



Parts Manual

Mfg. No: DL3702VE

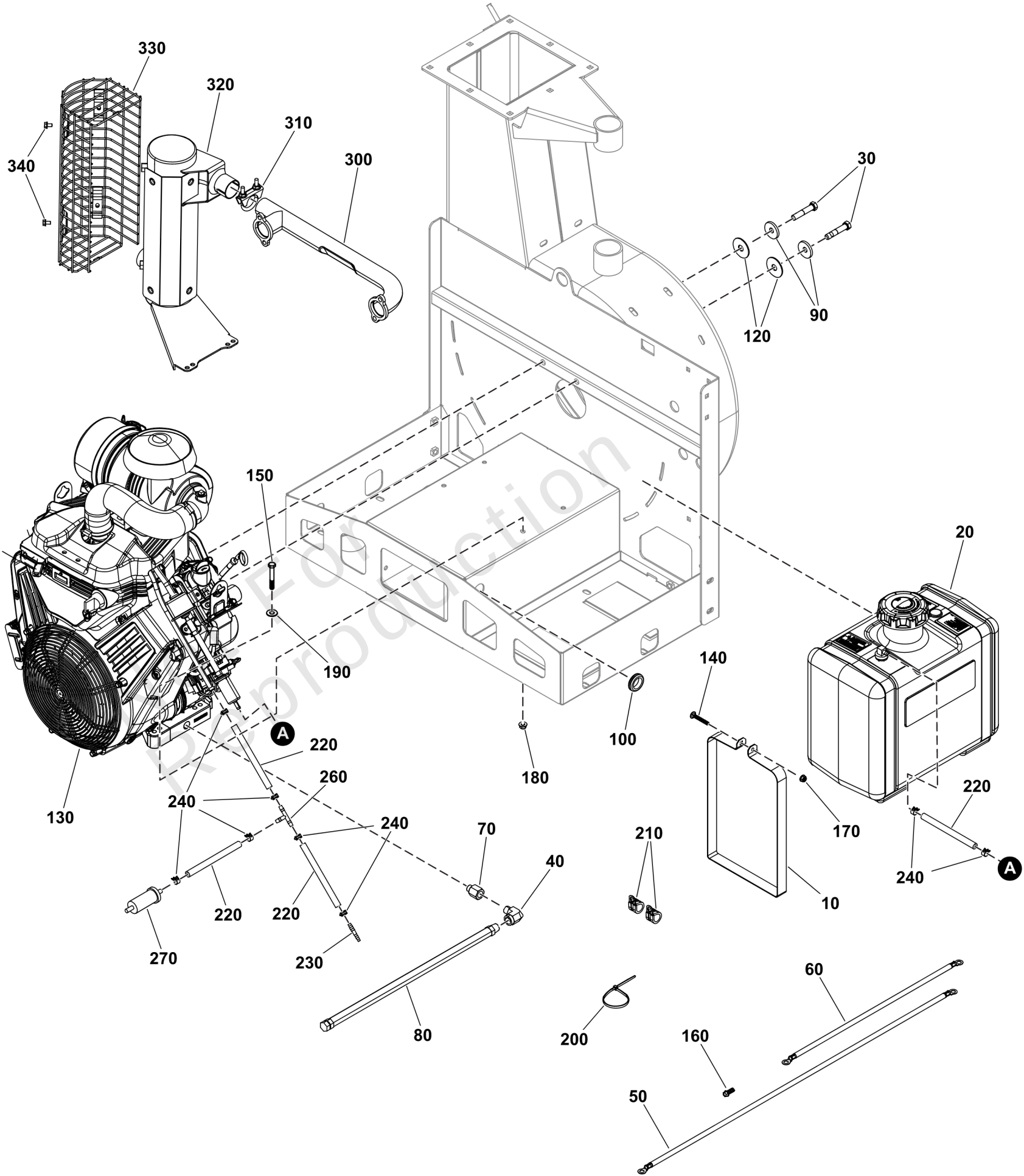
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Engine and Fuel Tank Group

