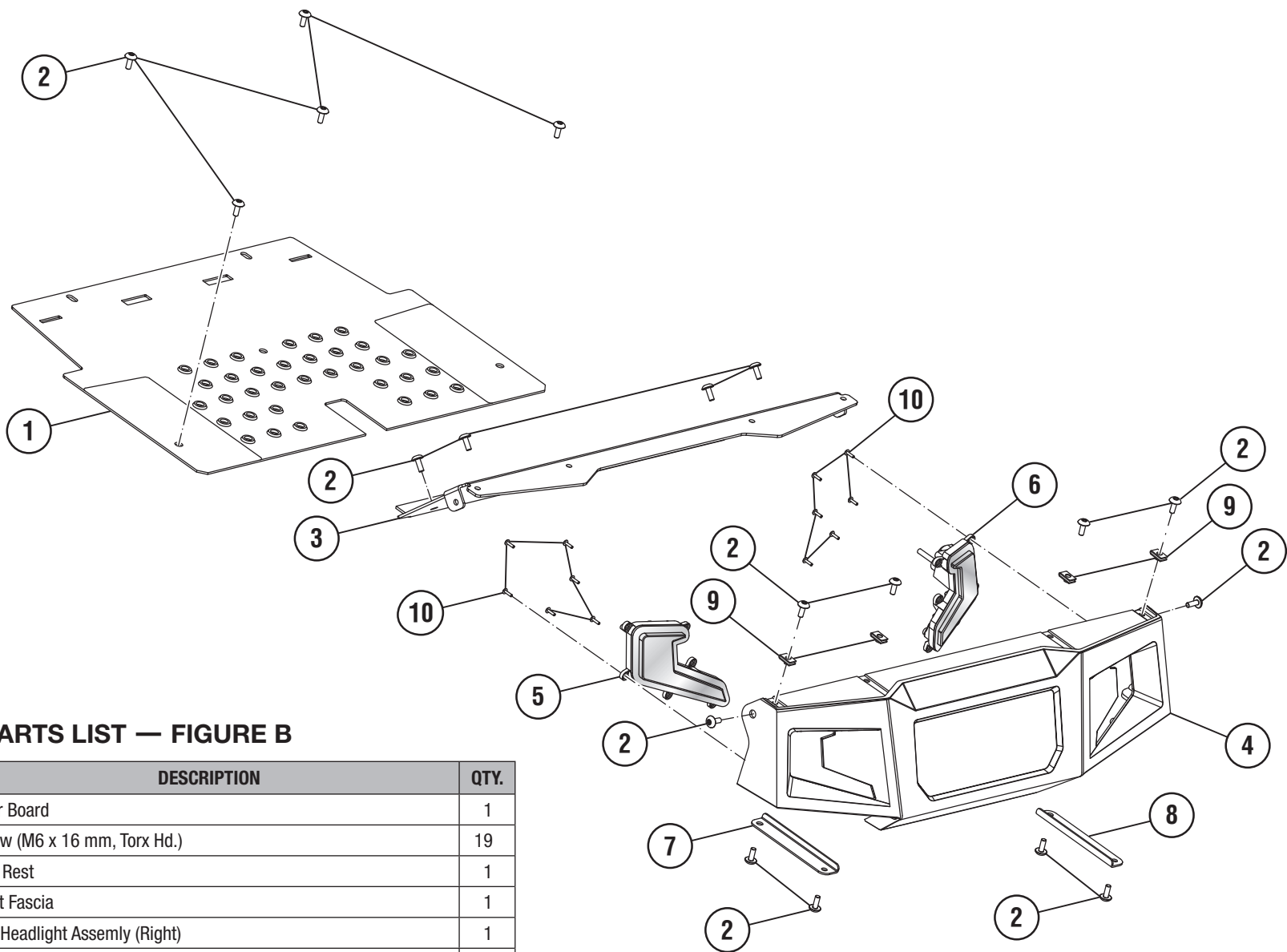
998000940
7-17-23 (REV:01)

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

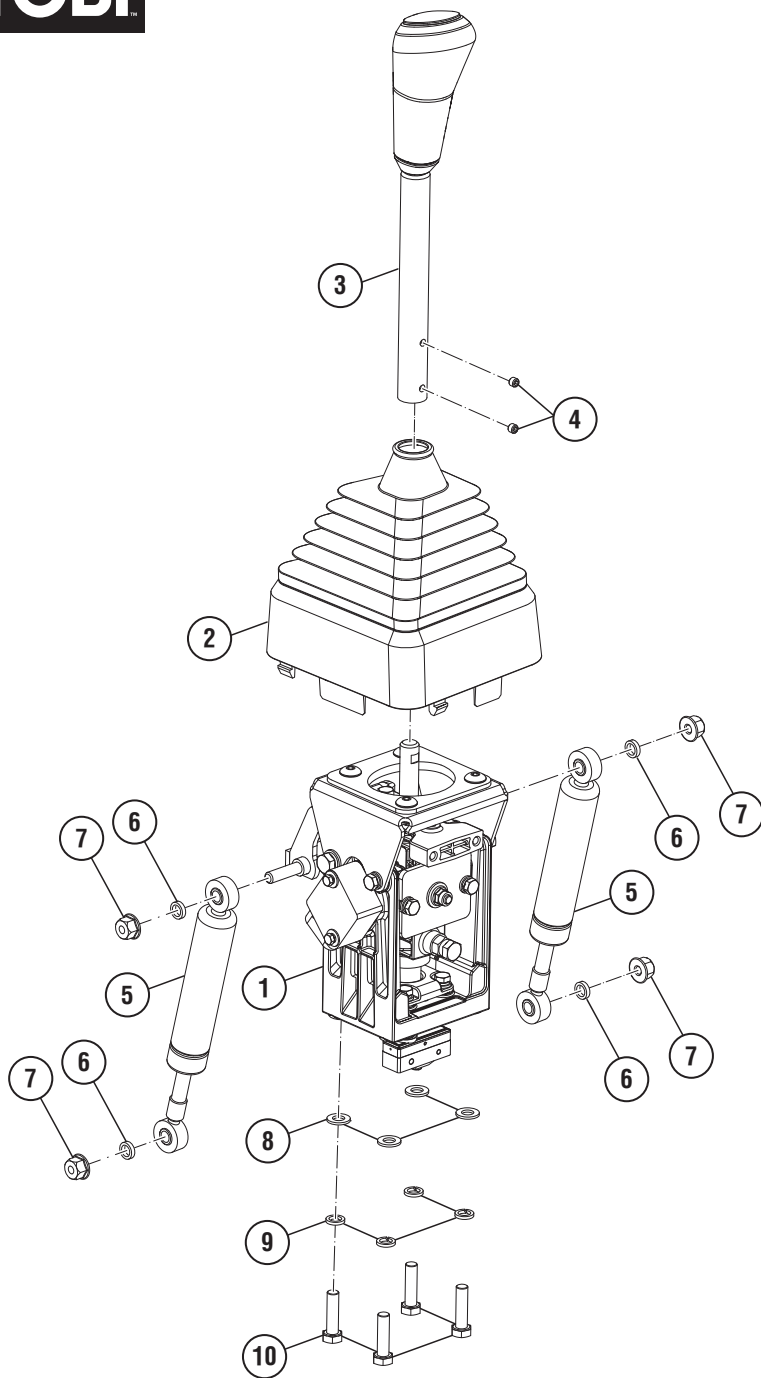
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997000169	Front Wheel Assembly	2
2	997000179	Rear Wheel Assembly	2
3	996987001	Wheel Hub	2
4	997134001	Lock Spring Washer (ID20.6 x OD30.6 x 4.8T)	2
5	997138001	Castle Nut (M20)	2
6	997139001	Cotter Pin	2
7	997143001	Acorn Nut (M14)	8
8	996029001	Wheel Hub Cover	2
9	996988001	Key (6 mm x 6 mm x 30 mm)	2
10	994842001	Washer (ID20.5 x OD28 x 4T)	4
11	996997001	Wheel Spacer	4
12	994857001	Bearing Cover	4
13	996998001	Flange Bolt (M12 x 170 mm, Hex Hd.)	2
14	996999001	Flange Nut (M12)	2
15	996990001	Caster Fork	2
16	996991001	Bearing Assembly Base	2
17	997125001	Rubber Seal	2
18	996992001	Tapered Roller Bearing (ID 25 mm x OD 52 mm)	4
19	996993001	Bearing Assembly Spacer	2
20	997036001	Fender Washer (ID12.5 x OD40 x 2t)	2
21	996994001	Bearing Assembly Cap	2
22	996995001	Fender Washer (ID8.4 x OD37 x 6t)	2
23	994770001	Lock Washer (M8)	2
24	996046001	Bolt (M8 x 25 mm)	2
25	997130001	Caster Fork Cover	2
	Not Shown:		
	998000937	Operator's Manual	





