



Parts Manual

Mfg. No: ZT2354
STALLION, Zero-Turn, 23HP KOH w/54"
Mower Deck

1694158 - Catcher, Clean Sweep Triple.

1693706 - 54" Turbo.

1692939SM - 50 Lbs. Suitcase Weights.

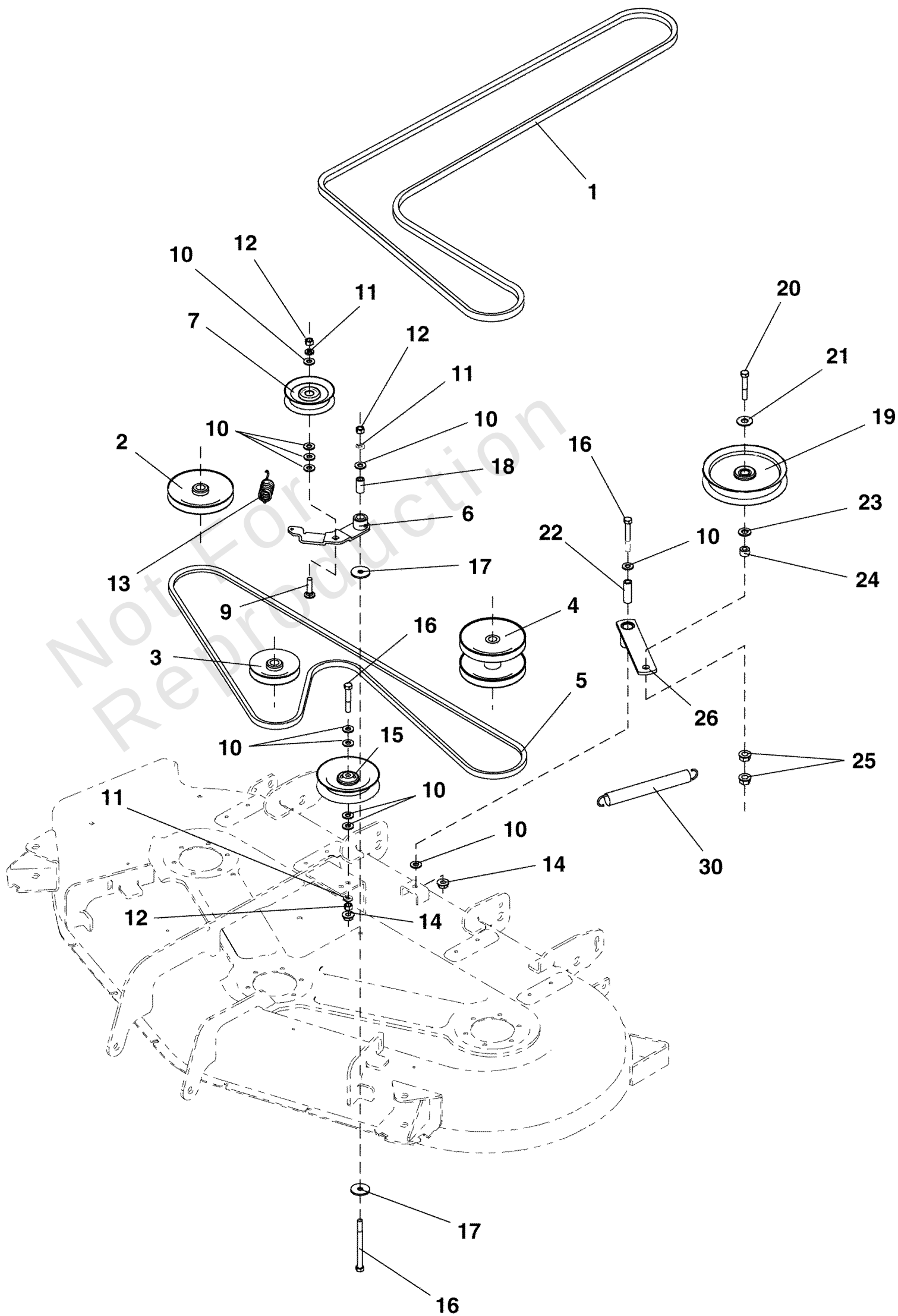
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54" Mower Drive Group (7010mdg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



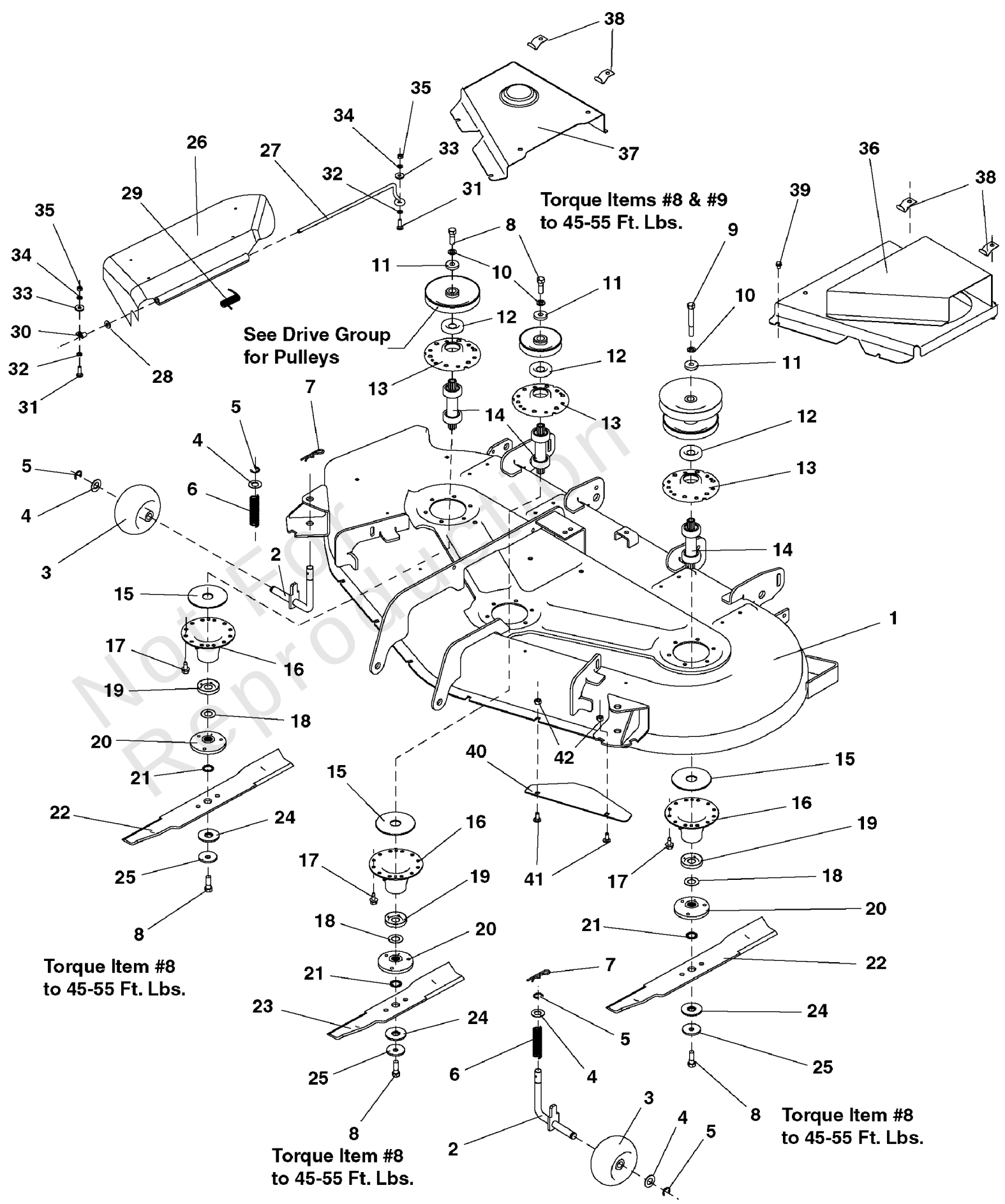
54" Mower Drive Group (7010mdg)

REF NO	PART NO	QTY	DESCRIPTION
1	1721237SM	1	BELT, PTO
2	1720182ASM	1	PULLEY ASSEMBLY, RH
3	1679161ASM	1	PULLEY ASSEMBLY, Center
4	1721272ASM	1	PULLEY ASSEMBLY, LH
5	1671076SM	1	BELT, Deck Drive
6	1718561SM	1	IDLER ARM ASSEMBLY
7	1685150SM	1	PULLEY ASSEMBLY
9	1931352SM	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
10	1924940SM	11	WASHER, 3/8
11	1916965SM	3	BEARING, Roller (2 per tire)
12	1916950SM	3	NUT, Hex, 3/8-16
13	1656936SM	1	SPRING, Deck Drive
14	1930645SM	2	NUT, Hex Flange, 3/8-16
15	1713038SM	1	PULLEY, Idler
16	1921972SM	3	CAPSCREW, Hex Hd, 3/8-16 x 2-1/4
17	1924356SM	2	WASHER
18	1674669SM	1	SPACER-0.39 IDX0.625O
19	-----	1	Replace with: Pulley #5104717YP & Debris Shield #5105145YP
20	1960245SM	1	CAPSCREW, Hex Hd, 1/2-13 x 3
21	1924361SM	1	WASHER, 1/2
22	1657242SM	1	SPACER
23	1960170SM	1	WASHER, 1/2
24	1719725SM	1	SPACER
25	1930644SM	2	NUT-HEX FLANGE 1/2-1
26	1721279SM	1	IDLER ARM ASSEMBLY, Complete (Includes Ref 27-29)
27	1721280	1	LEVER, Idler
28	1676148SM	2	BUSHING-0.628IDX
29	2812808SM	1	GREASE FITTING
30	1664661SM	1	SPRING

54" Mower Housing, Cover, Arbor & Blade Group (7010cabg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



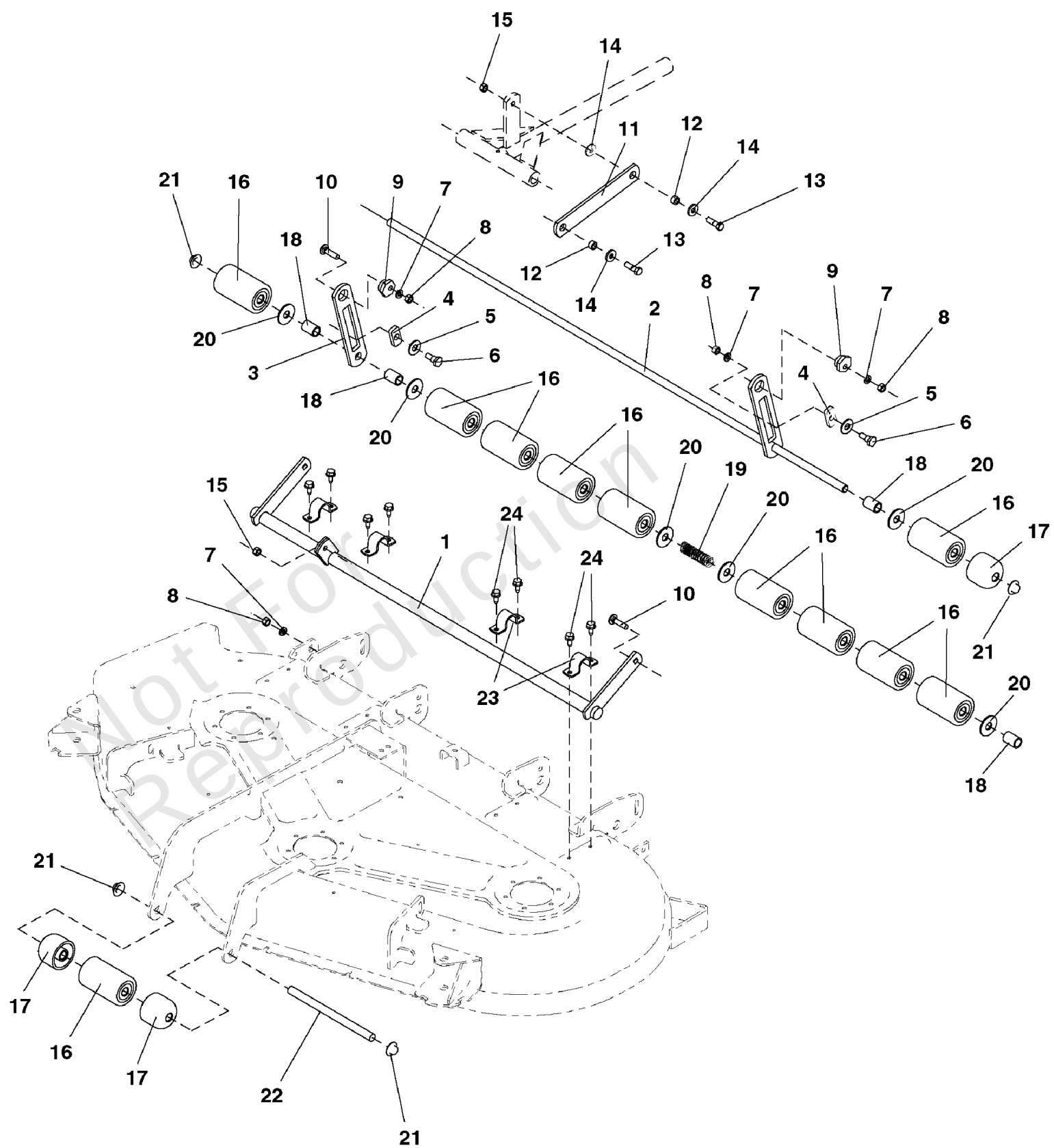
54" Mower Housing, Cover, Arbor & Blade Group (7010cabg)

REF NO	PART NO	QTY	DESCRIPTION
1	1721187	1	HOUSING, 54" Mower
2	1720497A	2	SPINDLE, Gauge Wheel
3	1716353SM	2	WHEEL, Gauge
4	1960020SM	4	WASHER, Plain, 21/32
5	1703805SM	4	KLIPRING, 5/8
6	1716346SM	2	SPRING, Compression
7	1960033SM	2	CLIP, Hair Pin
8	2823471SM	5	CAPSCREW, Hex Hd, 7/16-14 x 1-1/4
9	1960545SM	1	CAPSCREW, Hex Hd, 7/16-14 x 3-1/4
10	1918199SM	3	LOCKWASHER, 7/16
11	1933263SM	3	WASHER, 7/16
12	1657969SM	3	SHIELD, Bearing Upper, Arbor
13	1655729ASM	3	HOUSING-ARBOR TOP - B
14	1676278A	3	ARBOR SHAFT & BEARING ASSEMBLY, Complete
15	1707335SM	3	GASKET
16	1703273ASM	3	ARBOR HOUSING
17	1960541SM	18	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4
18	1700230SM	3	WASHER, Shim
19	1700229SM	3	SHIELD, Grass
20	1655777SM	3	ADAPTER, Blade
21	1657528SM	3	RING, Self Locking
22	1687014SM	2	BLADE
23	1687015SM	1	BLADE REPL KIT FOR 17
24	1656927SM	3	WASHER, Spline
25	1656916SM	3	WASHER, SPRING 0.475I
26	1705449SM	1	DEFLECTOR
27	1706709SM	1	ROD-.283DIA 11.65LG D
28	1919326SM	1	WASHER, 5/16
29	1723938SM	1	SPRING, Torsion
30	1704873SM	1	CLAMP, WIRE, .312DIA
31	1931318SM	2	CARRIAGE BOLT, 1/4-20 x 7/8
32	1960518SM	2	NUT, Push, 1/4
33	1960353SM	2	WASHER, 1/4
34	1916964SM	2	LOCKWASHER,1/4
35	1916622SM	2	NUT, Hex, 1/4-20
36	1721286SM	1	COVER, Arbor, LH
37	1721285SM	1	COVER, Arbor, RH
38	1720623SM	4	CLIP, Spring
39	1929000SM	4	CAPSCREW, Hex Hd, Taptite, 1/4-20 x 3/8
40	1720962ASM	1	BAFFLE, Front
41	1931333SM	2	CARRIAGE BOLT, 5/16-18 x 3/4
42	1935048SM	2	NUT, Hex Flange, 5/16-18