Note: Unless noted otherwise, use the standard torque specifications

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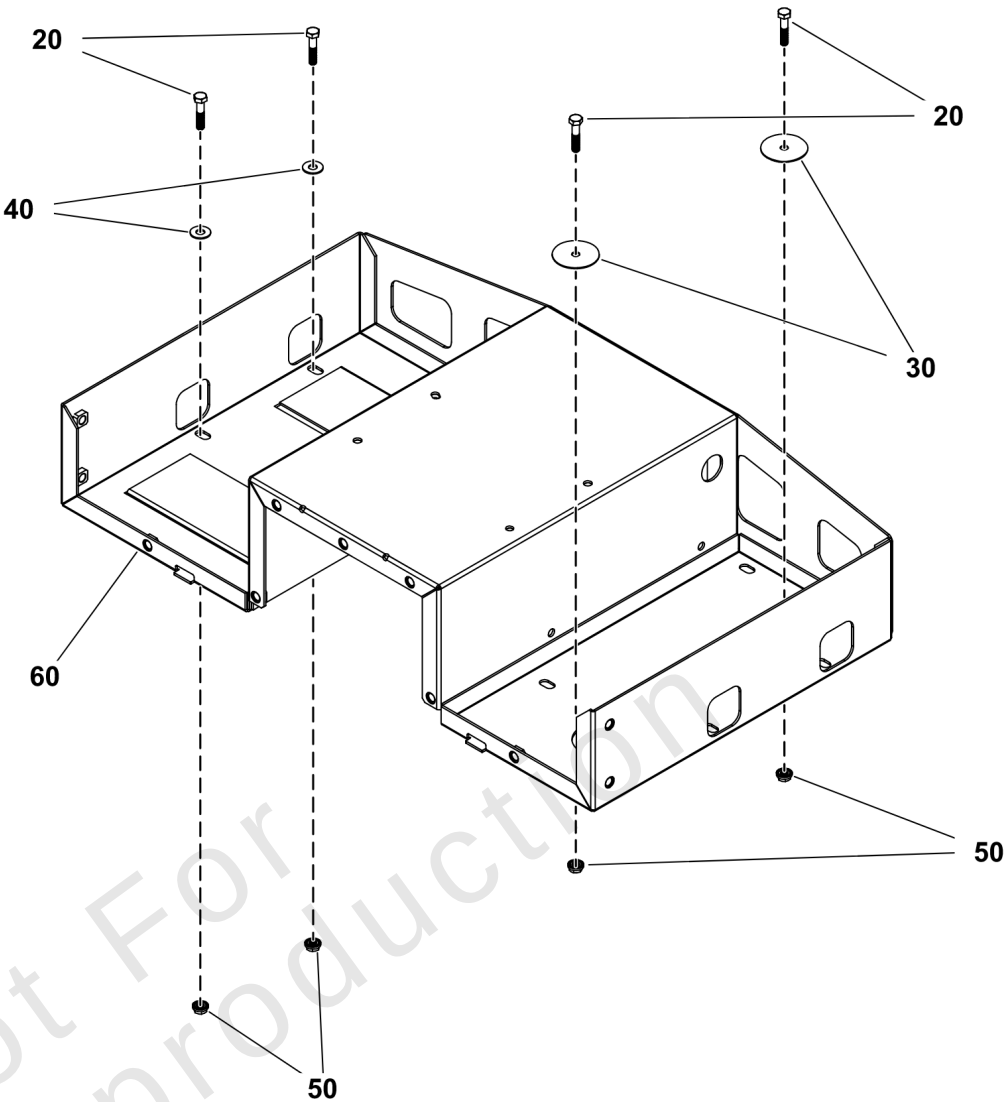
Engine and Fuel Tank Group

