



Parts Manual

Mfg. No: 465307x31A
Lawn Tractor (2005)

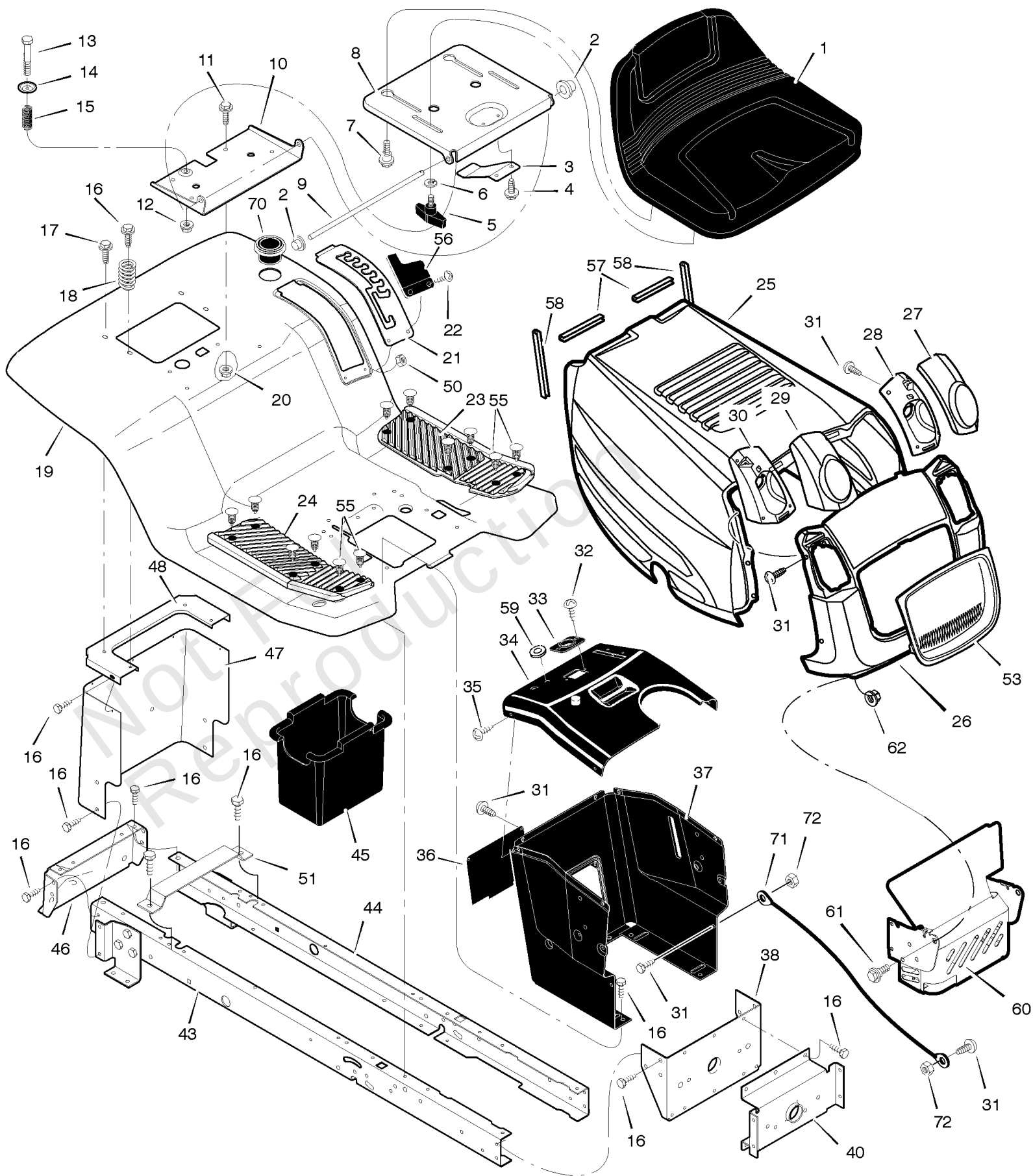
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Not For
Reproduction