54" Mower Roller Bar Group (7010mrbg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



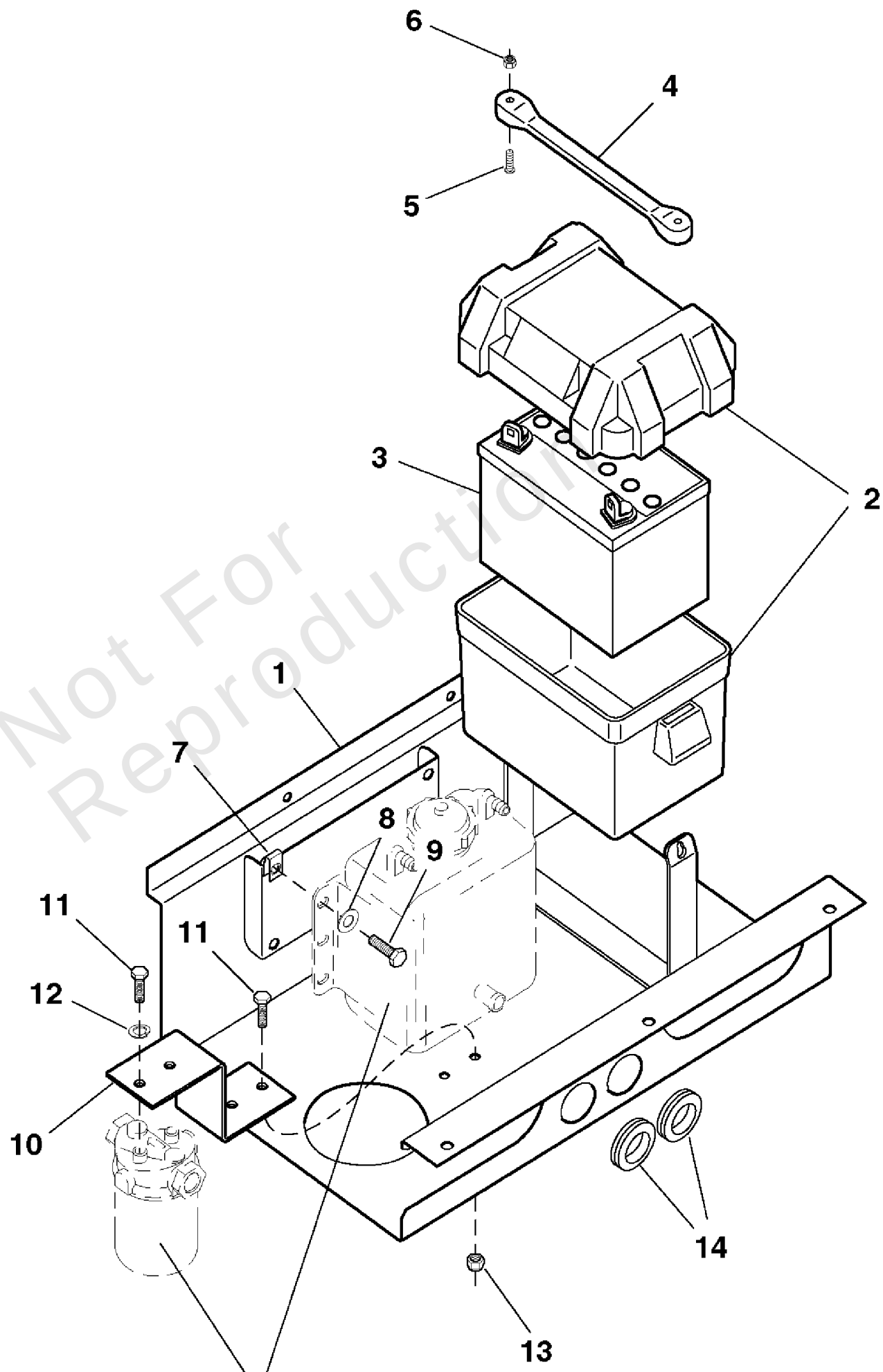
54" Mower Roller Bar Group (7010mrbg)

REF NO	PART NO	QTY	DESCRIPTION
1	1721228SM	1	ROCKER SHAFT ASSEMBLY
2	1720149SM	1	BAR & SHAFT ASSEMBLY, Roller
3	1704073ASM	1	BAR, Roller
4	1677507SM	2	SLIDE
5	1924361SM	2	WASHER, 1/2
6	2172622SM	2	BOLT, Shoulder, 3/8-16 X 1.34, 1/2 Shoulder
7	1916965SM	4	LOCKWASHER, 3/8
8	1916950SM	4	NUT, Hex, 3/8-16
9	1704082SM	2	NUT, Hex Adjusting, 11/16
10	1931352SM	2	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2
11	1721282SM	1	LINK, Roller Height
12	2154177SM	2	SPACER
13	1922605SM	2	CAPSCREW, Hex Hd, 3/8-16 x 1-1/4
14	1924940SM	2	WASHER, 3/8
15	1930645SM	2	NUT, Hex, Center Lock, 3/8-16
16	1668513SM	11	ROLLER, .652 ID, 2.50 OD, 4.10 LG
17	1717675SM	3	ROLLER, .650 ID, 2.5" OD, 2.05" Long, Rounded End
18	1709195SM	4	SPACER, .66 X 7/8 X 1 1/4
19	1716346SM	1	SPRING, Compression
20	1960035SM	6	WASHER-0.625(0.64IDX1
21	1960520SM	4	NUT, Push, 5/8
22	1721296SM	1	SHAFT, Roller
23	1720147ASM	4	STRAP
24	1960541SM	8	CAPSCREW, Hex Head Taptite, 5/16-18 x 3/4

Battery & Mount Pan Group (7010bmpg)

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**See Hydraulic Group
for Hydraulic Components**

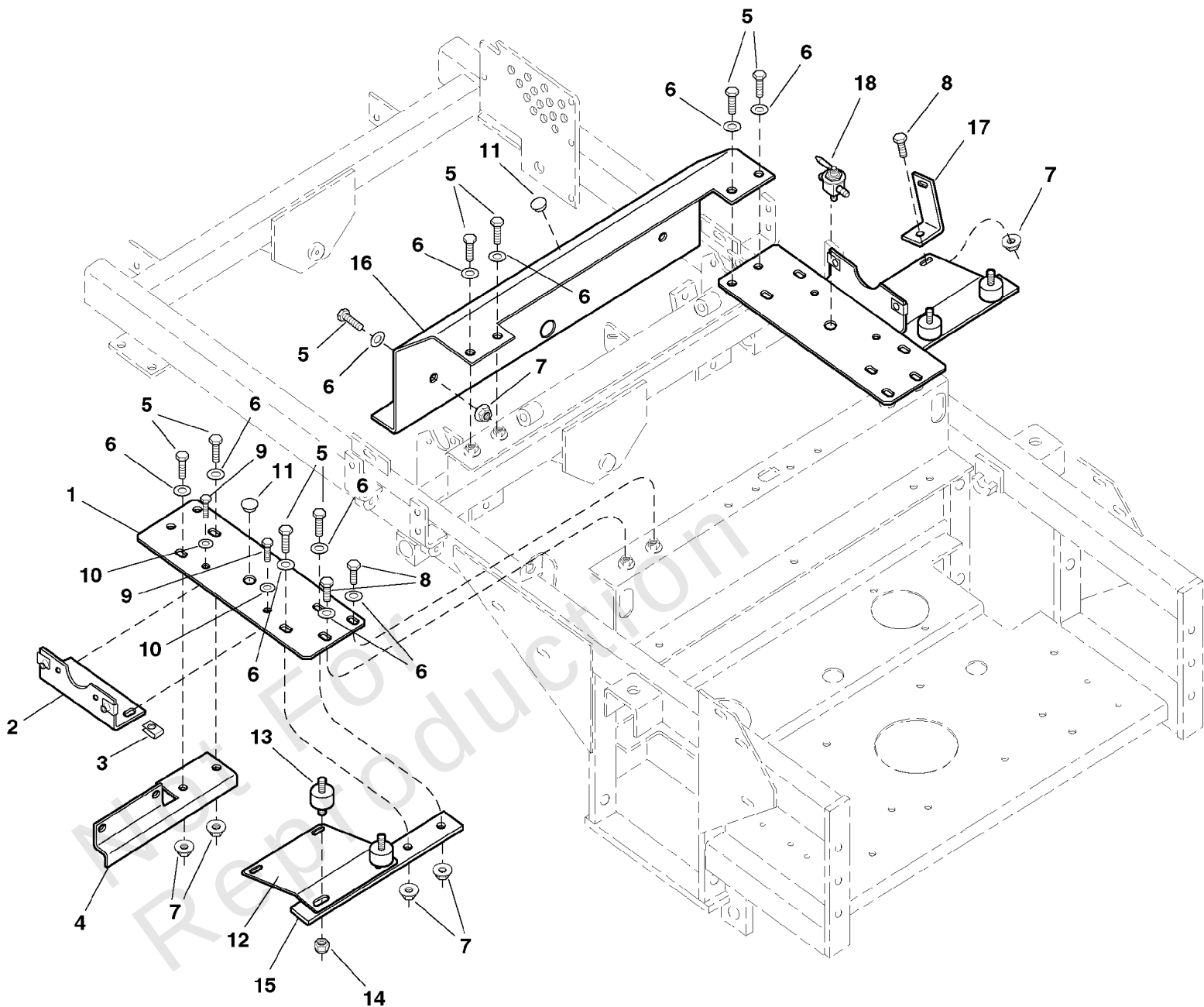
Battery & Mount Pan Group (7010bmpg)

REF NO	PART NO	QTY	DESCRIPTION
1	1845909	1	BATTERY & RESERVOIR PAN
2	5021666	1	BATTERY BOX w/ Cover
3	1685215SM	1	BATTERY,12V
4	5021670SM	1	STRAP, RUBBER
5	5025270SM	2	SCREW, #10-24 X 1" RS
6	703412	2	NUT, NYLOCK, 10-24 -(5025271)
7	5022308SM	4	BODY CLIP, 5/16-18 X
8	703302	4	WASHER, 5/16
9	703570	4	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
10	1845910	1	MOUNT, Filter Head
11	5025010X6SM	4	BOLT, 1/4-20 X 3/4" G
12	5025169SM	2	WASHER, Lock, 1/4
13	5025095SM	2	NUT, 1/4-20 HEX NYLON
14	5021397SM	3	GROMMET, 1-1/4

Brake Cover & Control Cover Mount Group (7010bccg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



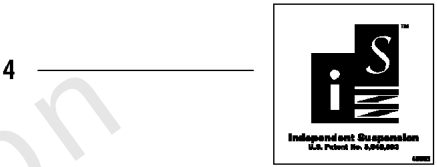
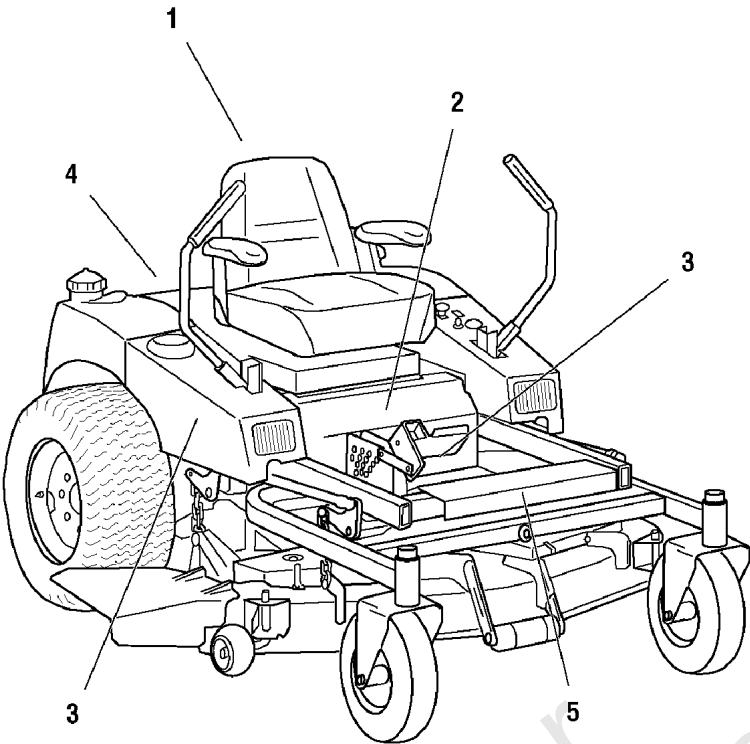
Brake Cover & Control Cover Mount Group (7010bccg)

REF NO	PART NO	QTY	DESCRIPTION
1	1845891	2	COVER MOUNT PLATE
2	1845892	2	BRACKET, Cover Mount
3	5022308SM	8	BODY CLIP, 5/16-18 X
4	1845889	1	INSTRUMENT PANEL MOUNT
5	5025013X8SM	12	BOLT, 3/8-16 X 1" GD5
6	5025156SM	16	WASHER, 3/8
7	5025128SM	8	NUT, 3/8-16 HEX SERRA
8	5025013X6SM	5	BOLT, 3/8-16 X 3/4" G
9	703570	4	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
10	703302	4	WASHER, 5/16
11	5021003SM	2	HOLE PLUG
12	1845887	2	DEBRIS GUARD
13	5022395SM	4	RUBBER ISOLATOR
14	1931277SM	4	NUT, Hex, Serrated Flange, 5/16-18
15	1845890	2	TANK MOUNT BAR
16	1845634	1	BRAKE COVER PANEL
17	1845922	1	BRACKET, Cover Mount
18	5022030SM	1	VALVE, Fuel Shut Off

Decals - Brand & Model (7010dbm)

Note: Unless noted otherwise, use the standard torque specifications

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Decals - Brand & Model (7010dbm)

