



Parts Manual

Mfg. No: 52461x89A
Garden Tractor (1998)

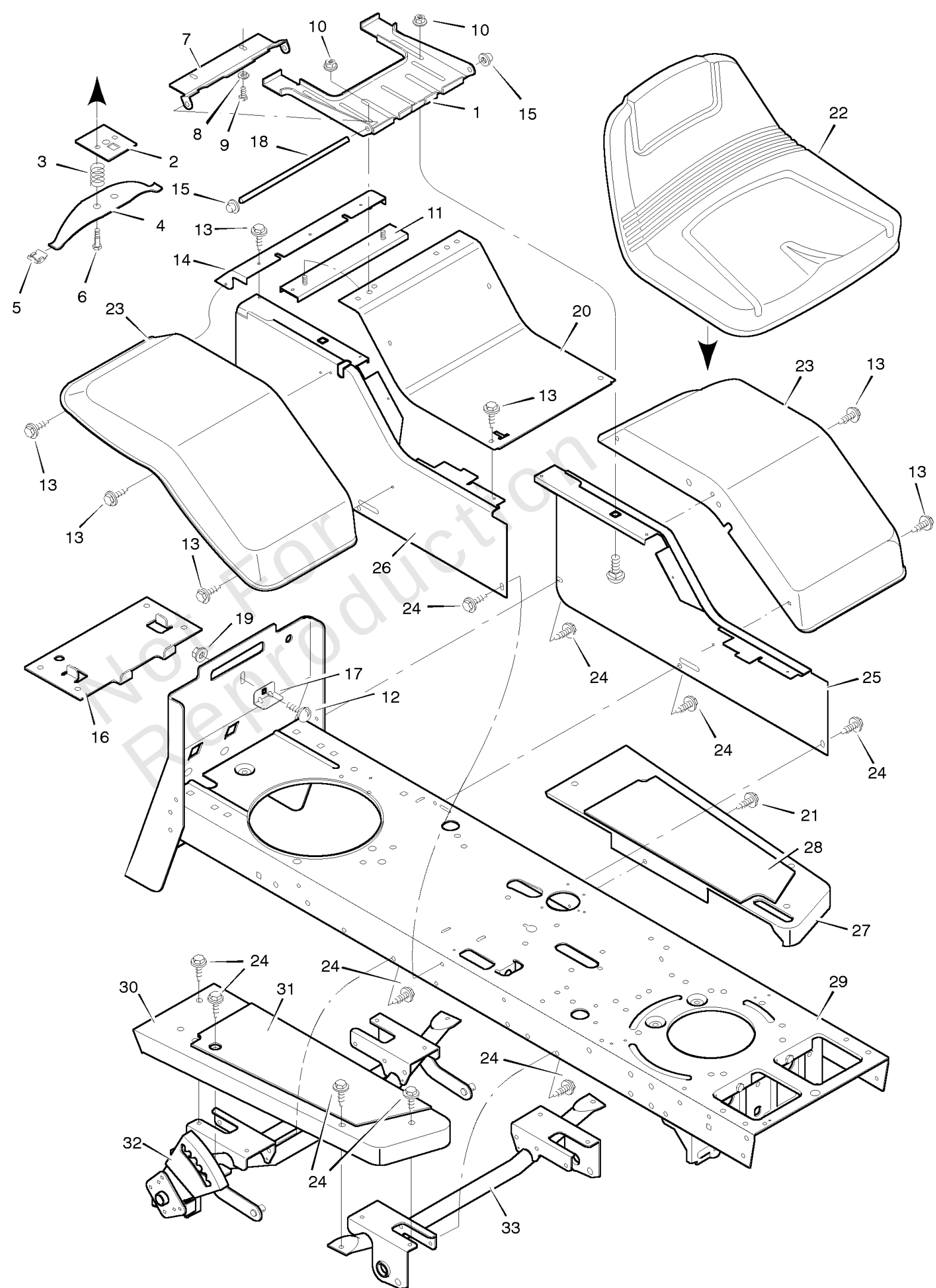
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Body Chassis

Note: Unless noted otherwise, use the standard torque specifications

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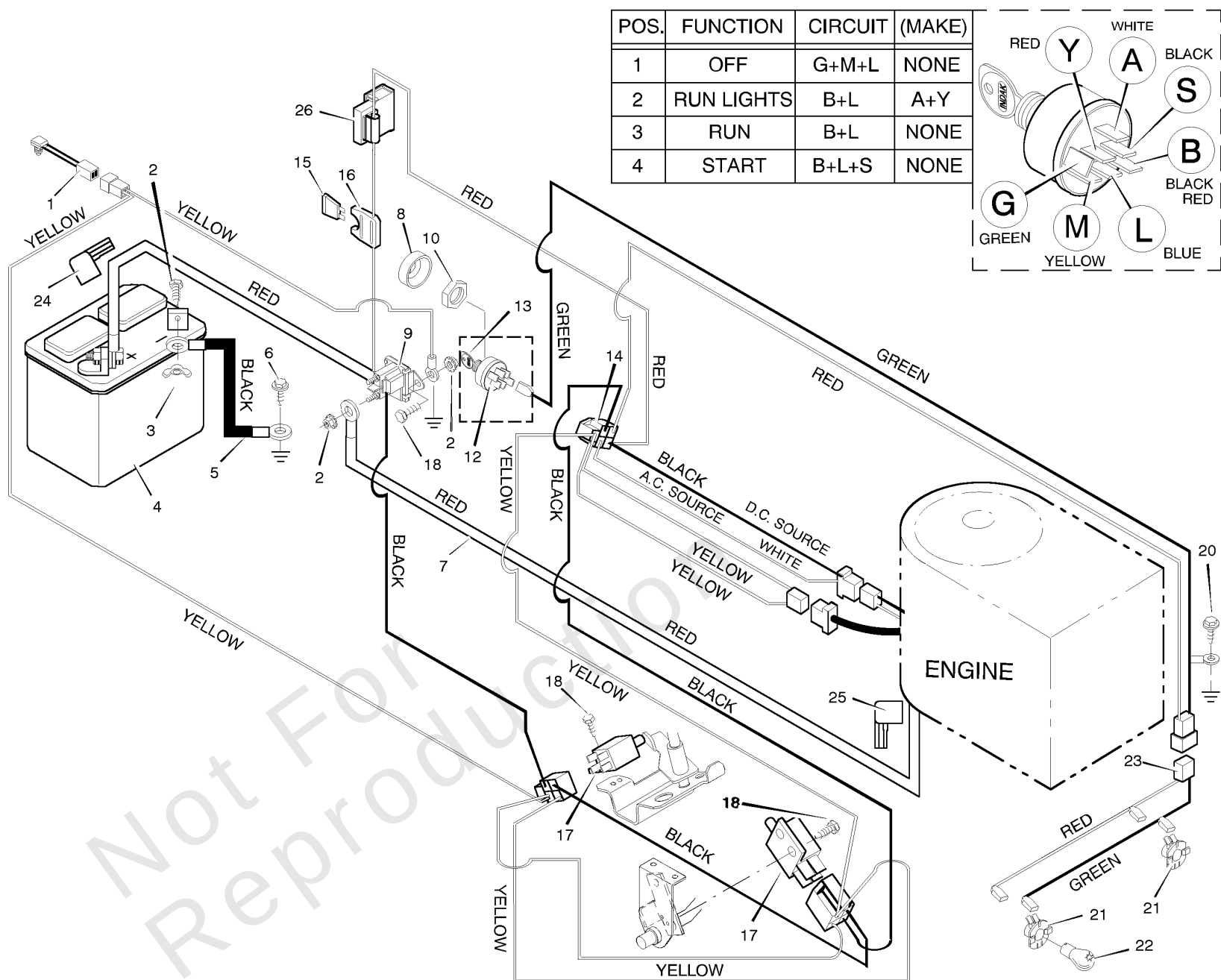
Body Chassis