Chassis & Hood

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 465307x31A



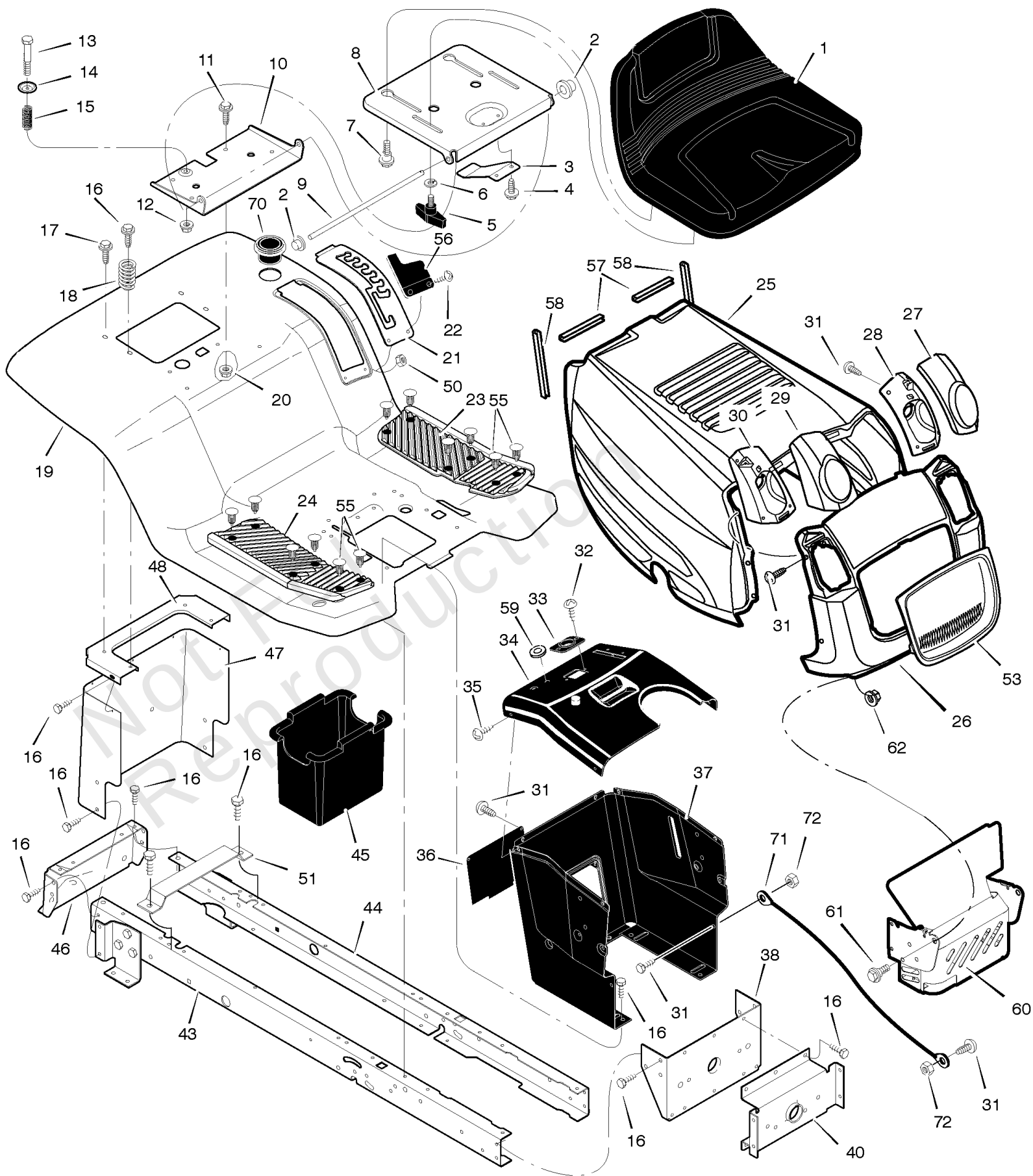
Chassis & Hood

REF NO	PART NO	QTY	DESCRIPTION
1	1001028MA		Seat
2	028X23MA		Cap, Push On
3	094057MA		Spring
4	26X229MA		Screw
5	1001054MA		Bolt, Wing
6	017X47MA		Washer
7	009X56MA		Bolt, Shoulder
8	094154E701MA		Support, Seat
9	094156ZMA		Rod, Pivot
10	1001648E701MA		Bracket, Pivot
11	001X45MA		Bolt
12	015X89MA		NUT .25-20 FLANGELOCK
13	009X55MA		Bolt, Shoulder
14	094155 Z		Washer
15	164X31		Spring
16	26X249MA		Screw
17	26X263MA		SCREW.25-20 S-T
18	164X30MA		Spring
19	1001557E700MA		Deck, Seat
20	15X123MA		Nut
21	094194E701MA		Plate, Index
22	009X47MA		Screw
23	095408		Mat, Left
24	1001827		Mat, Right
25	1001537E700MA		Hood
26	1001533E700MA		Grille
27	1001552MA		Lens, Left
28	1001550		Housing, Left Headlamp
29	1001551MA		Lens, Right
30	1001549		Housing, Right Headlamp
31	26X270		Screw
32	26X238MA		Screw
33	1001491MA		Bearing, Steering
34	1001593E701MA		Dash
35	26X201MA		Screw
36	093007E701MA		Panel, Access
37	095318E701MA		Support, Dash
38	1001270E701MA		Bracket, Rear Hanger
40	094007E701MA		Axle, Hanger
43	1001928E701MA		RAIL - FRAME RH
44	1001927E701		Frame, Left
45	690424MA		Container, Battery
46	1001002E701		Plate, Hitch
47	1001906E700		Plate, Rear
48	94186E700		Top, Rear Plate
50	015X81MA		NUT#10-24 MCLEANLOCK
51	690482E701		Bracket, Battery Support
53	1001541MA		Insert, Grille
55	0193X1MA		Fastener, Panel
56	094680MA		Cover, Detent
57	1001652MA		Trim, Hood (3.75")

Chassis & Hood

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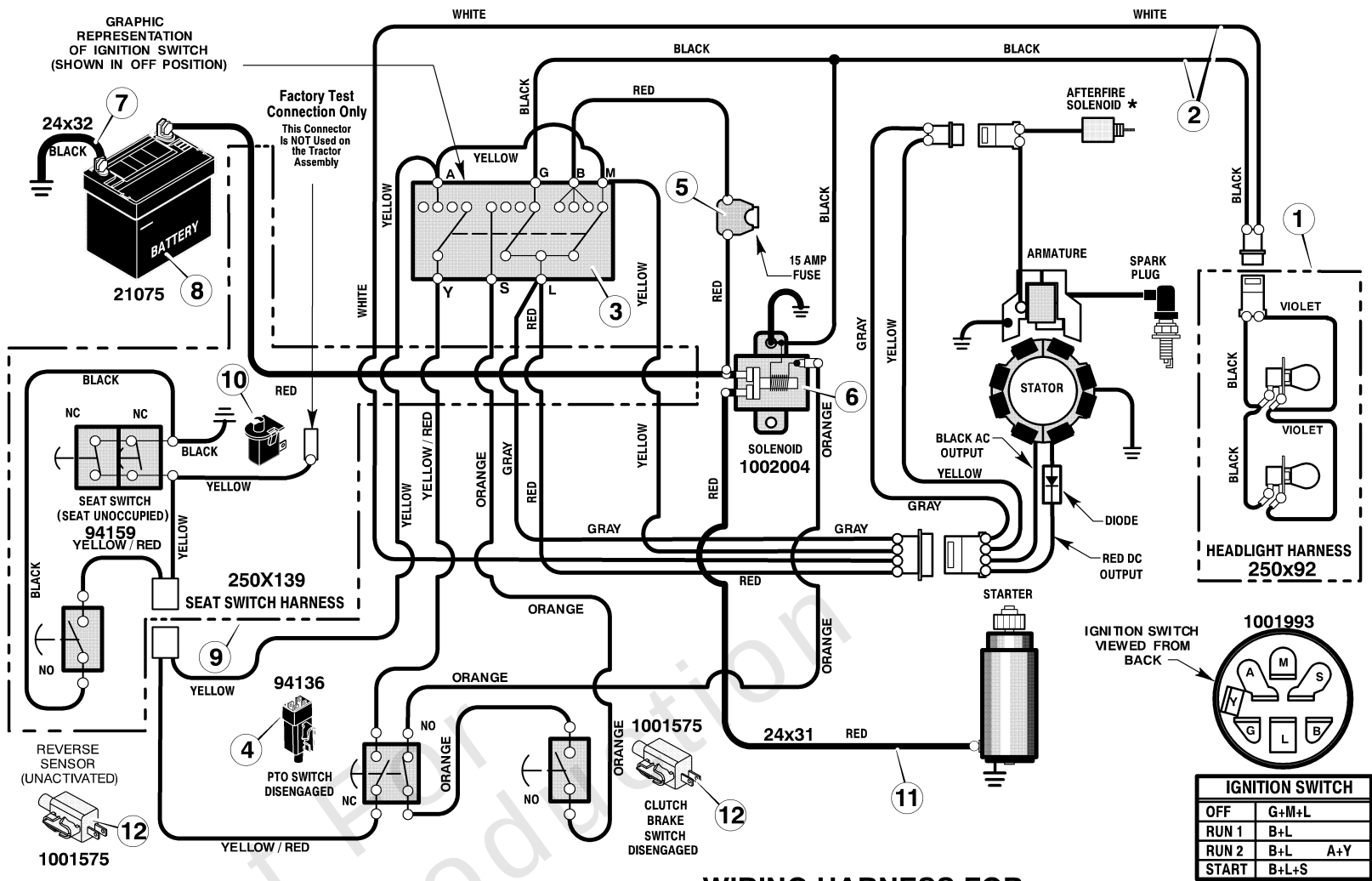
Chassis & Hood

REF NO	PART NO	QTY	DESCRIPTION
58	1001653MA		Trim, Hood (6.5")
59	1001755MA		Grommet, Parking Brake
60	1001456		Shield, Heat
61	009X58MA		Bolt, Shoulder
62	15X124		Locknut, Flange
70	1001542MA		Holder, Cup
71	1001953MA		Lanyard
72	015X71MA		Nut
--	690622MA		Parts Bag, Assembly
--	F-050731L		Instruction Book & Parts List