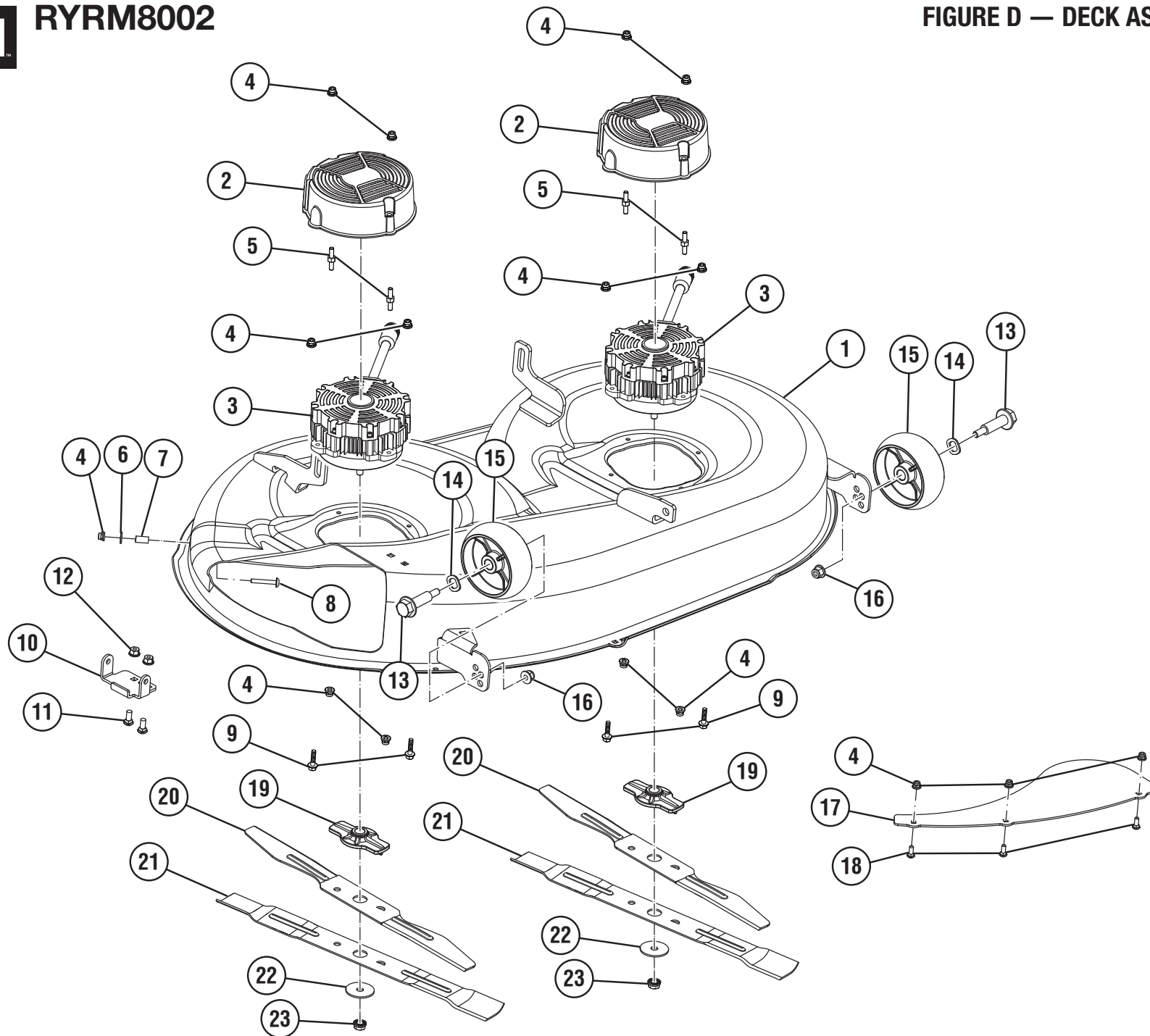
PARTS LIST — FIGURE B

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997931001	Floor Board	1
2	994989001	Screw (M6 x 16 mm, Torx Hd.)	19
3	997930001	Foot Rest	1
4	997927001	Front Fascia	1
5	997929001	LED Headlight Assembly (Right)	1
6	997928001	LED Headlight Assembly (Left)	1
7	997000185	Fascia Brace (Right)	1
8	997000184	Fascia Brace (Left)	1
9	994785001	Clip-On Nut (M6)	4
10	997094001	Screw (M3.5 x 13 mm, Pan Hd.)	12



PARTS LIST — FIGURE C

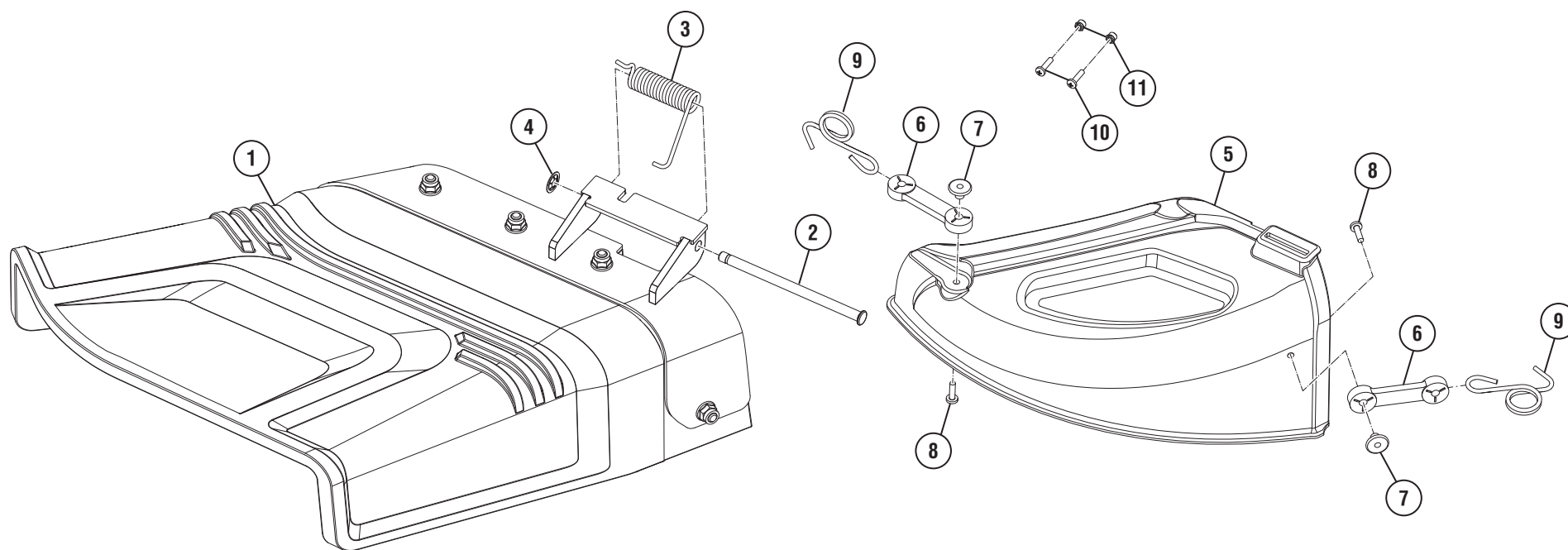
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997919001	Joystick Assembly	1
2	994000001	Joystick Bellow Assembly	1
3	997000029	Upper Joystick Handle	1
4	997000165	Set Screw (M6 x 5 mm)	2
5	997000036	Joystick Damper	2
6	997000035	Damper Bushing	4
7	994867001	Flange Nut (M8)	4
8	994771001	Washer (ID8.4 x OD16 x 1.6t)	4
9	994770001	Spring Washer (M8)	4
10	997000161	Screw (M8 x 30 mm, Hex Hd.)	4



**RYRM8002****PARTS LIST — FIGURE D**

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997000174	42 in. Deck	1
2	997932001	Motor Cover	2
3	997933001	Deck Motor	2
4	996251001	Lock Nut (M6 x 1.00, Flange Hd.)	16
5	997000232	Stud (M6)	2
6	996034001	Washer (M6)	1
7	996039001	Mounting Shaft	1
8	996250001	Screw (M6 x 40 mm)	1
9	996057001	Bolt (M6 x 25 mm, Flange Hex Hd.)	4
10	997000175	Deck Bracket	1
11	996050001	Carriage Bolt (M8 x 20 mm)	2
12	994867001	Flange Nut (M8)	2