REF NO	PART NO	QTY	DESCRIPTION
1	092546E701		Bracket, Seat
2	091963 Z		Plate Assembly, Switch
3	164X26MA		Spring, Compression
4	091964MA		Spring, Seat
5	091822MA		Glide, Spring
6	009X38MA		Bolt, Shoulder
7	92334E701		Support, Seat
8	018X16MA		Lockwasher
9	001X45MA		Bolt, Hex
10	015X88MA		Locknut, Flange
11	092601E701		Channel Assembly
12	002X53MA		Bolt, Carriage
13	26X263MA		SCREW.25-20 S-T
14	93043E717		Insert, Rear
15	028X23MA		Push On Cap
16	093331E700		Support, Battery
17	093336 Z		Clamp, Battery
18	091730 Z		Rod, Pivot
19	015X76MA		Locknut
20	93222E717		Panel, Top
21	0193X1MA		Fastener, Panel
22	092366		Seat
23	023006E020		Fender
24	26X249MA		Screw
25	93345E717		Panel, Left
26	93344E717		Panel, Right
27	93011E717		Running Board, Left
28	093277		Mat, Left
29	403353		Frame Channel
30	93010E717		Running Board, Right
31	093276		Mat, Right
32	093114E701MA		Lifter and Support Assembly
33	093013E701MA		Support Assembly, Front

Electrical System

Note: Unless noted otherwise, use the standard torque specifications

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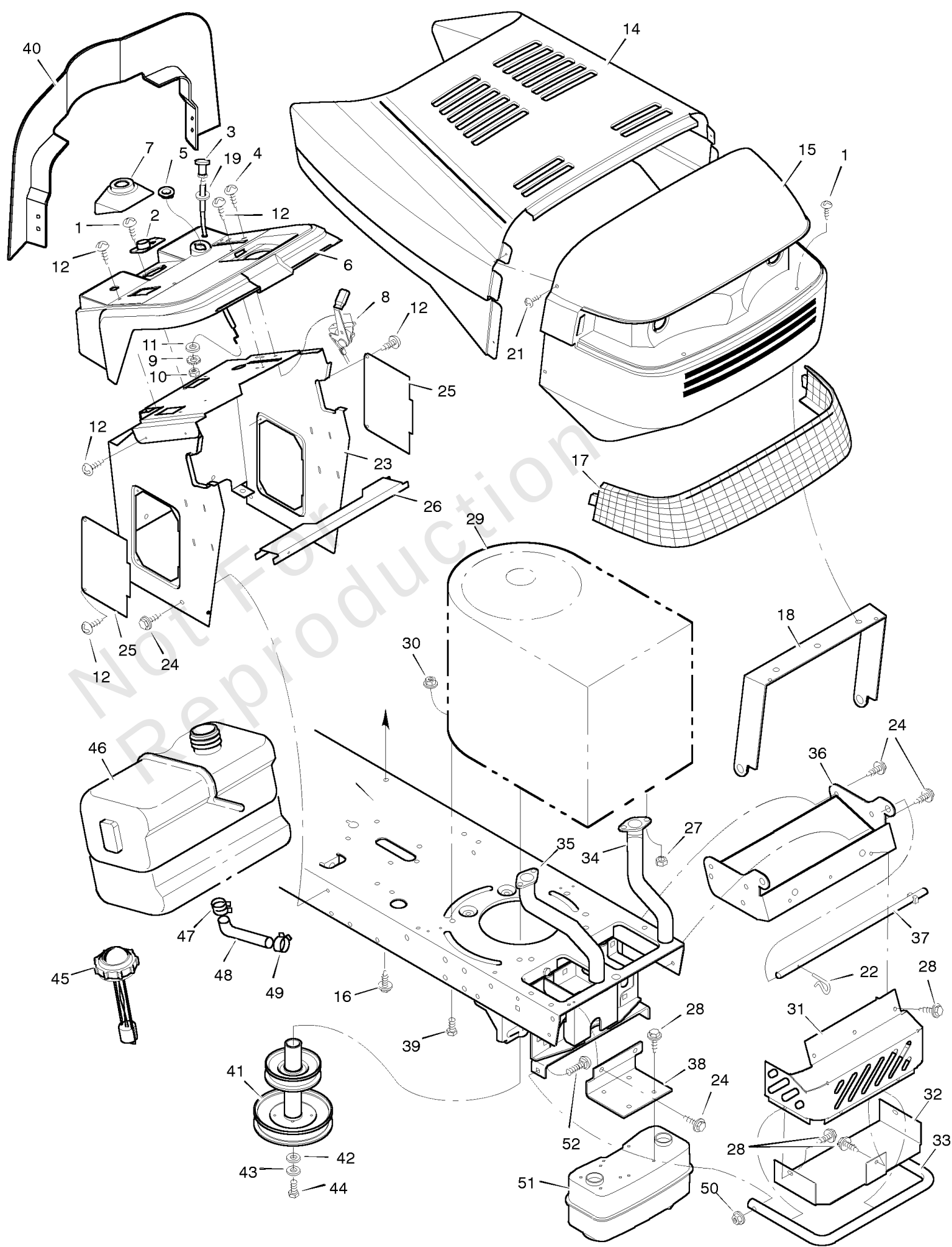
Electrical System

REF NO	PART NO	QTY	DESCRIPTION
1	091031		Switch, Seat Sensor
2	002X82MA		Bolt
3	014X79MA		Wingnut
4	091414		Battery
5	024X30		Cable, Battery Ground
6	26X249MA		Screw
7	024X29MA		Cable, Red Battery
8	091488		Cap, Ignition
9	024285		Solenoid
10	091489MA		Nut
12	092556MA		Switch, Ignition
13	020729		Key, Ignition
14	250X63		Harness, Chassis Wire
15	054212		Fuse
16	407078MA		Holder, Fuse
17	091299MA		Switch, Clutch
18	26X233MA		Screw
20	0025X2MA		Screw
21	092372		Socket, Light
22	090084MA		Bulb, Light
23	250X40MA		Harness, Light Wire
24	054148MA		Cover, Terminal
25	024196		Cover, -(Optional)
26	093156MA		Ammeter