Electrical System

Note: Unless noted otherwise, use the standard torque specifications

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WIRING HARNESS FOR:
GEAR DRIVE TRACTOR
*AFTERFIRE SOLENOID OPTIONAL

MAIN HARNESS: 250x138
SEAT : 250x139; LIGHT : 250x92

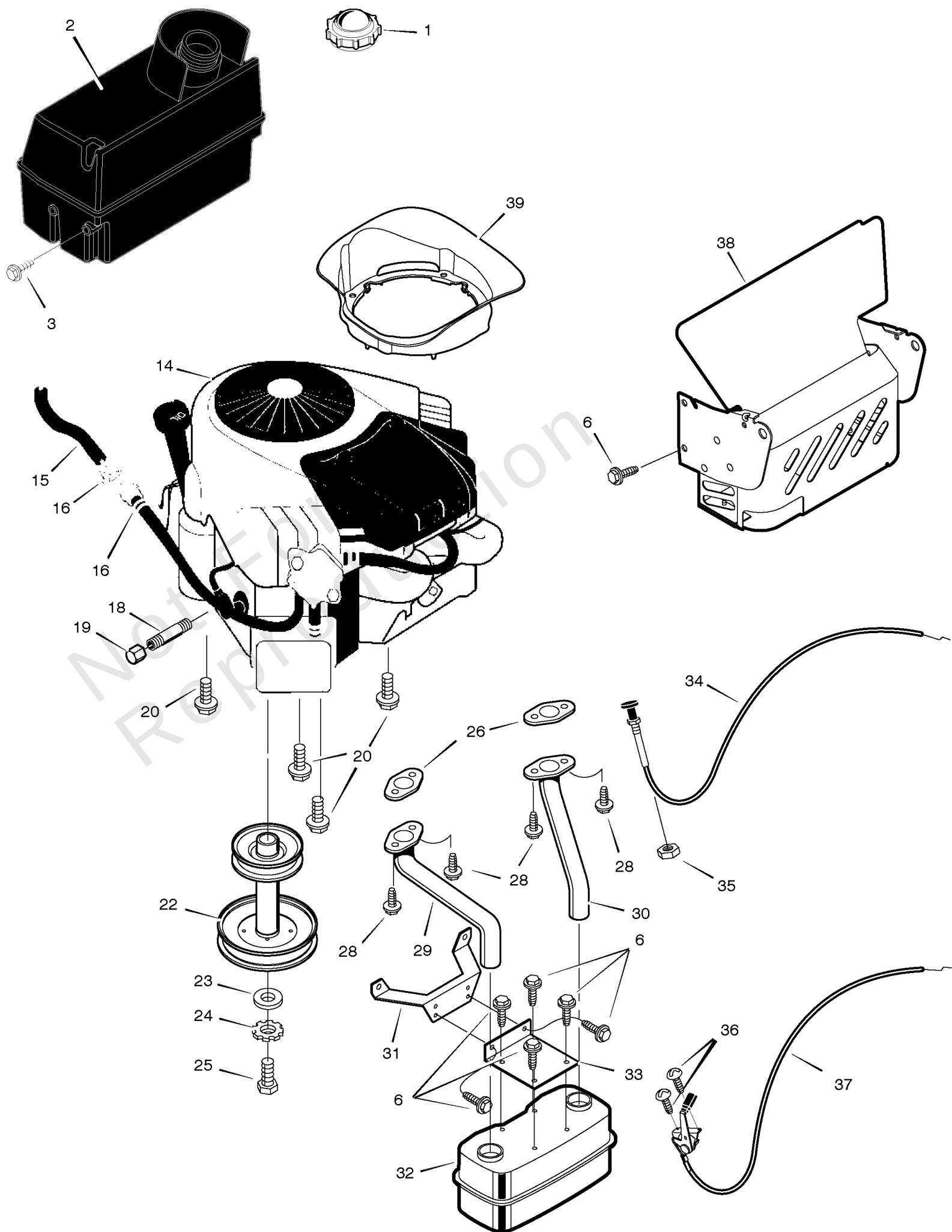
Electrical System

REF NO	PART NO	QTY	DESCRIPTION
1	250X92MA		Harness, Light Wire
--	1001716MA		Socket, Light
--	090084MA		Bulb, Light
2	250X138MA		Harness, Chassis Wire
3	1001993MA		Switch, Ignition
--	020729		Key, Ignition
--	091489MA		Nut, Hex
--	091488		Cap, Ignition
4	094136MA		Switch, Limit (PTO)
5	302031MA		Fuse
--	407078MA		Holder, Fuse
6	1002004MA		Solenoid
--	26X229MA		Screw, Mounting
--	15X116MA		Locknut
7	024X32MA		Cable, Battery Ground
--	26X229MA		Screw, Ground Cable
8	021075		Battery
--	002X82MA		Bolt, Carriage
--	014X79MA		Wingnut
9	250X139MA		Harness, Seat Switch Wire
10	094159MA		Switch, Seat Sensor
11	024X31MA		Cable
12	1001575MA		Switch, Select Reverse / Clutch Brake

Engine Mount Assembly

Note: Unless noted otherwise, use the standard torque specifications

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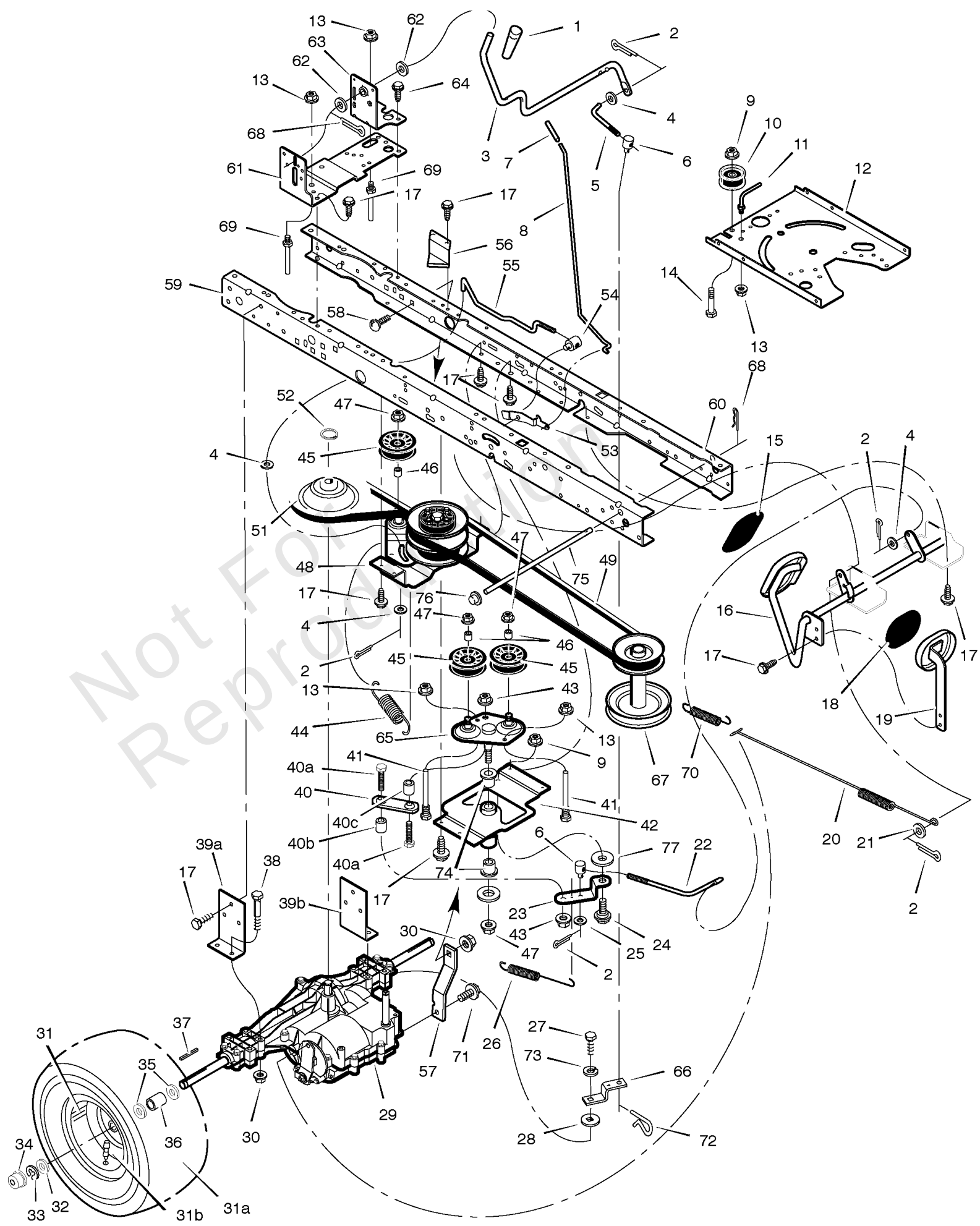