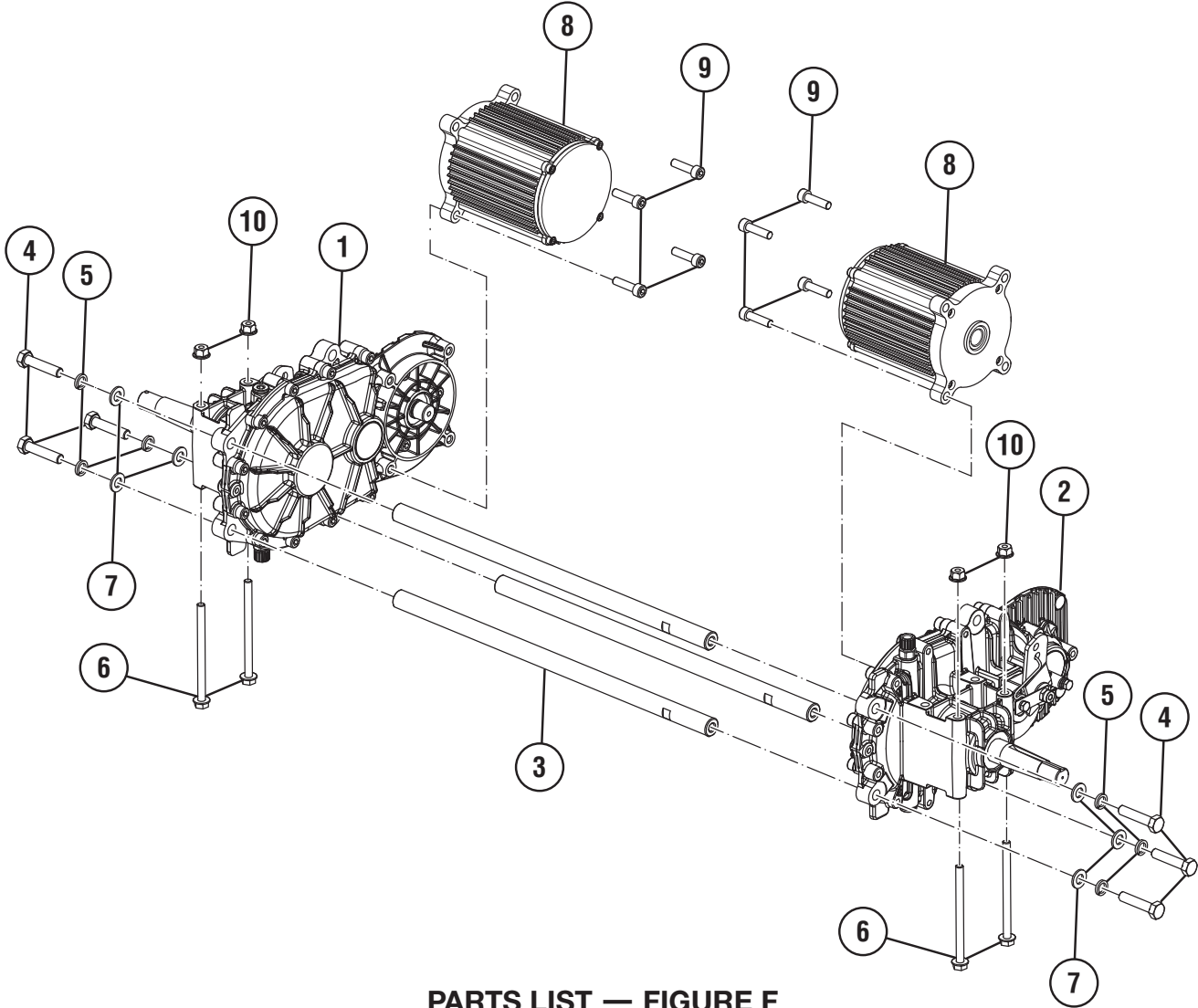
KEY NO.	PART NO.	DESCRIPTION	QTY.
13	996205001	Shoulder Bolt (M10 x 70 mm)	2
14	996355001	Spring Washer (M10)	2
15	996265001	Front Deck Roller Wheel	2
16	996192001	Flange Lock Nut (M10)	2
17	997074001	Baffle	1
18	994791001	Carriage Bolt (M6 x 16 mm)	3
19	997920001	Crosscut Blade Adapter	2
20	682533001	Crosscut Top Blade (21 in.)	2
21	682282001	Crosscut Bottom Blade (21 in.)	2
22	997028001	Blade Retainer Washer	2
23	996261001	Flange Lock Nut (M10)	2



PARTS LIST — FIGURE E

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997953001	Side Discharge Chute Assembly	1
2	997974001	Discharge Chute Hinge	1
3	994980001	Discharge Chute Spring	1
4	996292001	Push-On Retainer Clip	1
5	997085001	Mulch Plug Assembly (Inc. Key Nos. 6-9)	1
6	996203001	Rubber Strap	2

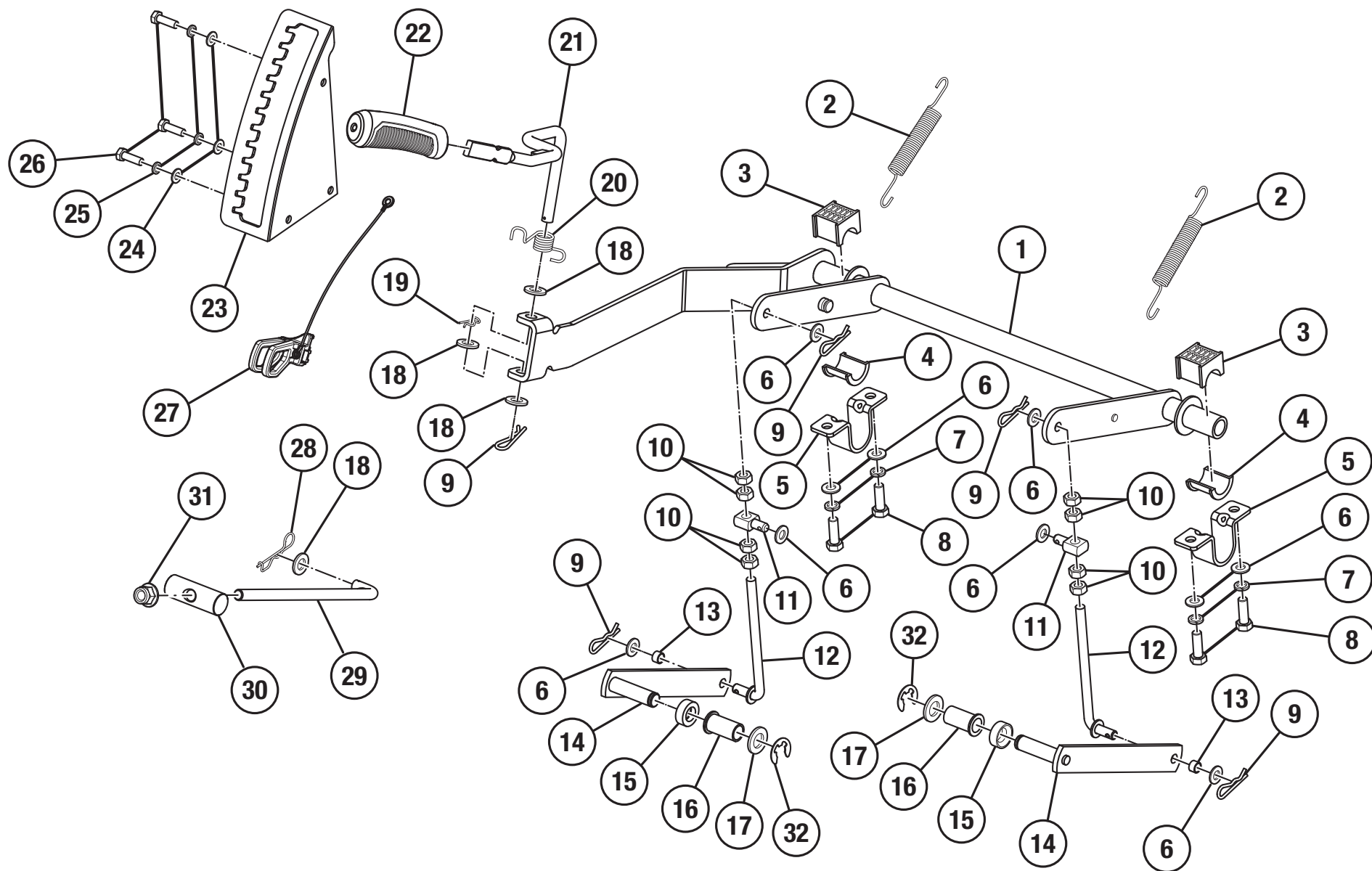
KEY NO.	PART NO.	DESCRIPTION	QTY.
7	996212001	Bungie Anchor	2
8	996213001	Screw (M5 x 16 mm)	2
9	996211001	Latch Spring	2
10	997000229	Screw (M4 x 15 mm)	2
11	996301001	Lock Nut (M4)	2



PARTS LIST — FIGURE F

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997158001	Gearbox Assembly (Left)	1
2	997159001	Gearbox Assembly (Right)	1
3	997000001	Tie Rod	3
4	996323001	Bolt (M10 x 45 mm, Hex Hd.)	6
5	994998001	Lock Spring Washer (ID10.9 x OD16.1 x 2.6T)	6