Hood & Engine Mount

Note: Unless noted otherwise, use the standard torque specifications

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Hood & Engine Mount

REF NO	PART NO	QTY	DESCRIPTION
1	26X239MA		Screw
2	093144		Bearing, Steering Post
3	091326		Cable, Choke
4	26X201MA		Screw
5	055717MA		Bushing
6	093240		Dash
7	093176		Support, Bellows
8	093165MA		Throttle Control
9	0019X8MA		Lockwasher
10	015X33MA		Nut, Hex
11	017X52 Z		Washer
12	26X270		Screw
14	093215E020		Hood
15	093243		Grille -(Includes Lens)
16	26X263MA		SCREW.25-20 S-T
17	093139MA		Lens
18	93190 Z		Brace, Grille
19	17X185		Washer
21	009X47MA		Screw
22	0031X4MA		Pin, Hair
23	93163E717		Console Assembly
24	26X249MA		Screw
25	93007E717		Panel, Side Access
26	91329E700		Support, Fuel Tank
27	0190X5		Nut, Hex
28	26X195MA		Screw
29	-----		Engine *
30	15X118MA		Nut, Flange
31	093251		Shield, Heat
32	94958		Shield, Lower Heat
33	093252		Guard, Muffler
34	94355E701		Pipe, Left Exhaust
35	94354E701		Pipe, Right Exhaust
36	94370E700		Shield, Heat
37	093192 Z		Rod, Pivot
38	93256		Bracket, Muffler
39	001X66MA		Bolt, Hex
40	094357		Baffle
41	093246 Z		Pulley Assembly, Stack
42	17X170MA		WASHER.46.97.25 FLAT
43	019X35MA		Lockwasher
44	01X140MA		Bolt, Hex
45	091349		Cap, Fuel
46	093148		Fuel Tank
47	095197MA		Clamp, Hose -(Included with Ref. No. 53)
48	093197		Fuel Line -(Included with Ref. No. 53)

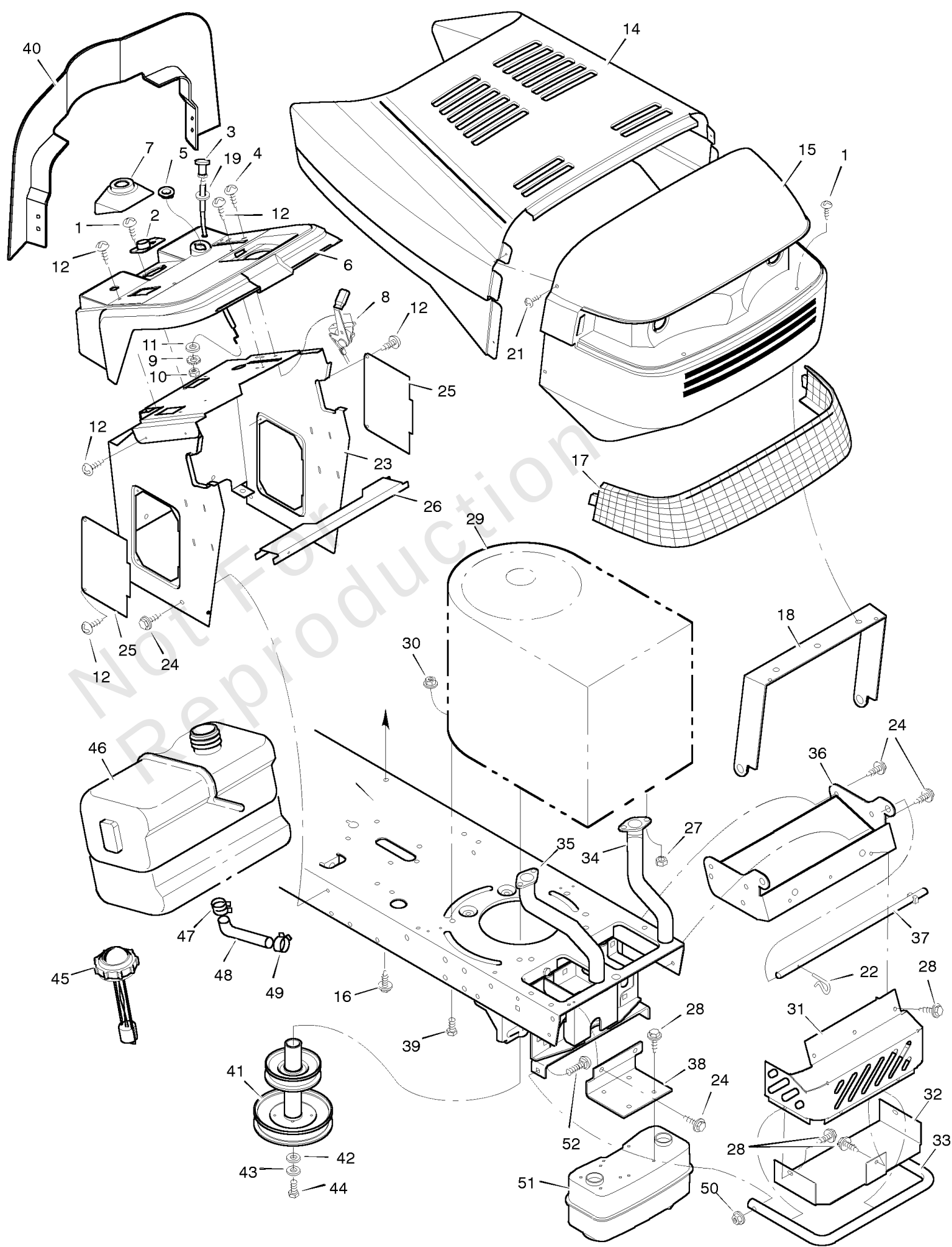
Footnotes:

Note* Parts are available from an Authorized Service Center. See "Engines, Gasoline" or "Gasoline Engines" in the yellow pages of the telephone directory.