Engine Mount Assembly

REF NO	PART NO	QTY	DESCRIPTION
1	092317MA		FUEL CAP -(Included with Ref. No. 2)
2	690289MA		Tank, Fuel
3	26X253MA		Screw
6	26X263MA		SCREW.25-20 S-T
14	-----		Engine *
15	7601033MA		Fuel Line (Must cut to length)
16	095197MA		Clamp -(Included with Ref. No. 2)
18	092279		Pipe, Oil Drain
19	021651 Z		Cap, Oil Drain
20	0025X7MA		Bolt
22	1001136MA		Pulley, Stack
23	17X170MA		WASHER.46.97.25 FLAT
24	019X35MA		Lockwasher
25	01X140MA		Bolt
26	711851MA		Gasket
27	018X15MA		Washer
28	06X103MA		Bolt
29	690541MA		Tube, Right Exhaust
30	690542MA		Tube, Left Exhaust
31	690537E701MA		BRKT - MUFF MTG HP
32	093259MA		Muffler
33	690538E701MA		Bracket, Muffler
34	690401		Choke
35	015X68MA		Nut
36	26X201MA		Screw
37	093165MA		Control, Throttle
38	1001456-701		Shield Assembly, Heat
39	1001588MA		Plenum

Footnotes:

Note* For information on Replacement Parts contact the engine manufacturer.