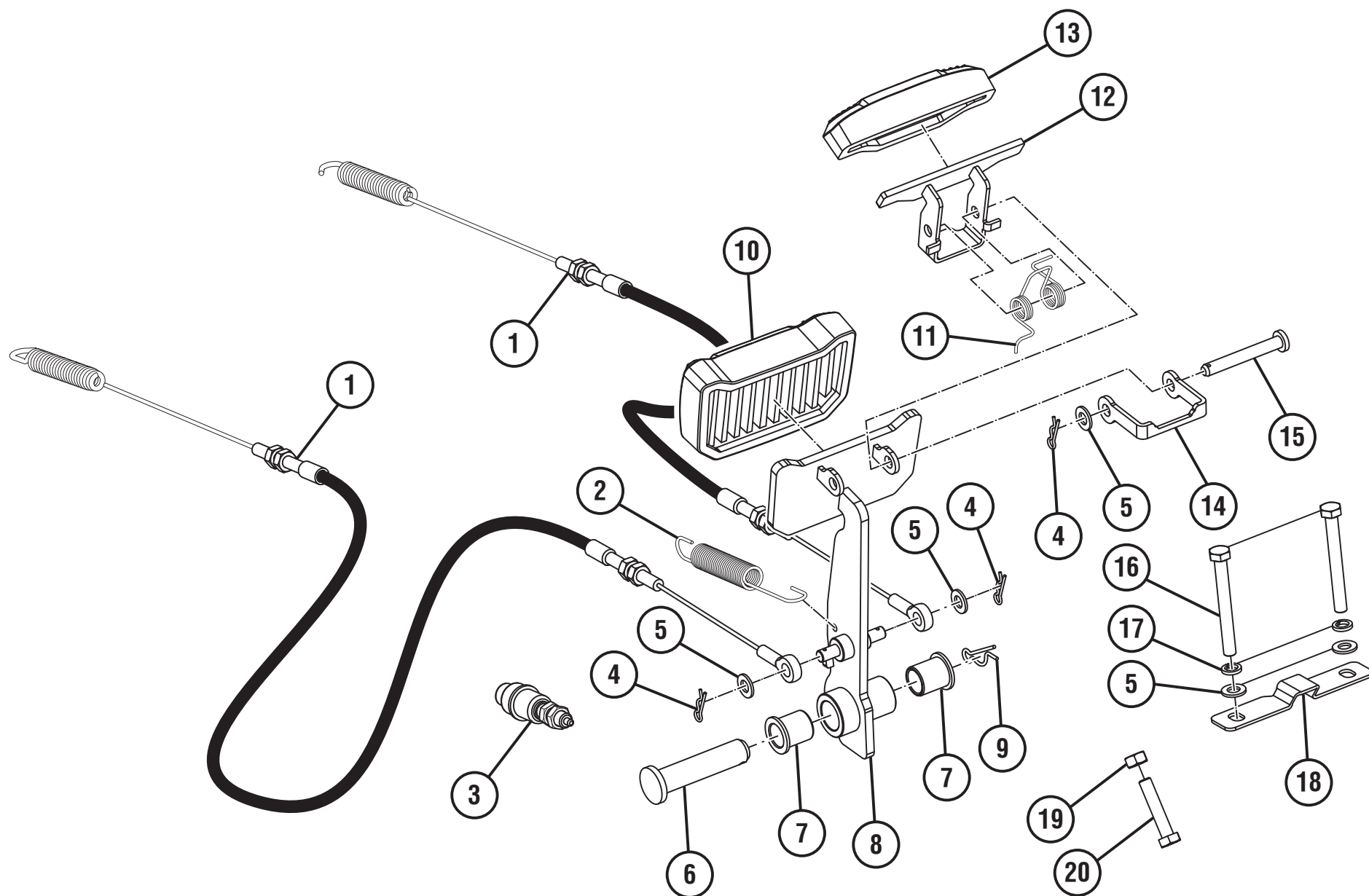
KEY NO.	PART NO.	DESCRIPTION	QTY.
6	997088001	Flange Bolt (M8 x 110 mm, Hex Hd.)	4
7	994996001	Washer (M10)	6
8	997000227	80V Drive Motor	2
9	997000231	Screw (M8 x 30 mm, Soc. Hd.)	8
10	994867001	Flange Nut (M8)	4



**RYRM8002****PARTS LIST — FIGURE G**

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997016001	Deck Lift Linkage and Axle Assembly	1
2	997025001	Deck Lift Spring	2
3	997014001	Deck Lift Axle Bushing Top	2
4	997015001	Deck Lift Axle Bushing Bottom	2
5	997013001	Deck Lift Axle Mount	2
6	994996001	Washer (M10)	10
7	994998001	Lock Washer (ID10.9 x OD16.1 x 2.6t)	4
8	997106001	Bolt (M10 x 30 mm)	4
9	996233001	Cotter Pin	5
10	996263001	Nut (M10)	8
11	997126001	Hanger Stud	2
12	997017001	J-Hook Deck Hanger	2
13	997000171	J-Hook Bushing	2
14	997018001	Deck Lift Linkage	2
15	997093001	Deck Lift Linkage Spacer	2
16	997019001	Deck Lift Linkage Bushing	2

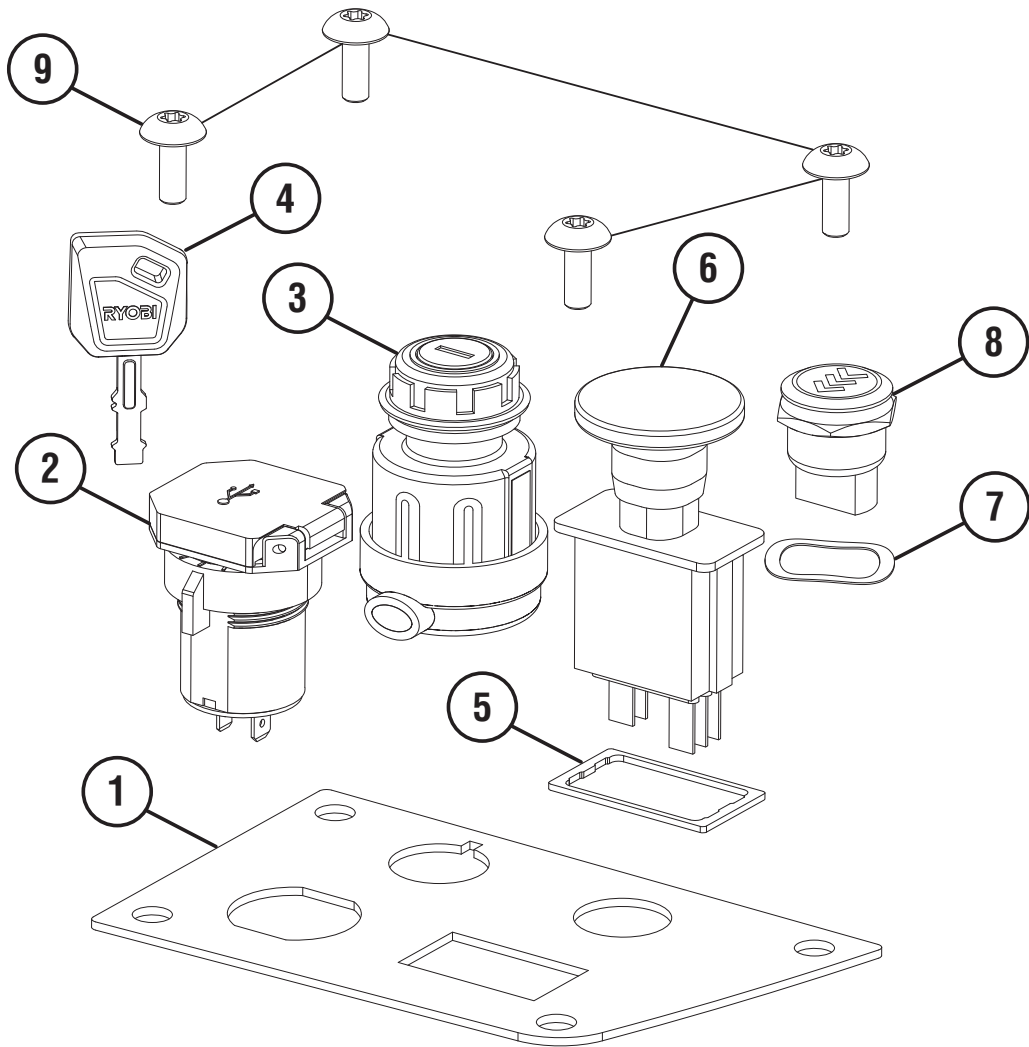
KEY NO.	PART NO.	DESCRIPTION	QTY.
17	994763001	Washer (ID17 x OD30 x 3t)	2
18	994891001	Washer (M13)	4
19	994892001	Cotter Pin (12 mm)	1
20	997023001	Deck Lift Lever Torsion Spring	1
21	997022001	Deck Lift Lever	1
22	994972001	Deck Lift Handle	1
23	997679001	Detent Plate	1
24	994771001	Washer (ID8.4 x OD16 x 1.6t)	3
25	994770001	Lock Washer (M8)	3
26	996046001	Bolt (M8 x 25 mm)	3
27	997128001	Cut Height Memory Plug	1
28	997140001	Hinge Cotter Pin	1
29	997000170	Front Deck Hook	1
30	997097001	Front Deck Hanger Pivot Axle	1
31	996999001	Flange Nut (M12)	1
32	994833001	E-Clip (12 mm)	2