Hood & Engine Mount

Note: Unless noted otherwise, use the standard torque specifications

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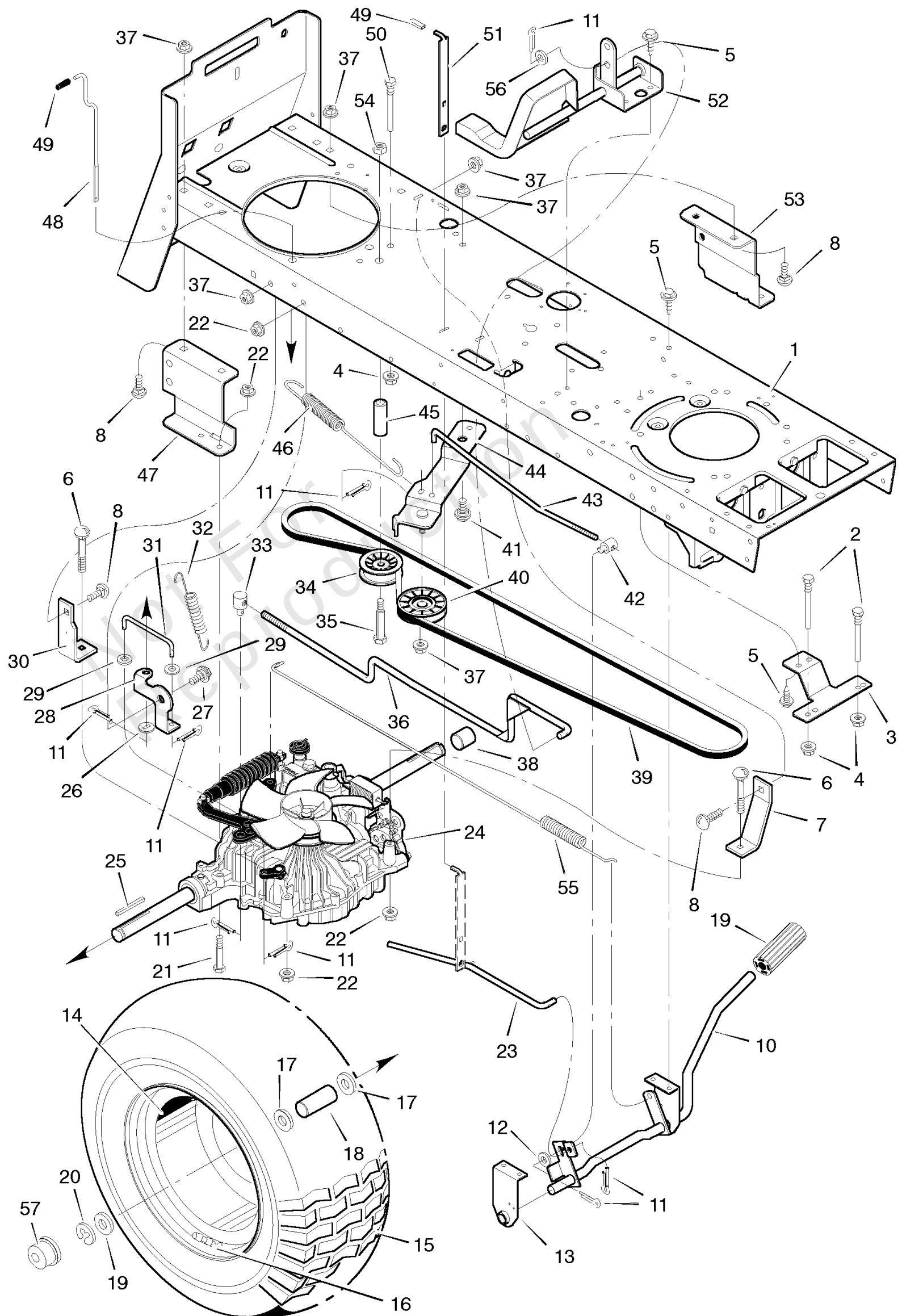
Hood & Engine Mount

REF NO	PART NO	QTY	DESCRIPTION
49	095197MA		Clamp, Hose
50	015X76MA		Hex, Flange nut
51	093259MA		Muffler
52	002X81MA		Carriage Bolt
--	F-98871		Instruction Book
--	F-98872		Parts List

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Footnotes:

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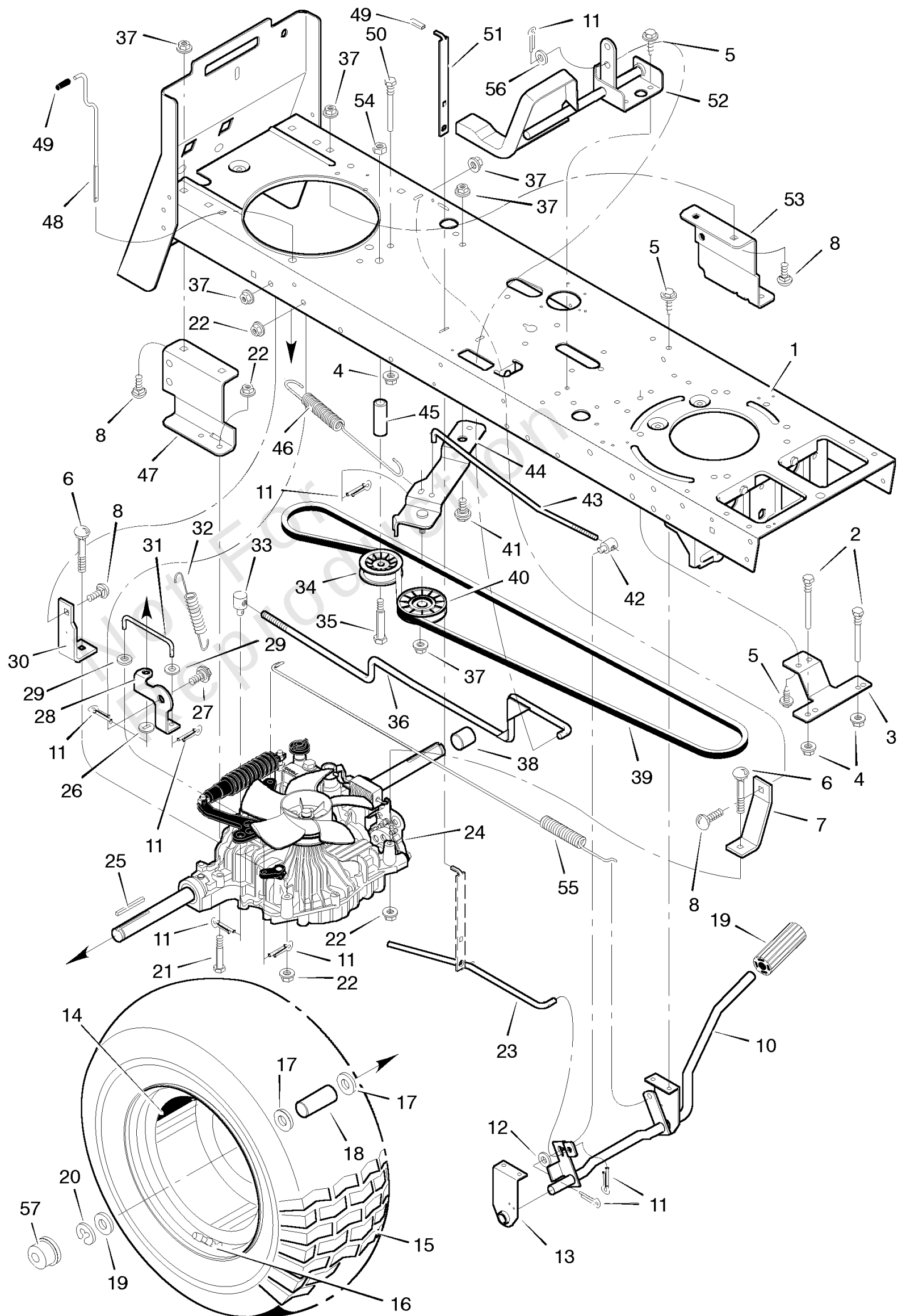