REF NO	PART NO	QTY	DESCRIPTION
10	27791043A	2	CLAMP, TANK FUEL
20	27791157	1	TANK & CAP ONLY - SIX GALLON 2.500" NECK
30	27792233	2	SCREWCAP 7/16"-14 X 2 1/4" GR5 W/PATCH
40	27792271	1	ADAPTER, 90° ST ELBW 3/8M-3/8F NPT
50	27812282	1	CABLE BATTERY RED 36"
60	27812341	1	CABLE BATTERY BLACK 20"
70	5100366	1	METRIC ADAPTER, M14-1.5" TO 3/8 NPTF
80	5102781	1	HOSE, OIL DRAIN
90	5106653	2	WSHR-STL, BLV, .450" X 1.500" X .172" MZ
100	520092	2	GROMMET 1.25" HOLE
120	792292	2	WSHR-STL, FLT .535"X1.750"X.065" FEN ZP
130	-----	1	ENGINE, 37HP, BRIGGS & STRATTON, 61A277-0100-J1
140	8024025	2	BOLT CARRIAGE 1/4-20 X 1 3/4 Z/P
150	8041033	4	SCREWCAP 5/16"-18 X 2 1/4" GR 5 HCS ZP 1
160	8122082	1	SCREW SM 1/4"X3/4" TYPE AB HX WF
170	8165001	2	NUT-HEX-NYLK, FLG .250"-20 ZP
180	8165002	4	NUT-HEX-NYLK, FLG .3125"-18 ZP