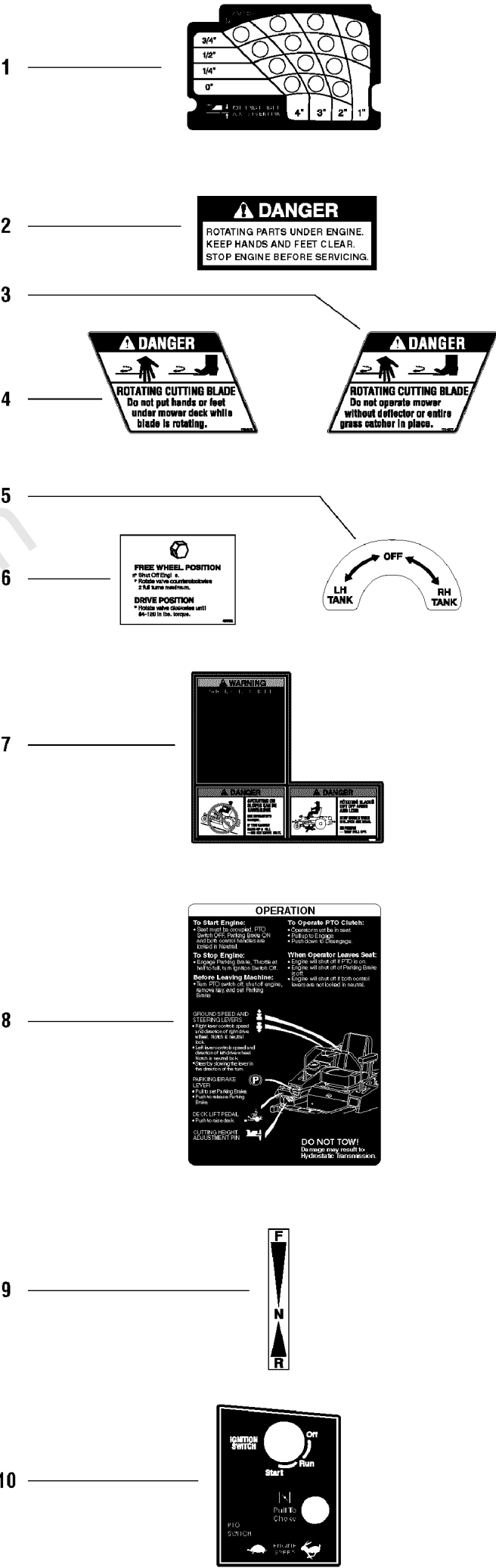
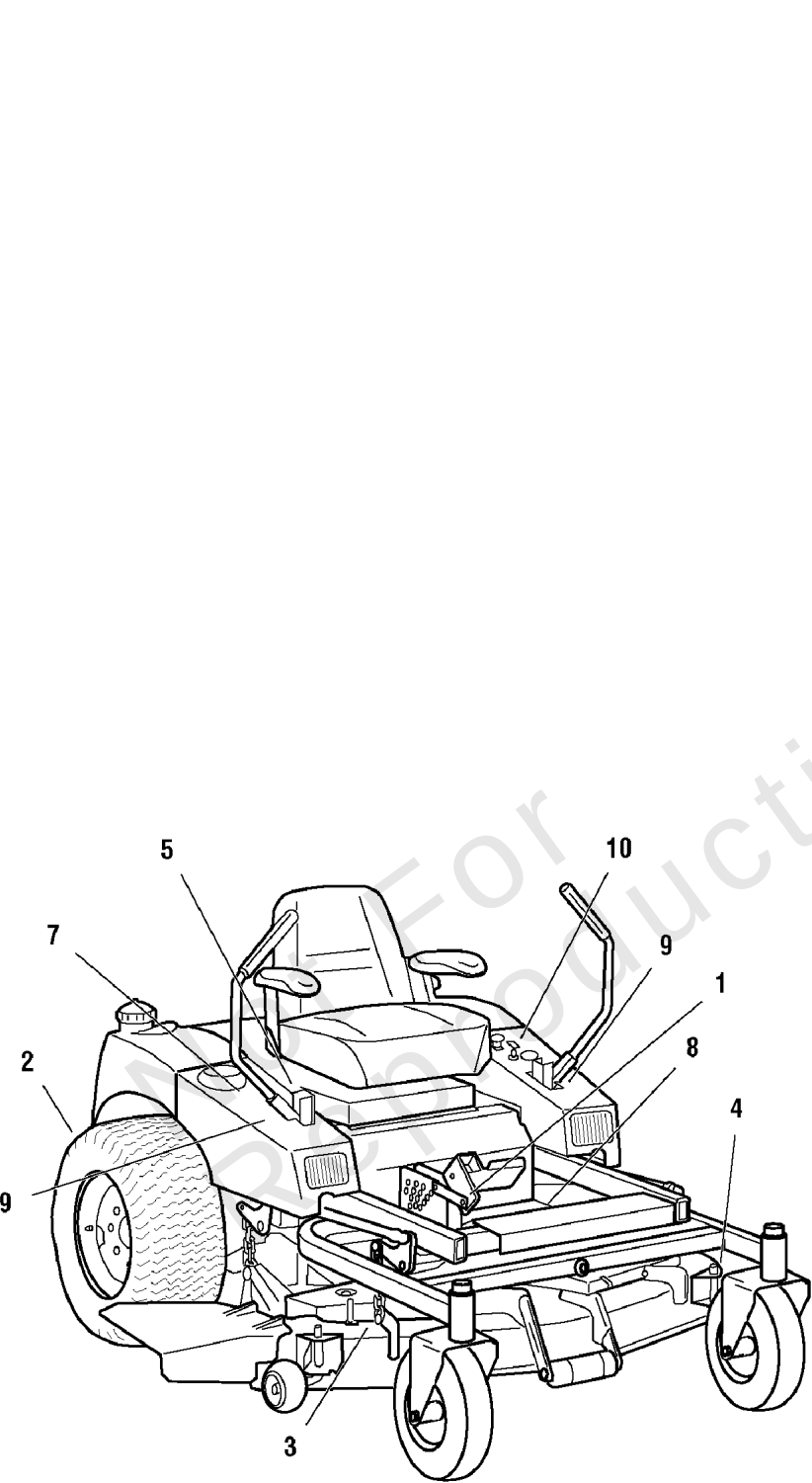
REF NO	PART NO	QTY	DESCRIPTION
1	5045512SM	1	DECAL, Derby Built By Ferris (located on back of seat)
2	5045514SM	1	DECAL, Stallion ZT2354
3	5045513SM	3	DECAL, Derby
4	5045565SM	1	DECAL, IS Logo (located on the fuel tank tire bar)
5	5022502SM	1	DECAL, IS Independent Suspension

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Decals - Safety & Operation (7010dso)

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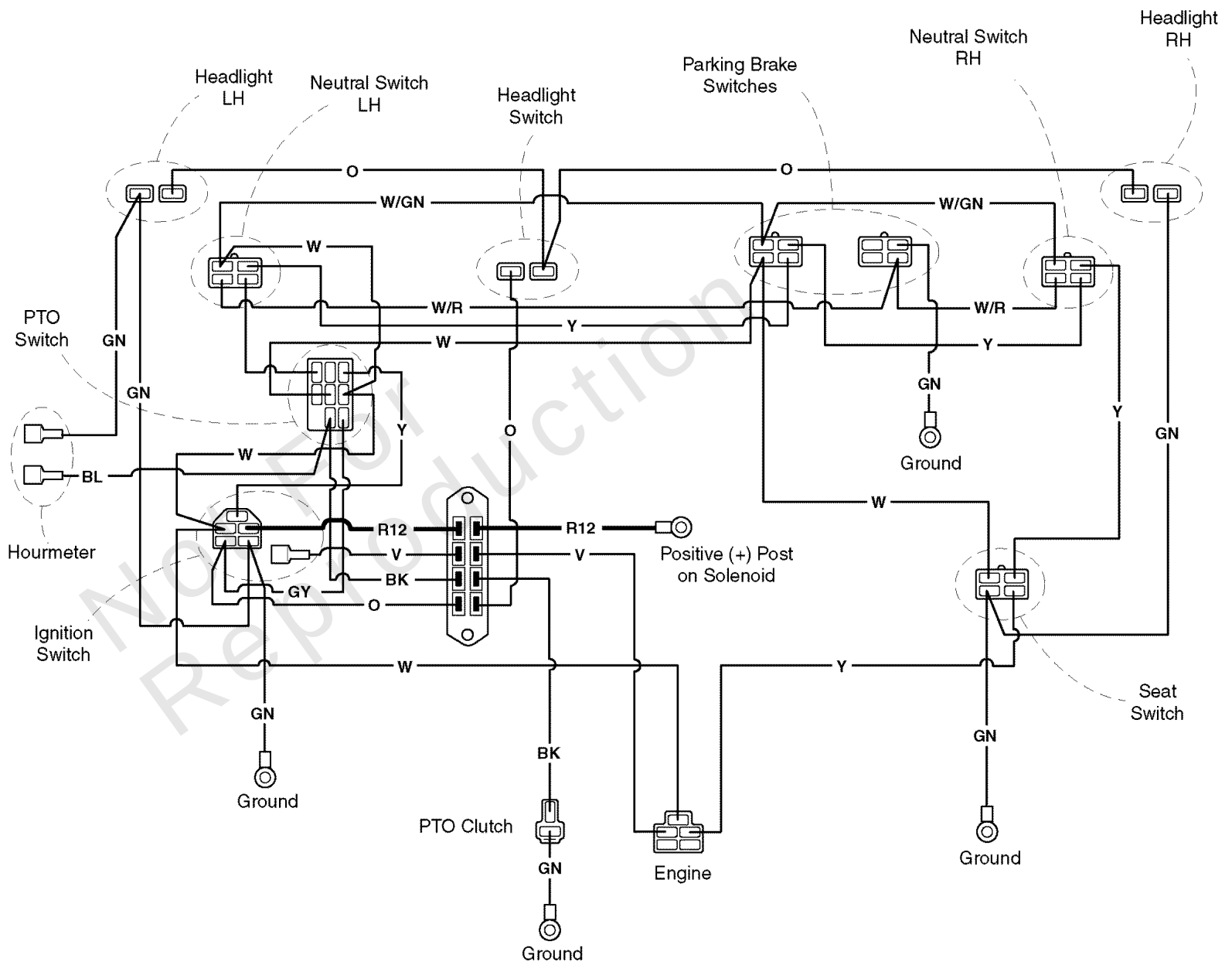
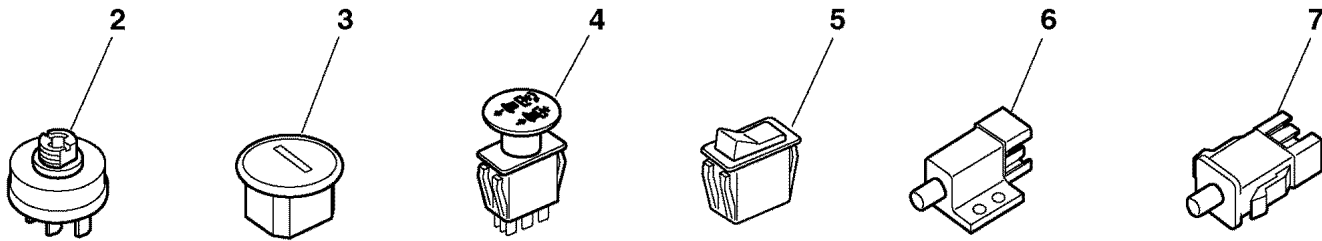
Decals - Safety & Operation (7010dso)

REF NO	PART NO	QTY	DESCRIPTION
1	5022063SM	1	DECAL, LIFT PLATE
2	5022143SM	2	DECAL, Danger (located on lower frame rail)
3	1704277SM	1	DECAL, Danger (Chute In Place)
4	1704276SM	1	DECAL-DANGER DO NOT P
5	5022402SM	1	DECAL, FUEL VALVE (ST
6	5045562SM	1	DECAL, Hydro Release Valve (located under seat, near LH pump)
7	5045560SM	1	DECAL, Warning/Danger
8	5045559SM	1	DECAL, Operation
9	5045561SM	2	DECAL, Direction Control
10	5045566SM	1	DECAL, Instrument Panel

Electrical Group (7010eg)

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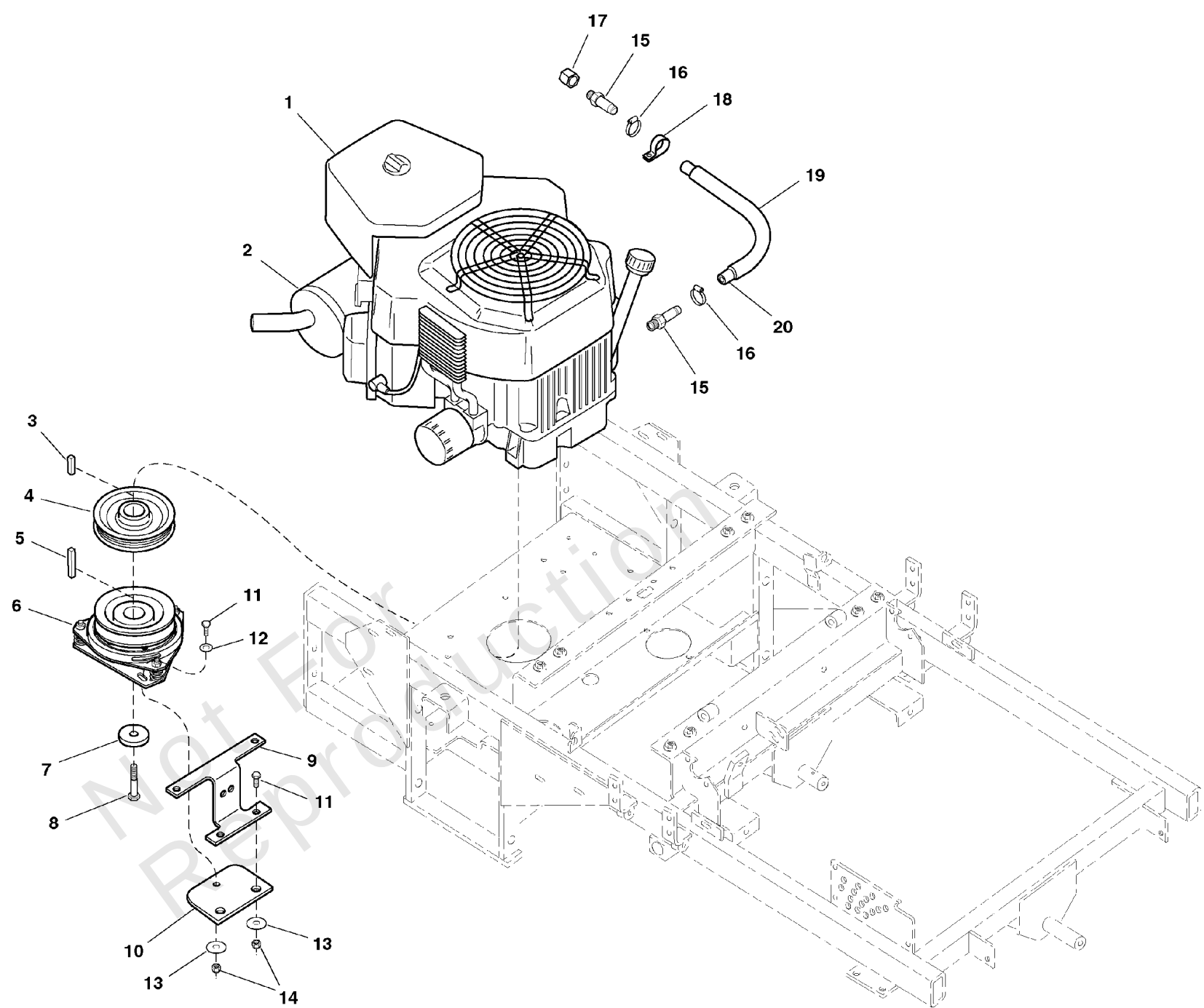
Electrical Group (7010eg)

REF NO	PART NO	QTY	DESCRIPTION
1	5045896SM	1	ZT2354 Wire Harness
2	1686734SM	1	IGNITION SWITCH
3	5020060SM	1	HOURMETER
4	1722887SM	1	SWITCH-PTO PUSH
5	1703799SM	1	SWITCH, HEADLIGHT
6	1717050SM	2	SWITCH-PUSH BUTT
7	7022886YP	3	SWITCH, DP NO/NC SNAP
8	5021406SM	1	BATTERY CABLE, NEGATI
9	5044876SM	1	BATTERY CABLE, POSITI
10	5044014SM	1	BATTERY CABLE, NEGATI
11	5021603SM	4	FUSE, ATO, 20 AMP

Engine Group - PTO (7010epg)