Motion Drive

REF NO	PART NO	QTY	DESCRIPTION
1	403353		Frame Assembly
2	093349MA		GUIDE SCREW - ZINC
3	093344E701		Bracket, Belt Guide
4	015X79MA		Nut, Flange
5	26X249MA		Screw
6	002X58		Bolt, Carriage
7	093321E700		Bracket, Torque
8	002X78		Bolt, Carriage
9	021544MA		Pedal
10	093325E700		Lever Assembly, Pedal
11	030X20MA		Pin, Cotter
12	017X52		Washer
13	091713E701		Support, Pedal
14	093263-601		Wheel and Tire Assembly
15	407920		Tire * -(Included with Ref. No. 14)
--	407047MA		Tube -(Included with Ref. No. 14)
16	024373MA		VALVE STM&CP,TR41 SE
17	17X190		Washer
18	252X47		Spacer
19	17X194 Z		Washer
20	011X23MA		E-Ring
21	01X155MA		Bolt, Hex
22	015X88MA		Nut
23	93339		Rod, Latch
24	093352		Transaxle
25	024039MA		Key, Square
26	17X171 Z		Washer
27	009X42MA		Bolt, Shoulder
28	93334		Bracket, Dump Valve
29	017X17		Washer
30	093322E700		Bracket, Torque
31	093328 Z		Rod, Dump Valve
32	165X84		Spring, Extension
33	092132MA		NUT, Adjusting, 1/2-13
34	091179MA		Pulley, Idler
35	01X154		Bolt, Hex
36	093333 Z		Rod, Control
37	015X84MA		Nut
38	252X48		Spacer
39	037X82MA		Belt
40	091178		Pulley, Idler
41	009X39MA		Bolt, Shoulder
42	021920ZMA		Nut, Adjusting
43	093326 Z		Rod, Clutch
44	093324 Z		Bracket, Idler
45	093347		Spacer
46	165X109MA		Spring, Extension

Footnotes:

Note* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.



Motion Drive

REF NO	PART NO	QTY	DESCRIPTION
47	093330E700		Bracket, Right Transaxle
48	92675 Z		Rod, Dump Valve
49	092724		Grip
50	091754MA		Guide, Belt
51	93338E700		Lever, Parking Brake
52	93346		Pedal Assembly
53	093329E700		Bracket, Left Transaxle
54	015X41MA		Nut
55	165X110		Spring
56	017X57MA		Washer
57	094618MA		HUB CAP

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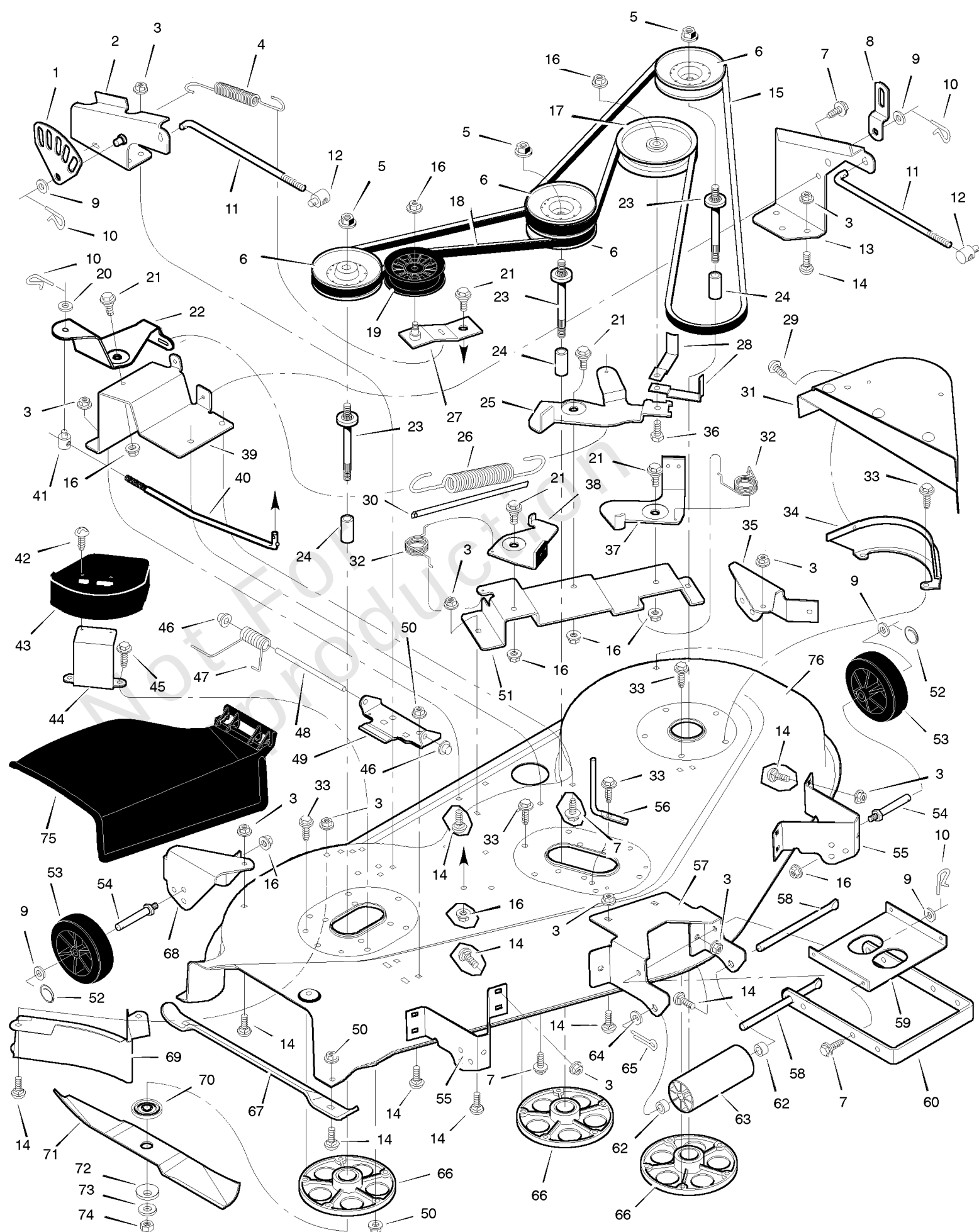
Footnotes:

Note* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

Mower Housing

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 52461x89A



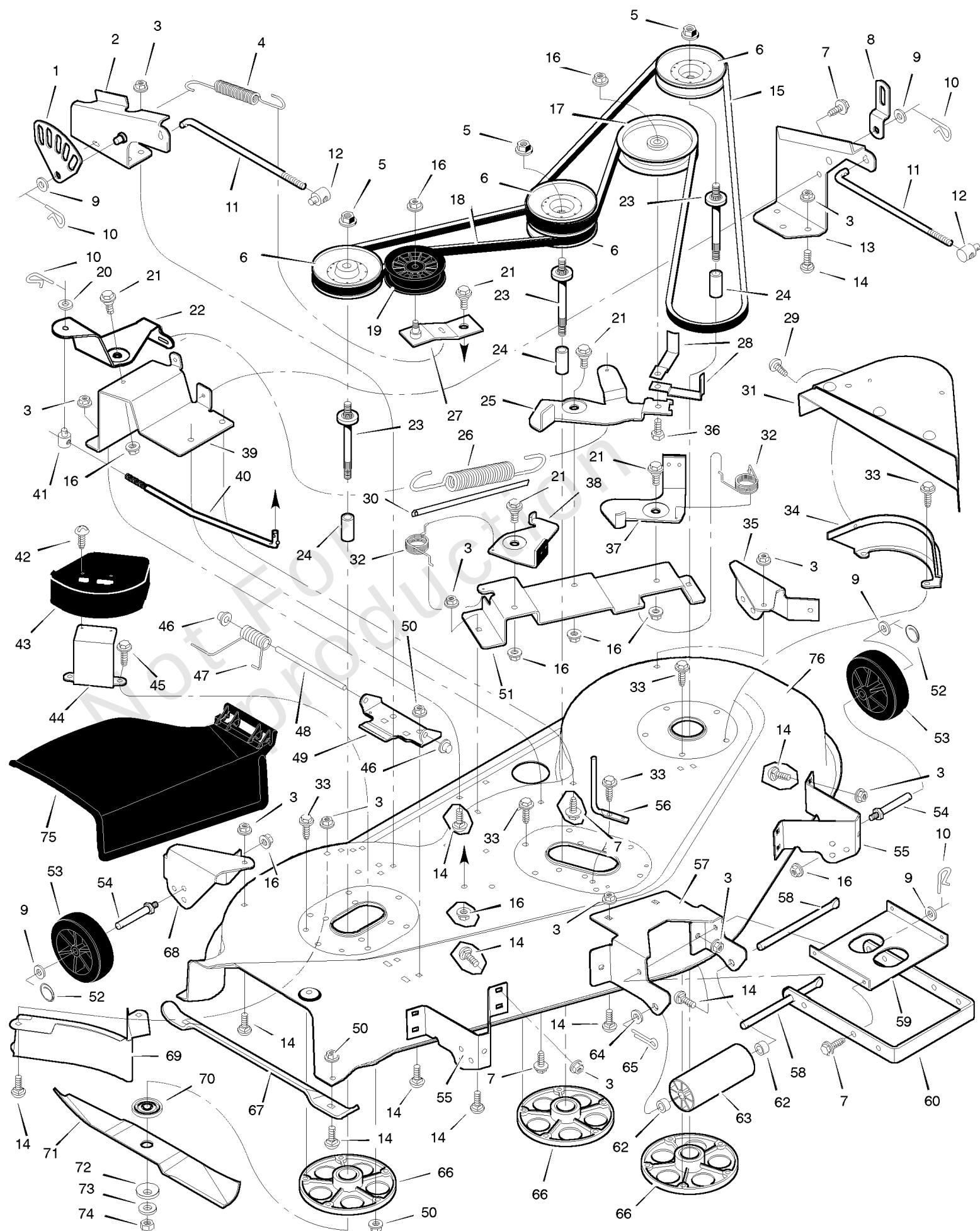
Mower Housing

REF NO	PART NO	QTY	DESCRIPTION
1	094822E700		Plate, Adjuster
2	094818E700		Bracket Assembly, RH Lifter
3	015X79MA		Nut, Flange
4	165X79MA		Spring, Extension
5	15X121		Nut, Flange
6	094856		Pulley
7	26X249MA		Screw
8	094823E700		Link, Suspension
9	017X91MA		Washer
10	0031X4MA		Hair Pin
11	092134 Z		Rod, Adjusting
12	092132MA		NUT, Adjusting, 1/2-13
13	094820E701		Bracket Assembly, LH Lifter
14	002X53MA		Bolt, Carriage
15	037X93MA		Belt, Primary Blade Drive
16	015X84MA		Nut, Flange
17	095068MA		Pulley, Idler
18	037X92MA		Belt, Secondary Blade Drive
19	091590		Pulley, Backside Idler
20	17X124MA		Washer
21	009X39MA		Bolt, Shoulder
22	094875E700		Bellcrank, PTO
23	094129		Shaft, Splined
24	094130MA		Spacer
25	094873E700		Arm-Idler, Clutching
26	165X126MA		Spring, Extension
27	94701		Arm Assembly, RH Idler
28	094809MA		Guide, Belt
29	26X277MA		Screw
30	092163MA		Strip, Indicator
31	095044E700		Cover, LH Pulley and Extension
32	166X41MA		Spring, Torsion
33	0025X7MA		Screw
34	94643E700		Bracket, Pulley Cover
35	094717E700		Bracket, Left Rear Gauge Wheel
36	01X111MA		Bolt, Idler Pulley
37	95074		Brake Assembly, Left
38	94698		Brake Assembly, Right
39	094874E700		Bracket, Bellcrank
40	094897 Z		Link, PTO
41	021920ZMA		Nut, Adjusting
42	26X250MA		Screw
43	092145MA		Cover, Right Pulley
44	094964E700		Bracket, Right Pulley Cover
45	001X84MA		CAPSCREW, Hex Head, 5/16-18 x 1
46	028X23MA		Push On Cap
47	166X34MA		Spring, Torsion
48	092159ZMA		Rod, Deflector
49	092104E701MA		Bracket, Hinge
50	015X88MA		Nut, Flange
51	094699E700		Plate, Brake Arm