**RYRM8002****PARTS LIST — FIGURE H**

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997012001	Brake Cable	2
2	997011001	Brake Pedal Spring	1
3	994837001	Brake Switch	1
4	996013001	Lock Pin (8 mm)	3
5	994771001	Washer (ID8.4 x OD16 x 1.6t)	5
6	994929001	Clevis Pin (M16 x 70 mm)	1
7	994928001	Brake Pedal Bushing	2
8	997004001	Brake Pedal Lever	1
9	994930001	Lock Pin (16 mm)	1
10	997009001	Brake Pedal Rubber Pad	1

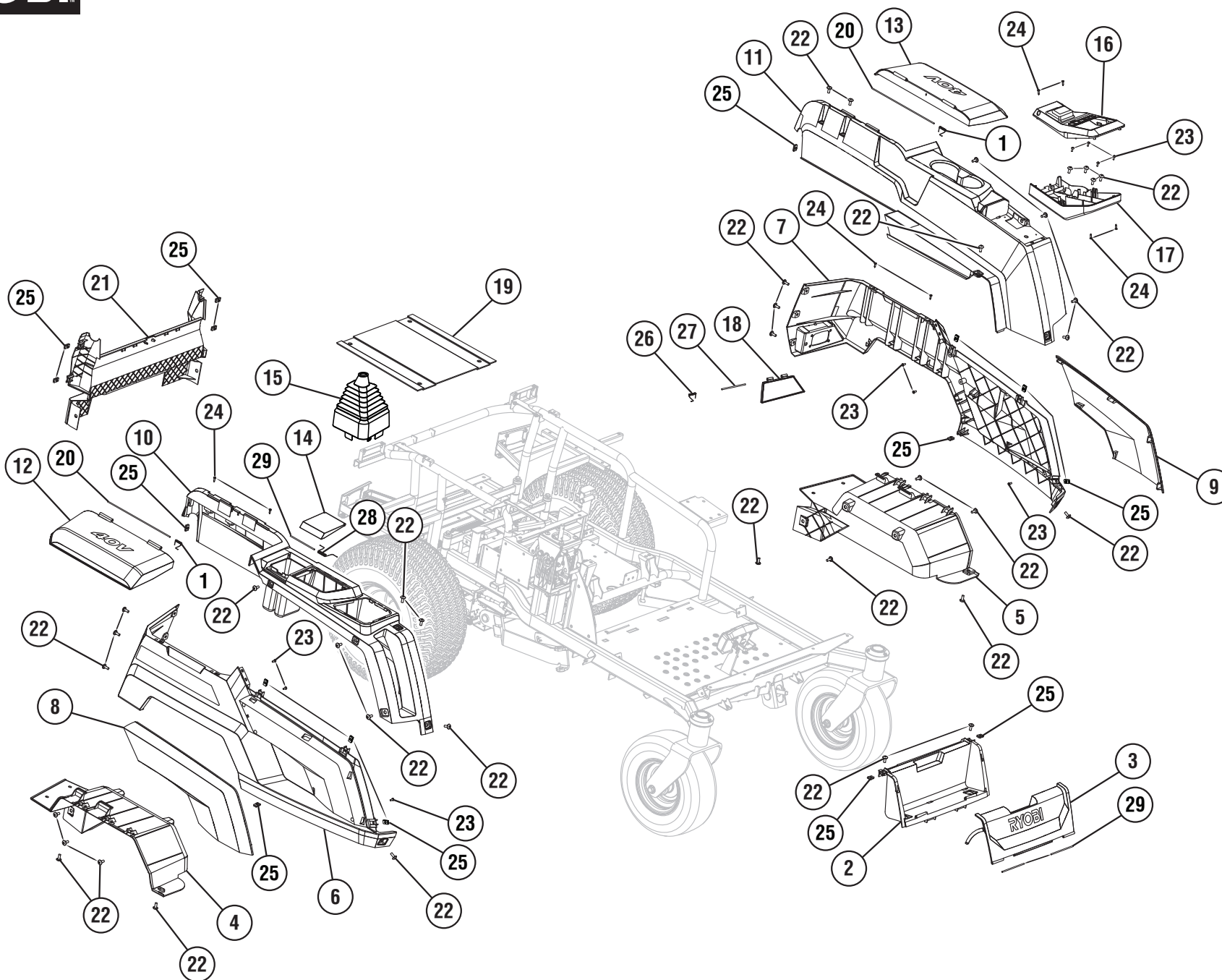
KEY NO.	PART NO.	DESCRIPTION	QTY.
11	997008001	Parking Brake Torsion Spring	1
12	997005001	Parking Brake Pedal	1
13	997010001	Parking Brake Rubber Pad	1
14	997006001	Parking Brake Latch	1
15	997007001	Clevis Pin (M8 x 60 mm)	1
16	997089001	Bolt (M8 x 70 mm, Hex Hd.)	2
17	994770001	Lock Washer (M8)	2
18	997003001	Brake Latch Hook	1
19	996346001	Hex Nut (M8)	1
20	997131001	Bolt (M8 x 40 mm, Hex Hd.)	1



PARTS LIST — FIGURE I

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997000167	Control Panel Plate	1
2	994963001	USB-C Module	1
3	997792001	Key Module	1
4	997966001	Key	1
5	997082001	PTO Gasket	1

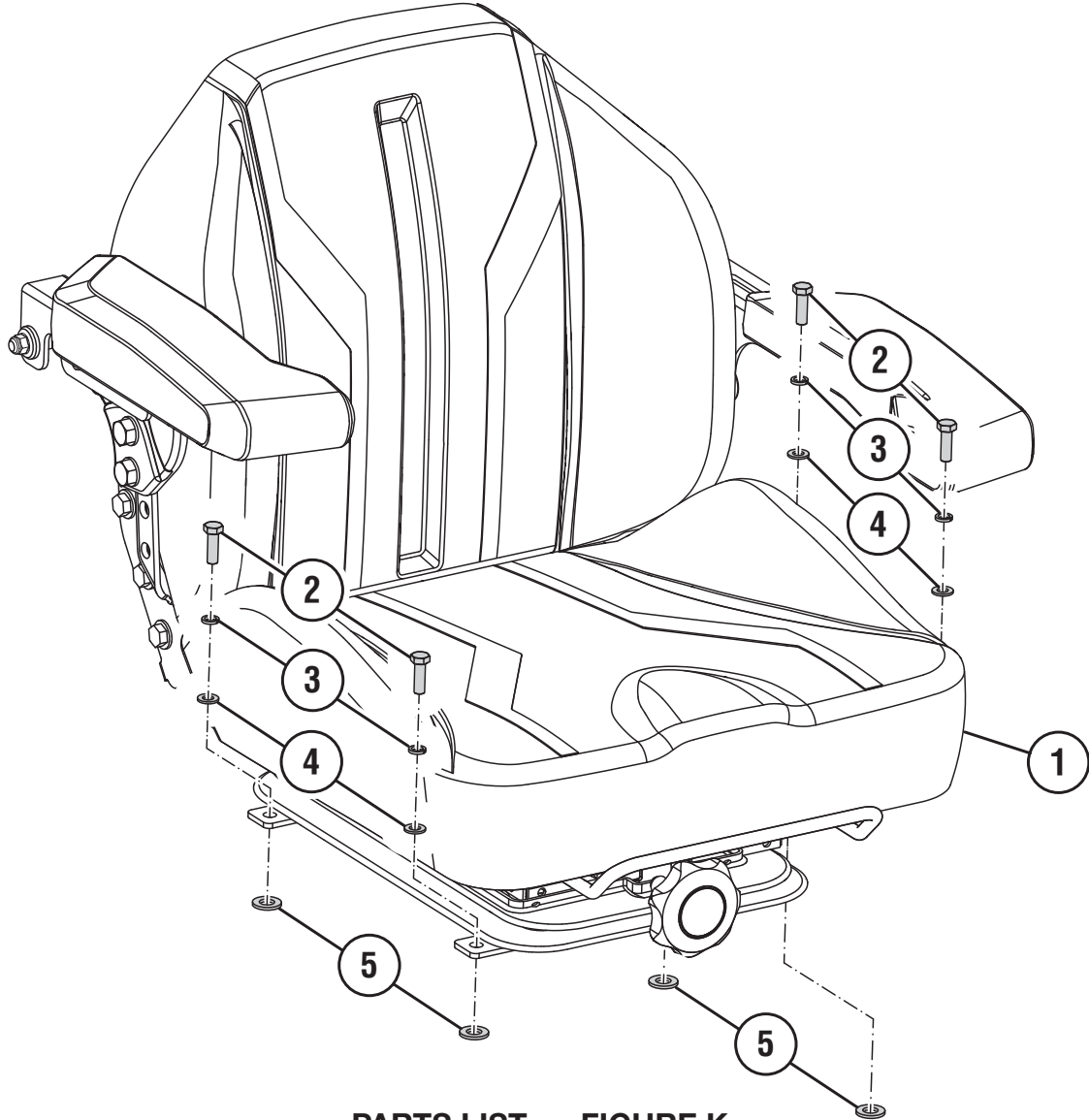
KEY NO.	PART NO.	DESCRIPTION	QTY.
6	997345001	PTO	1
7	996361001	Spring Washer	1
8	997923001	Accessory Button	1
9	994989001	Screw (M6 x 16mm, Torx Hd.)	4