190	8171003	4	WASHER 5/16" FLATWASHER Z/P
200	900407	1	TY WRAP
210	791070	2	CLAMP ROUTING FUEL LINE
220	27792406	4	FUEL LINE 1/4" ID X 6"
230	27792227	1	1/4" TO 3/16" HOSE BAR REDUCER SP
240	791164	8	CLAMP, FUEL LINE 0.50"
260	27792255	1	1/4"X1/4"X1/4" BARB TEE FITTING
270	844793	1	FUEL FILTER BRIGGS
300	792226-3	1	MANIFOLD DL35
310	5107305	1	CLAMP, MUFFLER, Z3000
320	792290	1	MUFFLER DL29
330	841392	1	GUARD, Muffler -(was 792226-2)
340	792226-5	2	SCREW MUFFLER DL35

Frame Group

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Frame Group

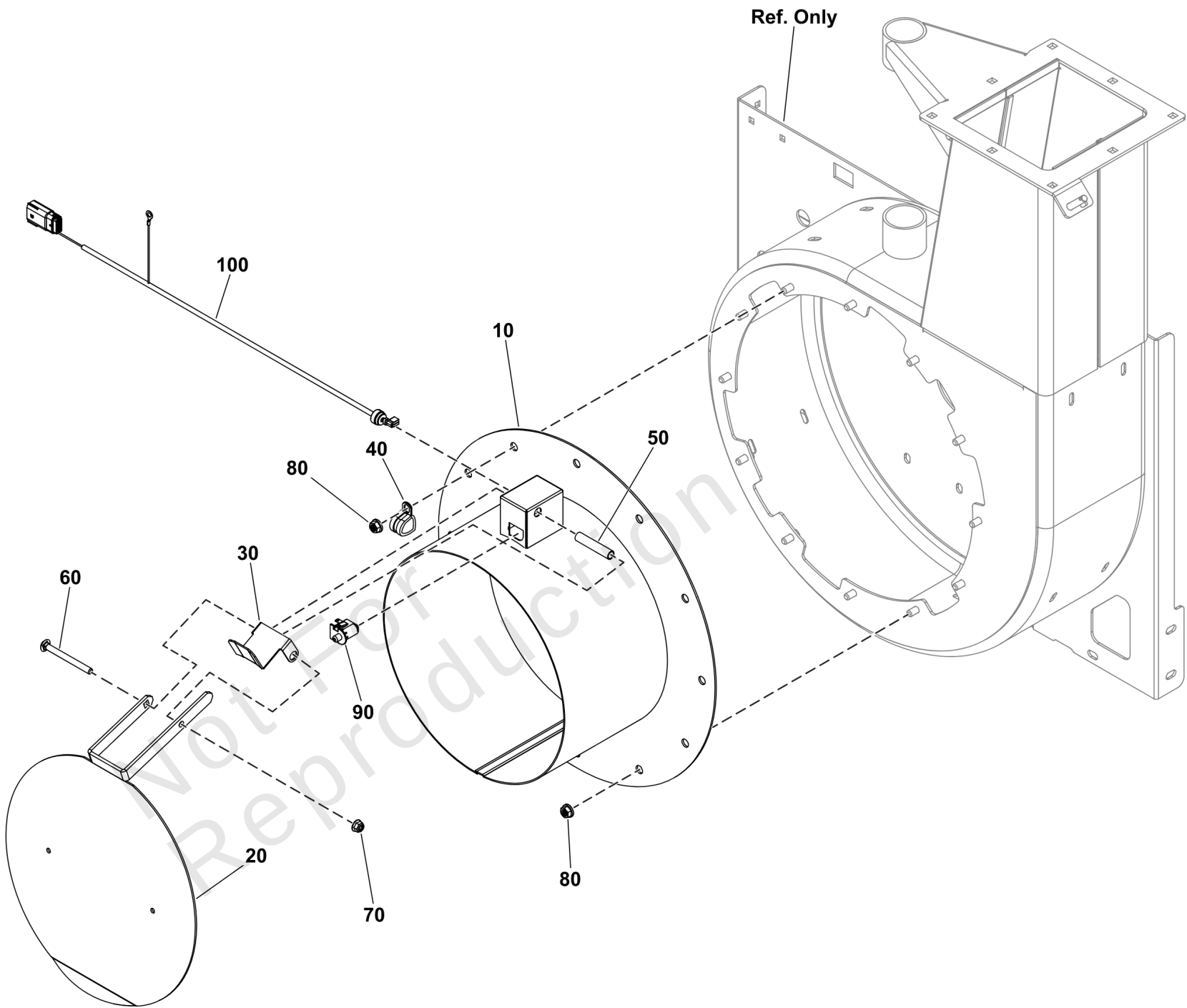
REF NO	PART NO	QTY	DESCRIPTION
20	8041030	4	SCREWCAP 5/16"-18 X 1-1/2" HCS ZP
30	810652	2	WASHER 2" OD x 0.344 ID x 16 GA.
40	8171003	2	WASHER 5/16" FLATWASHER Z/P
50	350346	4	NUT, 5/16"-18 SER. HEX WSHR FLNG ZP
60	27792604	1	ENGINE BASE WA W/LABELS