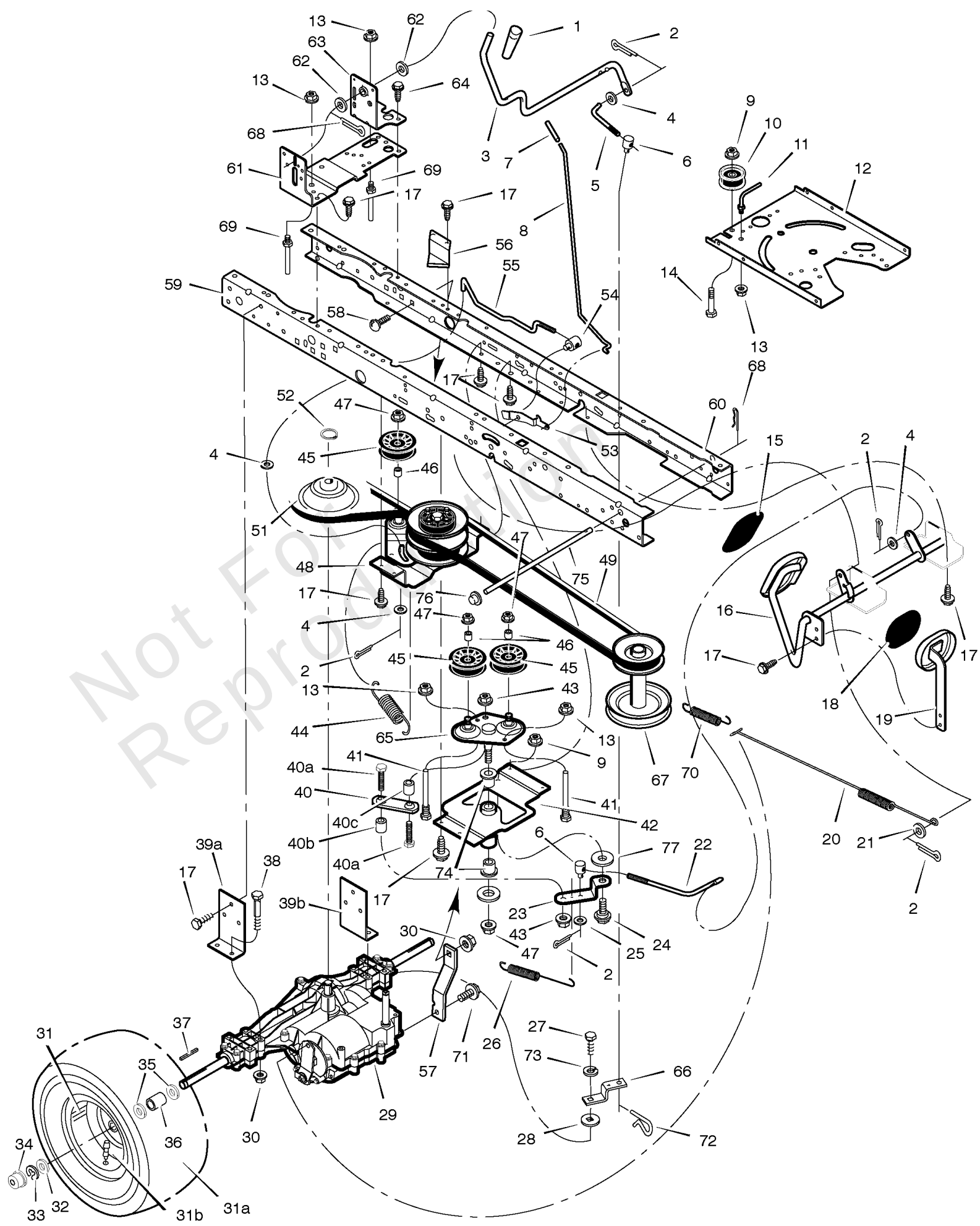
Motion Drive

REF NO	PART NO	QTY	DESCRIPTION
1	094497		Grip, Shift
2	030X20MA		Pin, Cotter
3	094043 Z		Lever, Shift
4	017X47MA		Washer
5	094044ZMA		Link, Shifter
6	021920ZMA		Nut, Adjuster
7	091079MA		Grip
8	1001245 Z		Rod, Parking Brake
9	015X84MA		Nut
10	1001187MA		Pulley, Idler
11	1001122		Guide, Belt
12	1001121E701MA		Plate, Steering
13	015X79MA		Nut
14	01X111MA		Bolt, Hex
15	1001138		Pad, Motion Drive
16	1001148E700		Assembly, Speed Control
17	26X249MA		Screw, Self Tapping
18	1001139		Pad, Brake Pedal
19	1001147E700		Assembly, Brake Pedal
20	165X115MA		Spring, Extension
21	17X169MA		Washer
22	1001120		Rod, Speed Control
23	1001104 Z		Bellcrank
24	009X39MA		Bolt, Shoulder
25	17X124MA		Washer
26	165X152MA		Spring, Extension
27	06X105MA		Screw, Cap
28	17X148MA		Washer
29	-----		Transaxle **
30	015X88MA		Nut
31	092300-650		Assembly, Wheel and Tire
31a	024430		Tire *
31b	024373MA		VALVE STM&CP,TR41 SE
32	17X195MA		Washer
33	0011X3MA		RING, E .750D .050T
34	094618MA		HUB CAP
35	17X160MA		Washer
36	690554 Z		Spacer
37	021553MA		Key, Square
38	01X155MA		Bolt, Hex
39a	094184E701MA		Bracket, Right Transaxle
39b	094185E701MA		Bracket, Left Transaxle
40	1001576		Link, Variator
40a	01X194		Bolt, Hex
40b	1001520		Spacer, 1/2"
40c	1001519		Spacer, 3/4"
41	093349MA		GUIDE SCREW - ZINC
42	1001277E701		Bracket, Front Frame

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.

Note** For information on Replacement Parts contact the transaxle manufacturer.



Motion Drive

REF NO	PART NO	QTY	DESCRIPTION
43	015X87		Nut, Lock
44	165X153MA		Spring, Extension
45	690409MA		Pulley
46	690369MA		Spacer
47	015X98MA		Nut
48	1001133MA		Assembly, Variator and Idler
49	037X112		Belt, Primary
50	037X113		Belt, Secondary
51	1001106MA		Pulley, Transaxle
52	0011X7MA		Ring, Snap
53	094045 Z		Latch, Parking Brake
54	094815ZMA		NUT-ADJUSTING
55	1001145 Z		Rod, Clutch
56	1001135 Z		Bracket, Brake
57	094433E701MA		BRACKET, Torque Strap, LH
58	002X53MA		Screw
59	1001928E701MA		RAIL - FRAME RH
60	1001927E701		Rail, Left Frame
61	1001978E701		Bracket, Right Shift
62	17X102MA		Washer
63	1001303 Z		Bracket, Shift Pivot
64	26X267MA		Screw
65	1001132 Z		Assembly, Idler
66	094031ZMA		Yoke, Shift
67	1001136MA		Pulley, Stack
68	0031X4MA		Pin, Hair
69	1001308		Guide, Belt
70	165X75MA		Spring, Return
71	26X216MA		Screw
72	0031X6MA		Pin, Hair
73	017X38MA		Washer
74	1101159MA		Bearing
75	1001267 Z		Rod, Belt Guide
76	028X23MA		Nut, Push-On
77	17X174 Z		Washer

Footnotes:

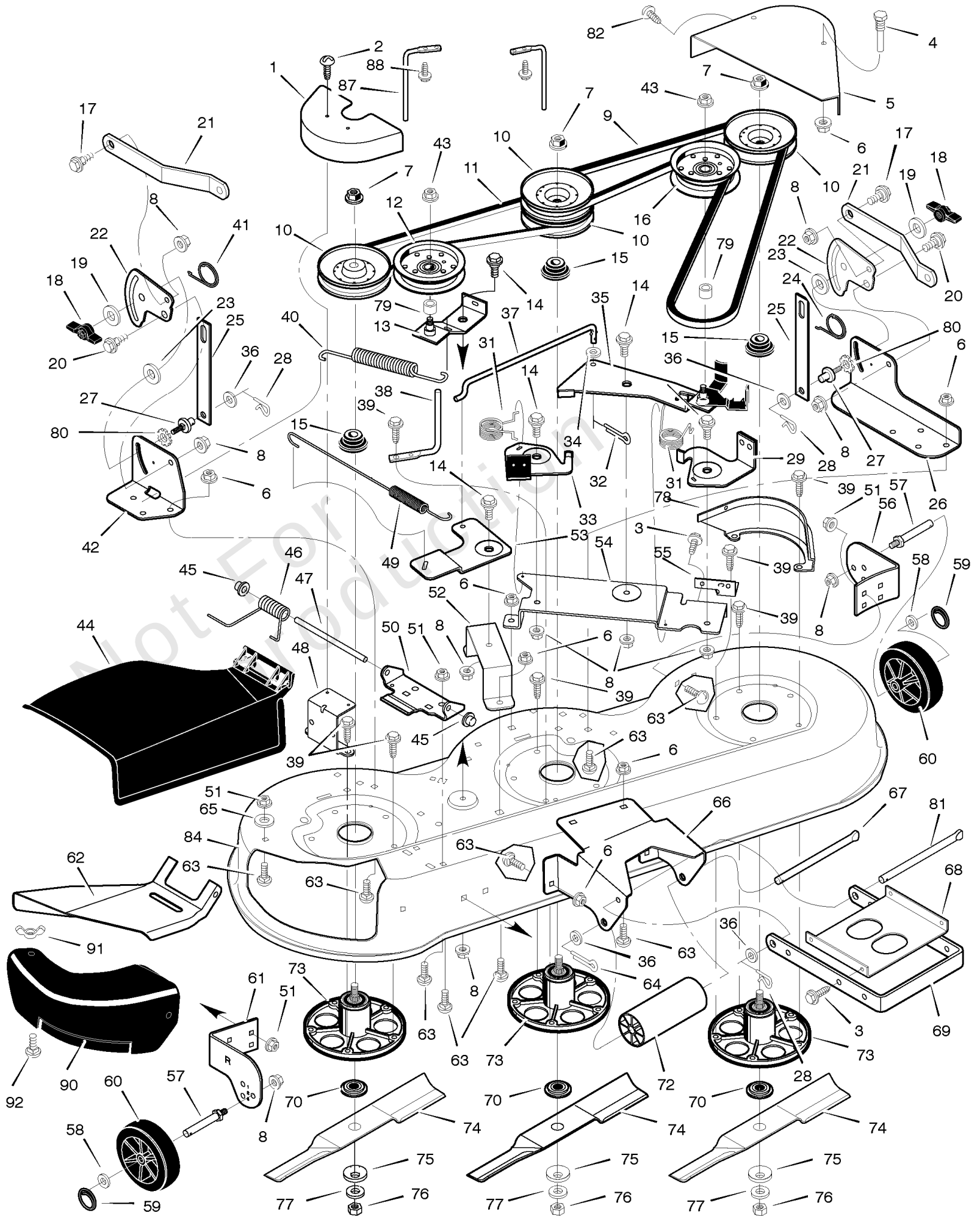
Note* When you order a tire, make sure to give the brand name of the tire so that the tread pattern on the tire will match.

Note** For information on Replacement Parts contact the transaxle manufacturer.