**RYRM8002****PARTS LIST — FIGURE J**

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997000221	Battery Cover Spring	2
2	997956001	Front Pocket	1
3	997955001	Front Pocket Door	1
4	997941001	Wheel Well (Right)	1
5	997940001	Wheel Well (Left)	1
6	997937001	Fender (Right)	1
7	997936001	Fender (Left)	1
8	997935001	Trim Panel (Right)	1
9	997934001	Trim Panel (Left)	1
10	997939001	Console (Right)	1
11	997938001	Console (Left)	1
12	997000223	40V Battery Lid (Right)	1
13	997947001	40V Battery Lid (Left)	1
14	997967001	Storage Lid	1
15	994000001	Joystick Bellow Assembly	1

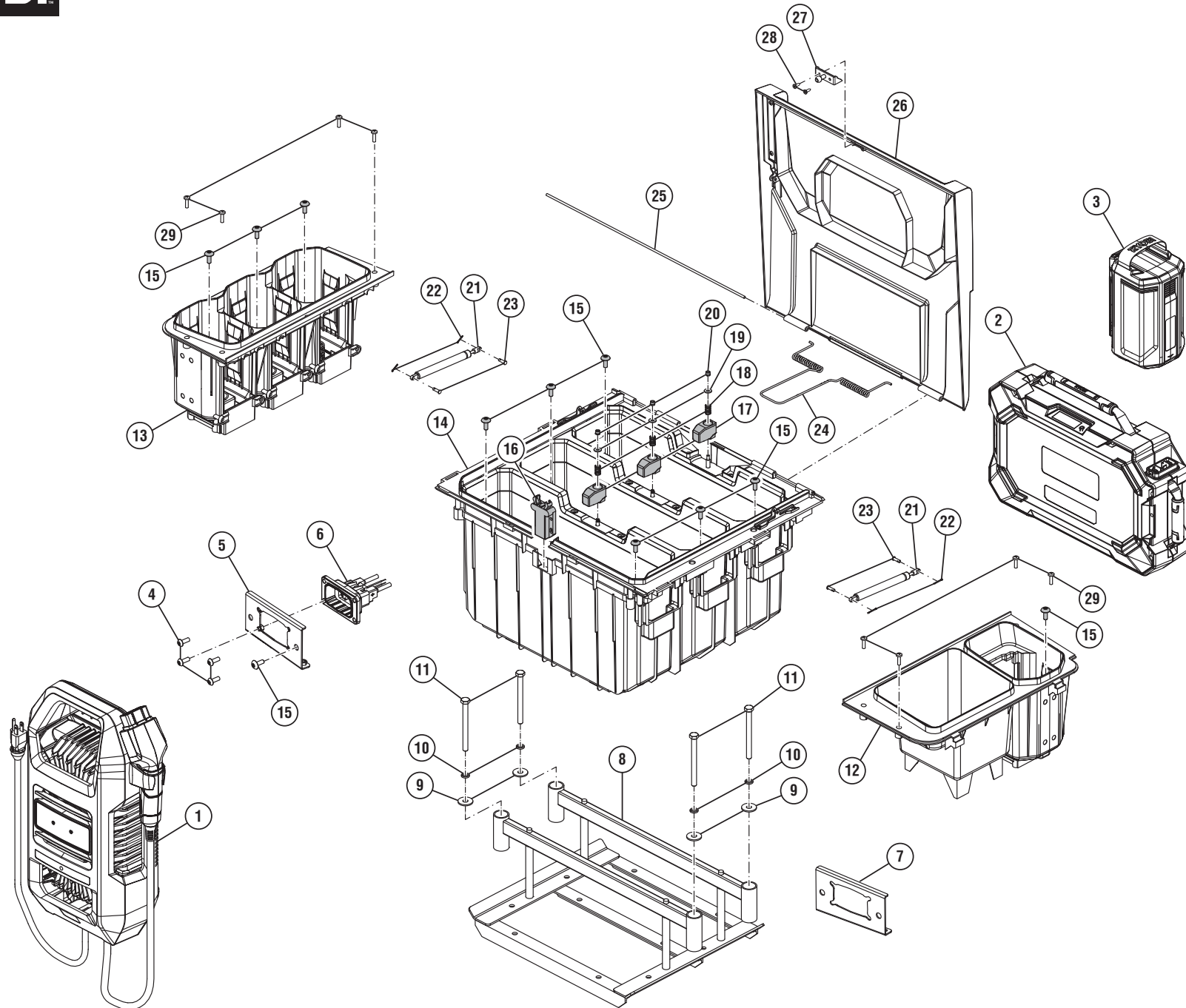
KEY NO.	PART NO.	DESCRIPTION	QTY.
16	997949001	LCD Upper Cover	1
17	997948001	LCD Lower Cover	1
18	997970001	Charging Door	1
19	997954001	Controller Cover	1
20	997000220	Battery Cover Hinge Pin	2
21	997942001	Rear Cover	1
22	994989001	Screw (M6 x 16 mm)	43
23	996297001	Screw (M4 x 10 mm)	6
24	997094001	Screw (M3 x 12 mm, Pan Hd.)	12
25	994785001	Clip-On Nut (M6)	16
26	997000194	Charger Door Spring	1
27	997000195	Charger Door Hinge	2
28	997076001	Storage Bin Spring	1
29	997000214	Storage Box Hinge Pin	3



PARTS LIST — FIGURE K

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997922001	Seat	1
2	996046001	Bolt (M8 x 25 mm, Hex Hd.)	4
3	994770001	Spring Washer (M8)	4

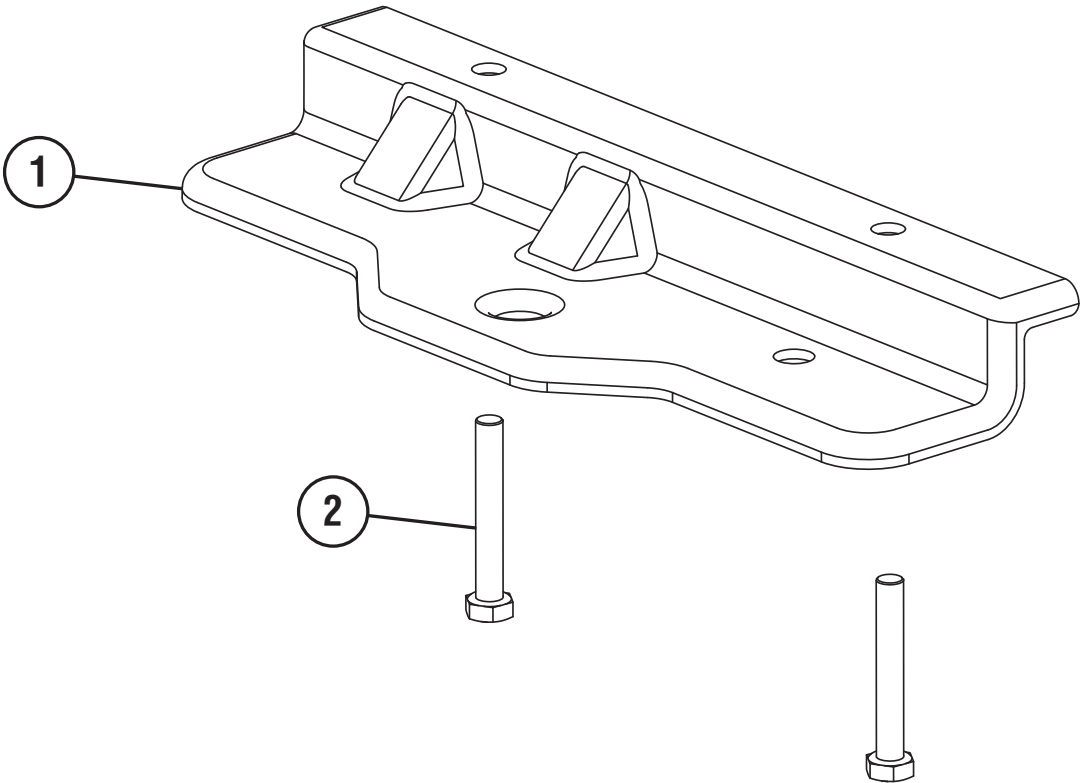
KEY NO.	PART NO.	DESCRIPTION	QTY.
4	994771001	Washer (ID8.4 x OD16 x 1.6t)	4
5	994891001	Washer (M13)	4