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Front Plate Group

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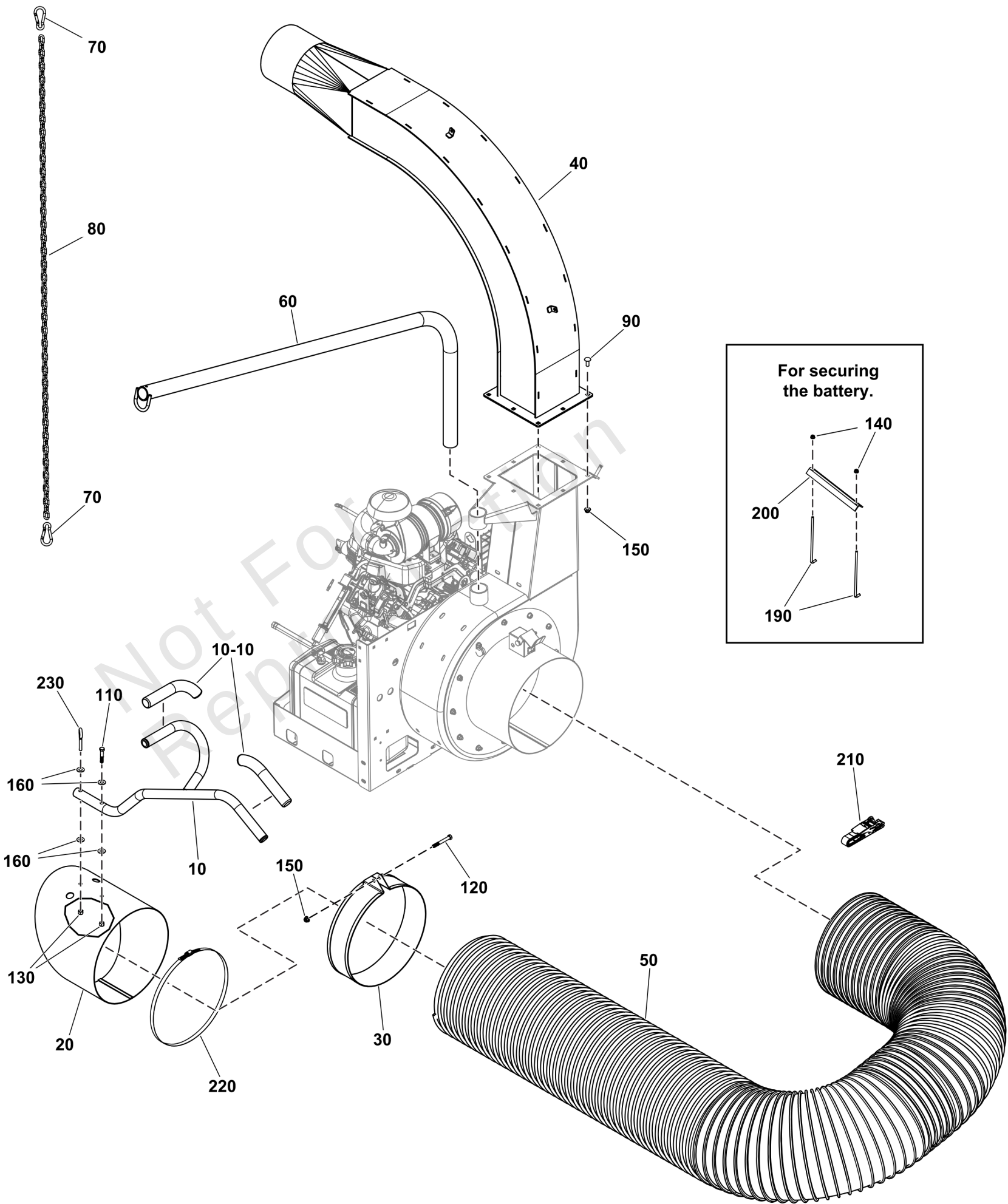
Front Plate Group

