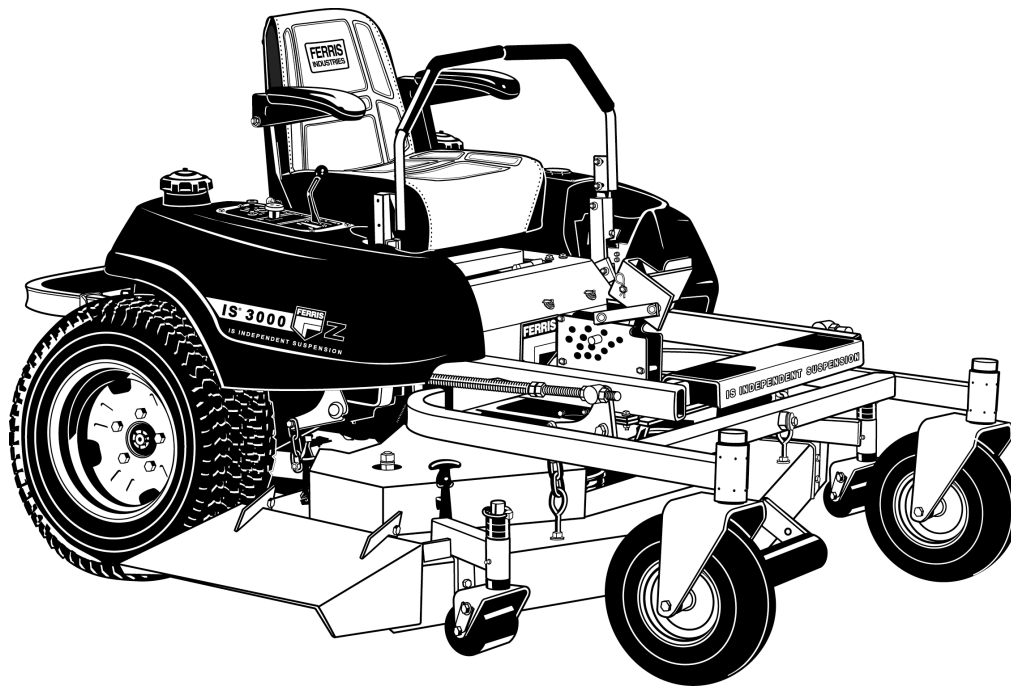




Parts Manual

IS3000Z Series

Zero-Turn Riding Mower



Models:

5901057

5901058

Ferris Industries

5375 North Main Street
Munnsville, NY 13409 USA
800-933-6175

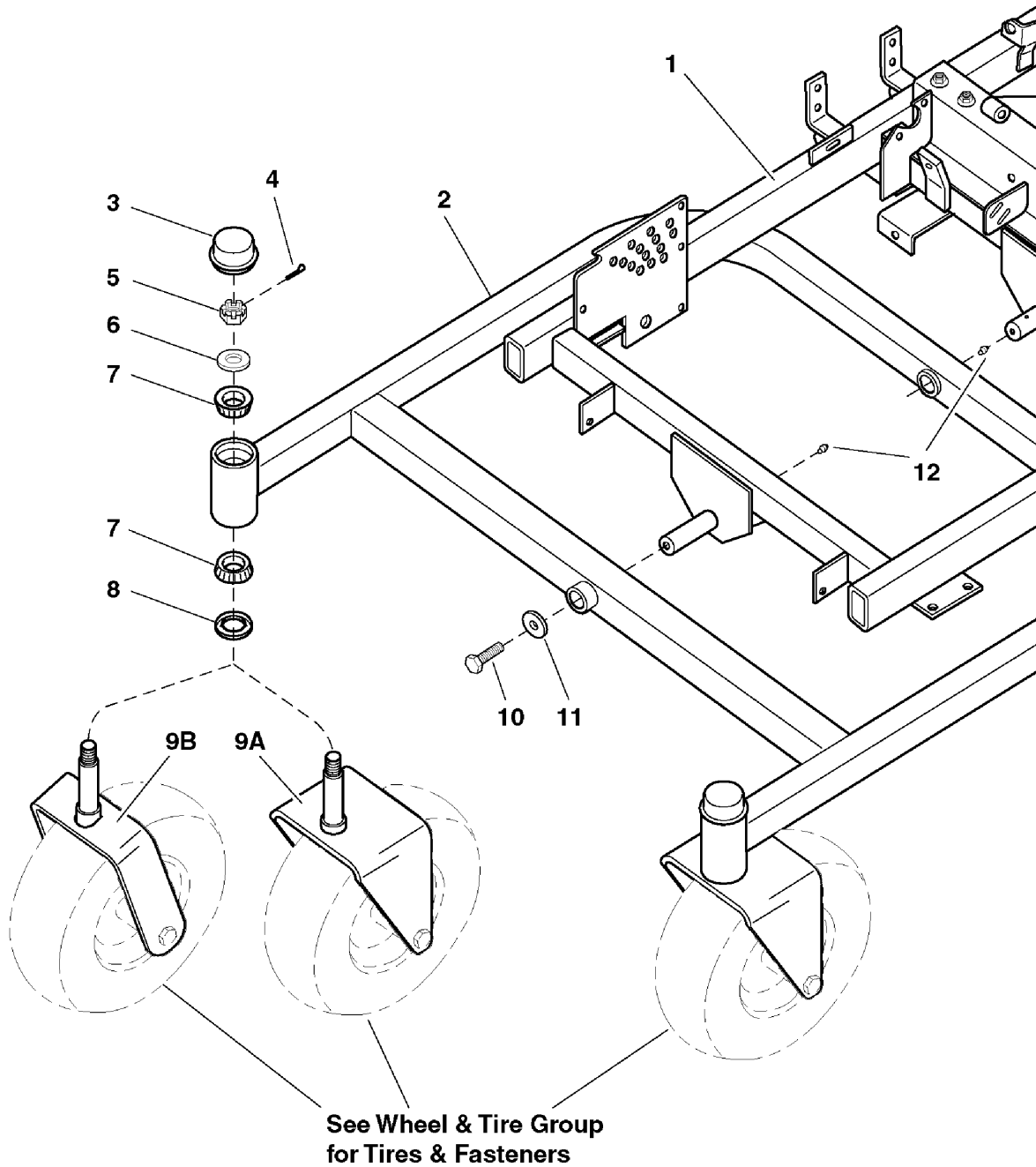
5022625
Revision 04
Rev. Date: 10/2005
TP 400-7005-04-3Z-F

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Main Frame Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005FRM0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Main Frame Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5046373B	1	MAIN FRAME
2	5044908B	1	FRAME, Front Pivot
3	5021073	2	CAP
4	5025203X10	2	COTTER PIN, 1/8" X 1-1/4"
5	5025104	2	NUT, 3/4-16 Hex Slotted
6	5025160	2	WASHER, 3/4" SAE
7	5020884	4	BEARING, Tapered Roller
8	5021072	2	GREASE SEAL
9A	5044914B	2	YOKE, Caster (S/N: 101 - 250)
9B	5047049B	2	CASTER YOKE (S/N: 251 & above)
10	5025018X10	1	BOLT, 1/2-20 x 1-1/4
11	5044913	1	WASHER, Frame Retaining
12	5020095	2	GREASE FITTING

Footnotes

The above parts group applies to the following Mfg. Nos.:

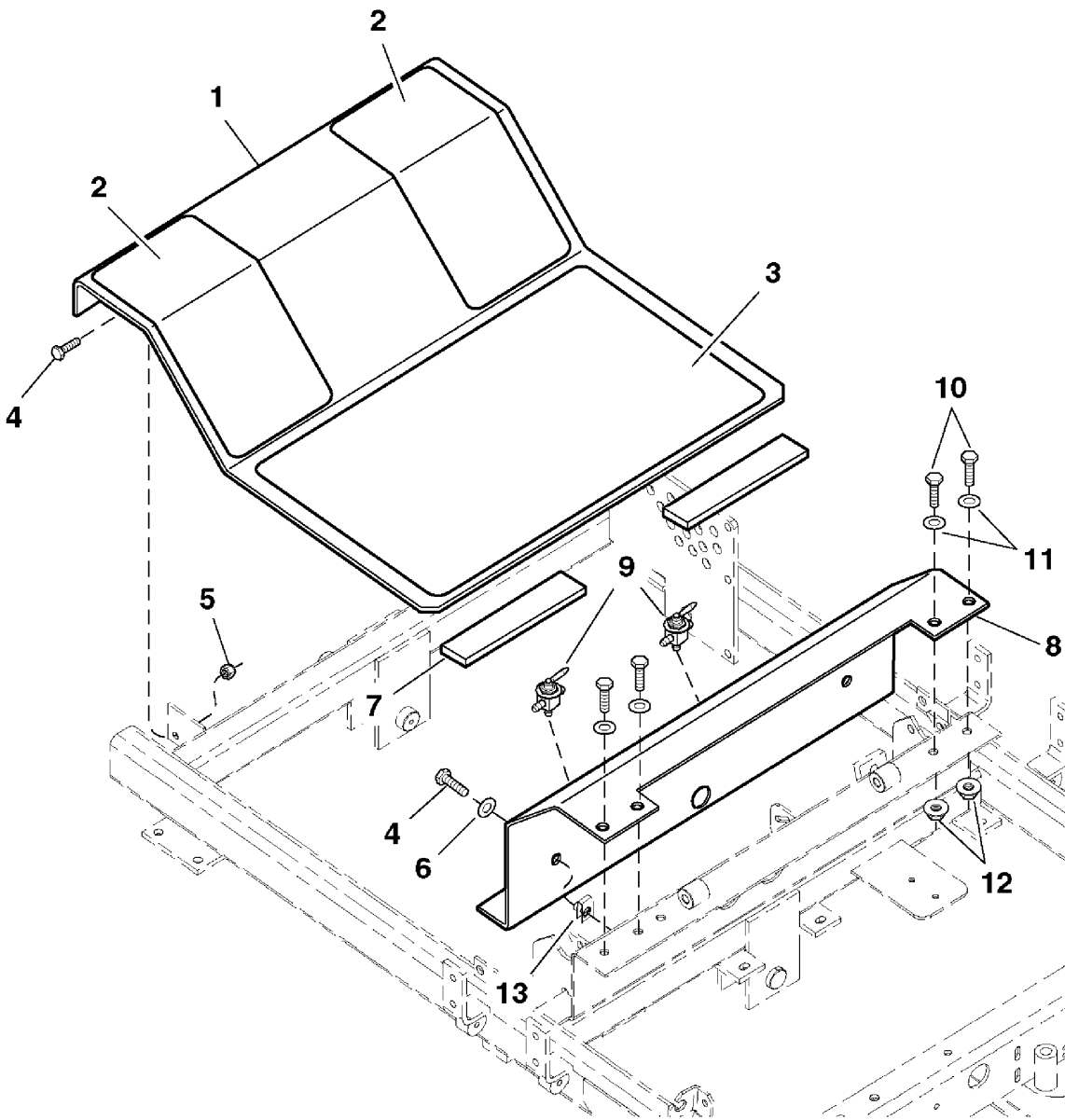
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Floor Pan & Brake Cover Group

005FLR0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Floor Pan & Brake Cover Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5045333B	1	FLOOR PAN
2	5045915	2	SAFETY WALK
3	5044873	1	SAFETY WALK
4	5025011X8	4	BOLT, 5/16-18 x 1
5	5025057	2	NUT, 5/16-18 Hex Nylon Lock
6	5025155	2	WASHER, 5/16" SAE
7	5021877	2	RUBBER PAD
8	5046413B	1	BRAKE COVER PANEL
9	5022030	2	VALVE, Fuel Shut Off
10	5025013X8	4	BOLT, 3/8-16 x 1
11	5025156	4	WASHER, 3/8" SAE
12	5025128	2	NUT, 3/8-16 Hex Serrated Flange
13	5022308	2	BODY CLIP, 5/16-18

Footnotes

The above parts group applies to the following Mfg. Nos.:

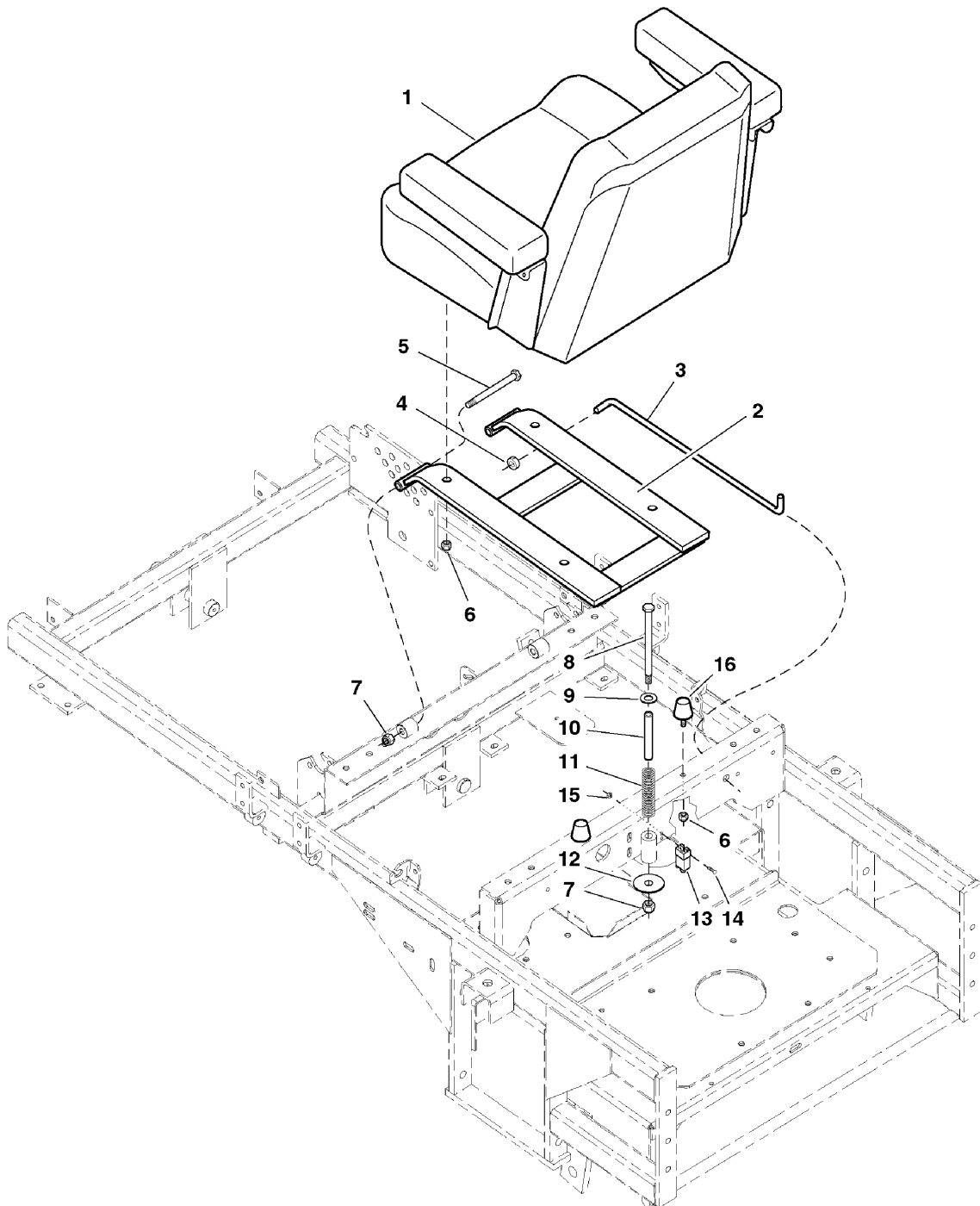
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Seat & Mount Group

005STM0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Seat & Mount Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5022031	1	SEAT, Gray, Complete
1	5022031X1	1	CUSHION, Seat, Gray
1	5020930X9	1	CUSHION, BACK
1	5022440	2	ARM REST, Black
2	5046394B	1	SEAT MOUNT
3	5046470	1	SEAT STOP ROD
4	5020047	1	COLLAR, 5/16" Set
5	5025013X32	2	BOLT, 3/8-16 x 4
6	5025057	6	NUT, 5/16-18 Hex Nylon Lock
7	5025096	3	NUT, 3/8-16 Hex Nylon Lock
8	5025013X48	1	BOLT, 3/8-16 x 6
9	5025156	1	WASHER, 3/8" SAE
10	5046586	1	SPACER, .38 x .50 x 5.06
11	5022798	1	SPRING, Compression
12	5025326	1	WASHER, 3/8 x 2
13	5022095	1	SWITCH, Plunger, NO/NC
14	5025270	2	SCREW, #10-24 x 1
15	25029	2	NUT, #10-24 Hex
16	5022612	2	RUBBER BUMPER

Footnotes

The above parts group applies to the following Mfg. Nos.:

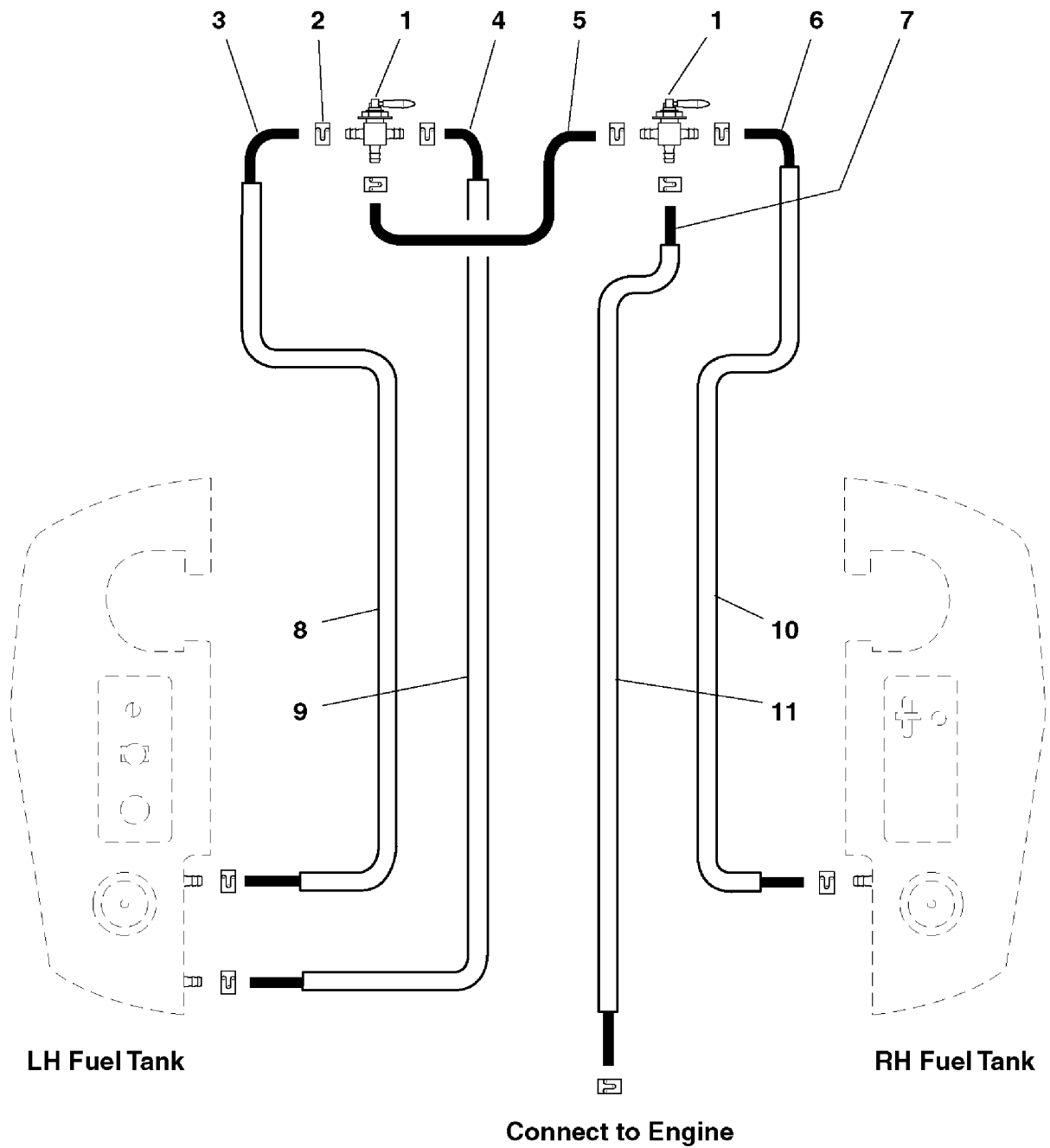
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Fuel Supply Hose Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

005FSH0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Fuel Supply Hose Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5022030	2	VALVE, Fuel Shut Off
2	5020835	10	CLAMP, Hose
3	5050831X54	1	1/4" Fuel Line, 54" Long
4	5050831X56	1	1/4" Fuel Line, 56" Long
5	5050831X7P5	1	1/4" Fuel Line, 7-1/2" Long
6	5050831X45	1	1/4" Fuel Line, 45" Long
7	5050831X51	1	1/4" Fuel Line, 51" Long
8	5050833X53	1	WIRE LOOM, 53"
9	5050833X55	1	WIRE LOOM, 55"
10	5050833X44	1	WIRE LOOM, 44"
11	5050833X50	1	WIRE LOOM, 50"

Footnotes

The above parts group applies to the following Mfg. Nos.:

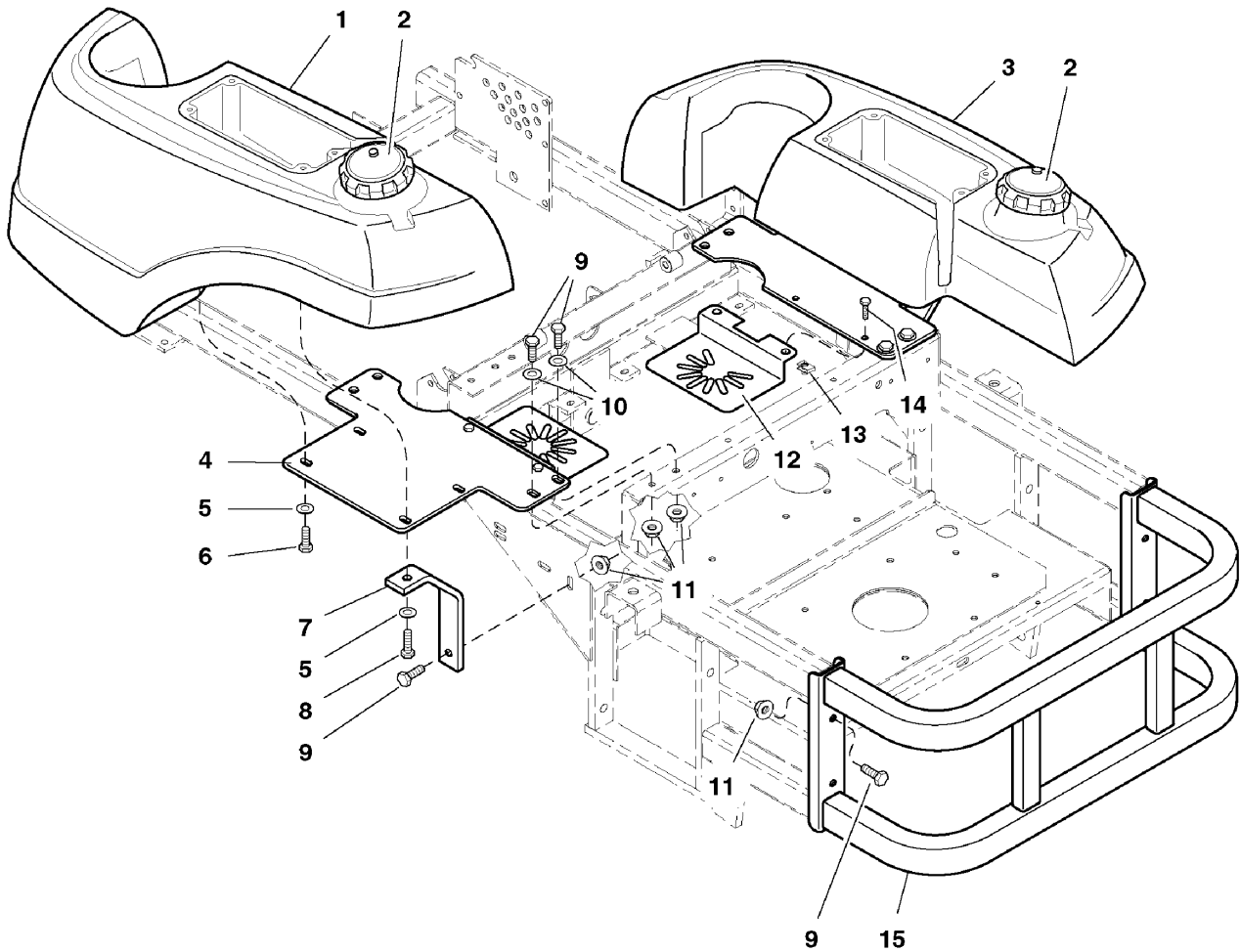
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Fuel Tank & Mount Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005TNK0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Fuel Tank & Mount Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5046279	1	FUEL TANK, IS3000Z, LH
1	5046273	1	Filler Neck
2	5022158	2	FUEL TANK CAP
3	5046278	1	FUEL TANK, IS3000Z, RH
3	5046273	1	Filler Neck
4	5046250B	2	FUEL TANK MOUNT
5	5025155	8	WASHER, 5/16" SAE
6	5025011X6	6	BOLT, 5/16-18 x 3/4
7	5046436B	2	TANK MOUNT SUPPORT
8	5025011X8	2	BOLT, 5/16-18 x 1
9	5025013X8	10	BOLT, 3/8-16 x 1
10	5025156	4	WASHER, 3/8" SAE
11	5025128	10	NUT, 3/8-16 Hex Serrated Flange
12	5046472B	2	FAN SHIELD
13	5022665	4	BODY CLIP, 1/4-20
14	5025010X6	4	BOLT, 1/4-20 x 3/4
15	5045384B	1	BUMPER

Footnotes

The above parts group applies to the following Mfg. Nos.:

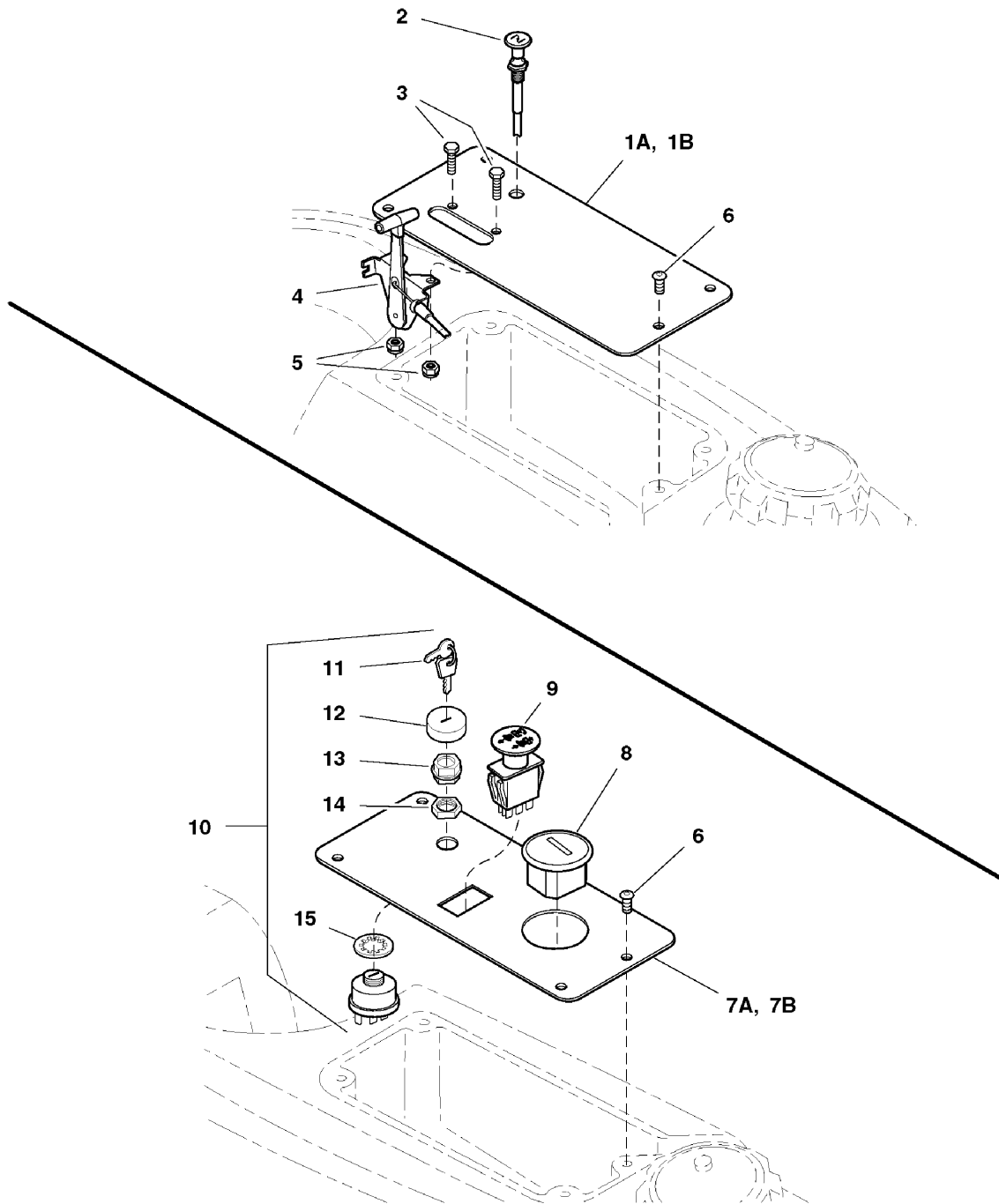
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Instrument & Control Panel Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005INS0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Instrument & Control Panel Group

REF NO	PART NO.	QTY.	DESCRIPTION
1A	5046464	1	PANEL, Control-RH (IS3000ZKAV23, S/N: 101-264)
1B	5046493B	1	PANEL, Control-RH (IS3000ZKAV23, S/N: 265 & above / IS3000ZKAV25 - All)
2	5046501	1	CABLE, Choke Control, 47"
3	5025010X6	2	BOLT, 1/4-20 x 3/4
4	5021887	1	CABLE, Throttle, 45"
5	5025126	2	NUT, 1/4-20 Hex Serrated Flange
6	5025299X4	8	SCREW, Allen Head, 1/4-20 x 1/2
7A	5046467	1	PANEL, Control-LH (IS3000ZKAV23, S/N: 101-264)
7B	5046492B	1	PANEL, Control-LH (IS3000ZKAV23, S/N: 265 & above / IS3000ZKAV25 - All)
8	5020060	1	HOUR METER
9	5022180	1	SWITCH, PTO
10	5020927	1	SWITCH, Ignition, Complete (Includes Ref No. 11 - 15)
11	5022789	1	KEY, Ignition, Molded Set
12	5022790	1	COVER (IS3000ZKAV23, S/N: 326 & above / IS3000ZKAV25, S/N: 176 & above)
13	5022791	1	PLASTIC NUT (IS3000ZKAV23, S/N: 326 & above / IS3000ZKAV25, S/N: 176 & above)
14	5022792	1	STEEL NUT (IS3000ZKAV23, S/N: 101 - 325 / IS3000ZKAV25, S/N: 101 - 175)
15	22793	1	WASHER (IS3000ZKAV23, S/N: 101 - 325 / IS3000ZKAV25, S/N: 101 - 175)

Footnotes

The above parts group applies to the following Mfg. Nos.:

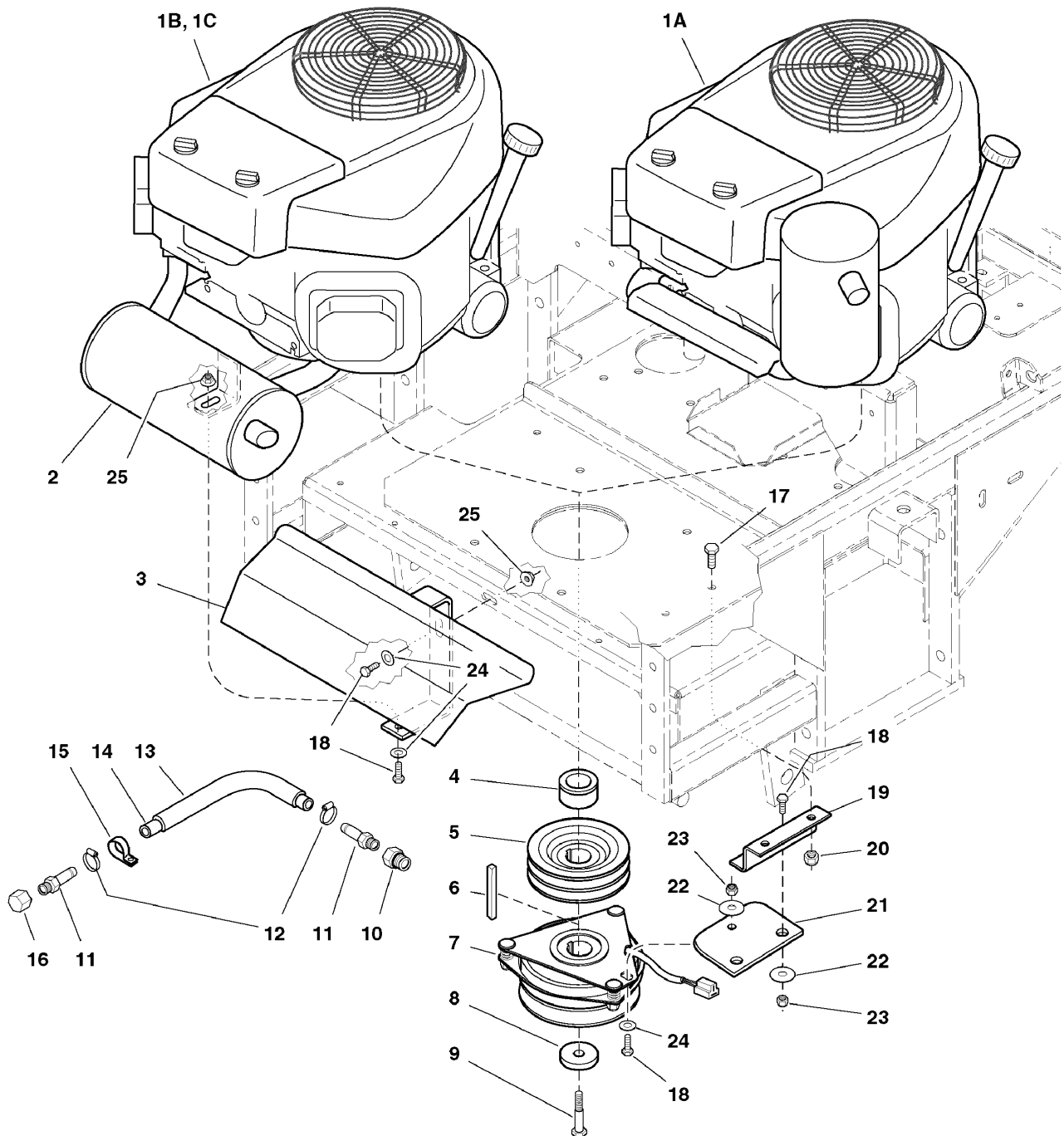
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Engine & PTO Group - Kawasaki

005ENGW0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Engine & PTO Group - Kawasaki

REF NO	PART NO.	QTY.	DESCRIPTION
1A	5022232	1	ENGINE, 23HP Kawasaki (Model FH680V) (S/N: 101 - 325)
1B	5022672	1	ENGINE, 23HP Kawasaki (Model FH680V) (S/N: 326 & above)
1C	5022608	1	ENGINE, 25HP Kawasaki (Model FH721V)
2	5022647	1	MUFFLER
3	5046487B	1	MUFFLER SUPPORT
4	5047033	1	SPACER, 1.13 x 1.75 x 1.03
5	5047075	1	CRANKSHAFT PULLEY
6	5050407X2	1	KEY, 1/4 SQ. X 3
7	5022590	1	ELECTRIC CLUTCH
8	5045475	1	SPACER, .45 x 1.88 x .38
9	5045331	1	CRANKSHAFT BOLT, 7/16 x 1-3/4
10	5022234	1	ADAPTER, Oil Drain
11	5021372	2	FITTING, 3/8NPT-1/2" Hose, Straight
12	5021392	2	CLAMP, #6 Hose
13	5050862X12	1	WIRE LOOM, 12"
14	5050857X13	1	HOSE, 13"
15	5021500	1	CLAMP, Vinyl
16	5021466	1	CAP, 3/8 NPT
17	5025013X8	2	BOLT, 3/8-16 x 1
18	5025011X6	5	BOLT, 5/16-18 x 3/4
19	5046416B	1	CLUTCH ANCHOR
20	5025096	2	NUT, 3/8-16 Hex Nylon Lock
21	5043636	1	CLUTCH ANCHOR PAD
22	5025165	3	WASHER, 3/8" Fender
23	5025057	3	NUT, 5/16-18 Hex Nylon Lock
24	5025155	3	WASHER, 5/16" SAE
25	5025127	2	NUT, 5/16-18 Hex Small Serrated Flange

Footnotes

- See your local Kawasaki engine dealer for parts & service.