**RYRM8002****PARTS LIST — FIGURE L**

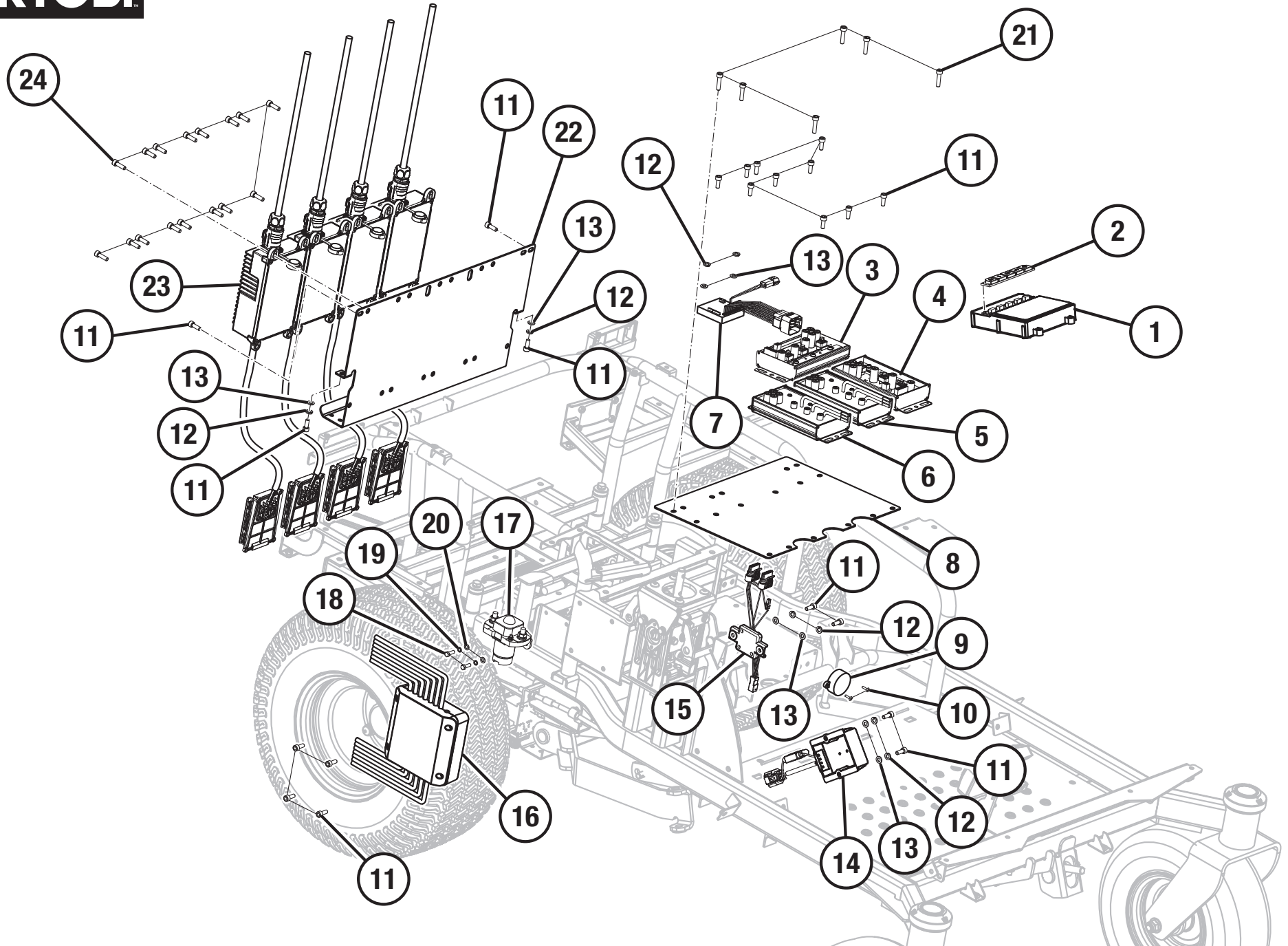
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	140494001	Charger, 120V-AC (1440W, 90V-DC)	1
2	130662001DG9	80V Battery Pack (720Wh)	2
3	130531003DG9	40V Battery Pack (12Ah)	2
4	997000283	Screw (M6 x 16 mm, Torx Hd.)	4
5	997000196	Charging Port Mount	1
6	997971001	80V Charging Receptacle	1
7	997000213	Mount Plate (Right)	1
8	997000210	Battery Compartment Frame	1
9	994827001	Washer (ID8.4 x OD24 x 2t)	4
10	994770001	Lock Washer (M8)	4
11	997000297	Bolt (M8 x 90 mm, Hex Hd.)	4
12	997952001	40V Battery Bucket (Right)	1
13	997946001	40V Battery Bucket (Left)	1
14	997000292	80V Battery Bucket Assembly	1
15	994989001	Screw (M6 x 16 mm, Torx Hd.)	11

KEY NO.	PART NO.	DESCRIPTION	QTY.
16	997945001	Push-To-Open Switch	1
17	997000211	Battery Retainer	3
18	997000137	Battery Retainer Spring	3
19	996294001	Washer (ID4.3 x OD12 x 1t)	3
20	996301001	Lock Nut (M4)	3
21	997000198	Battery Compartment Shock	2
22	997000139	Cotter Pin	4
23	997000138	Damper Pin	4
24	997000201	Torsion Spring	1
25	997000199	Compartment Lid Pin	1
26	997000200	80V Battery Lid	1
27	997000206	Battery Cover Lock	1
28	997000299	Lock Block Screw	2
29	996213001	Screw (M5 x 16 mm)	8



PARTS LIST — FIGURE M

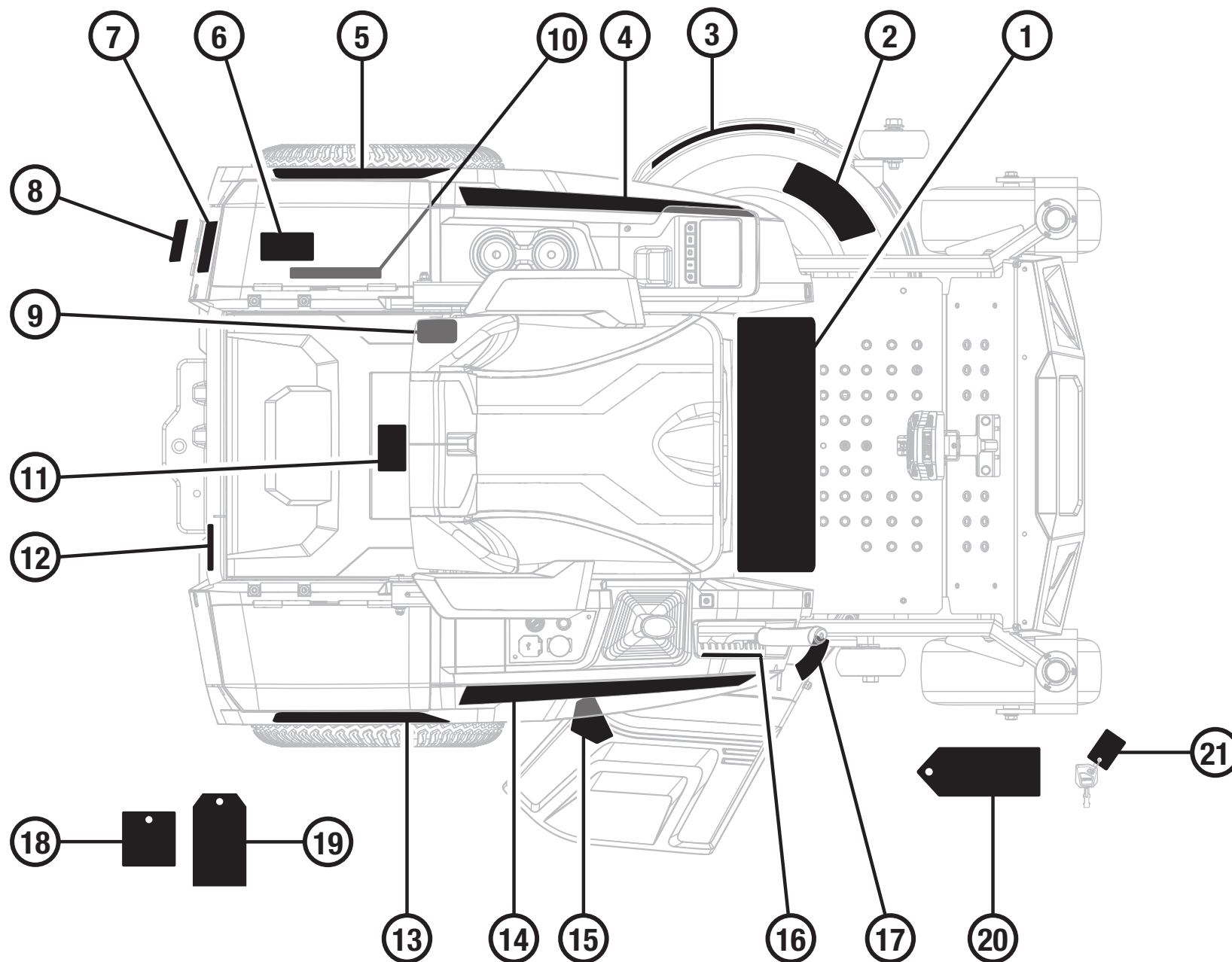
KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997000166	Tow Plate	1
2	997136001	Bolt (M8 x 55 mm, Hex Hd.)	1