Note: Unless noted otherwise, use the standard torque specifications

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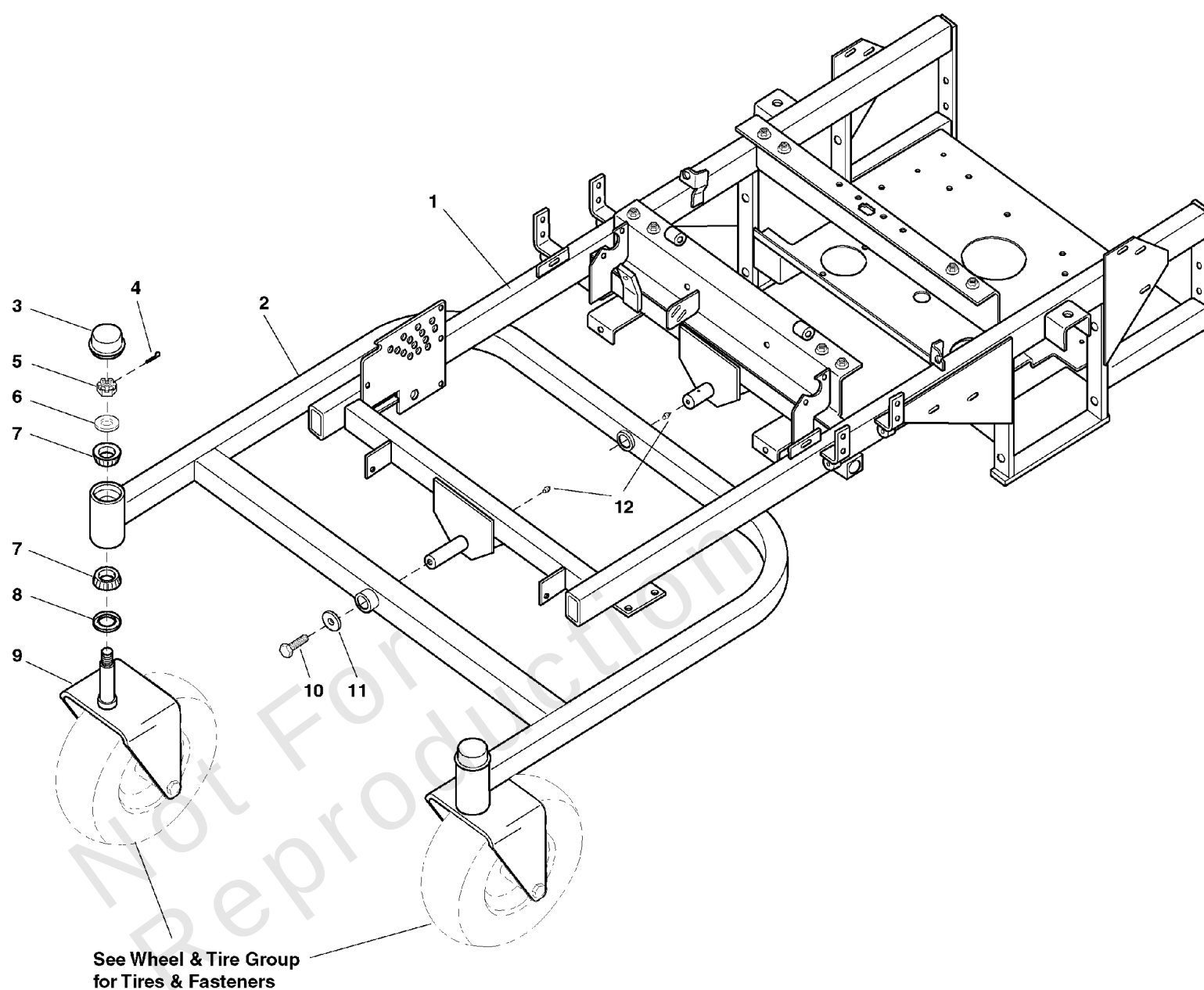
Engine Group - PTO (7010epg)

REF NO	PART NO	QTY	DESCRIPTION
1	-----	1	ENGINE, 23 HP Kohler
2	5022161SM	1	MUFFLER, KOHLER (ACS)
3	5050407X8SM	1	KEY, 1/4" SQ. X 1.00
4	5022154SM	1	PULLEY, Crankshaft
5	5050407X3SM	1	KEY, 1/4 x 2
6	5022334SM	1	CLUTCH,# 525944, ELEC
7	5045475SM	1	SPACER, .45 X 1.88 X
8	5045938SM	1	BOLT, CRANKSHAFT, 7/1
9	1845474	1	ANCHOR, Clutch
10	5043636SM	1	CLUTCH ANCHOR PAD
11	5025011X6SM	3	BOLT, 5/16-18 X 3/4"
12	703302	1	WASHER, 5/16
13	5025165SM	3	WASHER, 3/8" FENDER
14	5025057SM	3	NUT, Hex, Nylon Lock, 5/16-18
15	5021372SM	2	FITTING, 3/8NPT-1/2"
16	5021392SM	2	CLAMP, #6 HOSE, STAIN
17	5021466SM	1	CAP, 3/8" NPT
18	5021500SM	1	CLAMP, Vinyl
19	505086214	1	WIRE LOOM, Drain Hose Cover
20	5050857X16	1	HOSE, Oil Drain

Frame Group- Front Pivot & Main (7010fpmf)

Note: Unless noted otherwise, use the standard torque specifications

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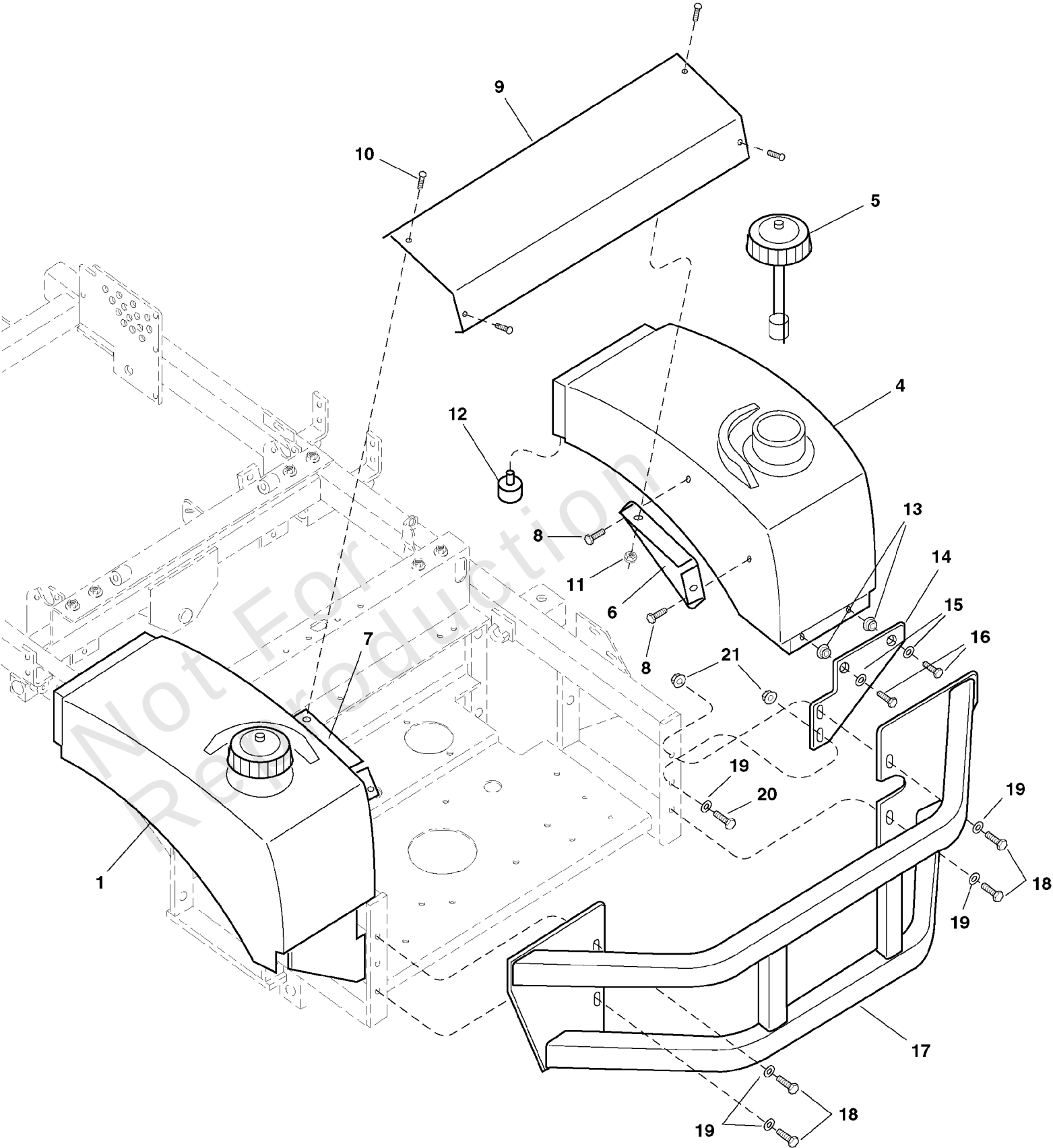
Frame Group- Front Pivot & Main (7010fpmf)

REF NO	PART NO	QTY	DESCRIPTION
1	1845586	1	MAIN FRAME
2	1844908	1	FRONT PIVOT FRAME
3	5021073SM	2	CAP, DUST
4	5025203X10SM	2	PIN, COTTER, 1/8" X 1
5	5025104SM	2	NUT, Hex, Slotted, 3/4-16
6	5025160SM	2	WASHER, 3/4" SAE
7	5020884SM	4	BEARING, TAPERED ROLL
8	5021072SM	2	SEAL, GREASE
9	1844914	2	YOKE, Caster
10	5025018X10SM	1	BOLT, 1/2-20 X 1-1/4" GD8 CZ
11	5044913SM	1	WASHER, .53 X 1.50 X
12	5020095SM	2	GREASE FITTING, 1/4-2

Fuel Tank & Bumper Group (7010ftbg)

Note: Unless noted otherwise, use the standard torque specifications

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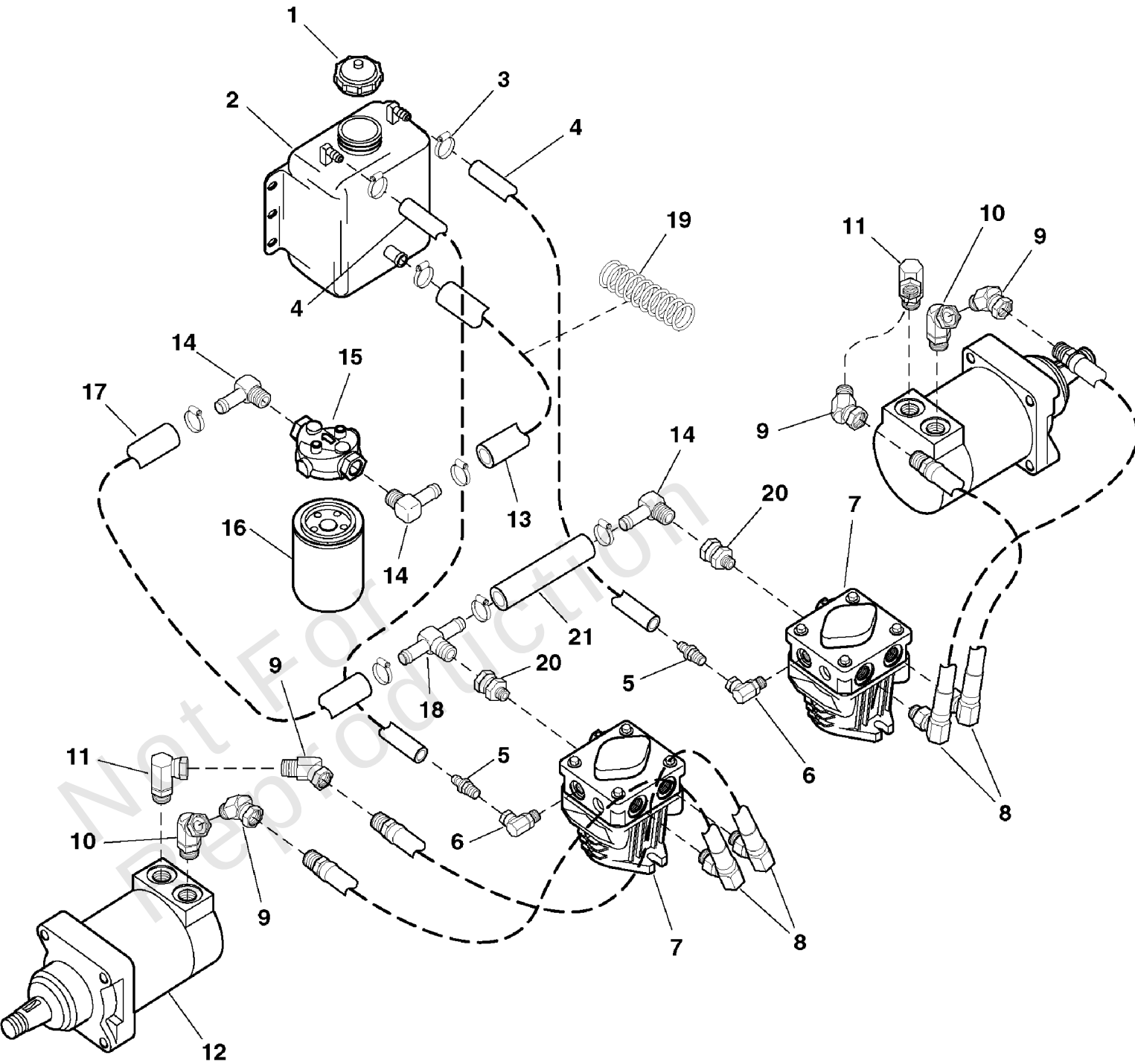


Fuel Tank & Bumper Group (7010ftbg)

REF NO	PART NO	QTY	DESCRIPTION
1	5045495KITSM	1	KIT, FUEL TANK REPLAC
2	1654930SM	2	BUSHING, Fuel Tank
3	1674231SM	2	ELBOW, Fuel Tank to Fuel Hose
4	5045494KITSM	1	KIT, FUEL TANK REPLAC
5	5022158SM	2	CAP, FUEL TANK, 3-1/2" NECK
6	1845918	1	TIE BAR MOUNT-RH
7	1845917	1	TIE BAR MOUNT-LH
8	5025011X6SM	4	BOLT, 5/16-18 X 3/4"
9	1845916	1	FUEL TANK TIE BAR
10	5025299X8YP	4	CAPSCREW
11	703233	4	NUT, 1/4-20, GR5
12	5022395SM	4	RUBBER ISOLATOR
13	5022394SM	4	RUBBER BUSHING
14	1845510	2	FUEL TANK MOUNT PLATE
15	703302	4	WASHER, 5/16
16	5025011X10SM	4	CAPSCREW, Hex Head, 5/16-18 X 1-1/4
17	1845589	1	BUMPER
18	5025013X10SM	4	BOLT, 3/8-16 X 1-1/4"
19	5025156SM	6	WASHER, Flat, 3/8
20	5025013X8SM	2	BOLT, 3/8-16 X 1" GD5
21	5025128SM	6	NUT, 3/8-16 HEX SERRA
22	505083129	1	FUEL LINE, 29" (RH tank-to-valve) (not shown)
23	505083159	1	FUEL LINE, 59" (LH tank-to-valve) (not shown)
24	505083138	1	FUEL LINE, 38" (valve-to-engine) (not shown)
25	505083324	1	COVER, Fuel Line (RH tank-to-valve) (not shown)
26	505083351	1	COVER, Fuel Line (LH tank-to-valve) (not shown)
27	505083333	1	COVER, Fuel Line (valve-to-engine) (not shown)

Hydraulic Group (7010hg)