Mower Housing

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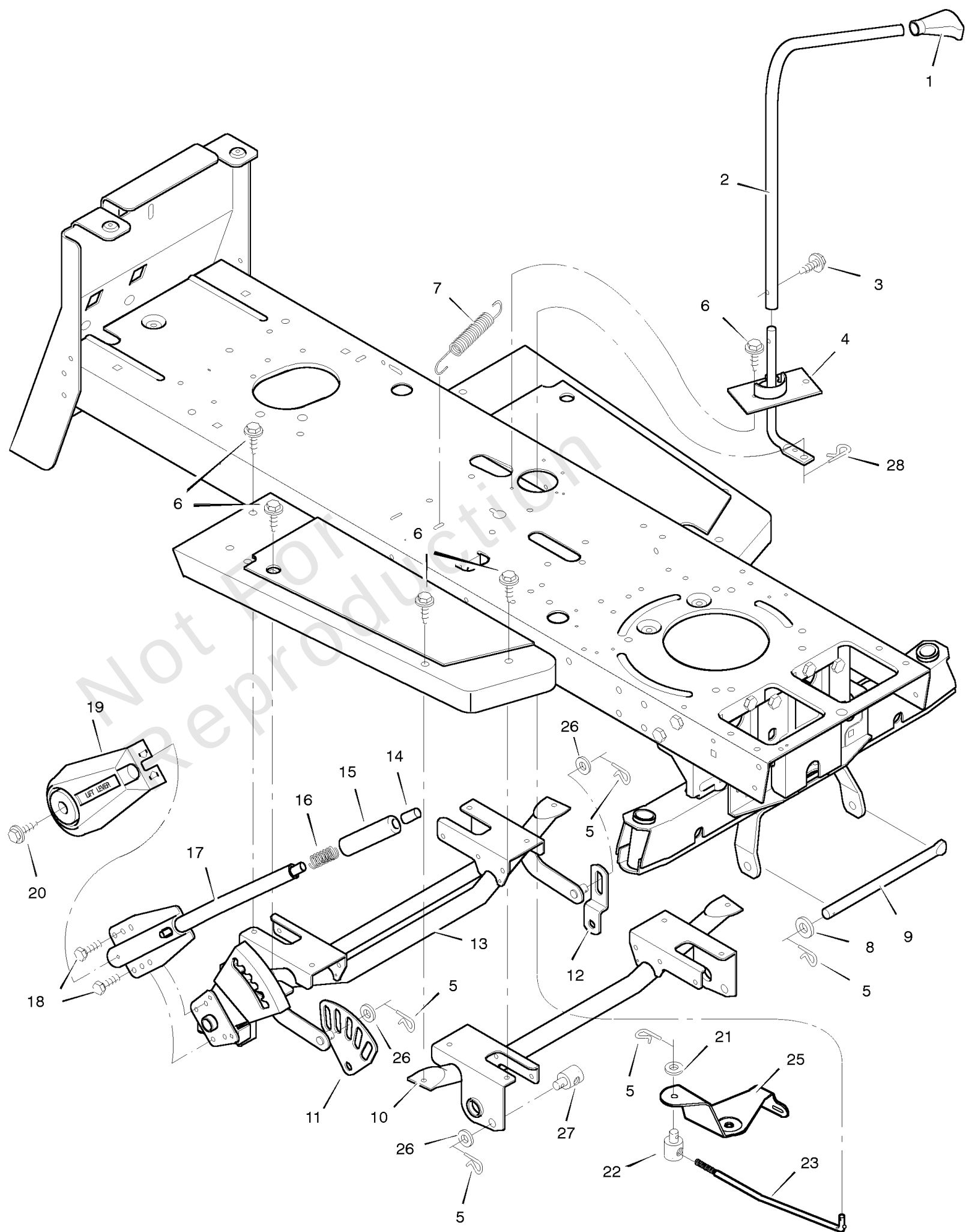
Mower Housing

REF NO	PART NO	QTY	DESCRIPTION
52	031X11MA		Ring, Locking
53	092683MA		Wheel, Gauge
54	094025MA		BOLT, Gauge Wheel
55	095180E700		Bracket, Front Gauge Wheel
56	92424		Guide, Belt
57	094693E700MA		Bracket, Front Deck
58	94996 Z		Rod, Roller
59	094604E700		Stiffener
60	094765E700		Bracket, Front Suspension
62	091925MA		Spacer
63	092137MA		Roller
64	17X103MA		Washer
65	030X49MA		Pin, Cotter
66	092574		Housing, Jackshaft
67	94715E700		Guard, Horn
68	094716E701		Bracket, Right Rear Gauge Wheel
69	094965E700		Baffle, Housing
70	092466MA		Adapter, Blade
71	094692E701MA		Blade
72	17X166MA		Washer, Belleville
73	17X165MA		Washer
74	15X100MA		Nut, Hex
75	092100MA		Deflector, Chute
76	094986E700		Housing, Blade

Mower Housing Suspension

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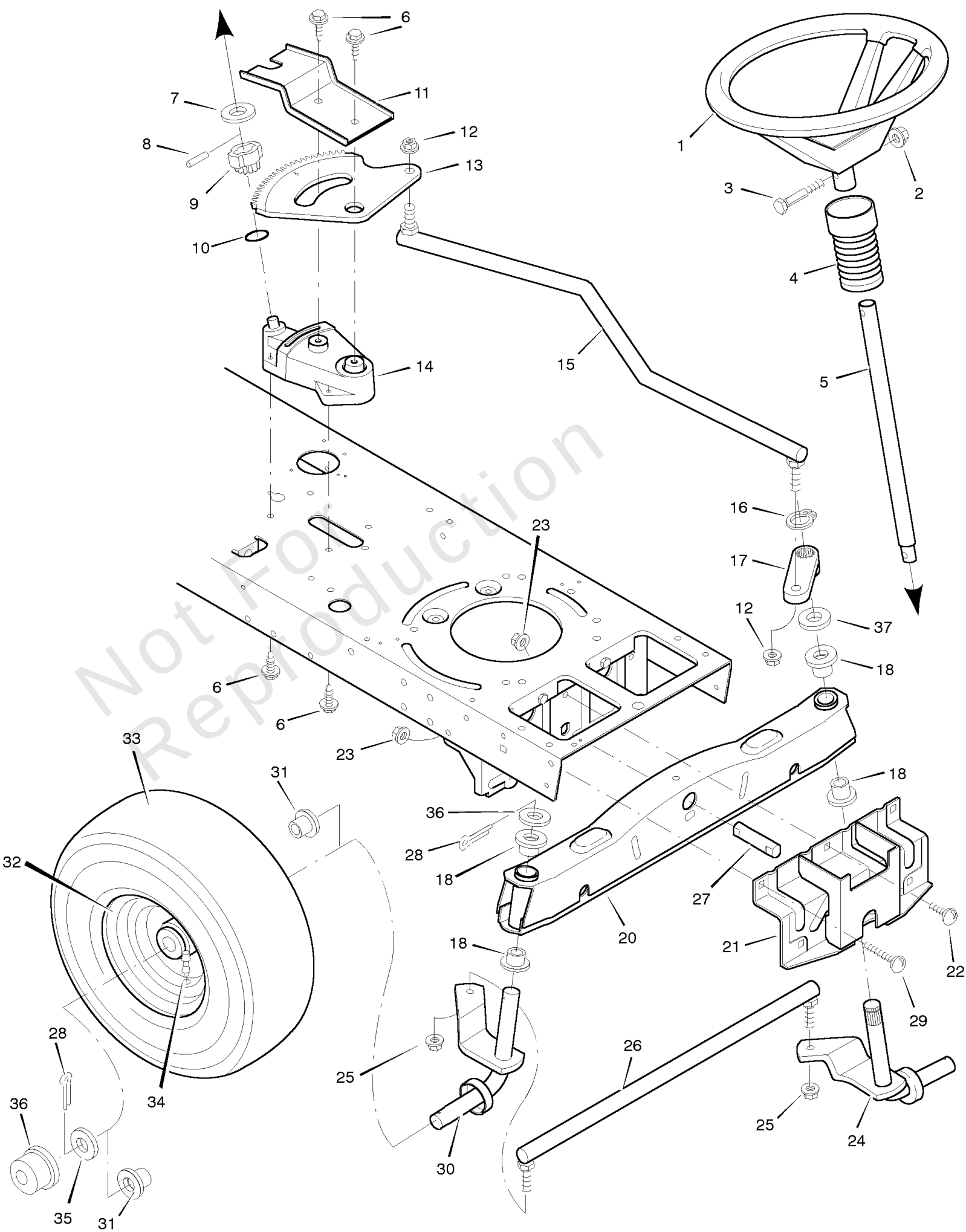
Mower Housing Suspension