Mower Housing

Note: Unless noted otherwise, use the standard torque specifications

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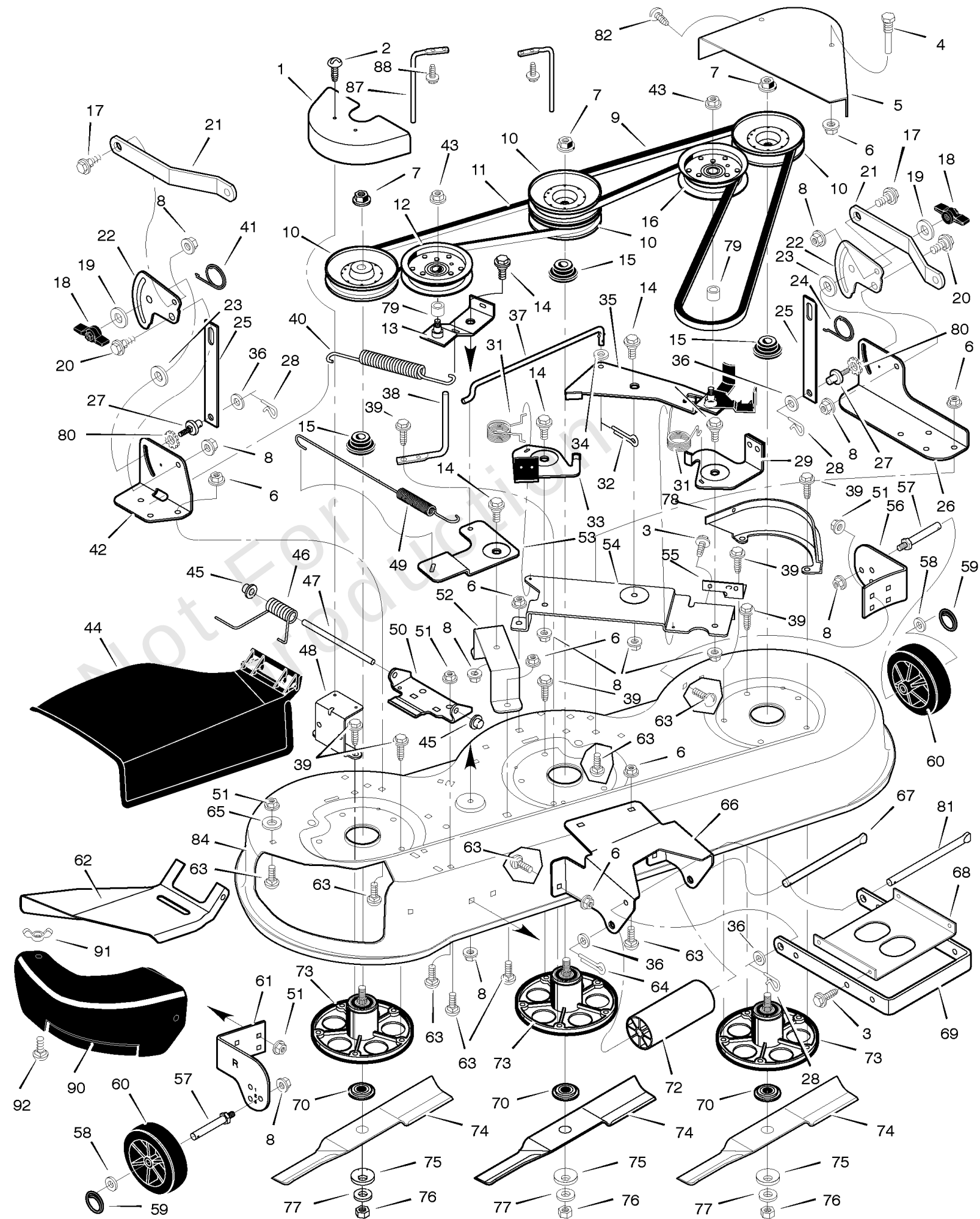
Mower Housing

REF NO	PART NO	QTY	DESCRIPTION
1	094607E701MA		Cover, Right Pulley
2	26X250MA		Screw
3	26X249MA		Screw
4	091754 Z		Guide, Belt
5	094645E701MA		Cover, Left Pulley
6	015X79MA		Nut, Hex
7	15X140MA		Nut, Flange
8	015X84MA		Nut, Flange
9	037X89MA		Belt, Primary
10	094592MA		Pulley
11	037X66MA		Belt, Secondary
12	690549MA		Pulley, Idler
13	094639		Arm, Idler
14	009X39MA		Bolt, Shoulder
15	1001197MA		Spacer, Pulley
16	690387MA		Pulley, Idler
17	009X52MA		Bolt, Shoulder
18	095004MA		Knob
19	017X45 Z		Washer
20	009X51MA		BOLT-SHD.38-16X.499D
21	094055E701MA		Bracket, Rear Suspension
22	094128E700MA		Plate, Suspension
23	094137MA		FRICITION PAD
24	166X43MA		Spring
25	690212E701MA		LIFT LINK (LT)
26	094600E700MA		Bracket, Left Lift
27	095194		Pin, Hanger
28	0031X4MA		Pin, Hair
29	094640E701MA		Brake Assembly, Left
31	166X41MA		Spring
32	030X20MA		Pin, Cotter
33	094641E701MA		Brake Assembly, Right
34	017X47MA		Washer
35	690579E700MA		Idler, Arm
36	17X103MA		Washer
37	094606 Z		Link, Bell Crank
38	092116 Z		Guide, Belt
39	0025X7MA		Screw
40	165X79MA		Spring, Extension
41	166X42MA		Spring, Torsion
42	094598E701		Bracket, Suspension
43	015X98MA		Nut
44	092100MA		Deflector, Chute
45	028X23MA		Push On Cap
46	166X34MA		Spring, Torsion
47	092159ZMA		Rod, Deflector
48	092140E701MA		Bracket, Cover
49	165X120MA		Spring, Extension
50	092104E701MA		Bracket, Hinge
51	015X88MA		Nut, Flange
52	094601E701		Bracket, Bell Crank