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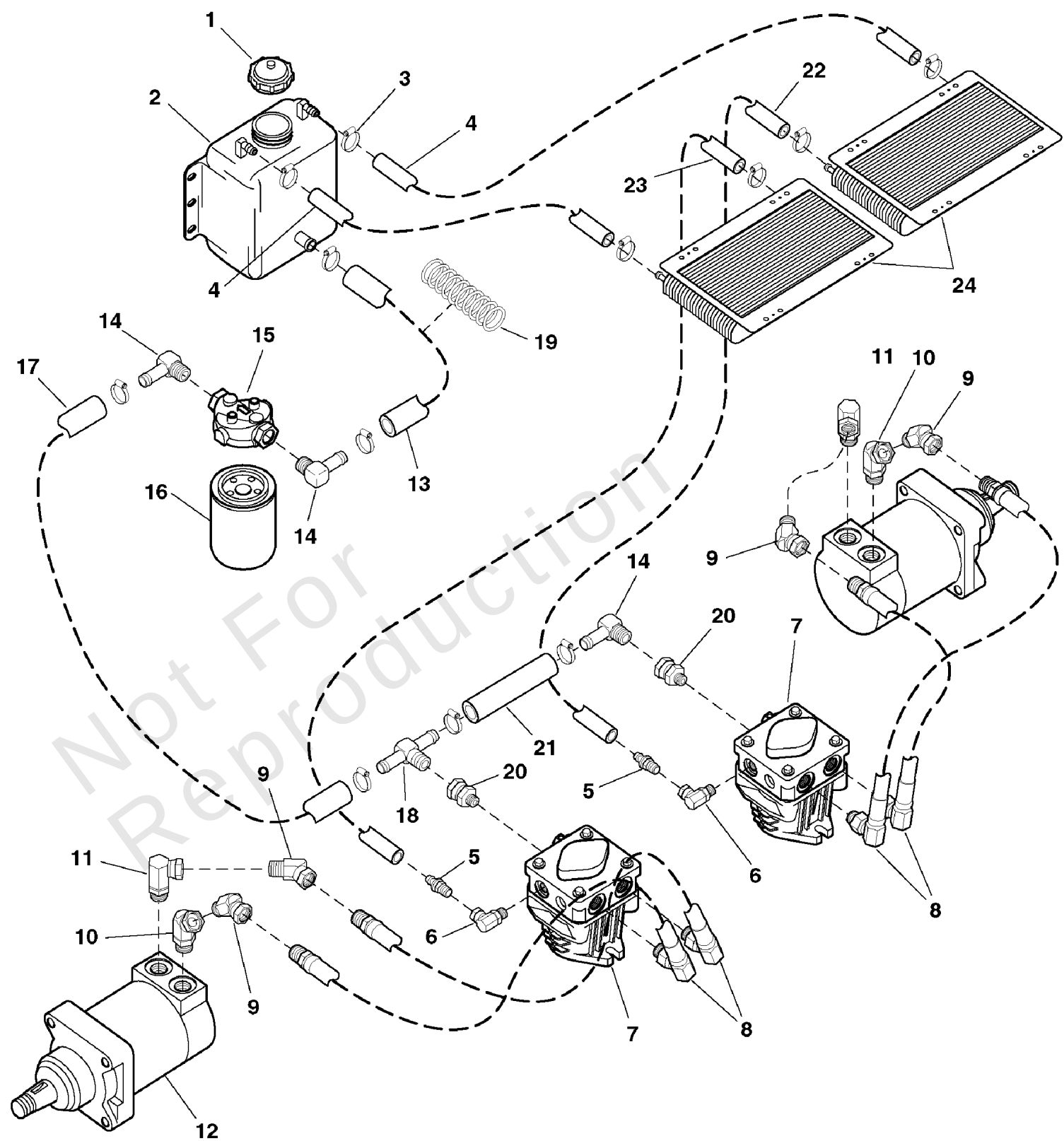
Hydraulic Group (7010hg)

REF NO	PART NO	QTY	DESCRIPTION
1	5021468SM	1	CAP
2	5022362SM	1	RESERVOIR
3	5021392SM	8	CLAMP, #6 HOSE, STAIN
4	5050860X17	2	HOSE, Return
5	5022106SM	2	FITTING, 1/4"NPT-3/8"
6	5022052SM	2	FITTING, Hydraulic, 90 Deg. O-Ring Swivel
7	5022338SM	2	HYDRAULIC PUMP
8	5022046SM	4	USE 5413138 + 5022599, HOSE ASSEMBLY (Pump to Wheel Motor)
9	5021361SM	4	FITTING, 1/2" NPT, 45
10	5022210SM	2	FITTING, Hydraulic, 45 Deg. O-Ring Swivel
11	5021131SM	2	FITTING, Hydraulic, 90 Deg. O-Ring Swivel
12	5022042SM	2	HYDRAULIC WHEEL MOTOR
*	5022042X2SM	2	Key
*	5220423	2	Nut
13	5050933X8	1	HOSE, Supply (Tank to Filter)
14	5021233SM	3	FITTING, 1/2NPT-5/8"
15	5021356SM	1	FILTER HEAD
16	5021357X1SM	1	HYDRAULIC FILTER
17	5050933X14	1	HOSE, Supply (Filter to LH Pump)
18	5022364SM	1	FITTING, Hose Tee
19	5022401SM	1	SPRING, Compression
20	5022365SM	2	FITTING, Hydraulic, Straight Swivel
21	5050933X12	1	HOSE, Supply (LH Pump to RH Pump)

Hydraulic Group With Oil Coolers (7010hgoc)

Note: Unless noted otherwise, use the standard torque specifications

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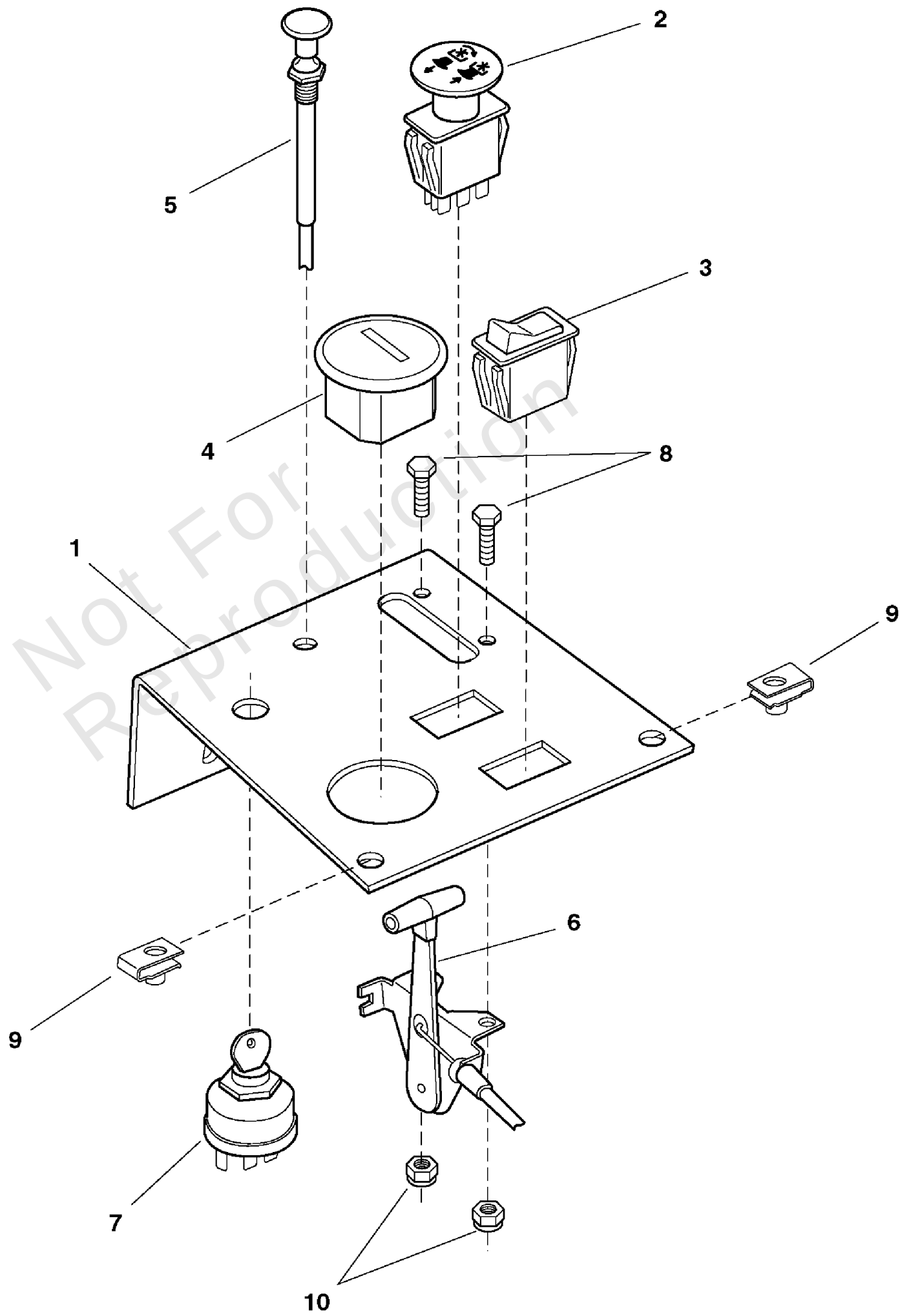
Hydraulic Group With Oil Coolers (7010hgoc)

REF NO	PART NO	QTY	DESCRIPTION
1	5021468SM	1	CAP
2	5022362SM	1	RESERVOIR
3	5021392SM	12	CLAMP, #6 HOSE, STAIN
4	5050860X17	2	HOSE, Return
5	5022106SM	2	FITTING, 1/4"NPT-3/8"
6	5022052SM	2	FITTING, Hydraulic, 90 Deg. O-Ring Swivel
7	5022338SM	2	HYDRAULIC PUMP
8	5022046SM	4	USE 5413138 + 5022599, HOSE ASSEMBLY (Pump to Wheel Motor)
9	5021361SM	4	FITTING, 1/2" NPT, 45
10	5022210SM	2	FITTING, Hydraulic, 45 Deg. O-Ring Swivel
11	5021131SM	2	FITTING, Hydraulic, 90 Deg. O-Ring Swivel
12	5022042SM	2	HYDRAULIC WHEEL MOTOR
*	5022042X2SM	2	Key
*	5220423	2	Nut
13	5050933X8	1	HOSE, Supply (Tank to Filter)
14	5021233SM	3	FITTING, 1/2NPT-5/8"
15	5021356SM	1	FILTER HEAD
16	5021357X1SM	1	HYDRAULIC FILTER
17	5050933X14	1	HOSE, Supply (Filter to LH Pump)
18	5022364SM	1	FITTING, Hose Tee
19	5022401SM	1	SPRING, Compression
20	5022365SM	2	FITTING, Hydraulic, Straight Swivel
21	5050933X12	1	HOSE, Supply (LH Pump to RH Pump)
22	505086025	2	HOSE, Return
23	505086019	2	HOSE, Return
24	5022467SM	2	OIL COOLER 1.5" X 11"

Instrument Panel Group (7010ipg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



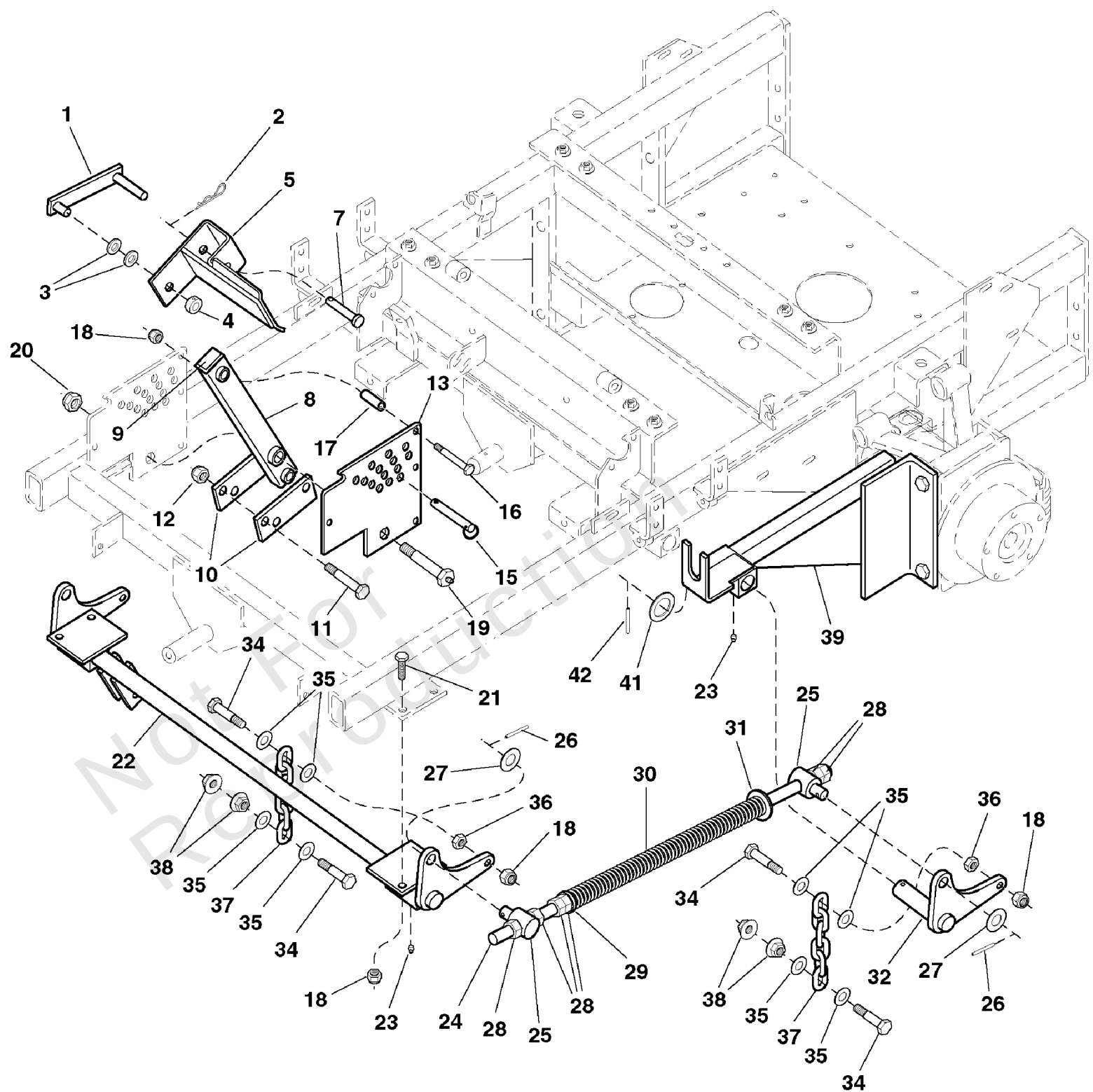
Instrument Panel Group (7010ipg)

REF NO	PART NO	QTY	DESCRIPTION
1	1845893	1	INSTRUMENT PANEL
2	1722887SM	1	SWITCH-PTO PUSH
3	1703799SM	1	SWITCH, HEADLIGHT
4	5020060SM	1	HOURMETER
5	5021675SM	1	CABLE, Choke
6	5021662SM	1	CABLE, Throttle
7	1686734SM	1	IGNITION SWITCH
8	5025010X6SM	2	BOLT, 1/4-20 X 3/4" G
9	5022308SM	2	BODY CLIP, 5/16-18 X
10	703233	2	NUT, 1/4-20, GR5

Lift Group (7010dlg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



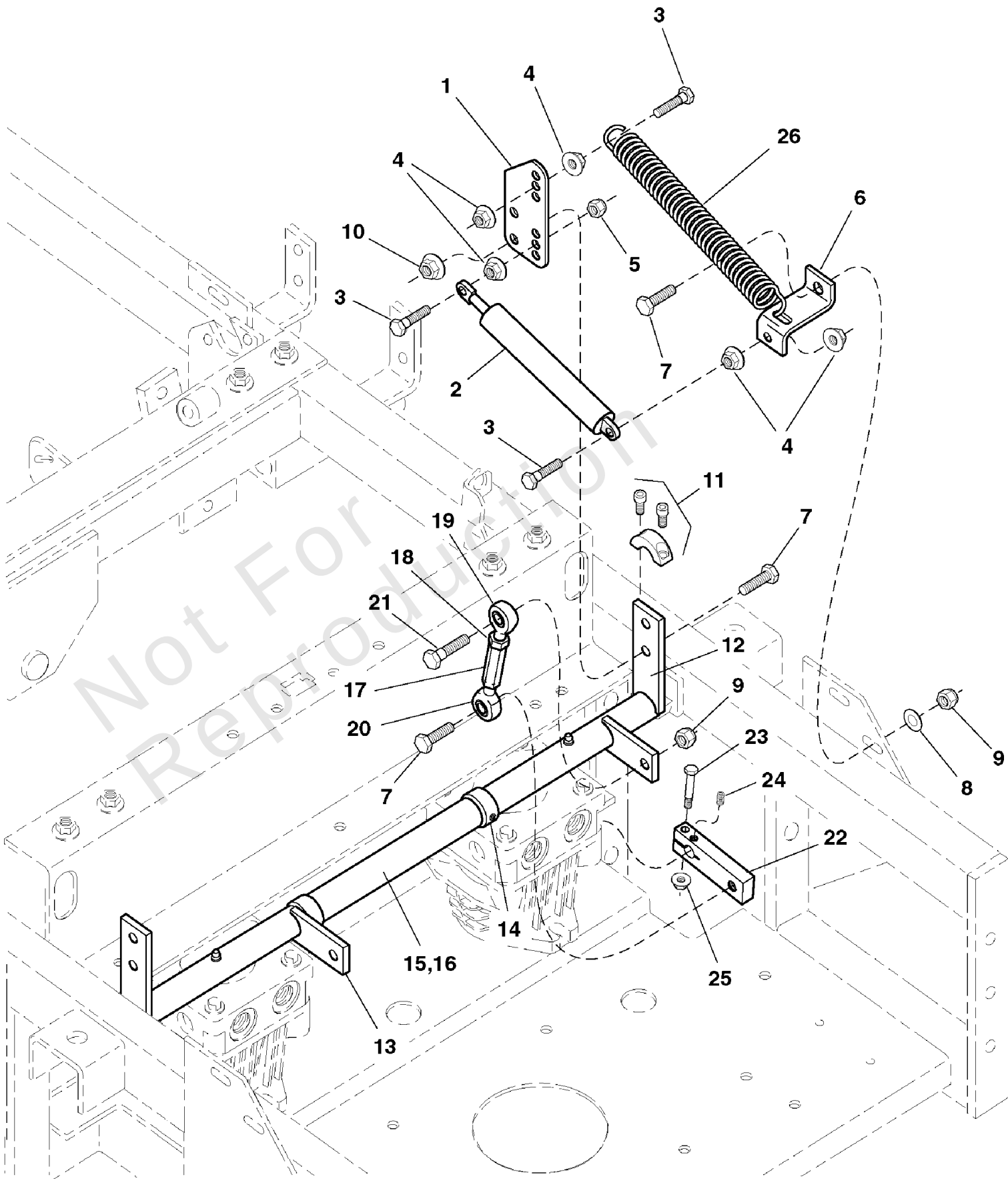
Lift Group (7010dlg)