The above parts group applies to the following Mfg. Nos.:

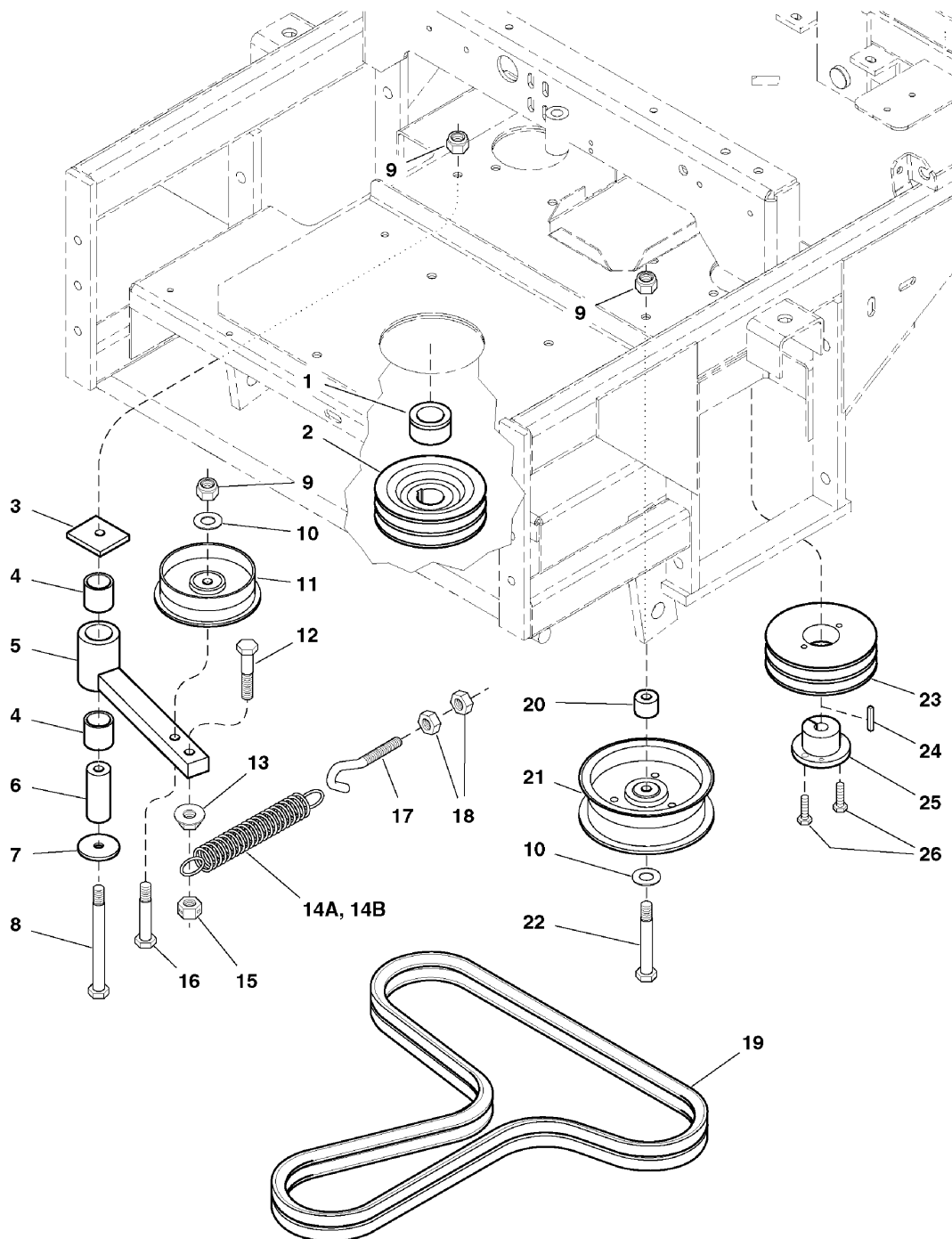
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Pump Drive Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005PDR0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Pump Drive Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5047033	1	SPACER, 1.13 x 1.75 x 1.03
2	5047075	1	CRANKSHAFT PULLEY
3	5045090	1	SPACER, Idler Pivot
4	5022157	2	BUSHING, Brass
5	5046430B	1	PUMP DRIVE IDLER ARM
6	5045135	1	SPACER, .39 X 1.00 X 2.55
7	5025305	1	WASHER, 3/8 x 1-3/4
8	5025013X32	1	BOLT, 3/8-16 x 4
9	5025096	3	NUT, 3/8-16 Hex Nylon Lock
10	5025156	2	WASHER, 3/8" SAE
11	5022621	1	PULLEY, Idler (Single Flange)
12	5025013X14	1	BOLT, 3/8-16 x 1-3/4
13	5025128	1	NUT, 3/8-16 Hex Serrated Flange
14A	5021826	1	SPRING, Extension (23HP model, S/N: 101-425 / 25HP model, S/N 101-1975)
14B	5022847	1	SPRING, Extension, Swivel End (23HP model, S/N: 426 & above / 25HP model, S/N: 1976 & above)
15	5025100	1	NUT, 3/8-16 Hex Side Lock
16	5025013X18	1	BOLT, 3/8-16 x 2-1/4
17	5025321	1	SCREW HOOK, 3/8-16 x 4-1/4
18	5025034	2	NUT, 3/8-16 Hex
19	5022314	1	BELT, Pump Drive (set of 2)
20	5046446	1	SPACER, .39 x 1.00 x .79
21	5022620	1	PULLEY, Idler
22	5025013X22	1	BOLT, 3/8-16 x 2-3/4
23	5022586	2	PULLEY, Pump Drive
24	5023254	2	KEY, 5MM SQ. x 25MM w/ Round Ends
25	5022587	2	BUSHING, Tapered Hub
26	5025010X8	4	BOLT, 1/4-20 x 1

Footnotes

The above parts group applies to the following Mfg. Nos.:

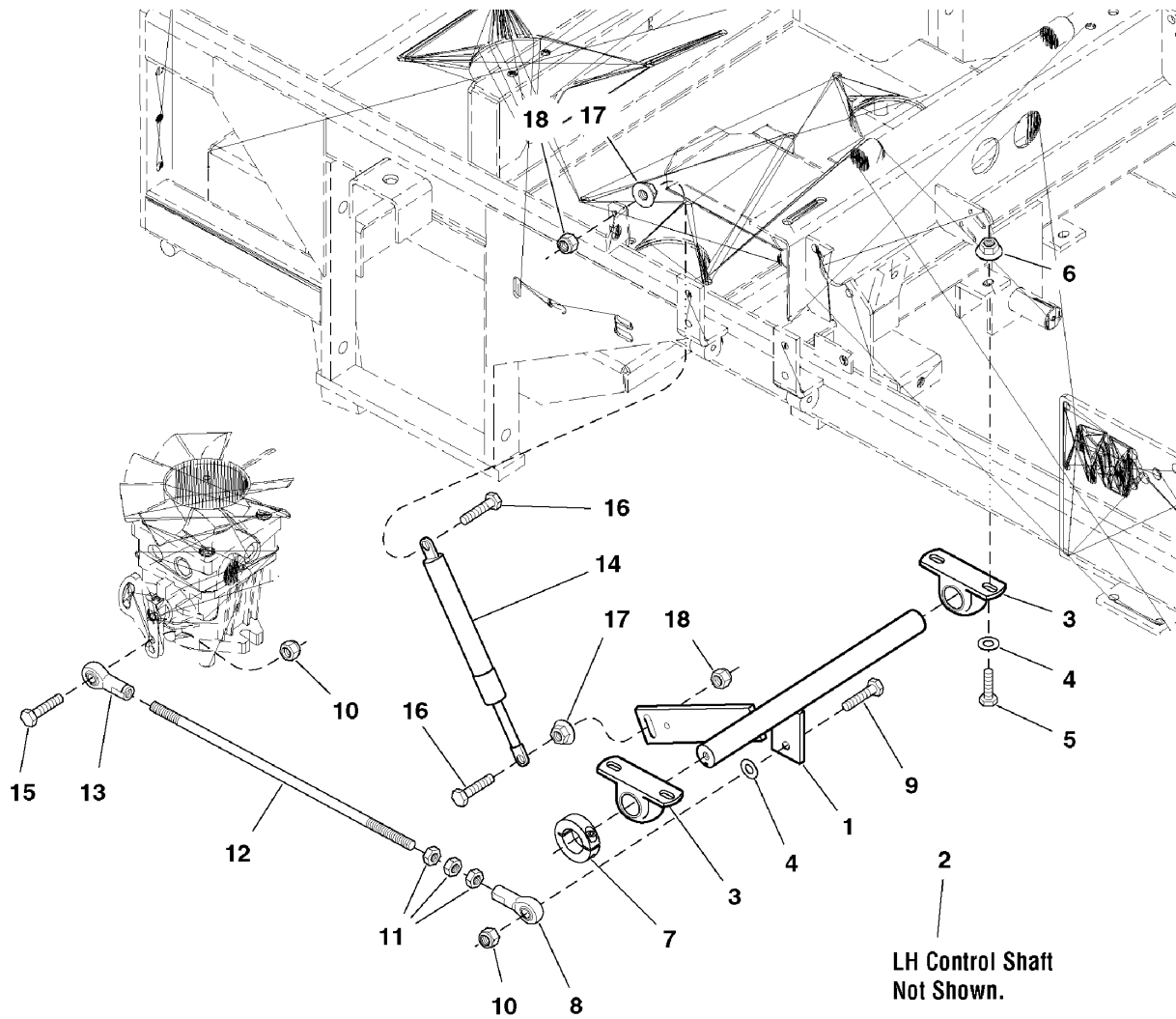
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Motion Control Group - Lower

005MCGL0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Motion Control Group - Lower

REF NO	PART NO.	QTY.	DESCRIPTION
1	5046405B	1	CONTROL SHAFT-RH
2	5046404B	1	CONTROL SHAFT-LH (Not Shown)
3	5022630	4	BEARING, Pillow Block
4	5025155	10	WASHER, 5/16" SAE
5	5025011X8	8	BOLT, 5/16-18 x 1
6	5025127	8	NUT, 5/16-18 Hex Small Serrated Flange
7	5020602	2	COLLAR, 1" Split
8	5021146	2	BALL JOINT, 5/16-24 Female
9	5025011X10	2	BOLT, 5/16-18 x 1-1/4
10	5025057	4	NUT, 5/16-18 Hex Nylon Lock
11	5025033	6	NUT, 5/16-24 Hex
12	5046420	2	HYDRO LINKAGE ROD
13	5022628	2	BALL JOINT, 5/16-24 LH
14	5022978	2	DAMPENER
15	5025011X9	2	BOLT, 5/16-18 x 1-1/8
16	5025353	4	BOLT, M8 x 30MM
17	5025355	4	NUT, M8-1.25 Hex Serrated Flange
18	5025354	4	NUT, M8-1.25 Hex Nylon Lock

Footnotes

The above parts group applies to the following Mfg. Nos.:

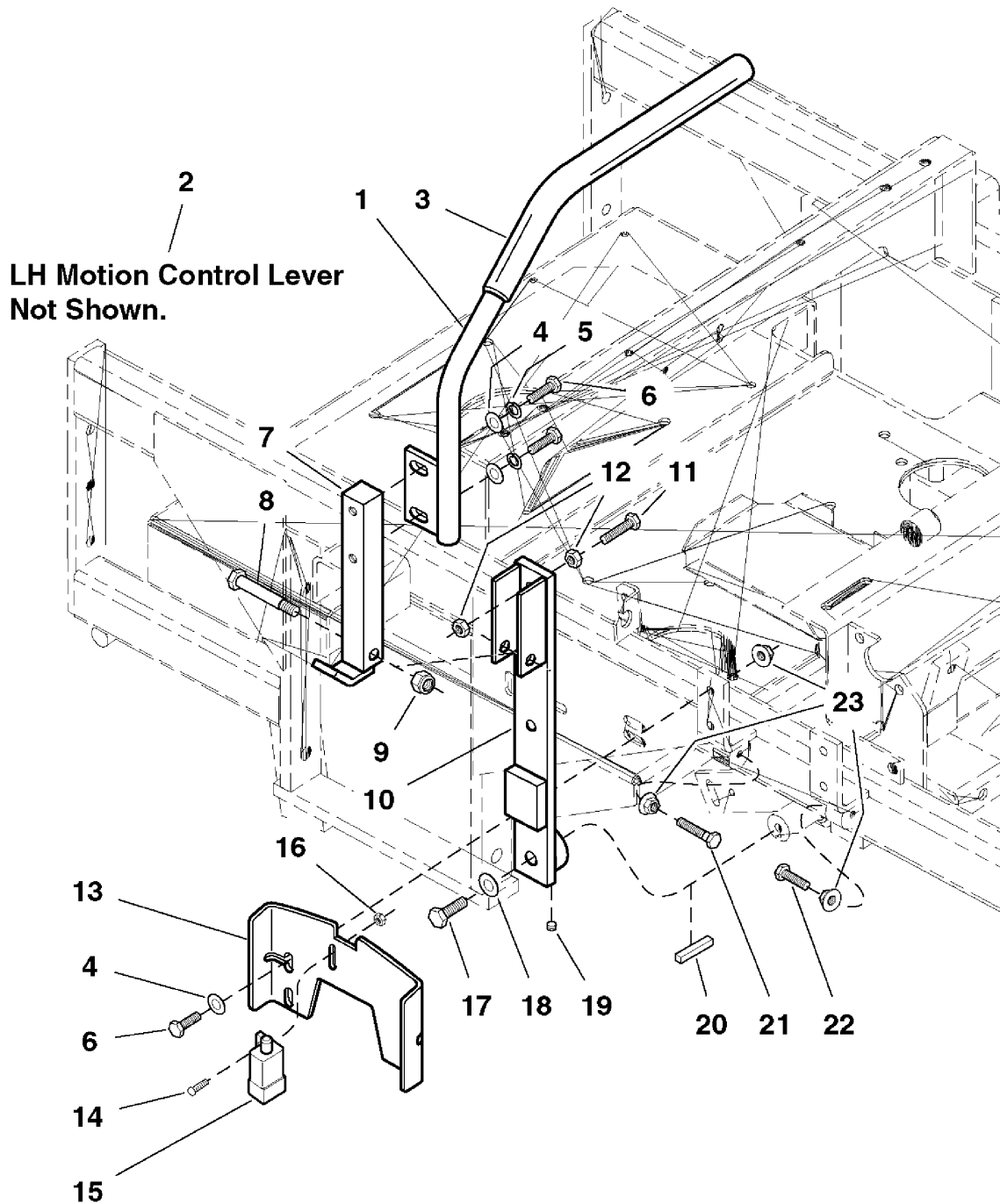
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Motion Control Group - Upper

005MCGU0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Motion Control Group - Upper

REF NO	PART NO.	QTY.	DESCRIPTION
1	5045913B	1	MOTION CONTROL LEVER-RH
2	5045912B	1	MOTION CONTROL LEVER-LH (Not Shown)
3	5022068	2	GRIP, Foam
4	5025155	12	WASHER, 5/16" SAE
5	5025170	4	WASHER, 5/16" Lock
6	5025011X6	12	BOLT, 5/16-18 x 3/4
7	5045901B	2	CONTROL LEVER BASE
8	5025013X16	2	BOLT, 3/8-16 x 2
9	5025096	2	NUT, 3/8-16 Hex Nylon Lock
10	5046409B	2	CONTROL LEVER MOUNT
11	5025011X8	2	BOLT, 5/16-18 x 1
12	5025032	4	NUT, 5/16-18 Hex
13	5045902B	2	NEUTRAL LOCK PLATE
14	5025270	4	SCREW, #10-24 x 1
15	5022095	2	SWITCH, Plunger, NO/NC
16	25029	4	NUT, #10-24 Hex
17	5025323	2	BOLT, 3/8-16 x 1-1/4 w/ patch
18	5025156	2	WASHER, 3/8" SAE
19	5025278X2	2	SET SCREW, 5/16-18 x 1/4 w/ patch
20	5050407X1	2	KEY, 1/4 SQ. X 1
21	5025011X14	2	BOLT, 5/16-18 x 1-3/4
22	5025011X10	2	BOLT, 5/16-18 x 1-1/4
23	5025127	12	NUT, 5/16-18 Hex Small Serrated Flange

Footnotes

The above parts group applies to the following Mfg. Nos.:

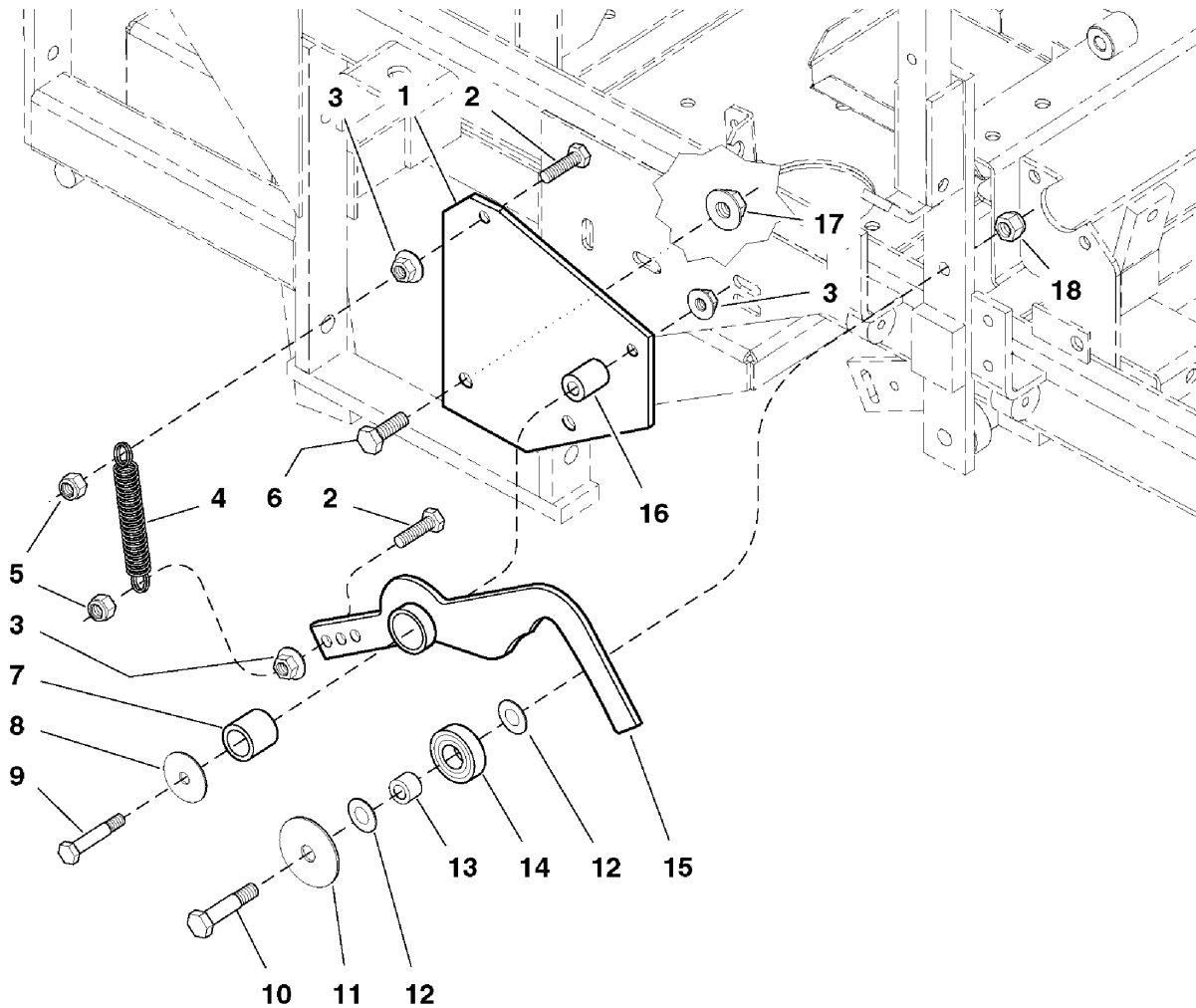
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Neutral Return Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005RTN0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Neutral Return Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5046411B	2	NEUTRAL RETURN MOUNT PLATE
2	5025055X10	4	BOLT, 5/16-18 x 1-1/4 TFL
3	5025139	6	NUT, 5/16-18 Hex Large Serrated Flange
4	5020807	2	SPRING, Extension
5	5025057	4	NUT, 5/16-18 Hex Nylon Lock
6	5025013X6	4	BOLT, 3/8-16 x 3/4
7	5020876B	2	BUSHING, Brass
8	5025164	2	WASHER, 5/16" Fender
9	5025011X14	2	BOLT, 5/16-18 x 1-3/4
10	5025013X14	2	BOLT, 3/8-16 x 1-3/4
11	5025326	2	WASHER, 3/8 x 2
12	5025156	4	WASHER, 3/8" SAE
13	5020880	2	INSERT, Bearing
14	5020827	2	BEARING
15	5046414B	2	NEUTRAL RETURN LEVER
16	5042134	2	SPACER, .32 x .75 x 1.06
17	5025128	4	NUT, 3/8-16 Hex Serrated Flange
18	5025096	2	NUT, 3/8-16 Hex Nylon Lock

Footnotes

The above parts group applies to the following Mfg. Nos.:

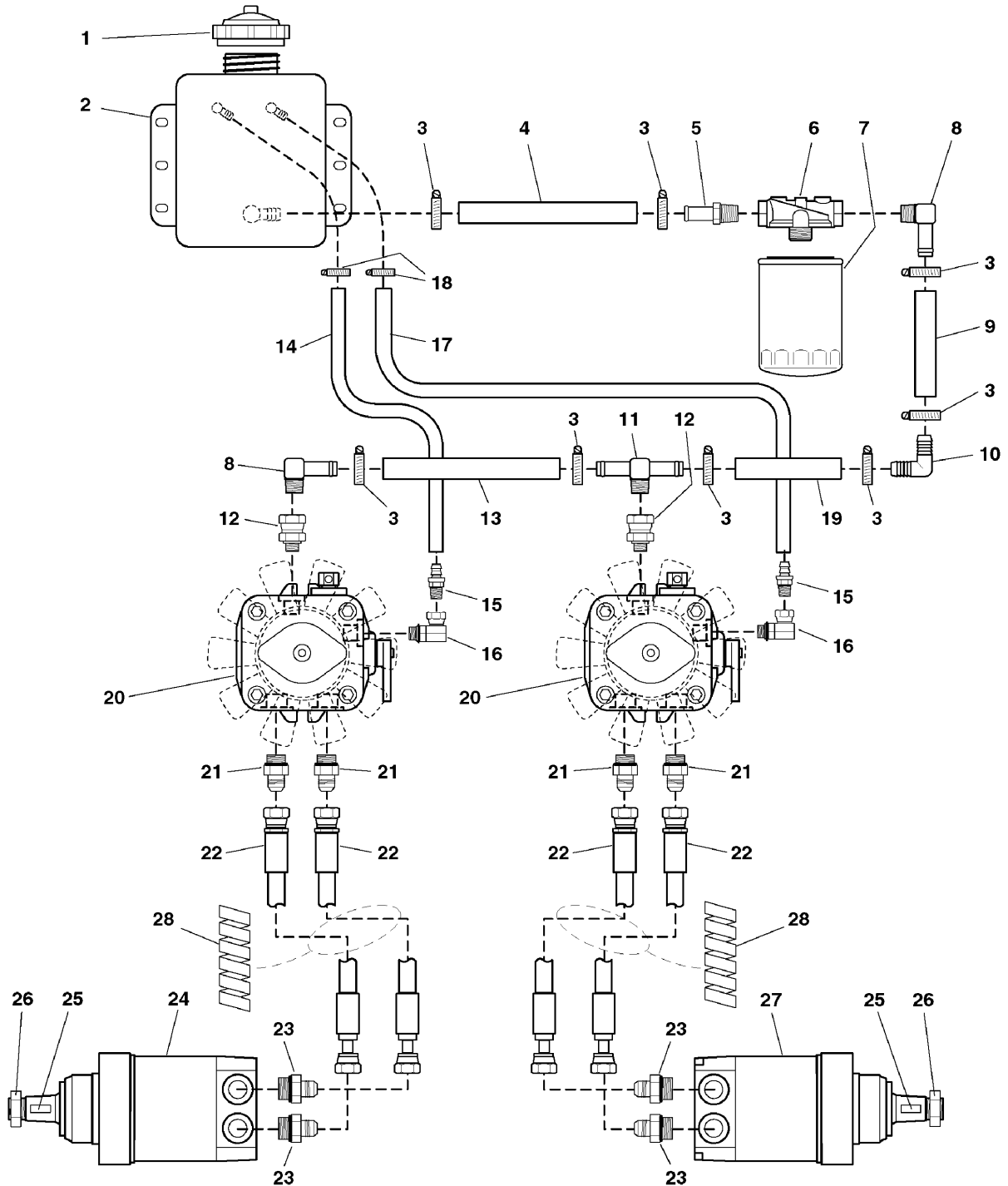
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Hydraulic Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

005HYD0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Hydraulic Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5021468	1	CAP, Fuel Tank
2	5022636	1	RESERVOIR
3	5021164	8	CLAMP, #10 Hose
4	5050848X11	1	HOSE, Hydraulic, 11"
5	5022635	1	FITTING, 1/2" NPT, Straight
6	5021356	1	FILTER HEAD
7	5021357	1	FILTER
8	5021233	2	FITTING, 1/2" NPT, 90 Deg.
9	5050848X3P5	1	HOSE, Hydraulic, 3-1/2"
10	5021395	1	FITTING, 5/8", 90 Deg.
11	5022364	1	FITTING, 1/2" NPT, Tee
12	5022365	2	FITTING, Straight Swivel
13	5050848X12	1	HOSE, Hydraulic, 12"
14	5050860X16	1	HOSE, Hydraulic, 16"
15	5022106	2	FITTING, 1/4" NPT, Straight
16	5022052	2	FITTING, O-Ring, 90 Deg. Swivel
17	5050860X24	1	HOSE, Hydraulic, 24"
18	5021392	2	CLAMP, #6 Hose
19	5050848X3	1	HOSE, Hydraulic, 3"
20	5022571	2	HYDRAULIC PUMP, 10CC, w/ FAN
20	5022571X1	2	HUB & FAN KIT
21	5022633	4	FITTING, O-Ring Adapter
22	5022887	4	HYDRAULIC HOSE ASSEMBLY
23	5022634	4	FITTING, O-Ring Adapter
24	5022660L	1	HYDRAULIC WHEEL MOTOR-LEFT, Complete (Includes Ref No. 25 & 26)
25	5022042X2	2	KEY
26	5022042X3	2	NUT & COTTER PIN
27	5022660R	1	HYDRAULIC WHEEL MOTOR-RIGHT, Complete (Includes Ref No. 25 & 26)
28	5050837X12	2	PROTECTIVE COIL, 12"

Footnotes

The above parts group applies to the following Mfg. Nos.:

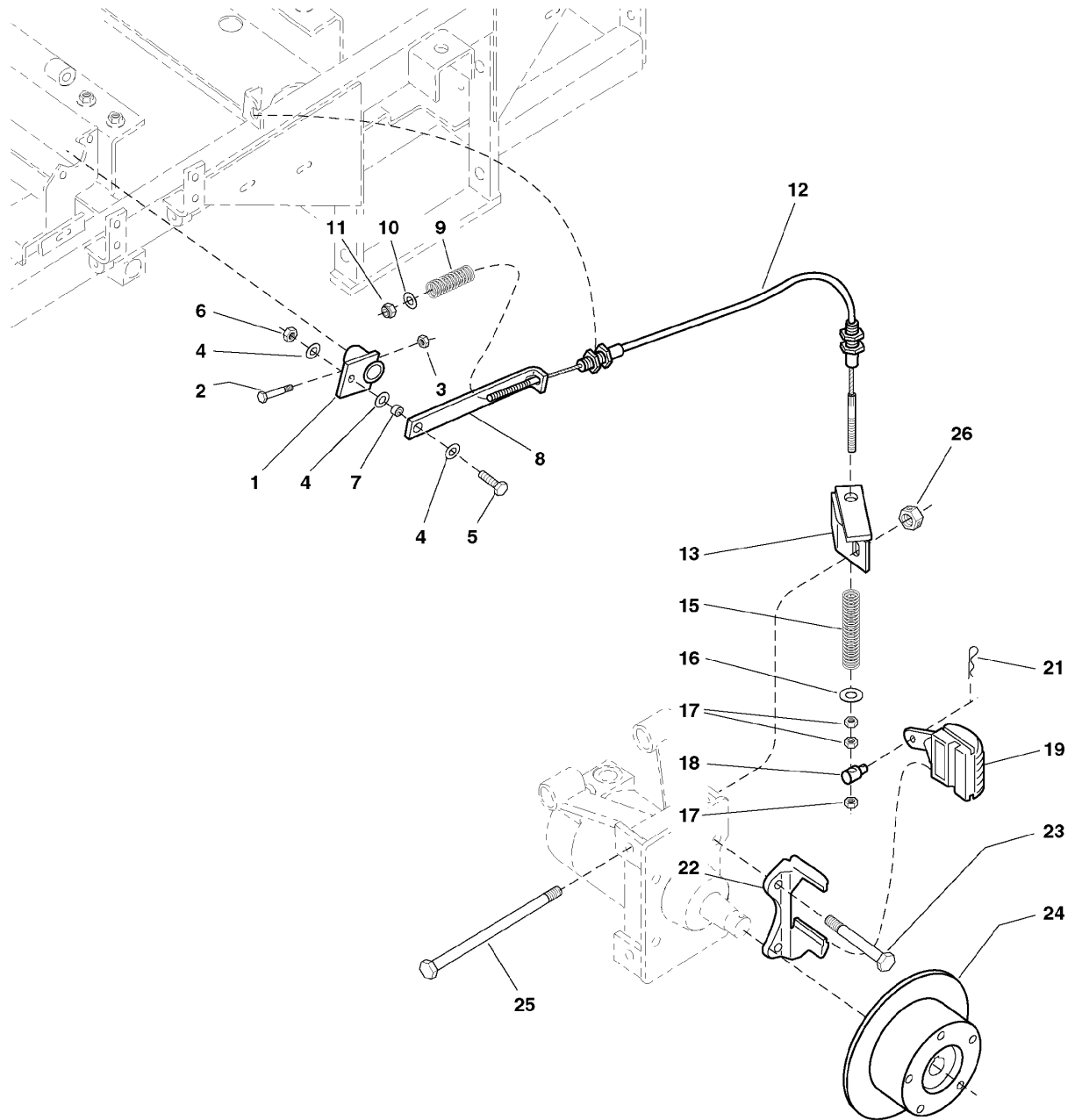
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Parking Brake Group - Lower

005PBRL0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Parking Brake Group - Lower

REF NO	PART NO.	QTY.	DESCRIPTION
1	5045618B	1	BRAKE LINKAGE PIVOT (LH only)
2	5025010X14	2	BOLT, 1/4-20 x 1-3/4
3	5025095	2	NUT, 1/4-20 Hex Nylon Lock
4	5025156	6	WASHER, 3/8" SAE
5	5025013X10	2	BOLT, 3/8-16 x 1-1/4
6	5025096	2	NUT, 3/8-16 Hex Nylon Lock
7	5041930	2	SPACER, .38 x .50 x .27
8	5045633B	2	LINK, Brake Lock
9	5022361	2	SPRING, Compression
10	5025155	2	WASHER, 5/16" SAE
11	5025045	2	NUT, 5/16-24, Hex Nylon Lock
12	5022209	2	CABLE, Brake
13	5045604B	1	BRACKET, Cable Mount-LH
14	5045605B	1	BRACKET, Cable Mount-RH (Not Shown)
15	5021494	2	SPRING, Compression
16	5025164	2	WASHER, 5/16" Fender
17	5025033	6	NUT, 5/16-24 Hex
18	5045947	2	ADJUSTER, Brake Linkage
19	5022342	1	BRAKE CALIPER, LH
20	5022341	1	BRAKE CALIPER, RH (Not Shown)
21	5025211	2	HAIRPIN CLIP
22	5022340	2	MOUNT, Brake Caliper
23	5025018X24	4	BOLT, 1/2-20 x 3
24	5022339	2	HUB, 8" Brake Disc
25	5025017X52	2	BOLT, 1/2-13 x 6-1/2
26	5025332	2	NUT, 1/2-13 Hex Side Lock

Footnotes

The above parts group applies to the following Mfg. Nos.:

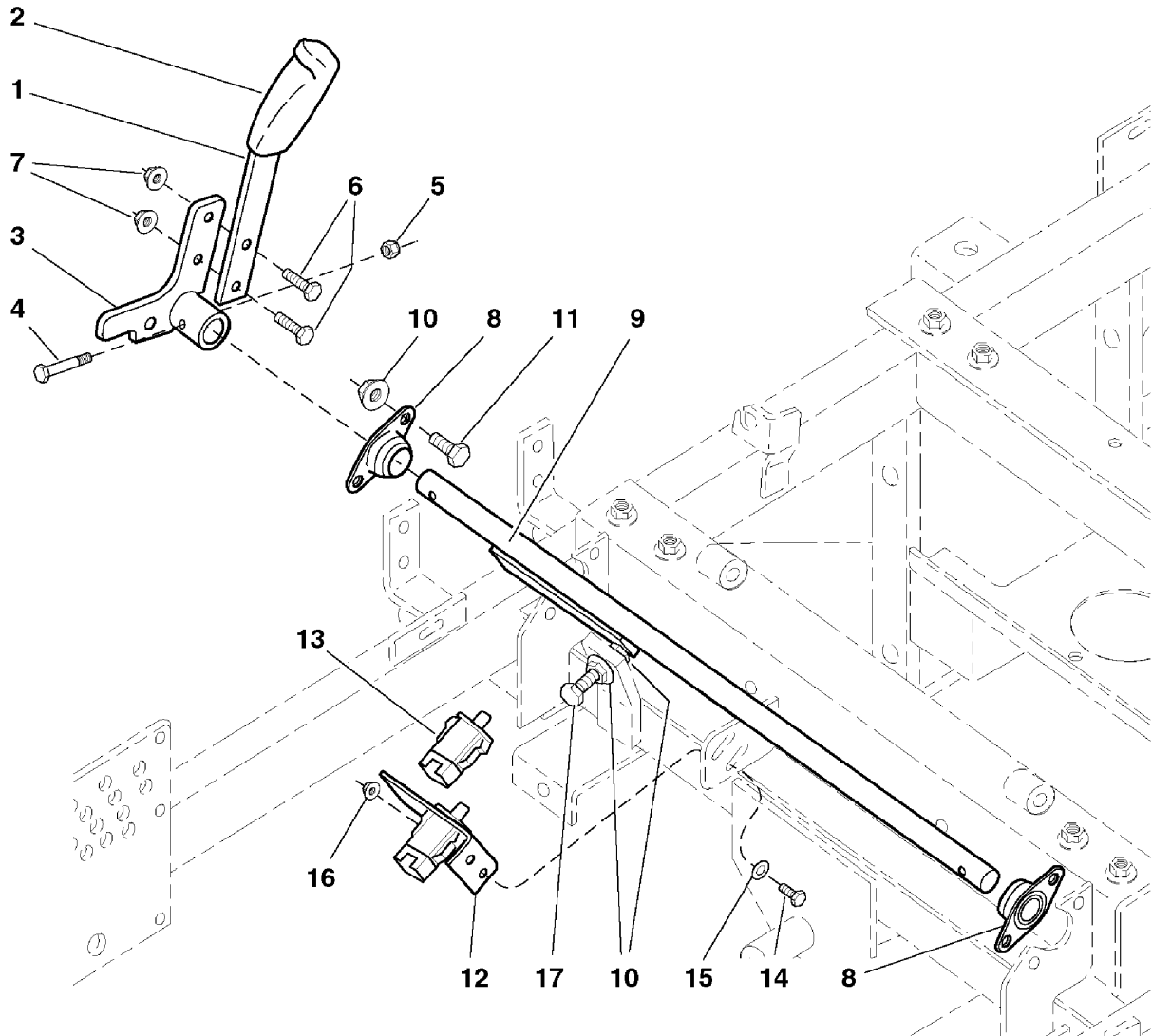
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Parking Brake Group - Upper

005PBRU0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Parking Brake Group - Upper

REF NO	PART NO.	QTY.	DESCRIPTION
1	5045619B	1	BRAKE HANDLE
2	1722302	1	GRIP
3	5045616B	1	BRAKE HANDLE MOUNT
4	5025010X14	1	BOLT, 1/4-20 x 1-3/4
5	5025095	1	NUT, 1/4-20 Hex Nylon Lock
6	5025011X8	2	BOLT, 5/16-18 x 1
7	5025127	2	NUT, 5/16-18 Hex Small Serrated Flange
8	5021098	2	BEARING, Flange
9	5045610B	1	BRAKE HANDLE SHAFT
10	5025128	6	NUT, 3/8-16 Hex Serrated Flange
11	5025013X6	4	BOLT, 3/8-16 x 3/4
12	5045621B	1	SWITCH MOUNT BRACKET
13	5022182	2	SWITCH, Plunger, Snap-In, NO/NC
14	5025010X6	2	BOLT, 1/4-20 x 3/4
15	5025154	2	WASHER, 1/4" SAE
16	5025126	2	NUT, 1/4-20 Hex Serrated Flange
17	5025058X14	1	BOLT, 3/8-16 x 1-3/4 TFL