**RYRM8002****PARTS LIST — FIGURE N**

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	997950001	LCD Module Assembly	1
2	997000006	LCD Buttons	1
3	997958001	Drive Deck Controller (Secondary)	1
4	997957001	Drive Deck Controller (Primary)	1
5	997959001	Deck Controller (Primary)	1
6	997960001	Deck Controller (Secondary)	1
7	281478009	TIC Assembly	1
8	997961001	Controller Mounting Plate	1
9	997149001	Beeper	1
10	997094001	Screw (M3 x 12 mm, Pan Hd.)	2
11	997098001	Screw (M6 x 16 mm)	22
12	996058001	Lock Washer (6 mm)	8
13	996281001	Washer (ID 6.4 x OD 12 x 1.6t)	8
14	997855001	12 Volt Converter	1
15	281496002	Mixing Board Assembly	1

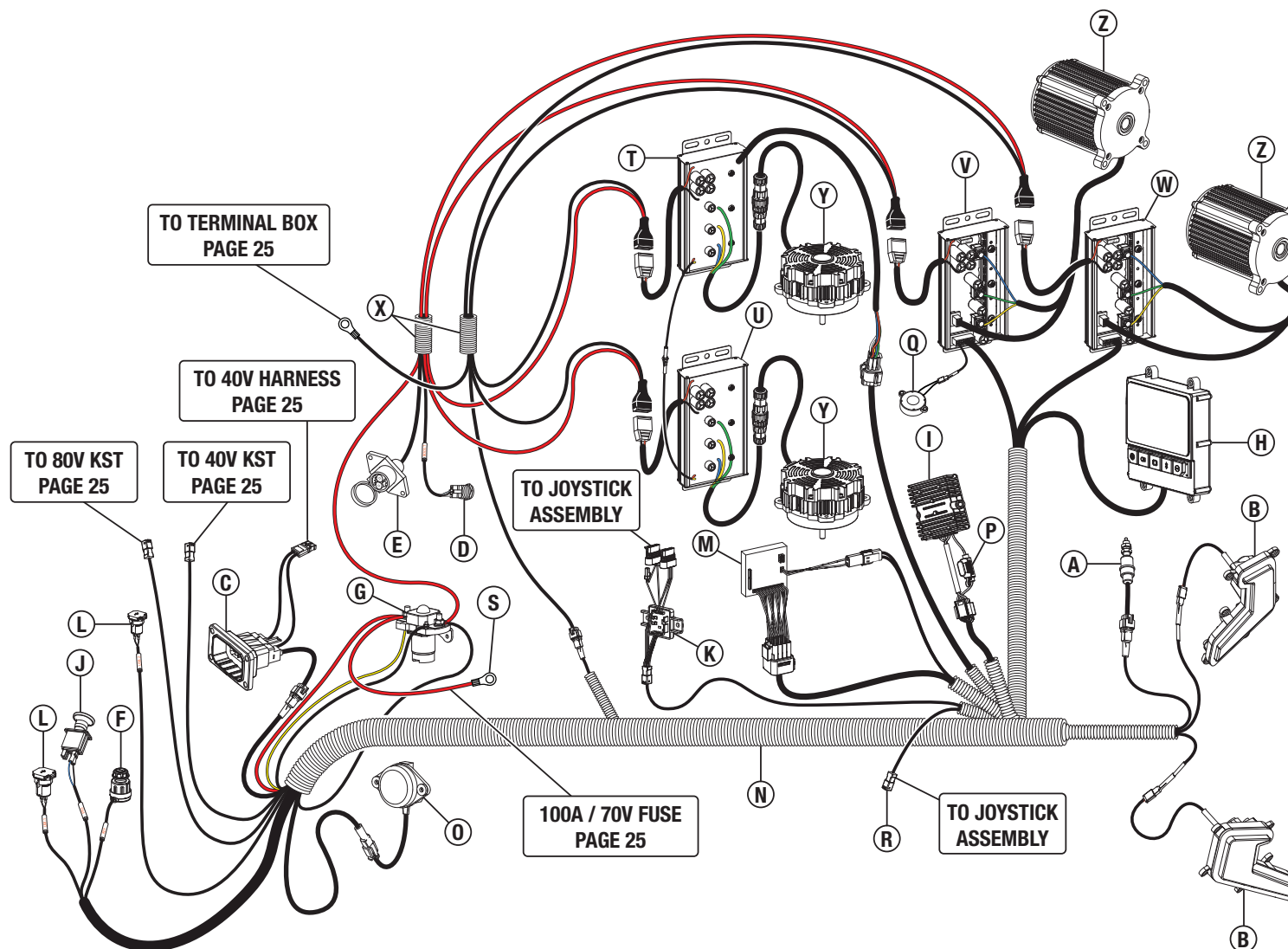
KEY NO.	PART NO.	DESCRIPTION	QTY.
16	997000080	Terminal Box Assembly	1
17	997000192	Main Relay (80V)	1
18	996565001	Bolt (M5 x 16 mm, Hex Hd)	2
19	996286001	Lock Washer (5 mm)	2
20	996295001	Washer (ID 5.3 x OD 12 x 1t)	2
21	997000230	Bolt (M6 x 25 mm, Socket Hd.)	6
22	997962001	Booster Mounting Plate	1
23	997976001	80V Booster	4
24	997148001	Screw (M6 x 20 mm)	16
Not Shown:			
	997000187	Main Wiring Harness	1
	997000188	Main Battery Cable	1
	997000189	Battery Cable 2	1
	997000190	Battery Cable 3	1
	997000191	Battery Cable 4	1



**RYRM8002****PARTS LIST — FIGURE O**

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	941166358	Danger/Warning/Joystick Control/Brake Label (Eng)	1
	941166357	Danger/Warning/Joystick Control/Brake Label (Sp)	1
2	940851207	Deck Warning Label (Eng)	1
	940851227	Deck Warning Label (Sp)	1
3	941166361	Cutting Width Deck Label	1
4	941705209	80V HP Brushless Hero Label	1
5	941705211	Sub Brand Logo Hero Label	1
6	961021150	40V Battery Connection Instrucion Card	1
7	941194396	QR Code	1
8	941166359	Charging Port Label (Eng)	1
	941166360	Charging Port Label (Sp)	1
9	941194395	Data Label	1
10	940779513	FCC Label	1
11	961021151	80V Battery Connection Instrucion Card	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
12	941021052	Bagging Label (Eng)	1
	941021054	Bagging Label (Sp)	1
13	941705212	Sub Brand Logo Non-Hero Label	1
14	941705210	80V HP Brushless Non-Hero Label	1
15	940851219	Cut Finger CPSC (Eng)	1
	940851226	Cut Finger CPSC (Sp)	1
16	941166362	Deck Height Adjustment Label	1
17	941166348	Discharge Chute Icons	1
18	941511019	Prop 65 Canada Label	1
19	918015038	Seat Assembly Tag	1
20	918015036	Joystick Hangtag	1
21	997000004	Key Chain Tag (Eng)	1
	997000005	Key Chain Tag (Sp)	



KEY	DESCRIPTION
A	Brake Switch
B	Headlights
C	Charger Port
D	Bagbooster Switch
E	Bagbooster Outlet
F	Switch w/Key
G	Relay
H	LCD Assembly
I	12 Volt Power Converter
J	Blade PTO
K	Mixing Board Assembly
L	USB
M	TIC Assembly
N	Main Wiring Harness
O	Seat Switch
P	5 Amp Fuse
Q	Beeper
R	Neutral Switch Connector
S	Main Battery Cable 2
T	Primary Deck Motor Controller
U	Secondary Deck Motor Controller
V	Primary Drive Motor Controller
W	Secondary Drive Motor Controller
X	Main Battery Cable 1
Y	Deck Motor
Z	Drive Motor

TO BATTERY CHARGING
PORT, PAGE 24

TO TERMINAL BOX
ASSEMBLY

TO MAIN WIRING
HARNESS, PAGE 24

TO MAIN WIRING
HARNESS, PAGE 24

TO TERMINAL BOX
ASSEMBLY

KEY	DESCRIPTION
A	40 Volt Battery Harness (Main Battery Cable 3)
B	80 Volt Booster
C	40 Volt Battery Connector
D	80 Volt Battery Harness (Main Battery Cable 4)
E	80 Volt Battery Connector
F	40 Volt KTS Connector
G	80 Volt KTS Connector
H	Terminal Box Assembly
I	100 AMP / 70 Volt Fuse