REF NO	PART NO	QTY	DESCRIPTION
1	1844999	1	DECK LIFT LOCK
2	1918196SM	1	HAIRPIN CLIP
3	5025158SM	2	WASHER, 1/2" SAE
4	5010580SM	1	COLLAR, 1/2 Set
5	1845058	1	DECK LIFT PEDAL
6	5044875SM	1	SAFETY WALK, Deck Lift Pedal (not shown)
7	5022044SM	1	PIN, CLEVIS, 1/2 X 2-
8	1844987	1	ARM, Deck Lift Pivot
9	5022097SM	1	CAP
10	1844994	2	LINK, Deck Lift
11	502501824	2	CAPSCREW, Hex Hd, 1/2-20 x 3
12	5025098SM	2	NUT, 1/2-20 HEX NYLON
13	1845379	1	DECK HEIGHT PLATE
14	5022063SM	1	DECAL, LIFT PLATE
15	5023082SM	1	HITCH PIN ASSY., 1/2
16	5025013X22SM	4	BOLT, 3/8-16 X 2-3/4"
17	5044992SM	4	SPACER, .38 X .50 X 1
18	5025096SM	8	NUT, 3/8-16 HEX NYLON
19	5044993SM	1	LIFT PIVOT BOLT
20	5025282SM	1	NUT, Hex Jam, Nylon Lock, 5/8-11
21	5025013X10SM	4	BOLT, 3/8-16 X 1-1/4"
22	1845451	1	DECK LIFT SHAFT & MOUNT ASSEMBLY
23	5020095SM	4	GREASE FITTING, 1/4-2
24	5045446SM	2	ROD, DECK LIFT SPRING
25	5045447SM	4	PIVOT, SPRING ROD
26	5022366SM	4	PIN, 3/16" X 1-1/4""
27	5025281SM	4	WASHER, 5/8" SAE
28	5025040SM	12	NUT, 5/8-11 HEX
29	5041477SM	2	SPACER, .63 X 1.06 X
30	5022333SM	2	SPRING, DECK LIFT
31	5025159SM	2	WASHER, USS, 5/8
32	1845449	1	DECK LIFT PIVOT-LH
33	1845500	1	DECK LIFT PIVOT-RH (not shown)
34	5025013X14SM	8	BOLT, 3/8-16 X 1-3/4"
35	5025156SM	16	WASHER, 3/8
36	5025084SM	4	NUT, 3/8-16 HEX JAM
37	50508786	4	CHAIN, 6 Links
38	5025128SM	8	NUT, 3/8-16 HEX SERRA
39	1845216	1	REAR DECK LIFT FRAME-LH
40	1845217	1	REAR DECK LIFT FRAME-RH (not shown)
41	5021253SM	2	SHIM
42	5025516SM	2	PIN, Roll, 3/16 x 1-1/2

Motion Control Group - Lower (7010mcgl)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



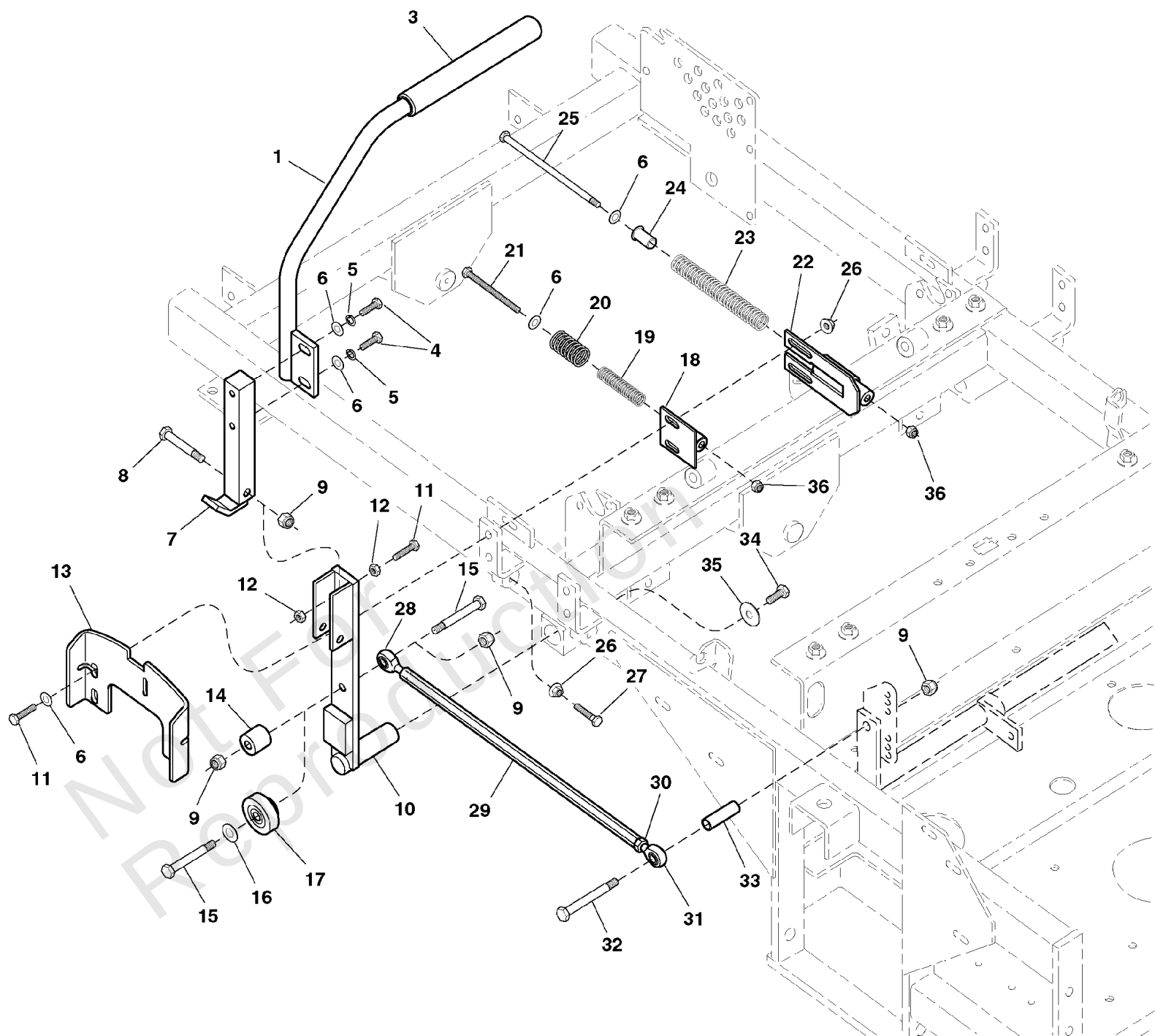
Motion Control Group - Lower (7010mcgl)

REF NO	PART NO	QTY	DESCRIPTION
1	1845880	2	DAMPENER MOUNT PLATE
2	5022360SM	2	DAMPENER
3	5025011X10SM	6	CAPSCREW, Hex Hd, 5/16-18 x 1-1/4
4	1931277SM	10	NUT, Hex, Serrated Flange, 5/16-18
5	5025057SM	2	NUT, Hex, Nylon Lock, 5/16-18
6	1845888	2	DAMPENER MOUNT, Rear
7	5025013X8SM	6	BOLT, 3/8-16 X 1" GD5
8	5025156SM	2	WASHER, 3/8
9	5025096SM	4	NUT, 3/8-16 HEX NYLON
10	5025128SM	2	NUT, 3/8-16 HEX SERRA
11	5020594SM	2	COLLAR, 3/4" DOUBLE S
12	1845264	1	HYDRO CONTROL LEVER-RH
13	1844952	1	HYDRO CONTROL LEVER-LH
14	5010116	2	COLLAR, 3/4 Set
15	5044950	1	SHAFT, Control Pivot (hidden by cover)
16	5045350SM	1	COVER, Control Shaft
17	5044957SM	2	HEX ROD, Short
18	5025035SM	2	NUT (3/8-24 HEX)
19	5021124SM	2	BALL JOINT, 3/8-24 MA
20	5022047SM	2	BALL JOINT, 3/8, LH
21	5025013X10SM	2	BOLT, 3/8-16 X 1-1/4"
22	5044956SM	2	PUMP CONTROL ARM
23	5025010X10SM	2	BOLT, 1/4-20 X 1-1/4"
24	50252833	2	SET SCREW, Cone, 1/4-20 x 3/8
25	703233	2	NUT, 1/4-20, GR5
26	5022397SM	2	SPRING, Extension

Motion Control Group - Upper (7010mcgu)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



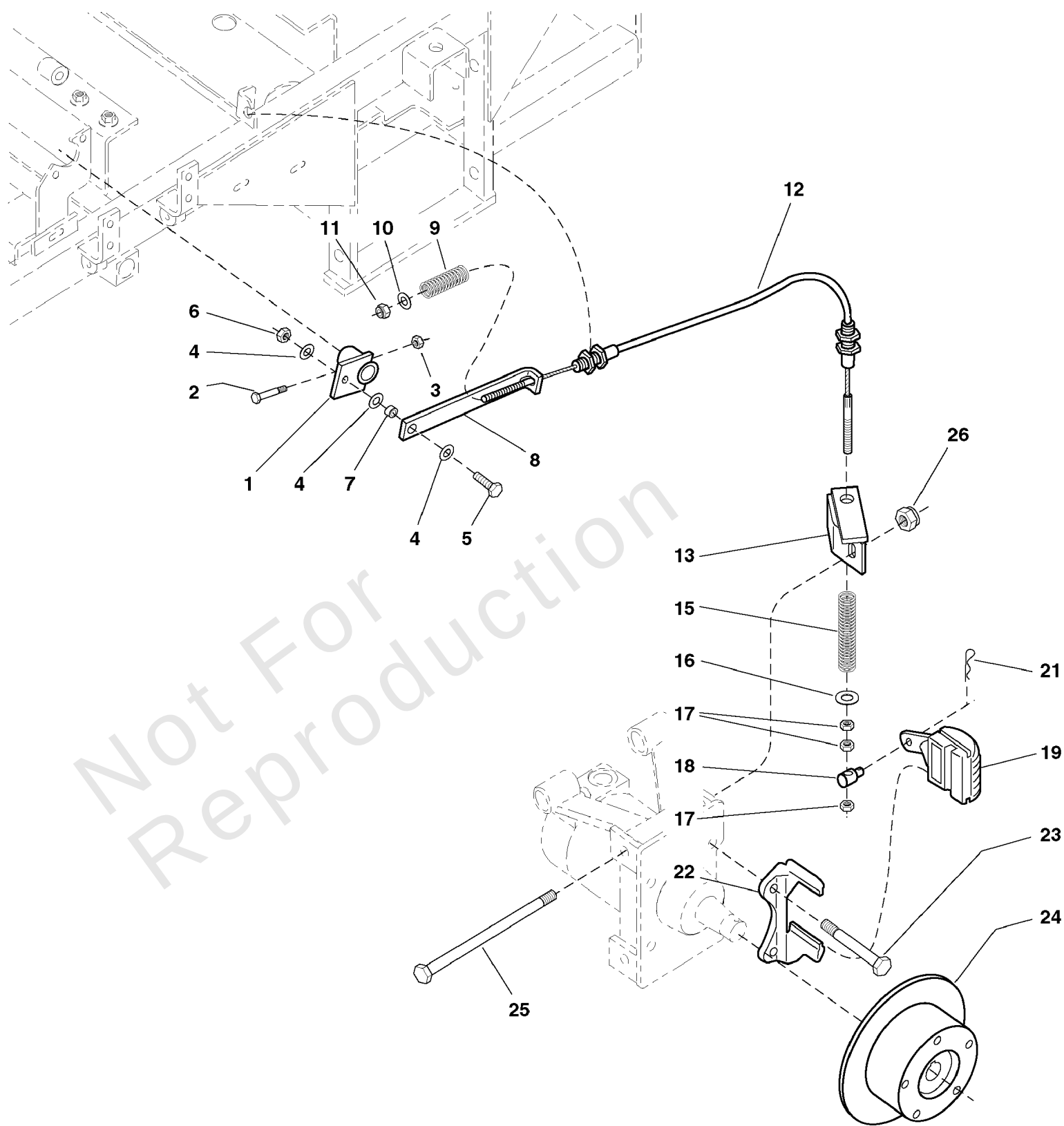
Motion Control Group - Upper (7010mcgu)

REF NO	PART NO	QTY	DESCRIPTION
1	1845912	1	MOTION CONTROL LEVER-LH
2	1845913	1	MOTION CONTROL LEVER-RH (not shown)
3	5022068SM	2	GRIP, FOAM, 3/4" ID,
4	5025011X6SM	4	BOLT, 5/16-18 X 3/4"
5	5025170SM	4	WASHER, 5/16" LOCK
6	703302	14	WASHER, 5/16
7	1845901	2	BASE, Control Lever
8	5025013X16SM	2	CAPSCREW, Hex Hd, 3/8-16 x 2
9	5025096SM	8	NUT, 3/8-16 HEX NYLON
10	1845626	2	MOTION CONTROL ARM
11	703570	10	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
12	5025032SM	4	NUT, 5/16-18 HEX
13	1845902	2	NEUTRAL LOCK PLATE
14	5045942	2	SPACER, .39 X 1.00 X .87
15	5025013X18SM	2	BOLT, 3/8-16 X 2-1/4"
16	5025156SM	2	WASHER, 3/8
17	5045948SM	2	BEARING & INSERT ASSEMBLY, Complete (SN: 601 & up)
*	1705897SM	2	BEARING, BALL 11/16X1
*	5021879	2	Insert
18	1845881	2	REVERSE SPRING MOUNT (SN: 101-300 only)
19	5022398	2	SPRING, Compression (SN: 101-300 only)
20	5021102SM	2	SPRING, COMPRESSION
21	502505528	2	CAPSCREW, Hex Hd, TFL, 5/16-18 x 3-1/2 (SN: 101-300 only)
22	1845939	2	REVERSE SPRING MOUNT
23	5022421SM	2	SPRING, Compression
24	5022290SM	2	BUSHING, Flange
25	502501156	8	CAPSCREW, Hex Hd, 5/16-18 x 7
26	1931277SM	12	NUT, Hex, Serrated Flange, 5/16-18
27	5025011X10SM	4	CAPSCREW, Hex Hd, 5/16-18 x 1-1/4
28	5022047SM	2	BALL JOINT, 3/8, LH
29	5044958SM	2	HEX ROD, Long
30	5025035SM	2	NUT (3/8-24 HEX)
31	5021124SM	2	BALL JOINT, 3/8-24 MA
32	5025013X24SM	2	BOLT, 3/8-16 X 3" GD5
33	5044992SM	2	SPACER, .38 X .50 X 1
34	50251996	2	CAPSCREW, Hex Hd, Loctite Patch, 3/8-16 x 3/4
35	5025165SM	2	WASHER, 3/8" FENDER
36	5025045SM	2	NUT, 5/16-24 HEX NYLO