REF NO	PART NO	QTY	DESCRIPTION
1	092698MA		Grip
2	093162 Z		Lever, Blade Control
3	0025X3MA		Screw, Hex
4	093218E700		Control Assembly, Blade
5	0031X4MA		Pin, Hair
6	26X249MA		Screw
7	165X92MA		Spring, Extension
8	017X91MA		Washer
9	094158ZMA		Pin, Pull
10	093013E701MA		Support Assembly, Front
11	094822E700		Plate, Adjuster
12	094823E700		Link, Suspension
13	093114E701MA		Support, Lifter
14	092572MA		Button, Push
15	092783MA		Grip
16	164X21MA		Spring, Compression
17	091823SEMA		Handle Assembly
18	026X49MA		Screw
19	092157MA		Cover, Lift Lever -(Optional)
20	26X263MA		SCREW.25-20 S-T
21	17X124MA		Washer
22	021920ZMA		Nut, Adjusting
23	094897 Z		Link, PTO
24	017X47MA		Washer
25	094875E700		Bracket, Pivot
26	017X91 Z		Washer
27	092132MA		NUT, Adjusting, 1/2-13
28	0031X6MA		Pin, Hair

Steering

Note: Unless noted otherwise, use the standard torque specifications

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Steering

REF NO	PART NO	QTY	DESCRIPTION
1	092076		Wheel, Steering
2	15X118MA		Nut, Hex
3	001X66MA		Bolt, Hex
4	054789MA		Bellows
5	093039MA		Post Assembly, Steering
6	26X249MA		Screw
7	17X177		Washer -(Included with Ref. No. 5)
8	032X77		Pin, Spring -(Included with Ref. No. 5)
9	093037MA		Gear Assembly, Pinion
10	093068MA		O-Ring -(Included with Ref. No. 9)
11	093081E700		Clip, Gear Retainer
12	15X112MA		NUT.50-20 HEX FLG SER
13	093062MA		Gear, Sector
14	093038MA		Support, Steering
15	093061E701MA		Link, Drag
16	011X22MA		E-Ring
17	93059E700		Arm, Drag Link
18	093058MA		Bearing
20	093219E701MA		Axle Assembly (with grease fittings)
21	093254E700		Hanger Assembly, Axle
22	002X56		Bolt, Carriage
23	015X84MA		Locknut, Flange
24	093031E701MA		Spindle Assembly, Left
25	015X87		Locknut, Flange
26	93060E700		Rod, Tie
27	021469MA		Pin, Pivot
28	030X49MA		Pin, Cotter
29	002X60		Bolt, Carriage
30	093030E700		Spindle Assembly, Right
31	093064MA		Bearing, Wheel -(Included with Ref. No. 32)
32	093263-601		Wheel & Tire Assembly
33	407920		Tire * -(Included with Ref. No. 32)
--	407047MA		Tube -(Included with Ref. No. 32)
34	024373MA		VALVE STM&CP,TR41 SE -(Included with Ref. No. 32)
35	17X193MA		Washer
36	094618MA		HUB CAP -(Optional)
37	017X75MA		Shim

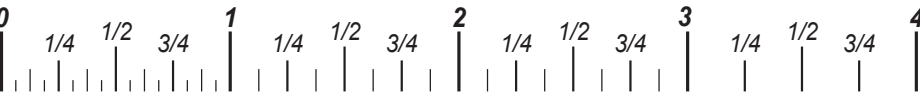
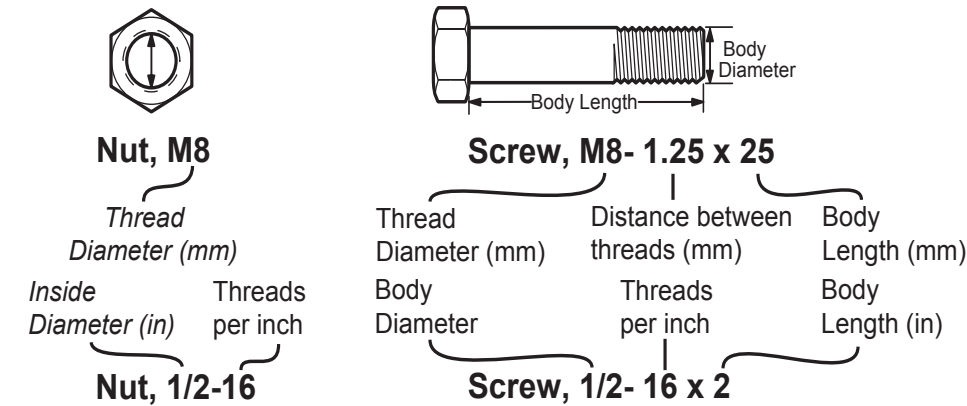
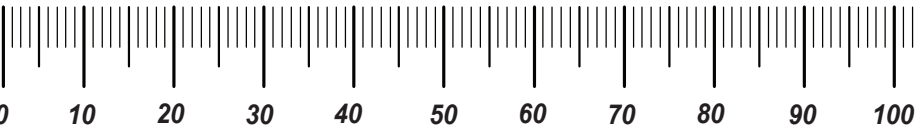
Footnotes:

Note* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

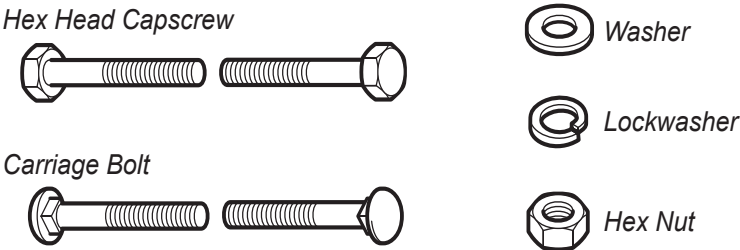
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types



Wrench & Fastener Size Guide

				
1/4" Bolt or Nut Wrench—7/16"	5/16" Bolt or Nut Wrench—1/2"	3/8" Bolt or Nut Wrench—9/16"	7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