Footnotes

The above parts group applies to the following Mfg. Nos.:

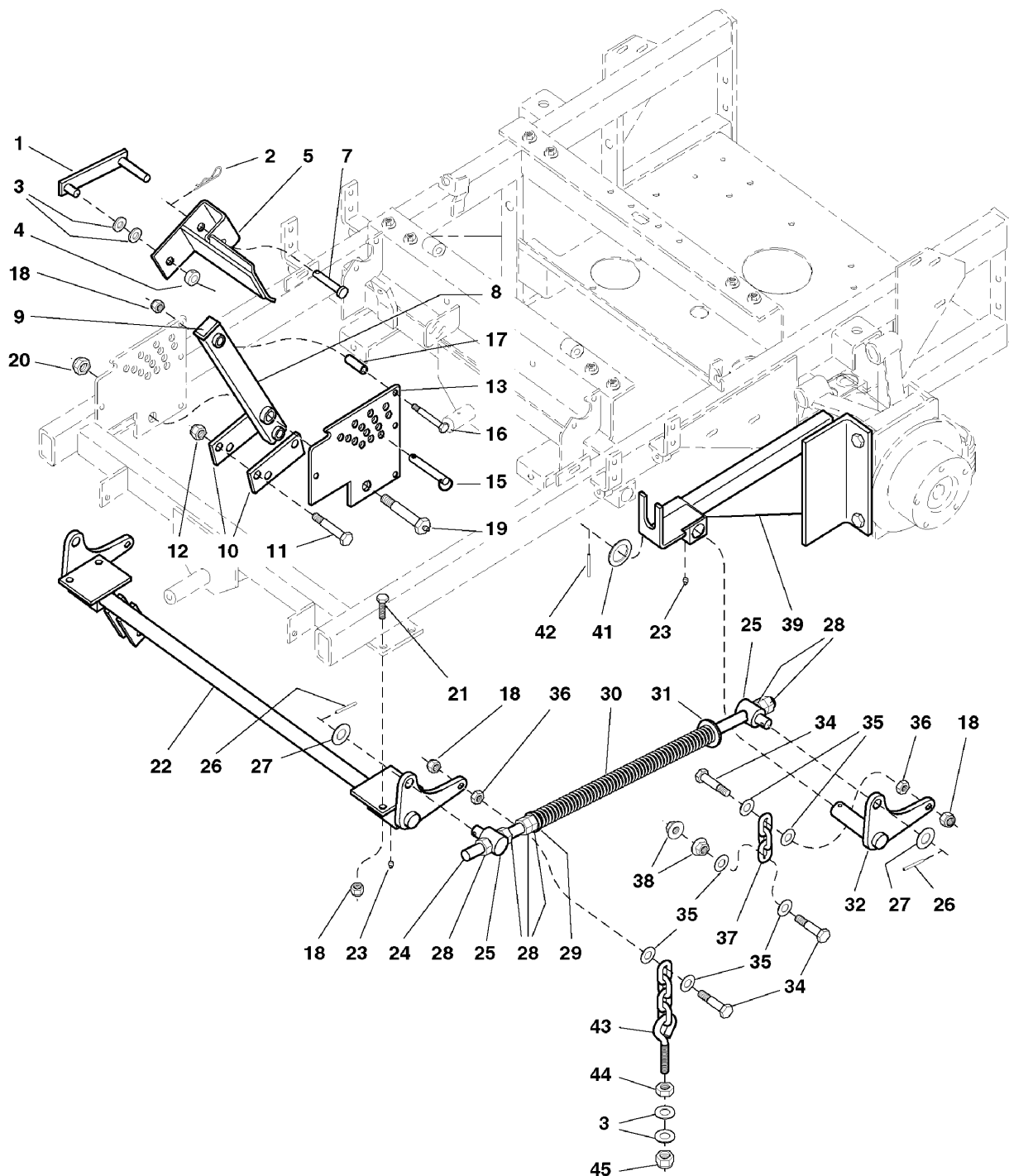
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Deck Lift Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005DLT0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Deck Lift Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5044999B	1	DECK LIFT LOCK
2	5025210	1	HAIRPIN CLIP
3	5025158	6	WASHER, 1/2" SAE
4	5010580	1	COLLAR, 1/2" Set
5	5045058B	1	DECK LIFT PEDAL
6	5044875	1	PEDAL SAFETY WALK (Not Shown)
7	5022044	1	PIN, Clevis, 1/2 x 2-1/2
8	5044987B	1	ARM, Deck Lift Pivot
9	5022097	1	CAP
10	5044994B	2	DECK LIFT LINK
11	5025018X24	2	BOLT, 1/2-20 x 3
12	5025098	2	NUT, 1/2-20 Hex Nylon Lock
13	5045379B	1	DECK HEIGHT PLATE
14	5022063	1	DECAL, Deck Height (Not Shown)
15	5022045	1	PIN, 1/2 x 3
16	5025013X22	4	BOLT, 3/8-16 x 2-3/4
17	5044992	4	SPACER, .38 x .50 x 1.56
18	5025096	8	NUT, 3/8-16 Hex Nylon Lock
19	5044993	1	LIFT PIVOT BOLT
20	5025282	1	NUT, 5/8-11 Hex Jam Nylon Lock
21	5025013X10	4	BOLT, 3/8-16 x 1-1/4
22	5045451B	1	DECK LIFT SHAFT & MOUNT ASSEMBLY
23	5020095	4	GREASE FITTING
24	5045446	2	SPRING ROD
25	5045447	4	SPRING ROD PIVOT
26	5022366	4	PIN, Spring, 3/16 x 1-1/4
27	5025281	4	WASHER, 5/8" SAE
28	5025040	12	NUT, 5/8-11 Hex
29	5041477	2	SPACER, .63 x 1.06 x .23
30	5022333	2	SPRING, Deck Lift
31	5025159	2	WASHER, 5/8" USS
32	5045449B	1	DECK LIFT PIVOT - LH
33	5045450B	1	DECK LIFT PIVOT - RH (Not Shown)
34	5025013X14	8	BOLT, 3/8-16 x 1-3/4
35	5025156	16	WASHER, 3/8" SAE
36	5025084	4	NUT, 3/8-16 Hex Jam
37	5050878X3	2	CHAIN, 3 LINKS
38	5025128	8	NUT, 3/8-16 Hex Serrated Flange
39	5045216B	1	REAR DECK LIFT FRAME - LH
40	5045217B	1	REAR DECK LIFT FRAME - RH (Not Shown)
41	5021253	2	SHIM

Footnotes

The above parts group applies to the following Mfg. Nos.:

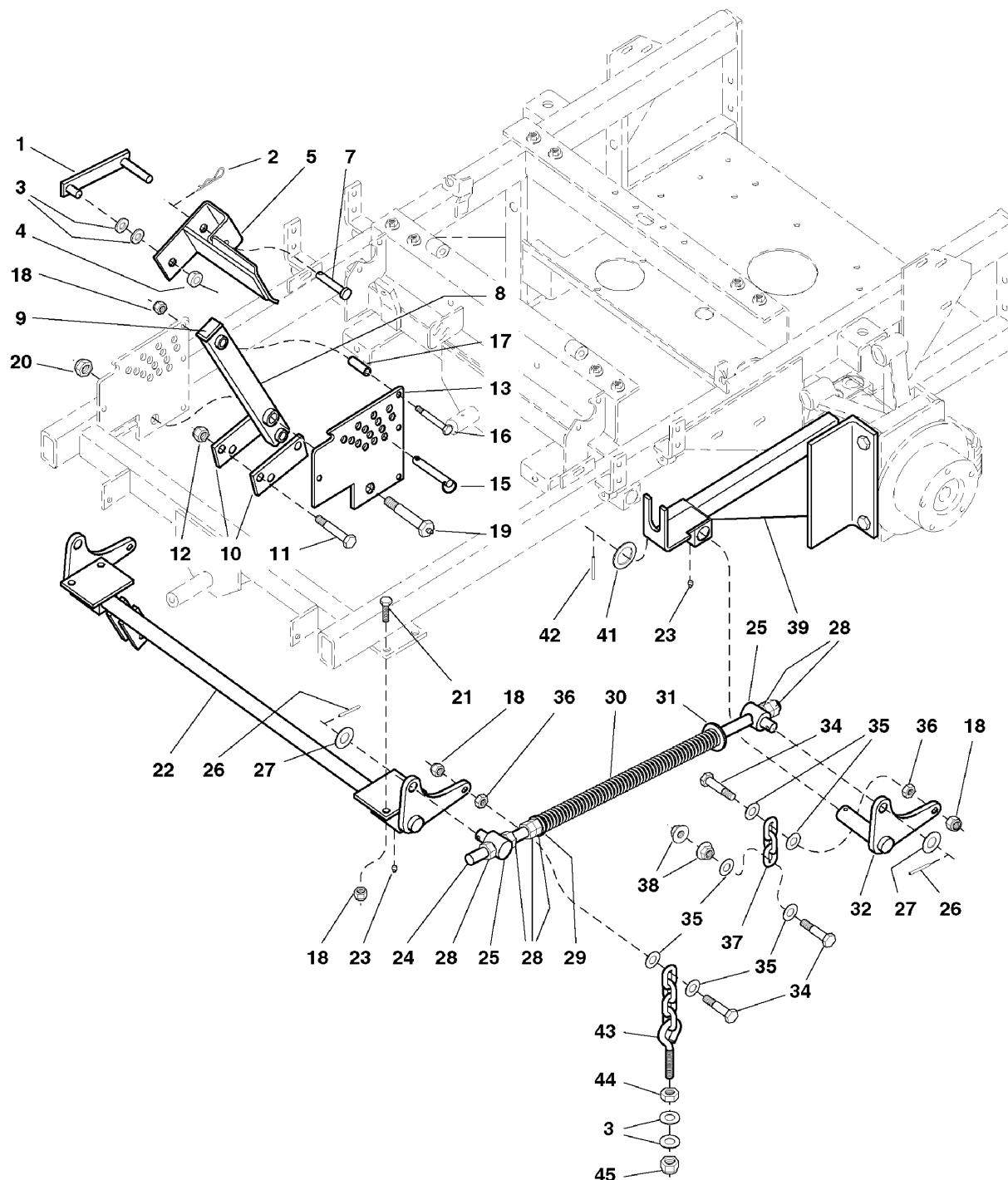
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Deck Lift Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005DLT0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Deck Lift Group

REF NO	PART NO.	QTY.	DESCRIPTION
42	5025516	2	PIN, Roll, 3/16 x 1-1/2
43	5045026	2	FRONT DECK HANGER
44	5025038	2	NUT, 1/2-13 Hex
45	5025056	2	NUT, 1/2-13 Hex Nylon Lock

Footnotes

The above parts group applies to the following Mfg. Nos.:

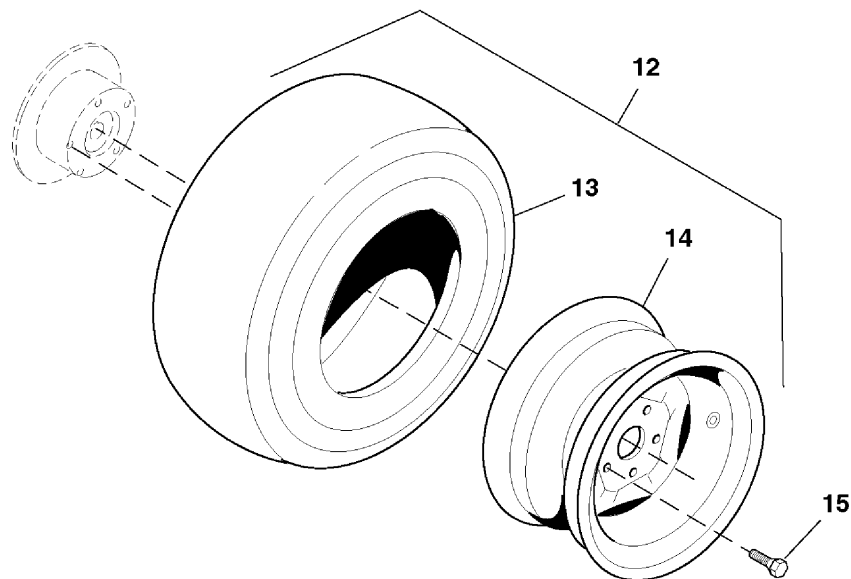
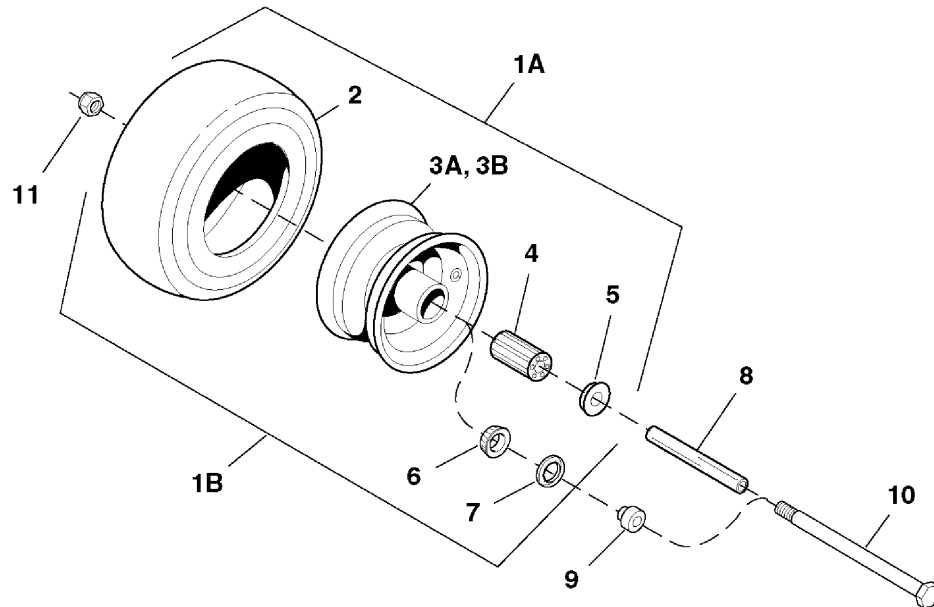
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Wheels & Tires Group

005WHL0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Wheels & Tires Group

REF NO	PART NO.	QTY.	DESCRIPTION
1A	5022029S	2	WHEEL & TIRE ASSEMBLY, 13 x 5.0 x 6, Complete (Includes Ref No. 2, 3A, 4 & 5, S/N: 101-250)
1B	5022631S	2	WHEEL & TIRE ASSEMBLY, 13 x 5.0 x 6, Complete (Includes Ref No. 2, 3B, 6 & 7, S/N: 251 & above)
2	5022029X1	2	TIRE, Front, 13 x 5.0 x 6
3A	22029S-2	2	WHEEL ASSEMBLY, for 13 x 5.0 x 6 Tires, Complete (Includes Ref No. 4 & 5, S/N: 101-250)
3B	5022631SX1	2	WHEEL ASSEMBLY, for 13 x 5.0 x 6 Tire, Complete (Includes Ref No. 6 & 7, S/N: 251 & above)
4	5021042	4	BEARING, Roller (2 per tire)
5	5021043	4	RETAINER, Bearing (2 per tire)
6	5022631SX2	4	BEARING, Taper Roller (2 per tire)
7	5022631SX3	4	GREASE SEAL (2 per tire)
8	5022100	2	SHAFT, Caster Axle (S/N: 101 - 1219)
9	5047103	4	ADAPTER, Caster Wheel (2 per tire, S/N: 251 & above)
10	5025017X60	2	BOLT, 1/2-13 x 7-1/2
11	5025056	2	NUT, 1/2-13 Hex Nylon Lock
12	5022396S	2	WHEEL & TIRE ASSEMBLY, 23 x 10.5 x 12, Complete (Includes Ref No. 10 & 11)
13	5022396X1	2	TIRE, Rear, 23 x 10.5 x 12
14	5022396SX2	2	WHEEL ASSEMBLY, for 23 x 10.5 x 12 Tires
15	5022215	10	WHEEL LUG, 1/2 x 1-5/8

Footnotes

The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Decal Group - Brand & Model

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

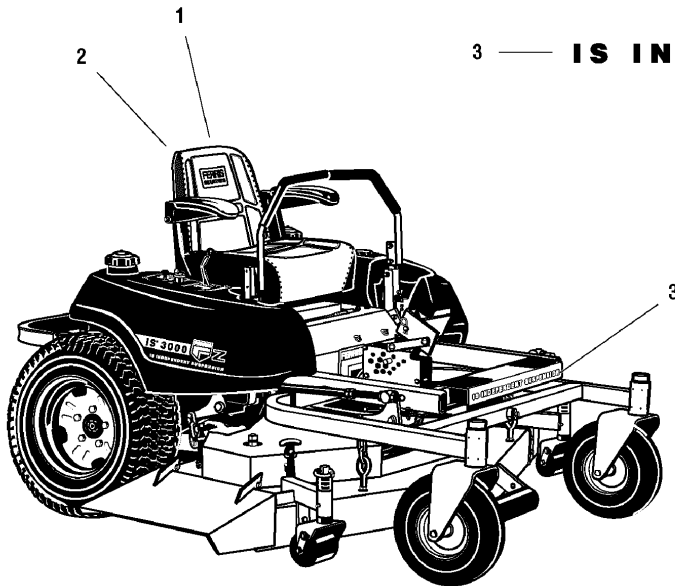
005DCLB



1 —————

2 ——— **First with Independent Suspension**

3 — **IS INDEPENDENT SUSPENSION**



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Decal Group - Brand & Model

REF NO	PART NO.	QTY.	DESCRIPTION
1	5022227	1	DECAL, Ferris Logo, 6-3/8" (Located on back of seat)
2	5022239	1	DECAL, First w/ Independent Suspension (Located on back of seat)
3	5022555	1	DECAL, IS Independent Suspension

Footnotes

The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Decal Group - Safety & Operation