Parking Brake Group - Lower (7010pbgl)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



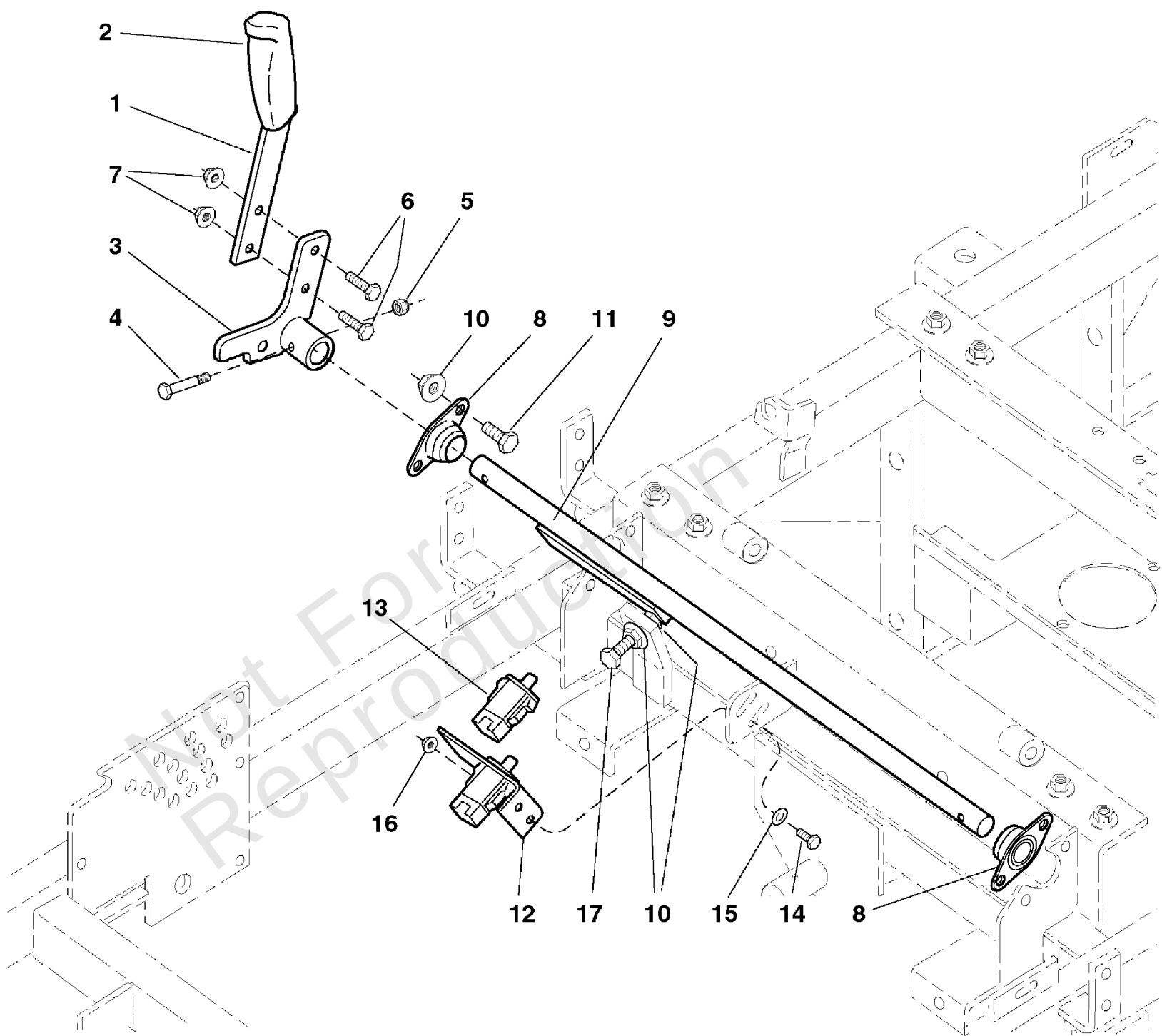
Parking Brake Group - Lower (7010pbgl)

REF NO	PART NO	QTY	DESCRIPTION
1	1845618	1	BRAKE LINKAGE PIVOT (LH only)
2	5025010X14SM	2	BOLT, 1/4-20 X 1-3/4"
3	5025095SM	2	NUT, 1/4-20 HEX NYLON
4	5025156SM	6	WASHER, 3/8
5	5025013X10SM	2	BOLT, 3/8-16 X 1-1/4"
6	5025096SM	2	NUT, 3/8-16 HEX NYLON
7	5041930SM	2	SPACER, .38 X .50 X .
8	1845633	2	LINK, Brake Lock
9	5022361SM	2	SPRING, BRAKE
10	703302	2	WASHER, 5/16
11	5025045SM	2	NUT, 5/16-24 HEX NYLO
12	5022209SM	2	CABLE, Brake
13	1845604	1	BRACKET, Cable Mount-LH
14	1845605	1	BRACKET, Cable Mount-RH (not shown)
15	5021494SM	2	SPRING, COMPRESSION,
16	5025164SM	2	WASHER, 5/16" FENDER
17	5025033SM	6	NUT, Hex, 5/16-24
18	5041482	2	ADJUSTER, Brake Linkage
19	5022342SM	1	BRAKE CALIPER, LH
20	5022341SM	1	BRAKE CALIPER, RH (Not Shown)
21	5025211SM	2	PIN, HAIR, .0585" X 1
22	5022340SM	2	MOUNT, Brake Caliper
23	502501824	4	CAPSCREW, Hex Hd, 1/2-20 x 3
24	5022339SM	2	HUB, 8" Brake Disc
25	502501760	2	CAPSCREW, Hex Hd, 1/2-13 x 7-1/2
26	5025056SM	2	NUT, Hex, Nylon Lock, 1/2-13

Parking Brake Group - Upper (7010pbgu)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



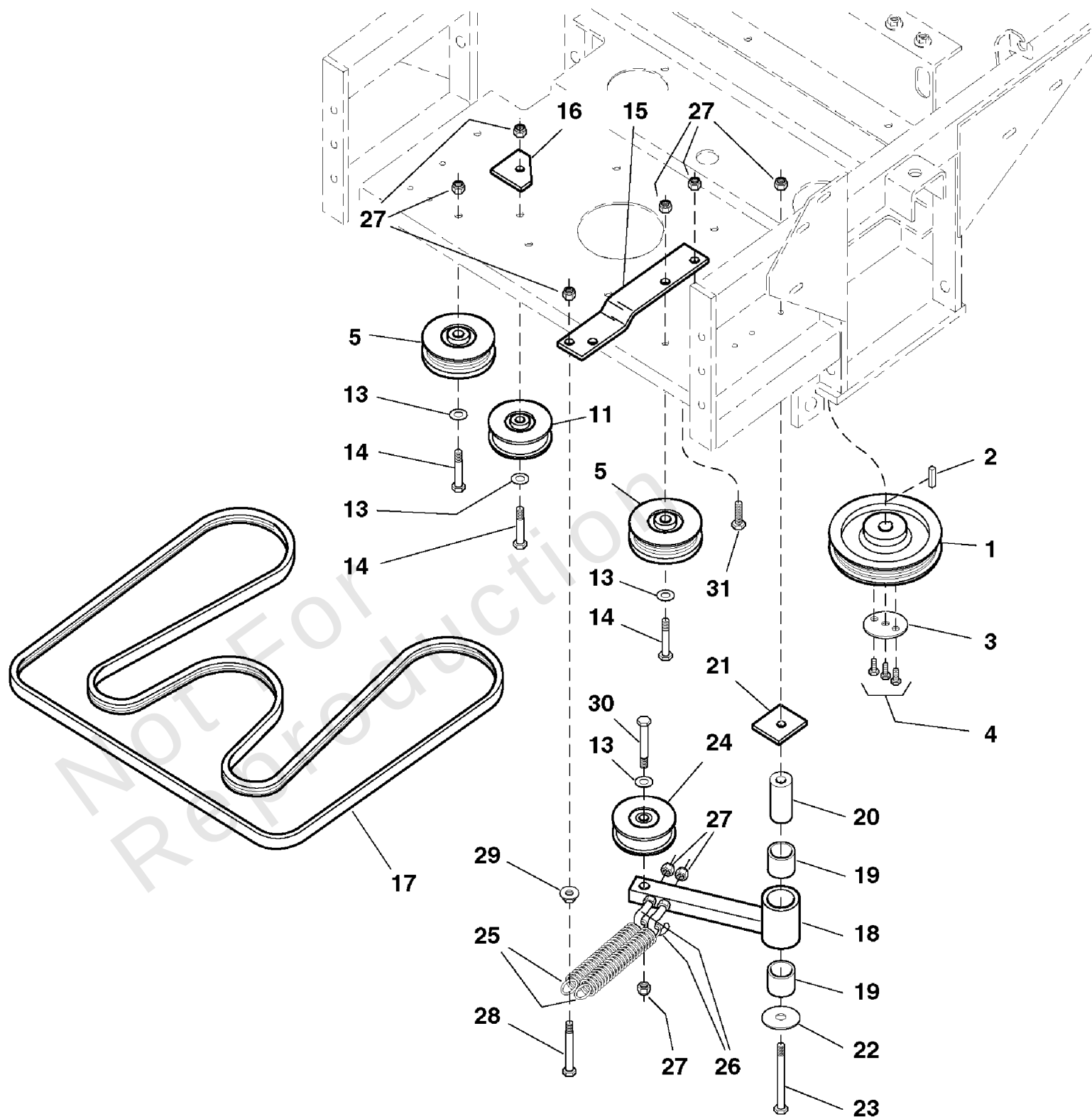
Parking Brake Group - Upper (7010pbgu)

REF NO	PART NO	QTY	DESCRIPTION
1	1845619	1	BRAKE HANDLE
2	1722302SM	1	GRIP
3	1845616	1	BRAKE HANDLE MOUNT
4	5025010X14SM	1	BOLT, 1/4-20 X 1-3/4"
5	5025095SM	1	NUT, 1/4-20 HEX NYLON
6	703570	2	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
7	1931277SM	2	NUT, Hex, Serrated Flange, 5/16-18
8	5021098SM	2	BEARING, BRONZE FLANG
9	1845610	1	BRAKE HANDLE SHAFT
10	5025128SM	6	NUT, 3/8-16 HEX SERRA
11	5025013X6SM	4	BOLT, 3/8-16 X 3/4" G
12	1845621	1	SWITCH MOUNT BRACKET
13	-----	2	SWITCH (See Electrical Group)
14	5025010X6SM	2	BOLT, 1/4-20 X 3/4" G
15	703332	2	WASHER
16	703233	2	NUT, 1/4-20, GR5
17	5025058X14	1	CAPSCREW, Hex Hd, TFL, 3/8-16 x 1-3/4

Pump Drive Group (7010pdg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



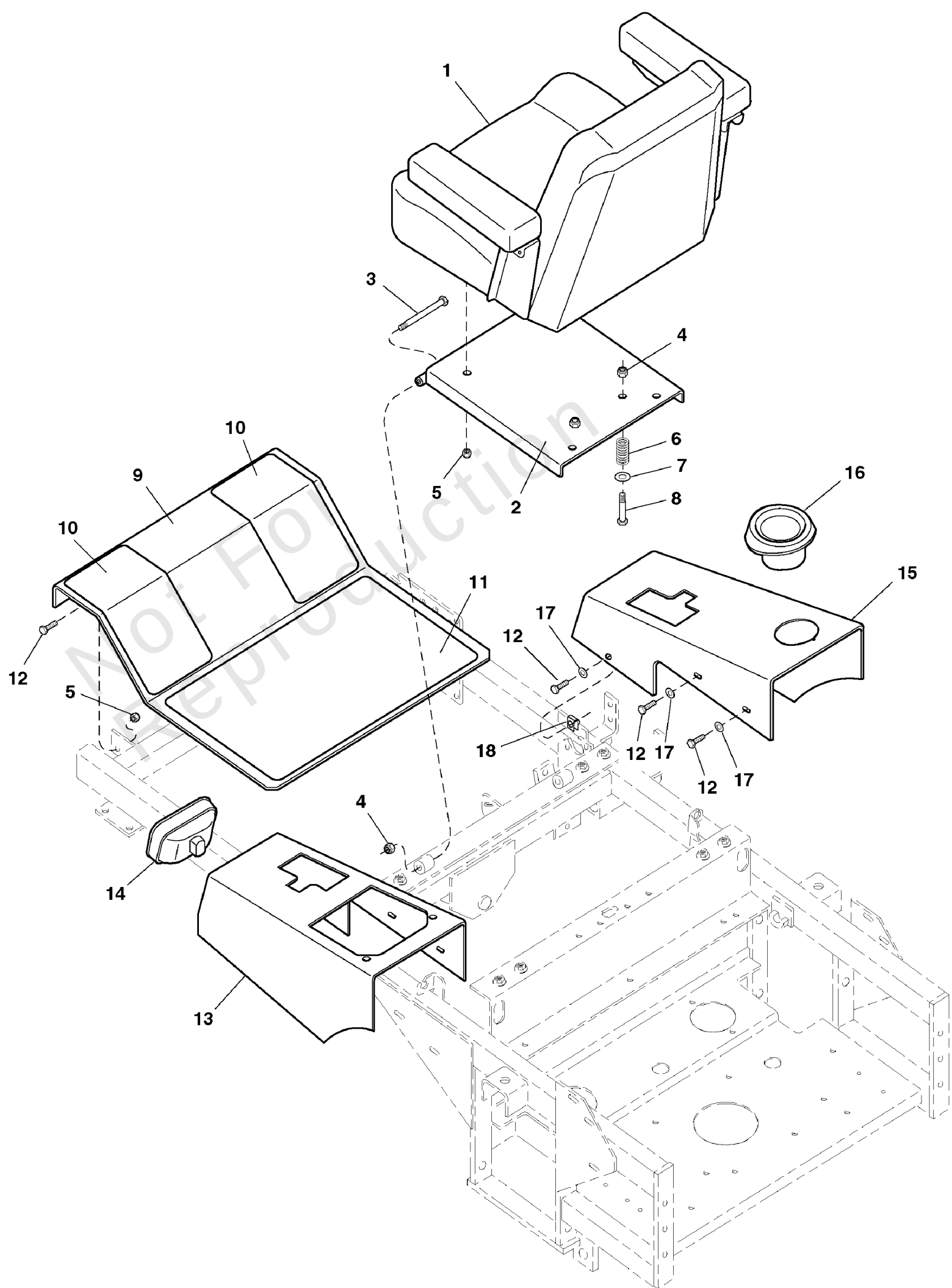
Pump Drive Group (7010pdg)