Mower Housing

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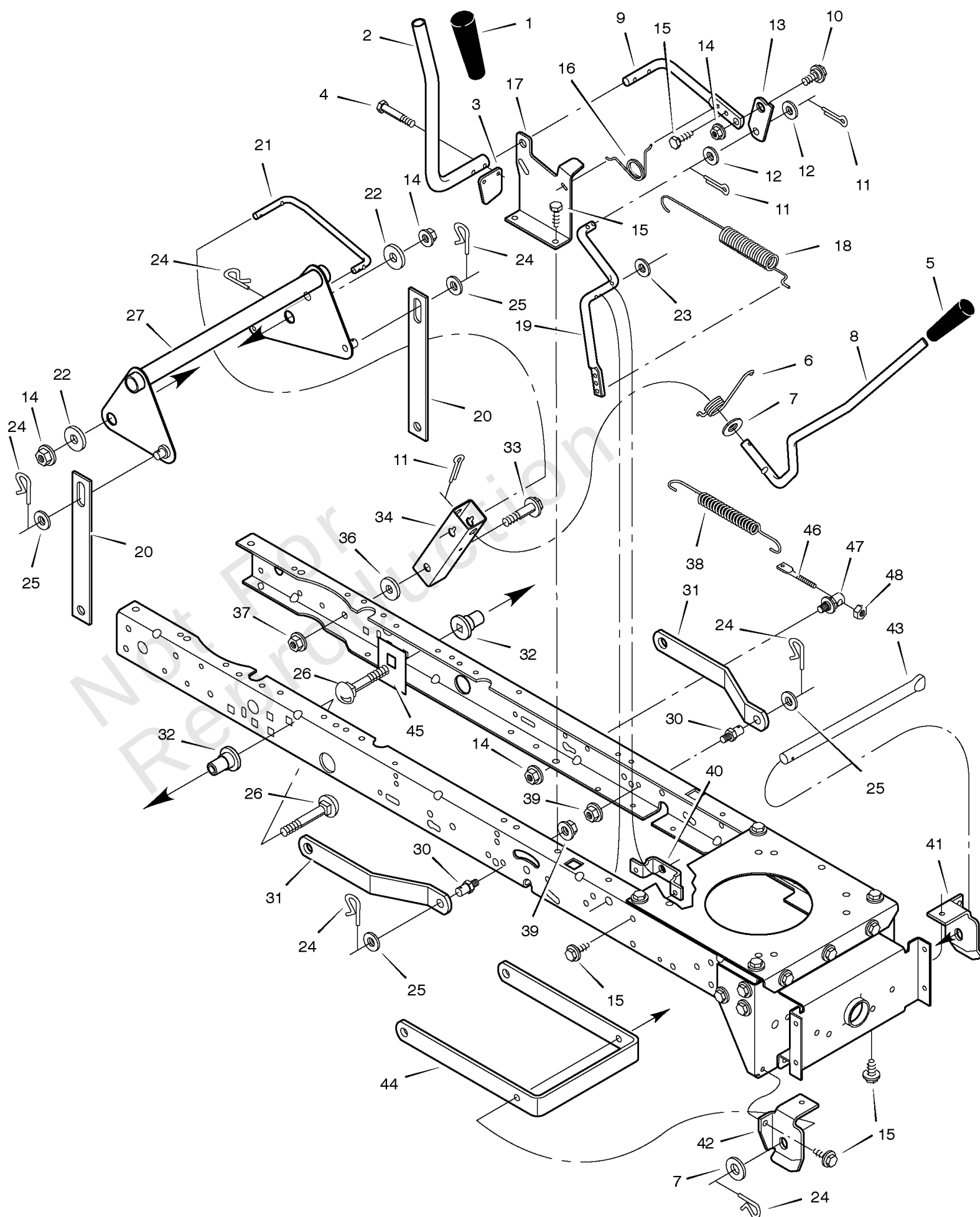
Mower Housing

REF NO	PART NO	QTY	DESCRIPTION
53	094603E701MA		Crank, Bell
54	094596E701		Plate, Brake Arm
55	094602E701MA		Bracket, Brake Plate
56	094919E700		Bracket, Left Gauge Wheel
57	094025MA		BOLT, Gauge Wheel
58	017X91 Z		Washer
59	031X11MA		Ring, Locking
60	092683MA		Wheel, Gauge
61	094918E701MA		Bracket, Right Gauge Wheel
62	092103E701MA		Deflector, Inside
63	002X53MA		Bolt, Carriage
64	030X49MA		Pin, Cotter
65	017X57MA		Washer
66	094997SEMA		Bracket, Front Deck
67	094996MA		Rod, Hanger
68	094604E701MA		Stiffener
69	690539E701MA		BRKT-FRT SUSPENSION
70	690411MA		Adapter, Blade
72	1001252MA		Roller
73	1001200MA		JACKSHAFT HSNG ASSY
74	056631E701MA		SINGLE BLADE
75	17X166MA		Washer, Belleville
76	15X100MA		Nut
77	17X165MA		Washer
78	690221E701MA		Bracket, Pulley Cover
79	690369MA		Spacer
80	019X35MA		Washer
81	094996MA		Rod, Hanger
82	26X277MA		Screw
84	094936E701MA		Housing, Blade -(Includes Ref. No. 17, 18, 30, 31, 32, 33, 45, 46, 53, 54, 55, and 56)
87	091797 Z		Guide, Belt
88	025X15MA		Screw
90	095086MA		Cover, Mulch
91	014X86MA		Wingnut
92	002X64MA		Bolt, Carriage

Mower Housing Suspension

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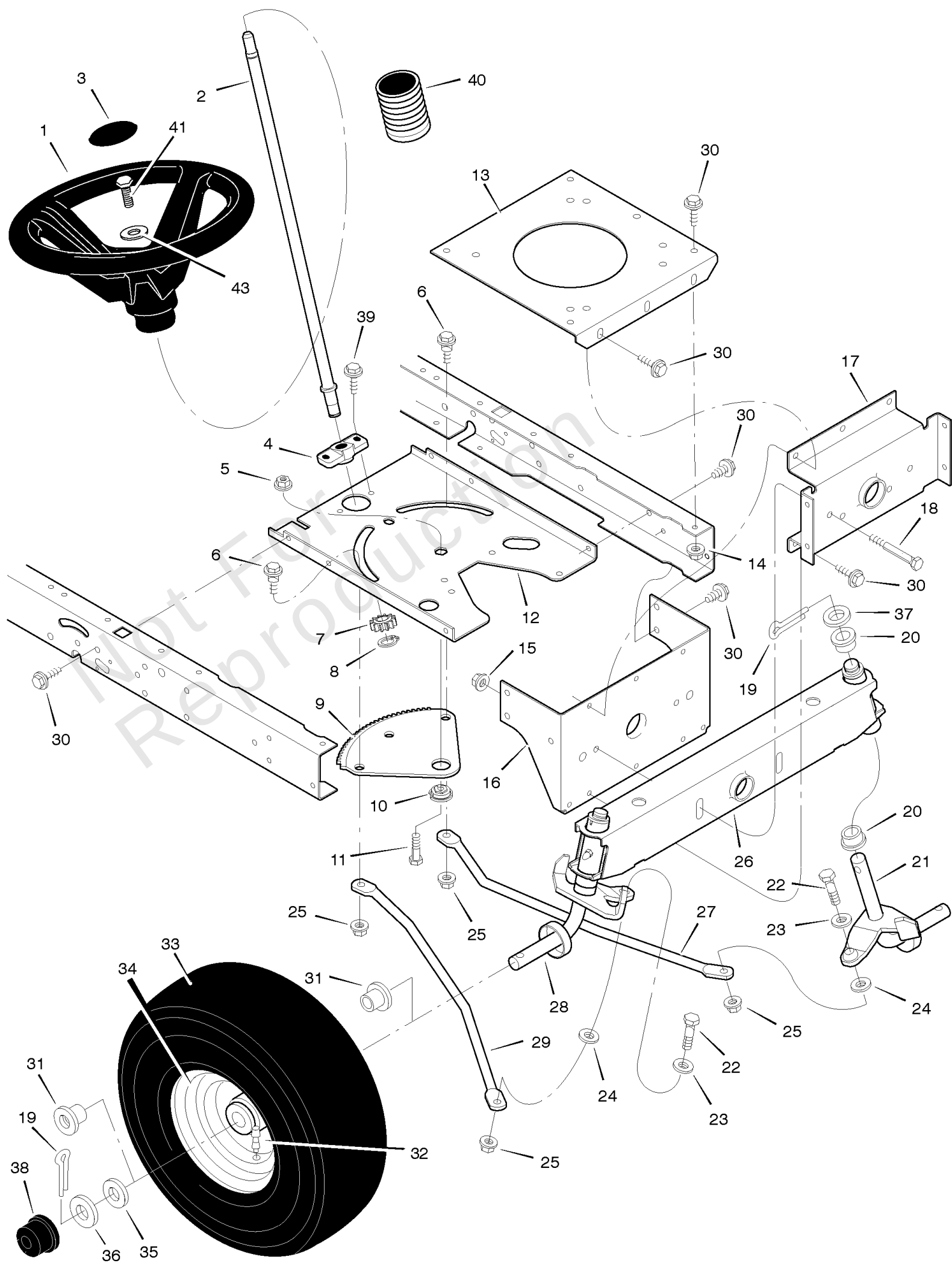
Mower Housing Suspension