REF NO	PART NO.	QTY.	DESCRIPTION
1	5046469	1	DECAL, Control Panel-RH
2	5046468	1	DECAL, Control Panel-LH
3	5046387	1	DECAL, Safety/Instruction
4	1704276	1	DECAL, Danger (Hand Under Deck)
5	1704277	1	DECAL, Danger (Chute In Place)
6	5045562	1	DECAL, Hydro Release Valve (located to the left of the seat)
7	5046481	1	DECAL, Caution Fan (located under the seat)
8	5021036	2	DECAL, Grease Daily
9	5045911	1	DECAL, Max. Oil Level (located on the hydraulic oil reservoir)
10	5045923	1	DECAL, Oil Reservoir (located under seat)
11	5022143	2	DECAL, Danger, Rotating (located on the lower frame rail, behind drive tire)
12	5046503	1	DECAL, Fuse Location (located above fuse block)
13	5020337	1	DECAL, Warning (on top of mower deck)
14	5045559	1	DECAL, Operation
15	5022063	1	DECAL, Deck Height

Footnotes

The above parts group applies to the following Mfg. Nos.:

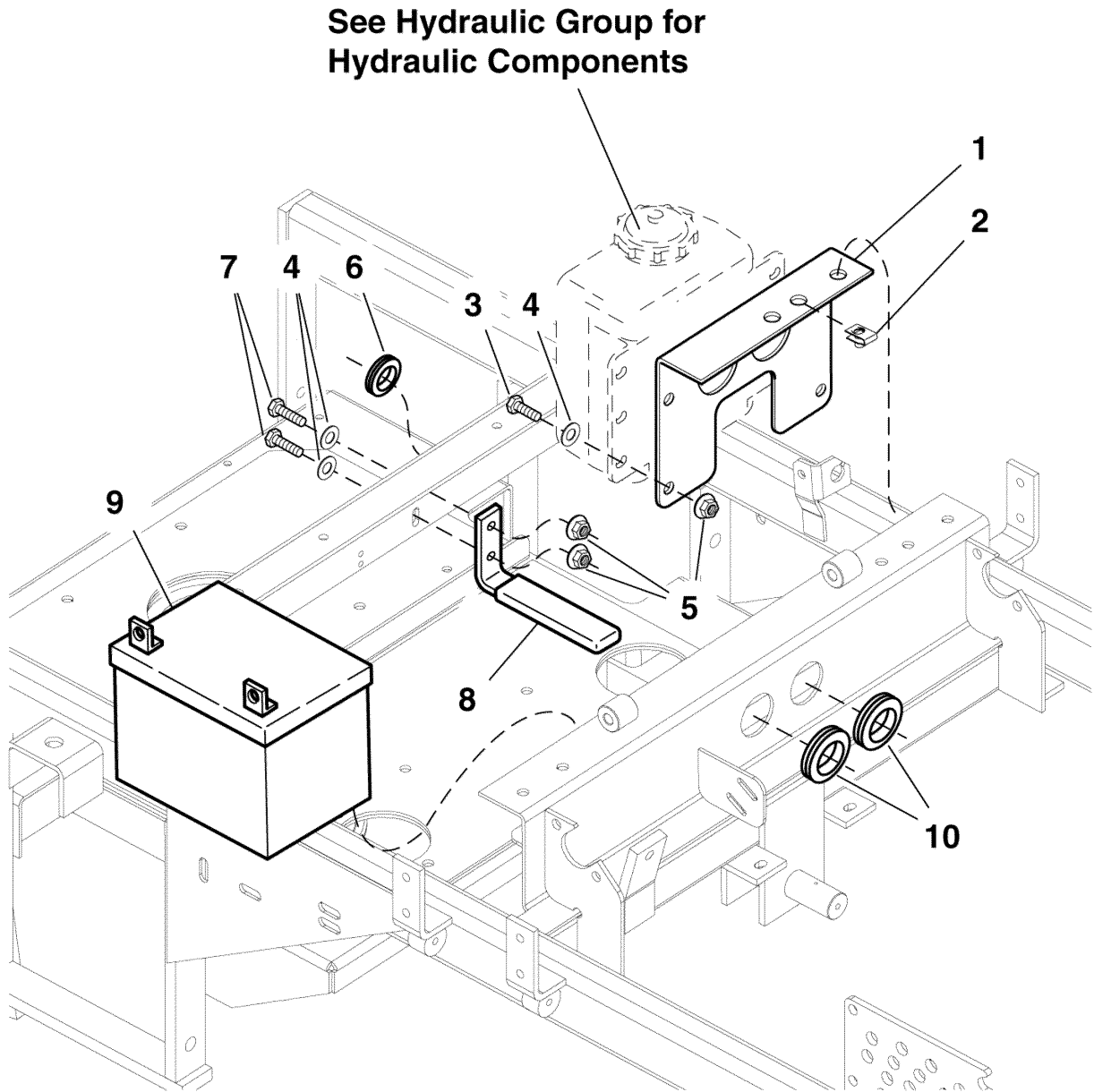
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Hydro Tank Mount Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005HYT0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Hydro Tank Mount Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5046397B	1	MOUNT, Reservoir
2	5022649	3	BODY CLIP, 3/8-16
3	5025011X6	4	BOLT, 5/16-18 x 3/4
4	5025155	6	WASHER, 5/16" SAE
5	5025127	6	NUT, 5/16-18 Hex Small Serrated Flange
6	5021379	1	GROMMET, 7/8"
7	5025011X8	2	BOLT, 5/16-18 x 1
8	5401409	1	ASSM, Battery retainer
9	-	1	BATTERY, Lawn & Garden, 12V (BCIU1, 340 CCA)
10	5021397	2	GROMMET, 1-1/4"

Footnotes

The above parts group applies to the following Mfg. Nos.:

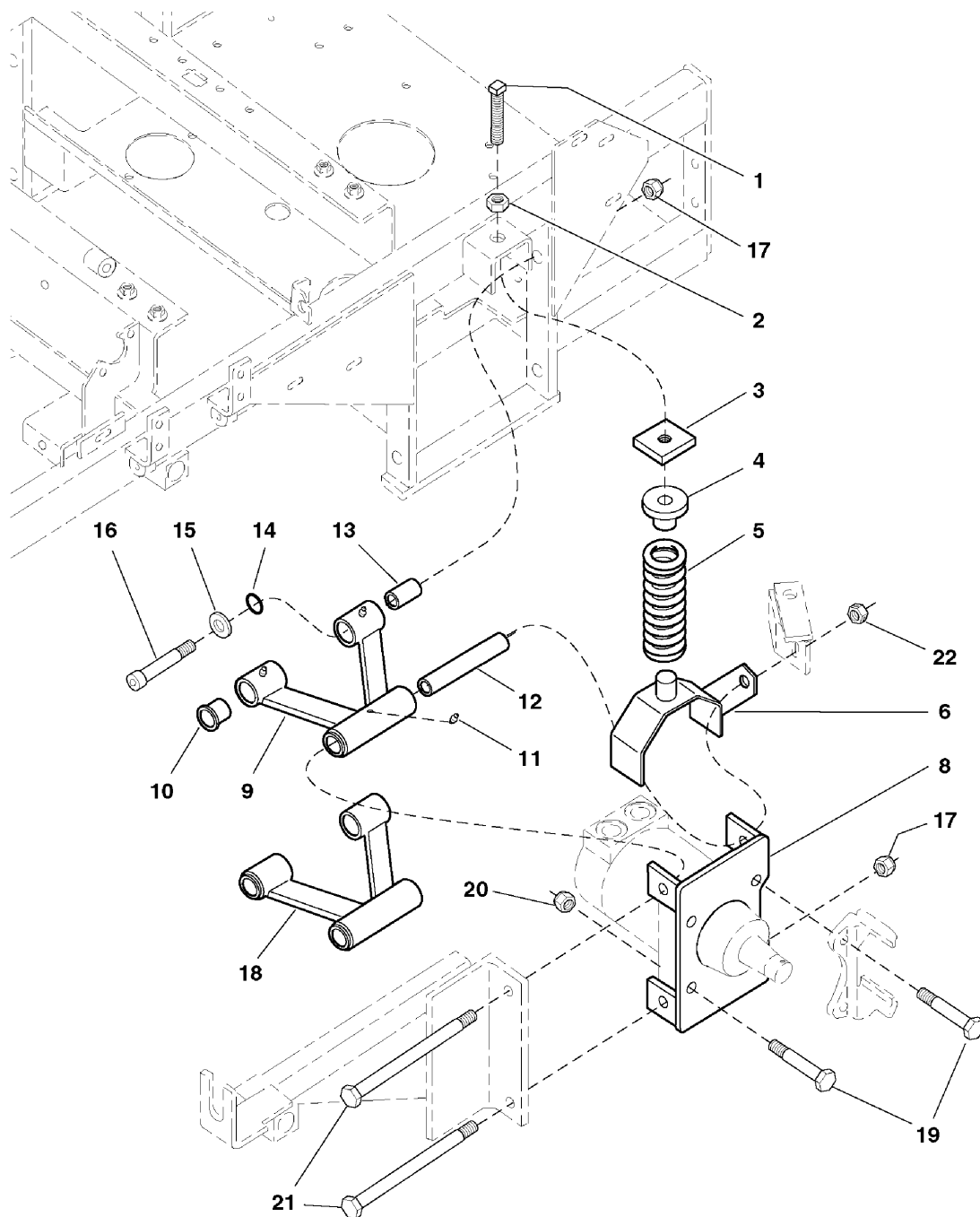
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Suspension Group

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

005SUS0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Suspension Group

REF NO	PART NO.	QTY.	DESCRIPTION
1	5025298	2	SETSCREW, Square Head, 1/2-13 x 3
2	5025301	2	NUT, 1/2-13 Hex Jam
3	5045904	2	SPRING COMPRESSION PLATE
4	5045898	2	SPRING RETAINER
5	5021747	2	SPRING, Compression
6	5045601B	1	SPRING SADDLE-LH
7	5045602B	1	SPRING SADDLE-RH (Not Shown)
8	5045588B	2	WHEEL MOTOR MOUNT
9	5045304B	2	SUSPENSION A-ARM, Upper
10	5022250	16	BUSHING, Flange
11	5020095	12	GREASE FITTING
12	5045305	4	PIVOT SLEEVE, Long
13	5045306	8	PIVOT SLEEVE, Short
14	5022269	8	O-RING
15	5045307	8	WASHER, A-Arm
16	5025294	8	BOLT, Allen Head, 1/2-13 x 3
17	5025056	10	NUT, 1/2-13 Hex Nylon Lock
18	5045308B	2	SUSPENSION A-ARM, Lower
19	5025018X24	8	BOLT, 1/2-20 x 3
20	5025098	8	NUT, 1/2-20 Hex Nylon Lock
21	5025017X52	4	BOLT, 1/2-13 x 6-1/2
22	5025332	2	NUT, 1/2-13 Hex Side Lock

Footnotes

The above parts group applies to the following Mfg. Nos.:

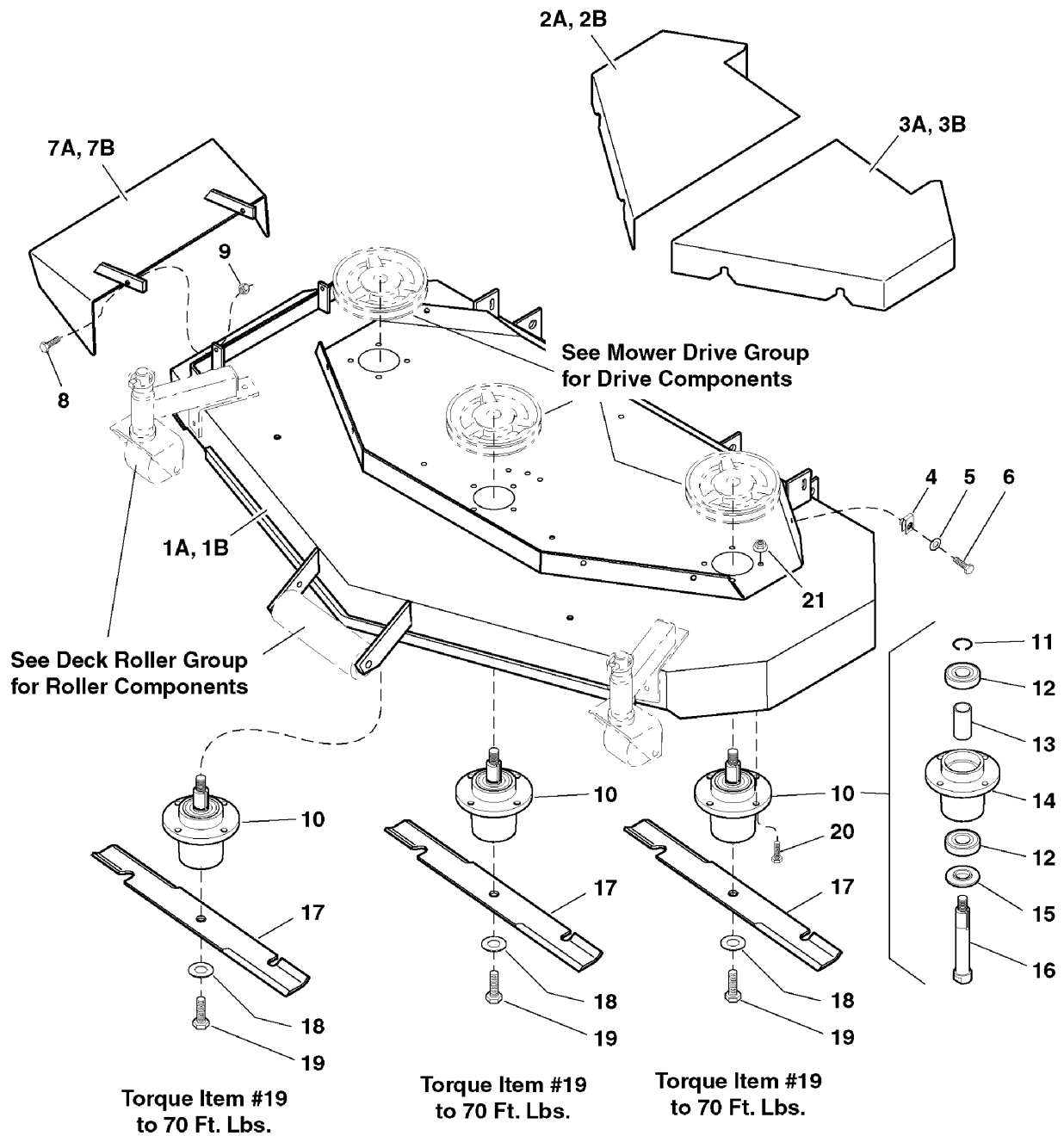
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Housing, Covers, Spindles & Blades

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

0056HC0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Housing, Covers, Spindles & Blades

REF NO	PART NO.	QTY.	DESCRIPTION
1A	5046437B	1	61" MOWER HOUSING (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
1B	5646953	1	61" MOWER HOUSING ASSEMBLY (Includes safety decals, 23HP model S/N: 426 & above / 25HP model S/N: 1526 & above)
2A	5046440B	1	SPINDLE COVER-RH (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
2B	5046997B	1	SPINDLE COVER-RH (23HP model, S/N: 426 & above / 25HP model, S/N: 1526 & above)
3A	5046441B	1	SPINDLE COVER-LH (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
3B	5046999B	1	SPINDLE COVER-LH (23HP model, S/N: 426 & above / 25HP model, S/N: 1526 & above)
4	5022308	6	BODY CLIP, 5/16-18
5	5025155	6	WASHER, 5/16" SAE
6	5025011X6	6	BOLT, 5/16-18 x 3/4
7A	5046445B	1	DISCHARGE CHUTE (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
7B	5046985B	1	DISCHARGE CHUTE (23HP model, S/N: 426 & above / 25HP model, S/N: 1526 & above)
8	5025011X8	2	BOLT, 5/16-18 x 1
9	5025057	2	NUT, 5/16-18 Hex Nylon Lock
10	5046363	3	SPINDLE ASSEMBLY, Complete (Includes Ref No. 11 - 16)
11	46363-6	3	USE 61095
12	5046363X5	6	USE 61095
13	5046363X4	3	USE 61095
14	5046363X1	3	USE 61095
15	5046363X3	3	USE 61095
16	5046363X2	3	USE 61095
17	5020842	3	MOWER BLADE, 21"
18	5025159	3	WASHER, 5/8" USS
19	5025320X14	3	BOLT, 5/8-11 x 1-3/4
20	5025011X9	12	BOLT, 5/16-18 x 1-1/8
21	5025139	12	NUT, 5/16-18 Hex Large Serrated Flange

Footnotes

The above parts group applies to the following Mfg. Nos.:

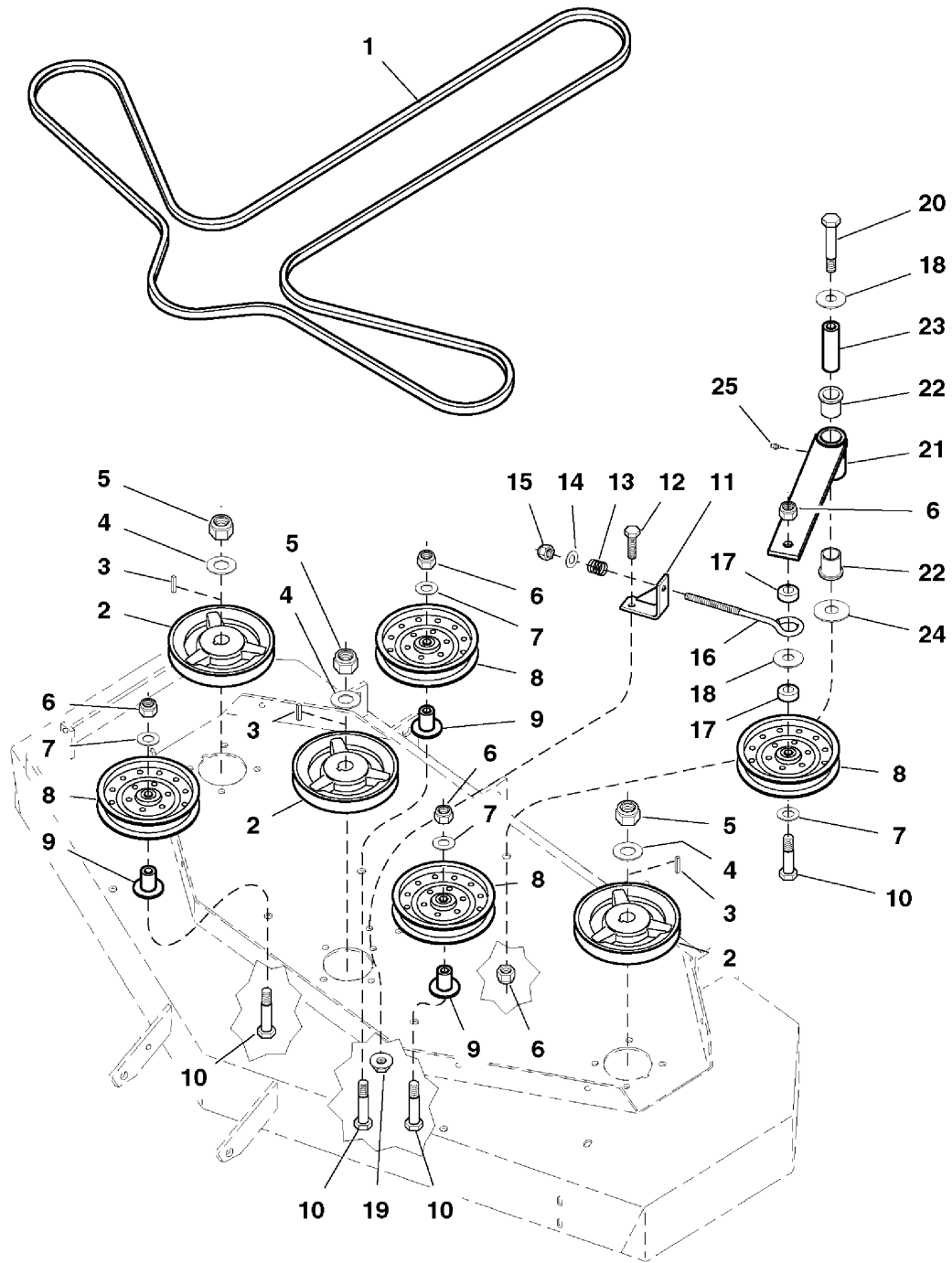
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Pulleys, Belt & Idler Arm (S/N: 101-250)