REF NO	PART NO	QTY	DESCRIPTION
1	5022155SM	2	PULLEY, PUMP DRIVE
2	5022156SM	2	KEY, 5MM SQ. X 25MM L
3	5045143SM	2	RETAINER, Pulley
4	5025248SM	6	CAPSCREW, Hex Hd, M6 x 10mm
5	5060020SM	2	IDLER PULLEY ASSEMBLY, Complete (includes Ref 6, 7, 8, 9 & 10)
6	1705897SM	8	BEARING, BALL 11/16X1
7	5020865	4	SNAP RING, Not Shown (included in Ref 5, 11)
8	5020880SM	4	INSERT, BEARING, 17MM
9	5021879	4	INSERT, Shoulder, Not Shown (included in Ref 5, 11)
10	5045073SM	2	PULLEY, Idler, Grooved, Not Shown (included in Ref 5, 11)
11	5060021SM	1	BACKSIDE IDLER PULLEY
12	5045140	2	PULLEY, Idler, Smooth, Not Shown (included in Ref 11)
13	5025156SM	4	WASHER, 3/8
14	5025013X18SM	3	BOLT, 3/8-16 X 2-1/4"
15	1845396	1	SPRING ANCHOR
16	5045144	1	PULLEY SUPPORT
17	5022062SM	1	BELT, Grooved
18	1845132	1	IDLER ARM ASSEMBLY, Complete (includes Ref 19)
19	5022157SM	2	BUSHING, BRASS, 1.25X
20	5045135SM	1	SHAFT, Idler Pivot
21	5045090SM	1	SPACER, IDLER PIVOT
22	5025305SM	1	WASHER, .41 X 1.75 X
23	5025013X32SM	1	BOLT, 3/8-16 X 4" GD5
24	5060040SM	1	HYDRO IDLER PULLEY AS
25	5020807SM	2	SPRING, EXTENSION
26	5025290SM	2	SCREW HOOK, 3/8-16 X
27	5025096SM	10	NUT, 3/8-16 HEX NYLON
28	5025013X20SM	2	CAPSCREW, Hex Hd, 3/8-16 x 2-1/2
29	5025128SM	2	NUT, 3/8-16 HEX SERRA
30	5025013X22SM	1	BOLT, 3/8-16 X 2-3/4"
31	5025013X8SM	1	BOLT, 3/8-16 X 1" GD5

Seat, Floor & Control Cover Group (7010sfcg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



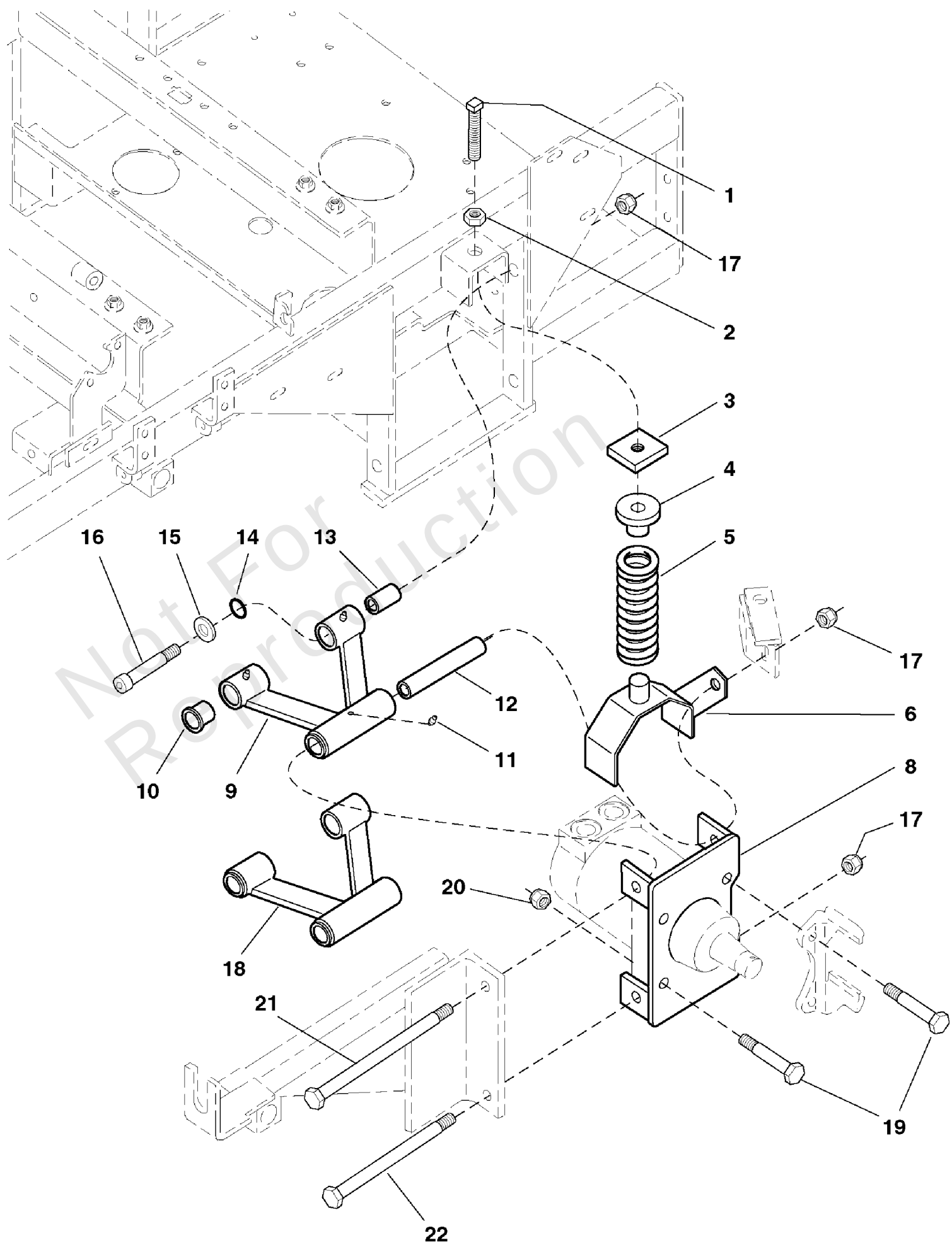
Seat, Floor & Control Cover Group (7010sfcg)

REF NO	PART NO	QTY	DESCRIPTION
1	5022363SM	1	SEAT, Brown (complete)
*	5022363X1SM	1	CUSHION, Seat, Brown
*	5022197X2SM	1	CUSHION, Back, Brown
*	5022440	2	ARM REST, Black
2	1845156	1	PLATE, Seat Mount
3	5025013X32SM	2	BOLT, 3/8-16 X 4" GD5
4	5025096SM	4	NUT, 3/8-16 HEX NYLON
5	5025057SM	6	NUT, Hex, Nylon Lock, 5/16-18
6	5021102SM	2	SPRING, COMPRESSION
7	5025156SM	2	WASHER, 3/8
8	5025013X18SM	2	BOLT, 3/8-16 X 2-1/4"
9	1845333	1	FLOOR
10	5045915SM	2	SAFETY WALK
11	5044873SM	1	SAFETY WALK, 19.5 X 1
12	703570	8	CAPSCREW, Hex Head, 5/16-18 x 1 1/4
13	1845599	1	CONTROL COVER, LH
14	1719230SM	2	HEADLIGHT ASSEMBLY, Complete
*	1719230SM	2	Headlight
*	1719227SM	2	Bezel
15	1845600	1	CONTROL COVER, RH
16	1719392SM	1	CUP HOLDER
17	703302	6	WASHER, 5/16
18	5022308SM	2	BODY CLIP, 5/16-18 X

Suspension Group (7010sg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



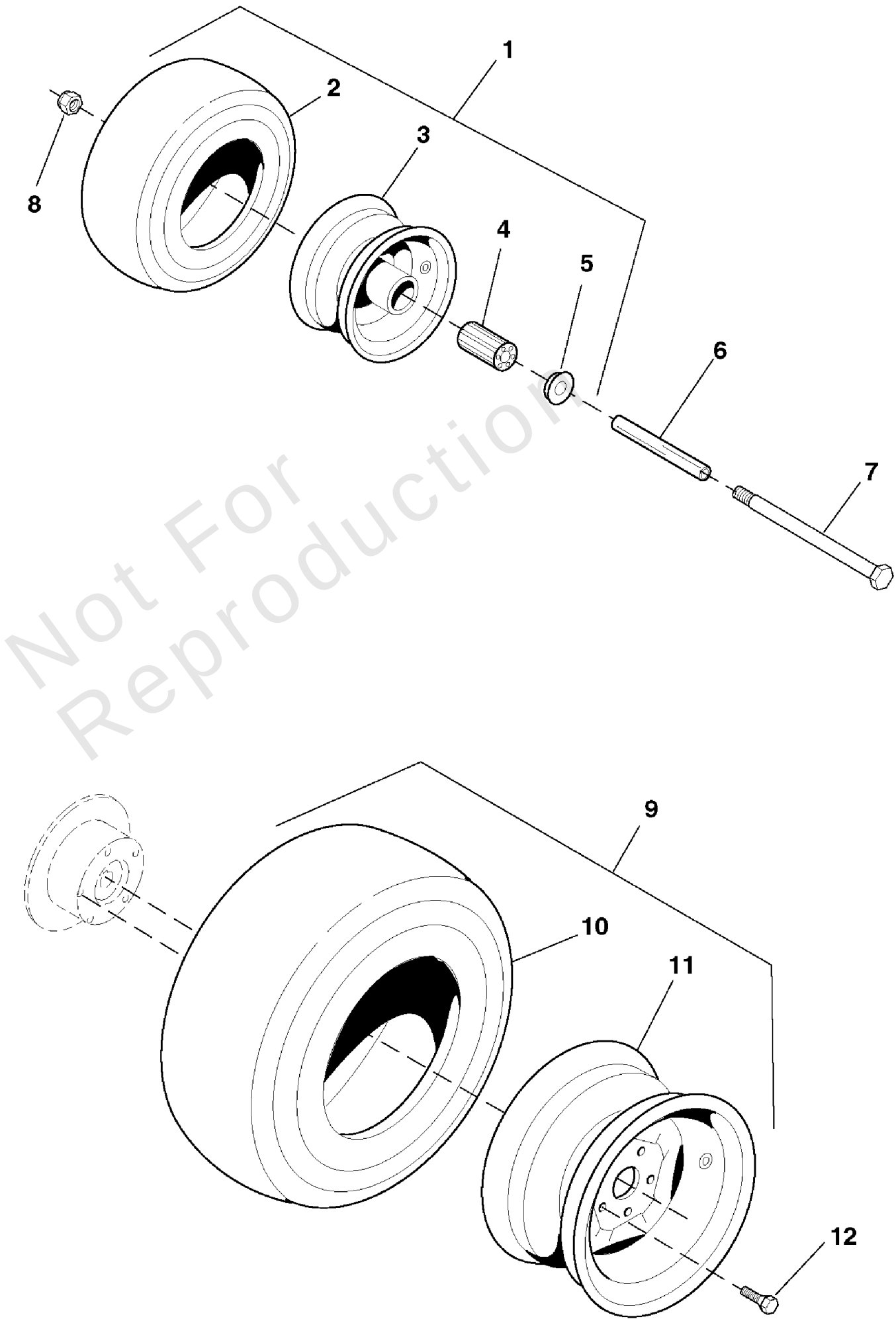
Suspension Group (7010sg)

REF NO	PART NO	QTY	DESCRIPTION
1	5025294SM	2	SET SCREW, Square Hd, 1/2-13 x 3
2	5025301SM	2	NUT, 1/2-13 HEX JAM
3	5045904SM	2	SPRING COMPRESSION PLATE
4	5045898SM	2	SPRING RETAINER
5	5021747SM	2	SPRING, Suspension
6	1845601	1	SPRING SADDLE-LH
7	1845602	1	SPRING SADDLE-RH (not shown)
8	1845588	2	WHEEL MOTOR MOUNT
9	1845304	2	SUSPENSION A-ARM, Upper
10	5022250SM	16	BUSHING, FLANGE, 7/8"
11	5020095SM	12	GREASE FITTING, 1/4-2
12	5045305SM	4	SLEEVE, A-ARM PIVOT-L
13	5045306SM	8	SLEEVE, A-ARM PIVOT-S
14	5022269SM	8	O-RING, 7/8" ID X 1/1
15	5045307SM	8	WASHER, .52 X .99 X 1
16	5025294SM	8	CAPSCREW, Allen Head, 1/2-13 x 3
17	5025056SM	12	NUT, Hex, Nylon Lock, 1/2-13
18	1845308	2	SUSPENSION A-ARM, Lower
19	502501824	8	CAPSCREW, Hex Hd, 1/2-20 x 3
20	5025098SM	8	NUT, 1/2-20 HEX NYLON
21	502501760	2	CAPSCREW, Hex Hd, 1/2-13 x 7-1/2
22	5025017X52SM	2	BOLT, 1/2-13 X 6-1/2"

Wheels & Tires Group (7010wtg)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: ZT2354



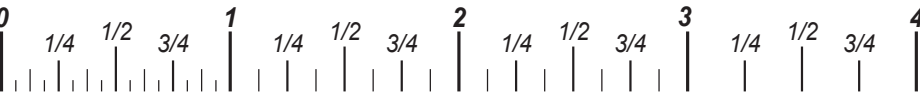
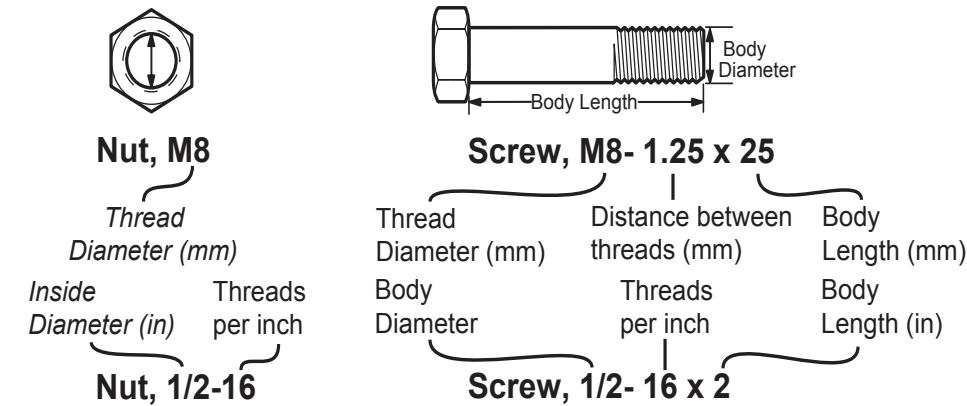
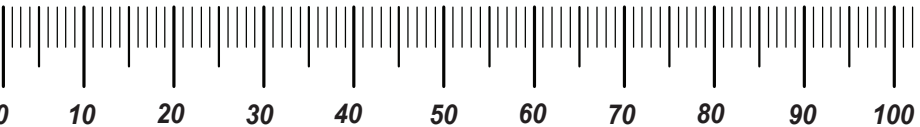
Wheels & Tires Group (7010wtg)

REF NO	PART NO	QTY	DESCRIPTION
1	5022631SSM	2	WHEEL & TIRE ASSEMBLY, Front, 13 x 5.0 x 6, Complete (Includes Ref 2 thru 5)
2	5022029X1SM	2	TIRE, Front, 13 x 5.0 x 6
3	50220292	2	WHEEL ASSEMBLY, Front, for 13 x 5.0 x 6 Tires, Complete (Includes Ref 4 & 5)
4	5021042SM	4	BEARING, Roller (2 per tire)
5	5021043SM	4	RETAINER, Bearing
6	5022100SM	2	AXLE, Front Caster
7	502501760	2	CAPSCREW, Hex Hd, 1-2/13 x 7-1/2
8	5025056SM	2	NUT, Hex, Nylon Lock, 1-2/13
9	5022396SM	2	WHEEL & TIRE ASSEMBLY, Rear, 23 x 10.5 x 12, Complete (Includes Ref 10 & 11)
10	50223961	2	TIRE, Rear, 23 x 10.5 x 12
11	50223962	2	WHEEL ASSEMBLY, Rear, for 23 x 10.5 x 12 Tires
12	5022215SM	10	BOLT, WHEEL LUG, 1/2"

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).

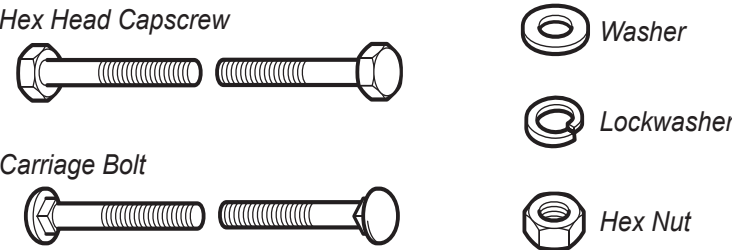
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