REF NO	PART NO	QTY	DESCRIPTION
1	94496MA		Grip, PTO
2	094826 Z		Handle, PTO
3	094022 Z		Pad, Switch
4	0025X3MA		Screw, Hex
5	094497		Grip, Lift
6	166X40MA		Spring
7	17X103MA		Washer
8	690533MA		Lever, Lift
9	094017 Z		Lever, PTO
10	009X39MA		Bolt, Shoulder
11	030X20MA		Pin, Cotter
12	017X57MA		Washer
13	094004 Z		Link, PTO
14	015X84MA		Nut, Flange
15	26X249MA		Screw
16	166X39MA		Spring
17	094018E701MA		Bracket, PTO
18	165X120MA		Spring
19	690394E701MA		CRANK, PTO
20	690212E701MA		LIFT LINK (LT)
21	690122E701MA		Link, Lift Handle
22	17X168ZMA		Washer
23	017X57MA		Washer
24	0031X4MA		Pin, Hair
25	017X91 Z		Washer
26	002X85MA		Bolt, Carriage
27	1001111E701MA		Lever Assembly, Lift
30	094067MA		Pin
31	094055E701MA		Bracket, Rear Suspension
32	690151MA		Spacer, Lifter
33	009X53MA		Bolt, Shoulder
34	094015E701MA		Bracket, Pivot
36	17X191MA		Washer
37	015X84MA		Nut, Flange
38	165X133MA		Spring
39	015X68MA		Nut, Flange
40	094005E700		Bracket, PTO
41	094027E701MA		Hanger, Left Deck
42	094026E701MA		Hanger, Right Deck
43	094158ZMA		Rod, Hanger
44	690539E701MA		BRKT-FRT SUSPENSION
45	1001098E701		Plate, Stiffening
46	094042ZMA		Stud, Spring Mount
47	690182MA		Stud, Swivel
48	015X88MA		Nut

Steering

Note: Unless noted otherwise, use the standard torque specifications

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Steering

REF NO	PART NO	QTY	DESCRIPTION
1	095185MA		Wheel, Steering
2	690625		Post, Steering
3	711326MA		Insert, Steering Wheel
4	094124MA		Bearing
5	15X111MA		Nut, Flange
6	009X57MA		Bolt, Shoulder
7	690183MA		GEAR - PINION
8	011X25MA		Ring, Snap
9	094121MA		Gear, Sector
10	094123MA		Bearing
11	001X84MA		CAPSCREW, Hex Head, 5/16-18 x 1
12	1001121E701MA		Plate, Steering
13	094006E701MA		Plate, Engine
14	015X88MA		Nut, Flange
15	15X118MA		Nut, Flange
16	1001270E701MA		Bracket, Hanger
17	094007E701MA		Axle, Hanger
18	01X146MA		Bolt
19	030X49MA		Pin, Cotter
20	690150MA		Bearing
21	094576E701MA		Spindle Assembly, Left
22	01X111MA		Bolt
23	17X104MA		Washer
24	017X53 Z		Washer
25	015X84MA		Nut, Flange
26	1001460E701MA		Axle Assembly
27	095329E701MA		Drag Link, Left
28	094575E701MA		Spindle Assembly, Right
29	095328E701MA		Drag Link, Right
30	26X249MA		Screw
31	091334		Bearing, Wheel
32	024373MA		VALVE STM&CP,TR41 SE
33	024380		Tire *
--	407924		Tube
34	094581650		Wheel and Tire Assembly
35	17X195MA		Washer
36	17X192MA		Washer
37	17X113MA		WASHER.76-1.2 13G FL
38	094618MA		HUB CAP
39	26X267MA		Screw
40	092059MA		Bellows
41	0025X3MA		Screw, Hex
43	17X146MA		Washer

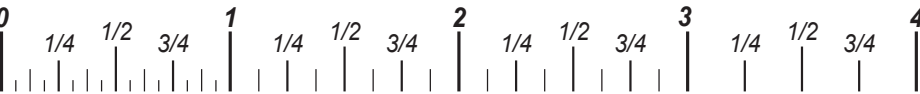
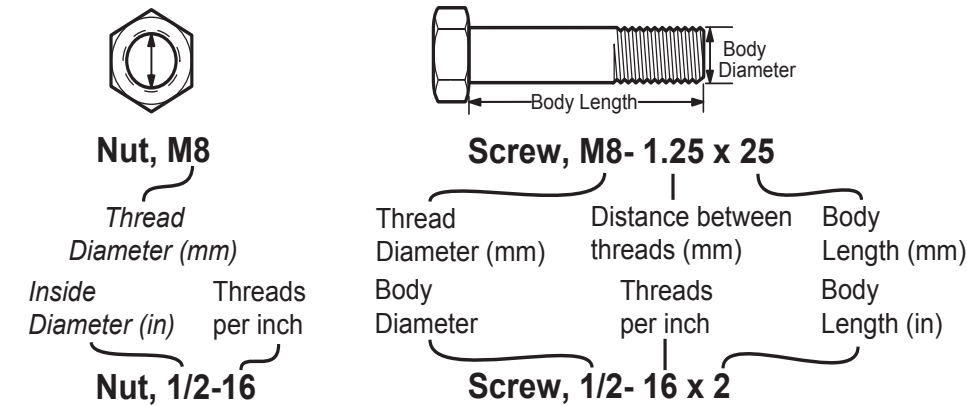
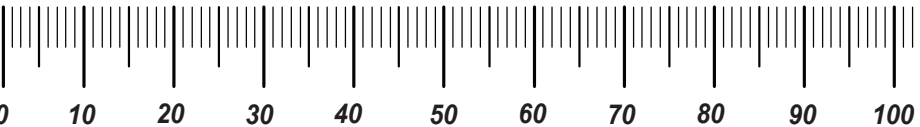
Footnotes:

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).

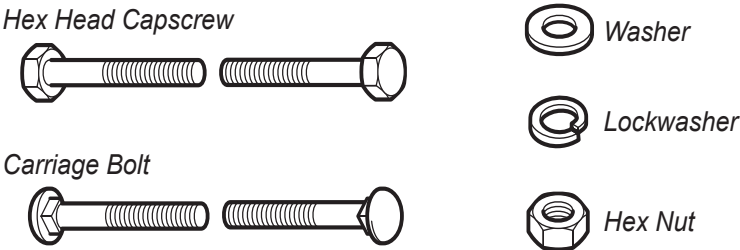
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