0056PB0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:
5901057 (IS3000ZKAV23/61)

61" Mower Deck - Pulleys, Belt & Idler Arm (S/N: 101-250)

REF NO	PART NO.	QTY.	DESCRIPTION
1	5022061	1	BELT, 61" Deck
2	5046466	3	SPINDLE PULLEY
3	5050407X5	3	KEY, 1/4 SQ. X 1-1/4
4	5025318	3	WASHER, Spring
5	5025319	3	NUT, 5/8-18 Hex Nylon Lock
6	5025056	5	NUT, 1/2-13 Hex Nylon Lock
7	5025158	4	WASHER, 1/2" SAE
8	5021976	4	PULLEY, Idler
9	5046434B	3	IDLER PULLEY MOUNT
10	5025017X24	4	BOLT, 1/2-13 x 3
11	5046432B	1	SPRING ANCHOR
12	5025013X8	1	BOLT, 3/8-16 x 1
13	5021680	1	SPRING, Compression
14	5025156	1	WASHER, 3/8" SAE
15	5025096	1	NUT, 3/8-16 Hex Nylon Lock
16	5021811	1	EYEBOLT, 3/8" x 8"
17	5045023	2	SPACER, .52 x 1.00 x .44
18	5025150	2	WASHER, 1/2" USS
19	5025128	1	NUT, 3/8-16 Hex Serrated Flange
20	5025017X36	1	BOLT, 1/2-13 x 4-1/2
21	5045019B	1	IDLER ARM
22	5021541	2	BUSHING, Flange
23	5045022	1	SPACER, .52 x 1.00 x 3.50
24	5025281	1	WASHER, 5/8" SAE
25	5020095	1	GREASE FITTING

Footnotes

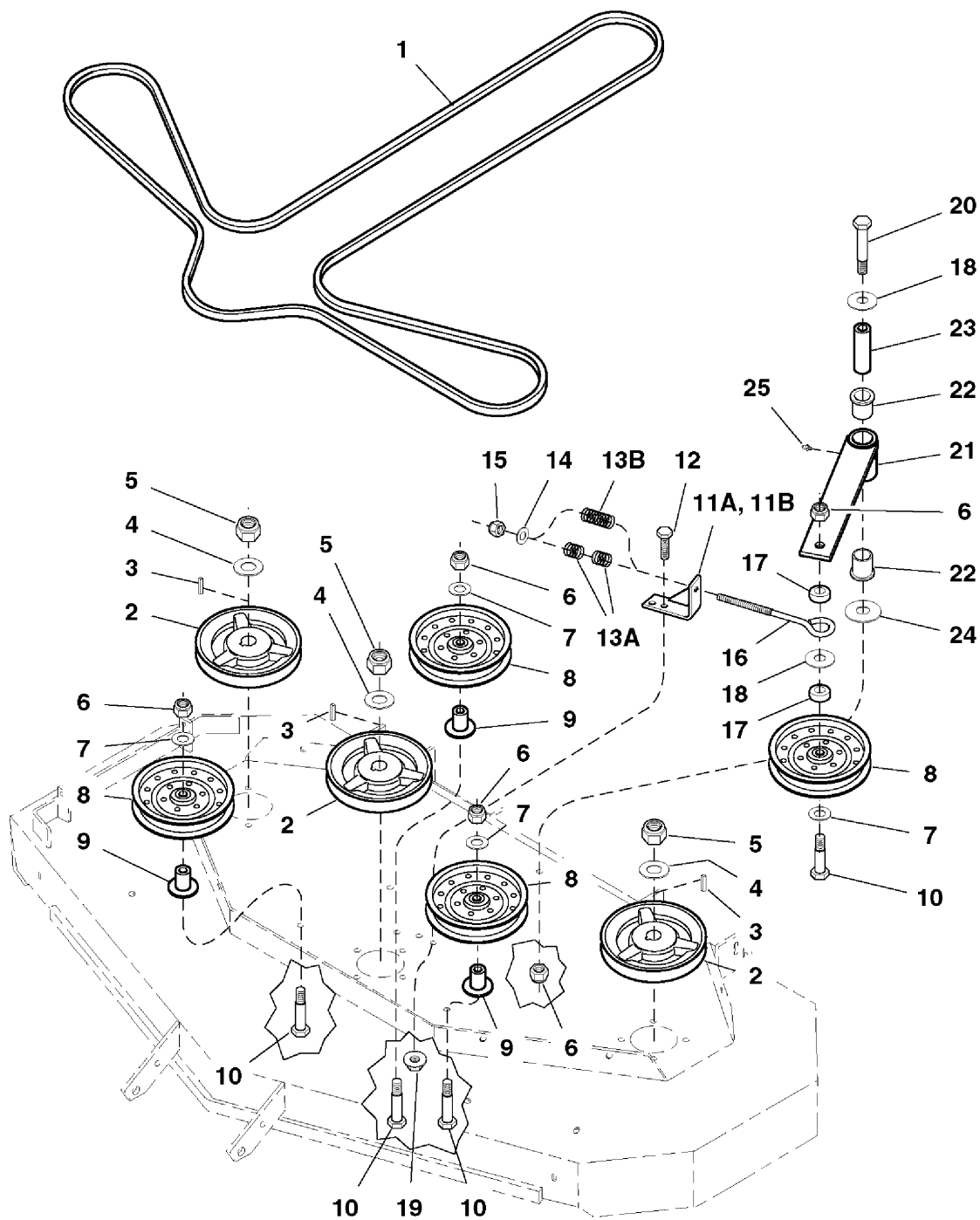
The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

61" Mower Deck - Pulleys, Belt & Idler Arm (S/N: 251 & above)

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

0056PB1



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Pulleys, Belt & Idler Arm (S/N: 251 & above)

REF NO	PART NO.	QTY.	DESCRIPTION
1	5022061	1	BELT, 61" Deck
2	5046466	3	SPINDLE PULLEY
3	5050407X5	3	KEY, 1/4 SQ. X 1-1/4
4	5025318	3	WASHER, Spring
5	5025319	3	NUT, 5/8-18 Hex Nylon Lock
6	5025056	5	NUT, 1/2-13 Hex Nylon Lock
7	5025158	4	WASHER, 1/2" SAE
8	5021976	4	PULLEY, Idler
9	5046434B	3	IDLER PULLEY MOUNT
10	5025017X24	4	BOLT, 1/2-13 x 3
11A	5046432B	1	SPRING ANCHOR (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
11B	5046950B	1	SPRING ANCHOR (23HP model, S/N: 426 & above / 25HP model, S/N: 1526 & above)
12	5025013X8	1	BOLT, 3/8-16 x 1
13A	5021680	2	SPRING, Compression (23HP model, S/N: 251-425 / 25HP model, S/N: 101-275)
13B	5022788	1	SPRING, Compression (23HP model, S/N 426 & above / 25HP model, S/N 276 & above)
14	5025156	1	WASHER, 3/8" SAE
15	5025096	1	NUT, 3/8-16 Hex Nylon Lock
16	5021811	1	EYEBOLT, 3/8" x 8"
17	5045023	2	SPACER, .52 x 1.00 x .44
18	5025150	2	WASHER, 1/2" USS
19	5025128	1	NUT, 3/8-16 Hex Serrated Flange
20	5025017X36	1	BOLT, 1/2-13 x 4-1/2
21	5045019B	1	IDLER ARM
22	5021541	2	BUSHING, Flange
23	5045022	1	SPACER, .52 x 1.00 x 3.50
24	5025281	1	WASHER, 5/8" SAE
25	5020095	1	GREASE FITTING

Footnotes

The above parts group applies to the following Mfg. Nos.:

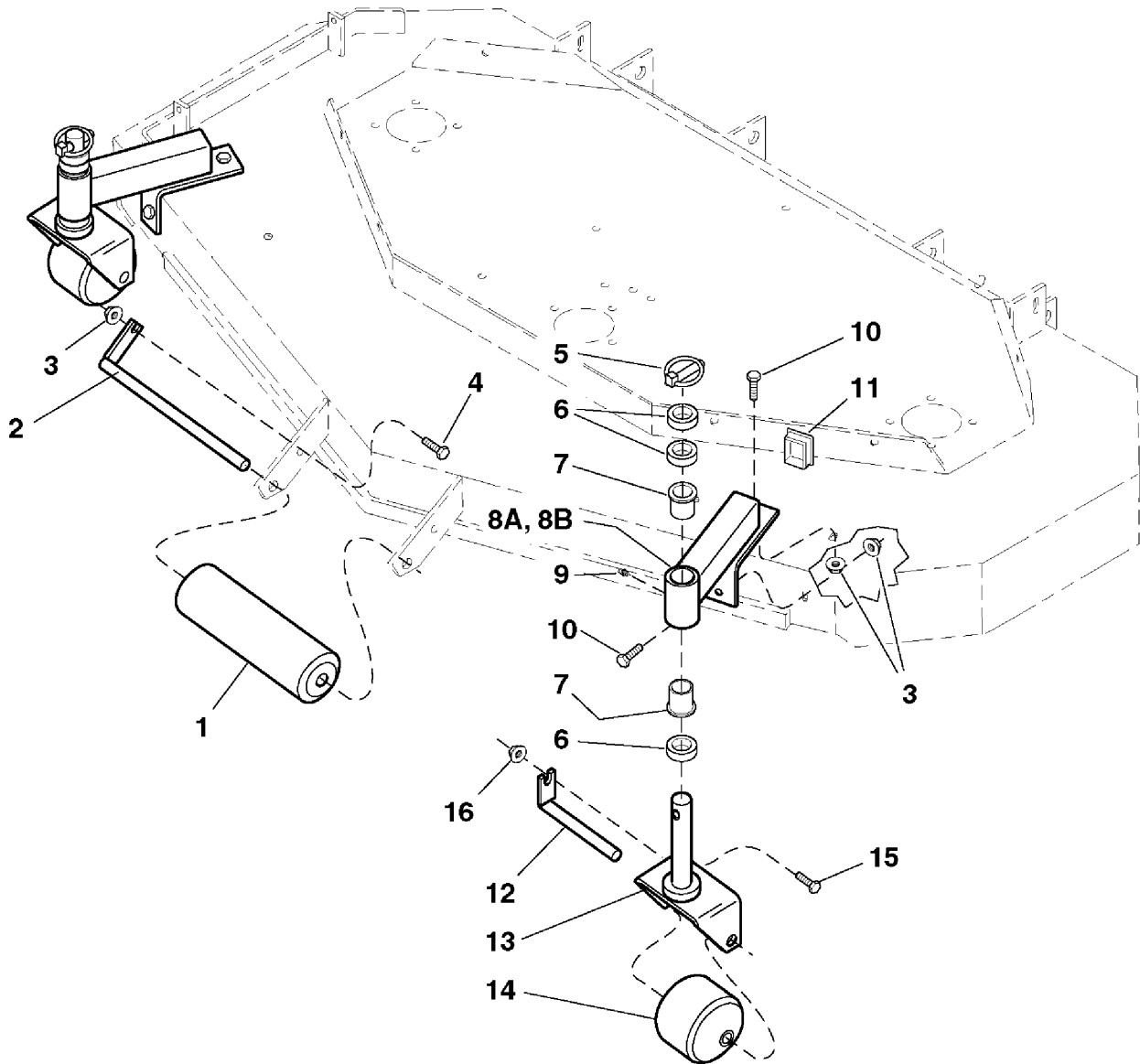
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Rollers

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.

0056RL0



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Rollers

REF NO	PART NO.	QTY.	DESCRIPTION
1	5020785	1	ROLLER
2	5041653	1	SPINDLE WASHER, Top
3	5025128	7	NUT, 3/8-16 Hex Serrated Flange (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
3	5025128	5	NUT, 3/8-16 Hex Serrated Flange (23HP model, S/N: 426 & above / 25HP model, S/N: 1526 & above)
4	5025013X8	1	BOLT, 3/8-16 x 1
5	5020655	2	PIN, Lynch
6	5041476	6	SPACER, 1.02 x 1.56 x .50
7	5021541	4	BUSHING, Flange
8A	5045185B	2	CASTER MOUNT ARM (23HP model, S/N: 101-425 / 25HP model, S/N: 101-1525)
8B	5046965B	2	CASTER MOUNT ARM (23HP model, S/N: 426 & above / 25HP model, S/N: 1526 & above)
9	5020095	2	GREASE FITTING
10	5025013X6	6	BOLT, 3/8-16 x 3/4
10	5025013X6	4	BOLT, 3/8-16 x 3/4
11	5022098	2	CAP, Plastic
12	5045034B	2	CASTER ROLLER PIN
13	5045188B	2	CASTER YOKE
14	5022060	2	ROLLER, Caster
15	5025011X6	2	BOLT, 5/16-18 x 3/4
16	5025127	2	NUT, 5/16-18 Hex Small Serrated Flange

Footnotes

The above parts group applies to the following Mfg. Nos.:

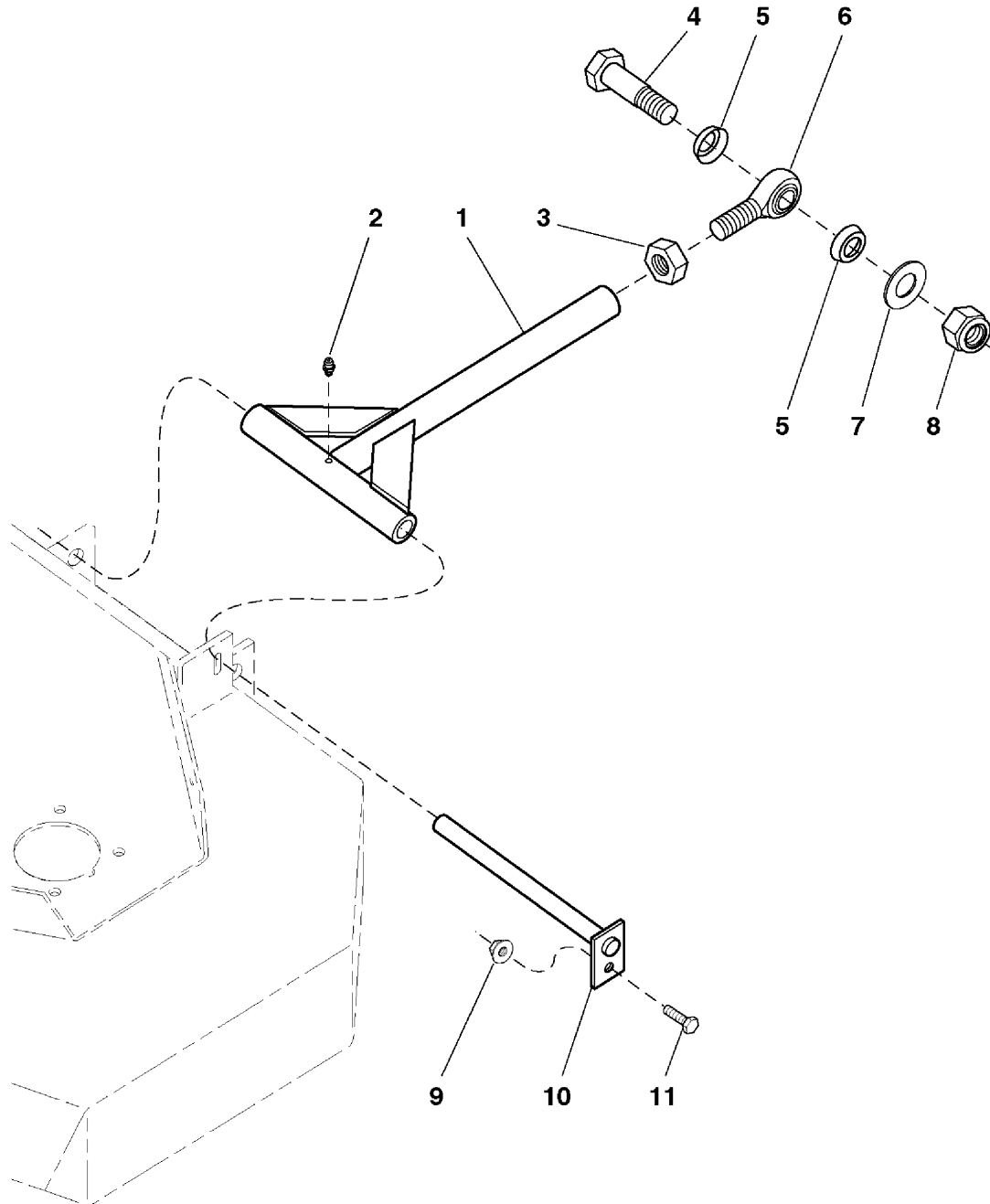
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Rear Mount Bars

0056RM0

NOTE: Unless noted otherwise,
use the standard hardware torque
specification chart.



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

61" Mower Deck - Rear Mount Bars

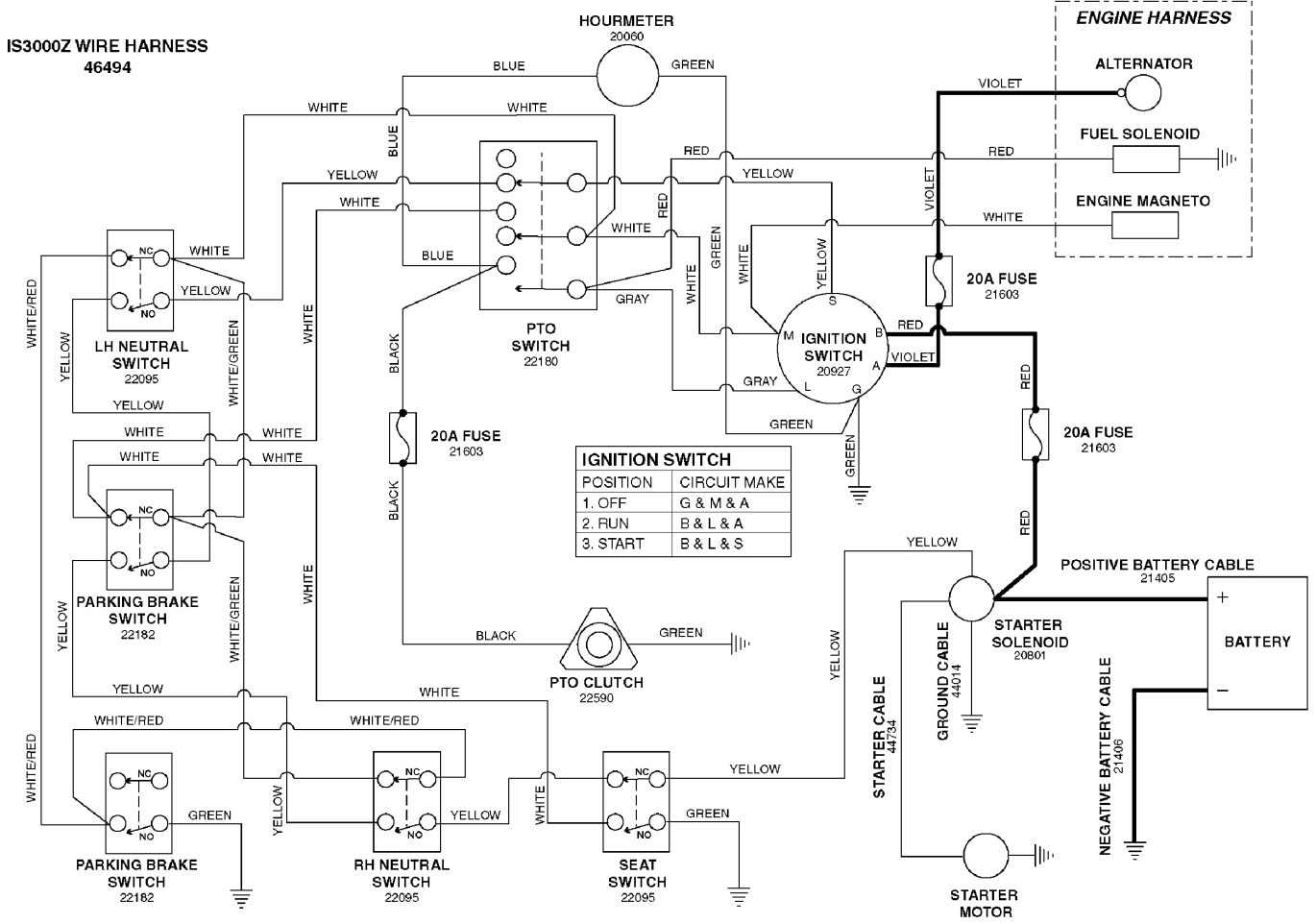
REF NO	PART NO.	QTY.	DESCRIPTION
1	5045009	2	DECK PUSHER BAR, Complete
2	5020095	2	GREASE FITTING
3	5025093	2	NUT, 3/4-16 Hex Jam
4	5025265X24	2	BOLT, 3/4-16 x 3
5	5022111	4	ROD END SEAL
6	5022039	2	BALL JOINT, 3/4-16 Male
7	5025160	2	WASHER, 3/4" SAE
8	5025284	2	NUT, 3/4-16 Hex Nylon Lock
9	5025139	2	NUT, 5/16-18 Hex Large Serrated Flange
10	5045037B	2	PUSHER BAR MOUNT PIN
11	5025011X8	2	BOLT, 5/16-18 x 1

Footnotes

The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

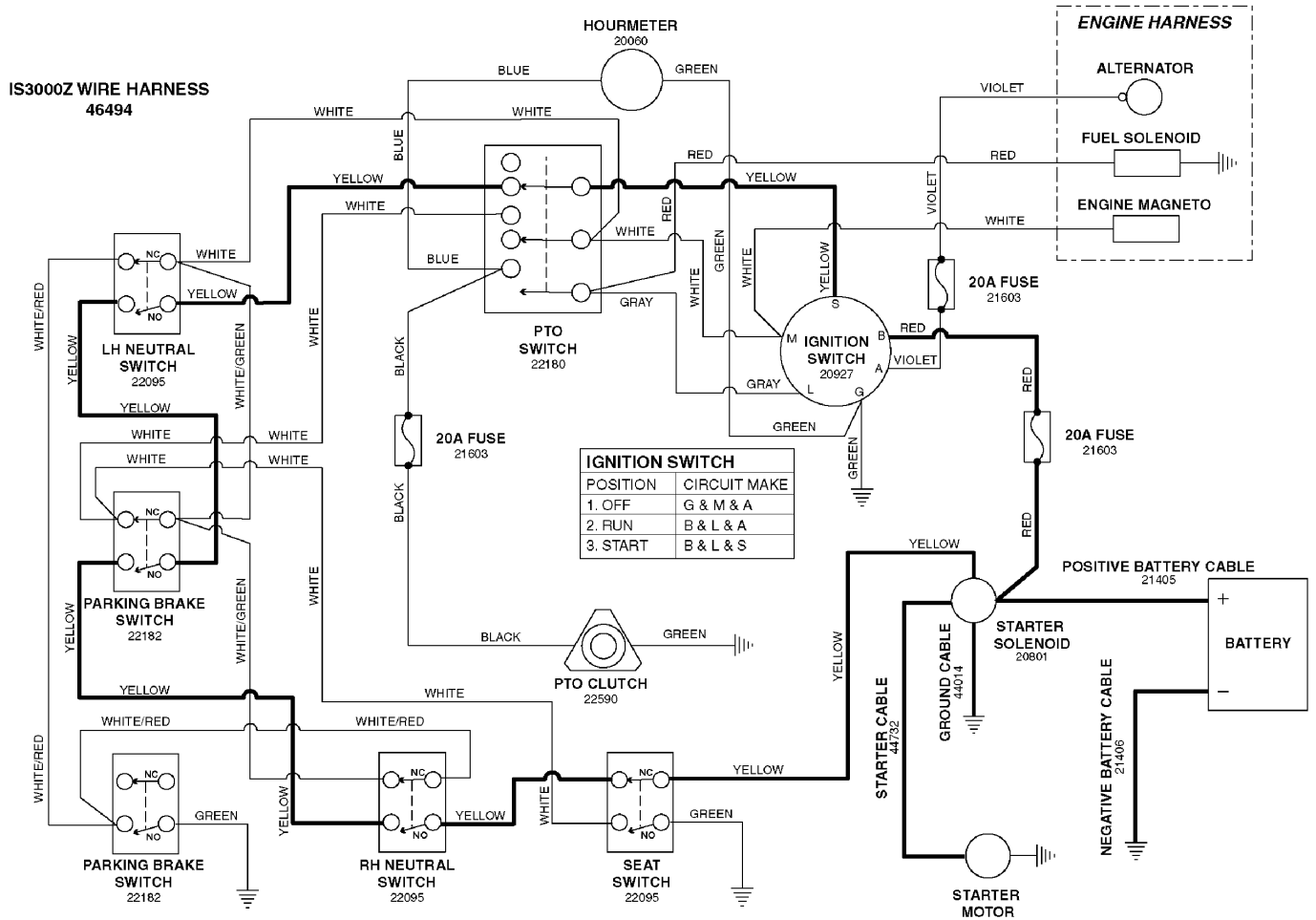
5901058 (IS3000ZKAV25/61)



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

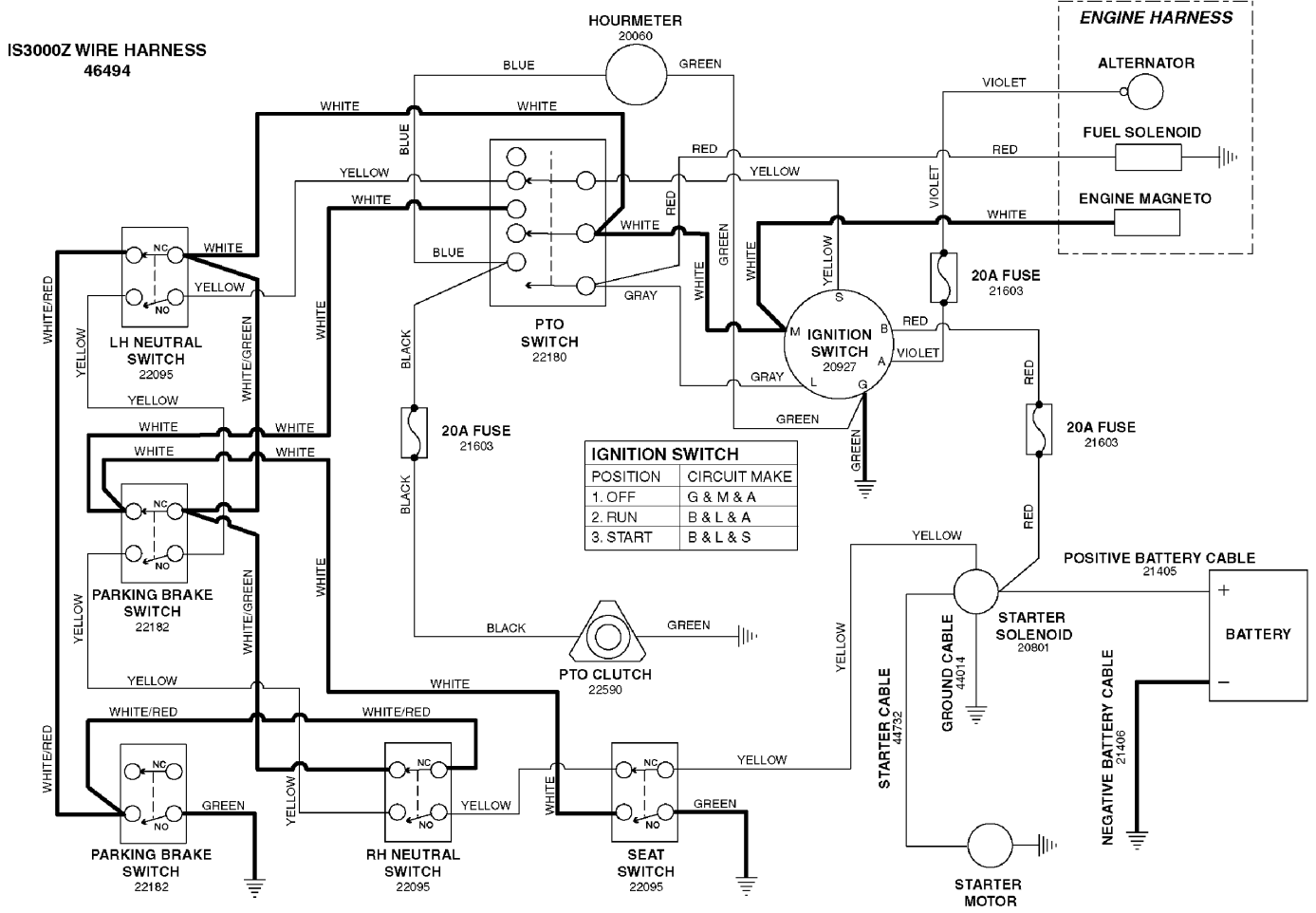
5901058 (IS3000ZKAV25/61)



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

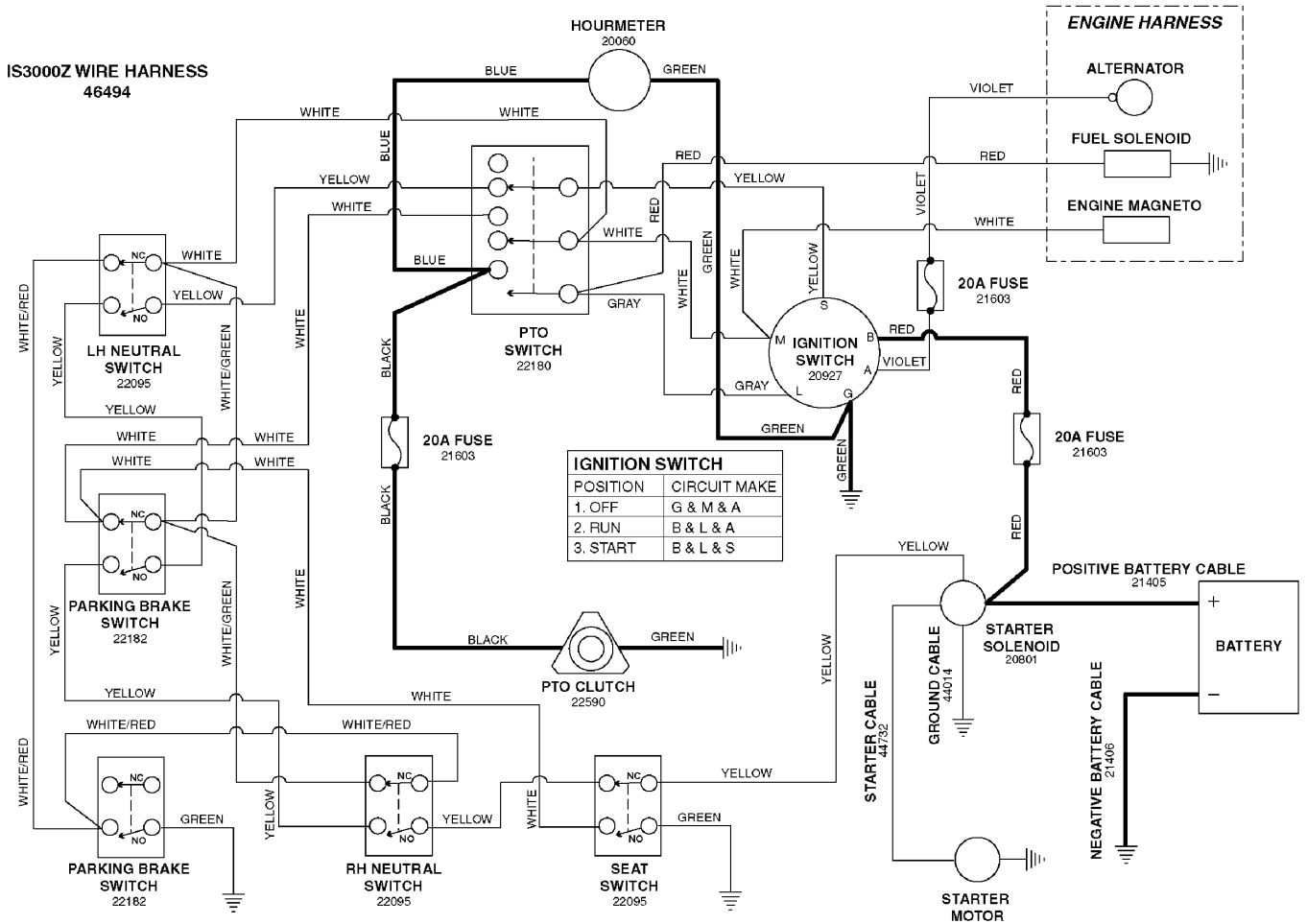
5901058 (IS3000ZKAV25/61)



The above parts group applies to the following Mfg. Nos.:

5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)



The above parts group applies to the following Mfg. Nos.:

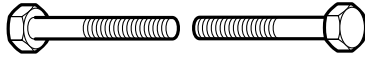
5901057 (IS3000ZKAV23/61)

5901058 (IS3000ZKAV25/61)

Hardware Identification & Torque Specifications

Common Hardware Types

Hex Head Capscrew



Washer



Carriage Bolt



Lockwasher



Hex Nut

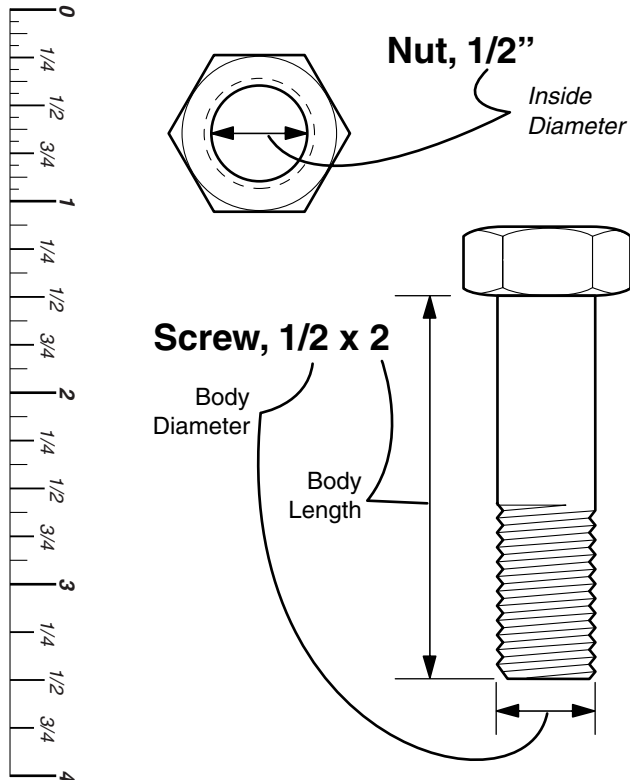


Standard Hardware Sizing

When a washer or nut is identified as $1/2''$, this is the *Nominal size*, meaning the *inside diameter* is $1/2$ inch; if a second number is present it represents the *threads per inch*

When bolt or capscrew is identified as $1/2 - 16 \times 2''$, this means the *Nominal size*, or *body diameter* is $1/2$ inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

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



Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance $\pm 20\%$)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
	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	27	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

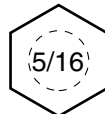
NOTES

- 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.

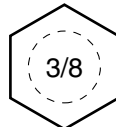
Wrench & Fastener Size Guide



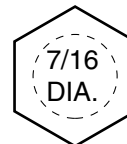
$1/4''$ Bolt or Nut
Wrench— $7/16''$



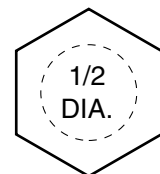
$5/16''$ Bolt or Nut
Wrench— $1/2''$



$3/8''$ 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— $3/4''$

Parts Manual

IS3000Z Series

Zero-Turn Riding Mower

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