REF NO	PART NO	QTY	DESCRIPTION
10	80130445AN	1	WA, DL INTAKE 14" DELTA SWITCH - GREEN
20	792603	1	FLAPPER INTAKE 14" W/LABELS
30	791068A	1	LEVER HOSE SWITCH
40	791070	1	CLAMP ROUTING FUEL LINE
50	900503	1	SPACER 3/8" X 2 1/2"
60	8024050	1	BOLT CARRIAGE 5/16"-18 X 3 1/2" ZP
70	8165002	1	NUT-HEX-NYLK, FLG .3125"-18 ZP
80	27791079	12	NUT-HEX-SER-FLG-ST, .375"-16 G5 ZP
90	7023354	1	SWITCH, SEAT
100	80129817	1	HARNESS, WIRING DL

Hose, Discharge Chute, and Battery Hold Down Group

Note: Unless noted otherwise, use the standard torque specifications

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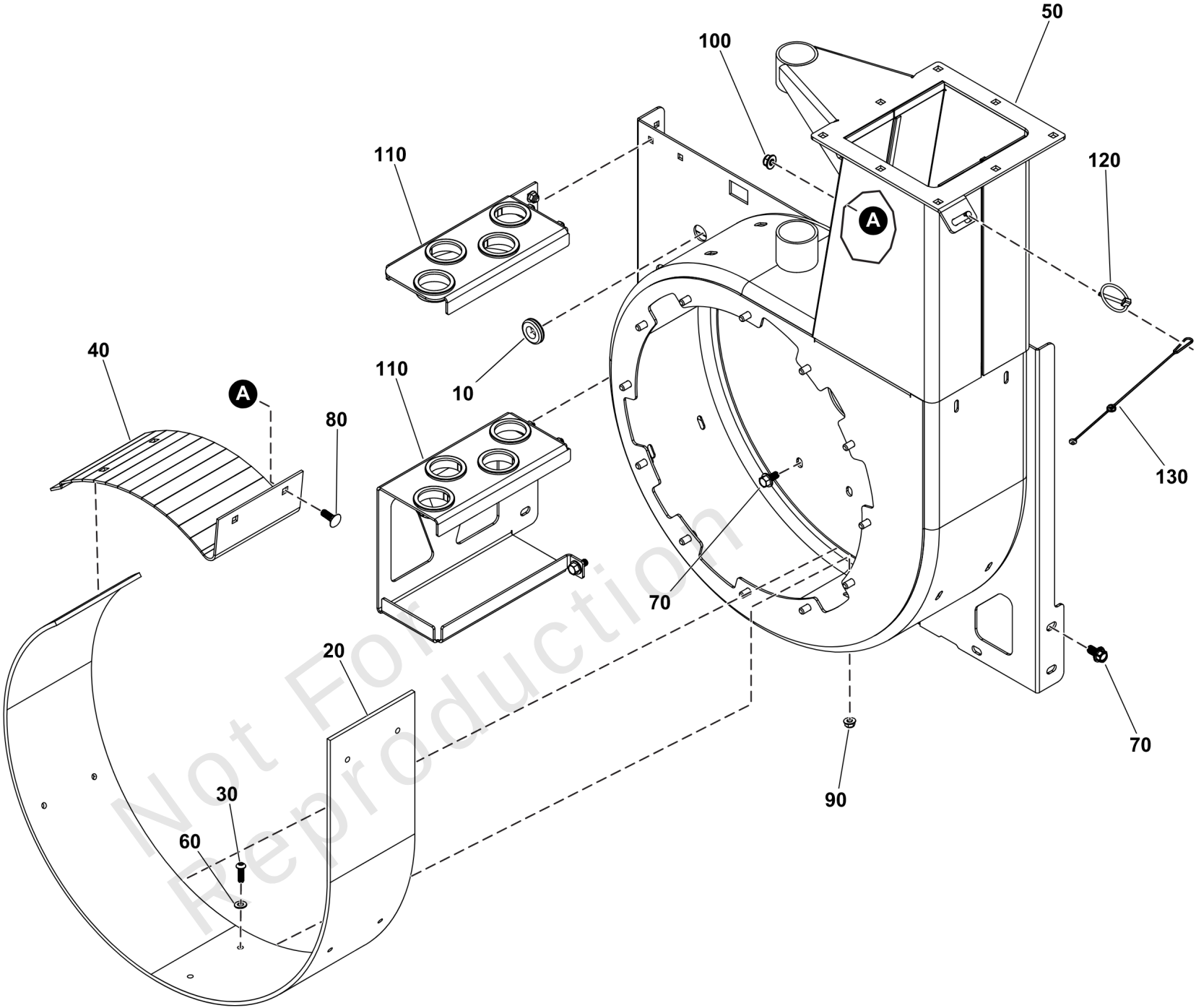


Hose, Discharge Chute, and Battery Hold Down Group

REF NO	PART NO	QTY	DESCRIPTION
10	791116-S	1	HANDLE NOZZLE/GRIP ASSY -(Includes item ref # 10-10.)
10-10	440146	2	GRIP 1-1/4" ID x 9.5" LONG
20	27792605	1	NOZZLE 14" INTAKE SERVICE
30	27792403A	1	BAND HOSE BOOM 14.50" FORMED
40	792612	1	KIT, 7" SQ. ELBOW SQUARE FLANGE
50	27792208	1	HOSE 14" INTAKE X 10' (SEE ACCESSORY PRICELIST)
60	791113A	1	BOOM HOSE - BLK
70	27791027	2	HOOK, SNAP SAFETY 5/16" ZP
80	791117-S	1	CHAIN HOSE HANG DL -(Includes Safety Snap Hooks - Item # 70.)
90	80004566	8	BOLT,3/8-16X1.00,RD SH SQ NK,GR 5,ZC/CL
110	8041054	1	SCREWCAP 3/8"-16 X 2" HCS ZP
120	8041058	1	SCREWCAP 3/8"-16 X 3" HCS ZP
130	8160003	2	NUT LOCK 3/8"-16 HEX
140	8165001	2	NUT-HEX-NYLK, FLG .250"-20 ZP
150	8165003	9	NUT-HEX-NYLK, FLG .375"-16 ZP
160	8171004	4	WASHER 3/8 FC 7/16 X 1 X 5/64
190	27790231	2	ROD BATTERY HOLD DOWN
200	790230A	1	BRACKET BATTERY DL - BLK
210	792270	1	STRAP, 1" X 60" ENDLESS RATCHET
220	27792224	1	CLAMP, DIXON HS248
230	27791081	1	BOLT EYE .375"-16 X 1.75" ZP

Housing Group

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: DL3702VE



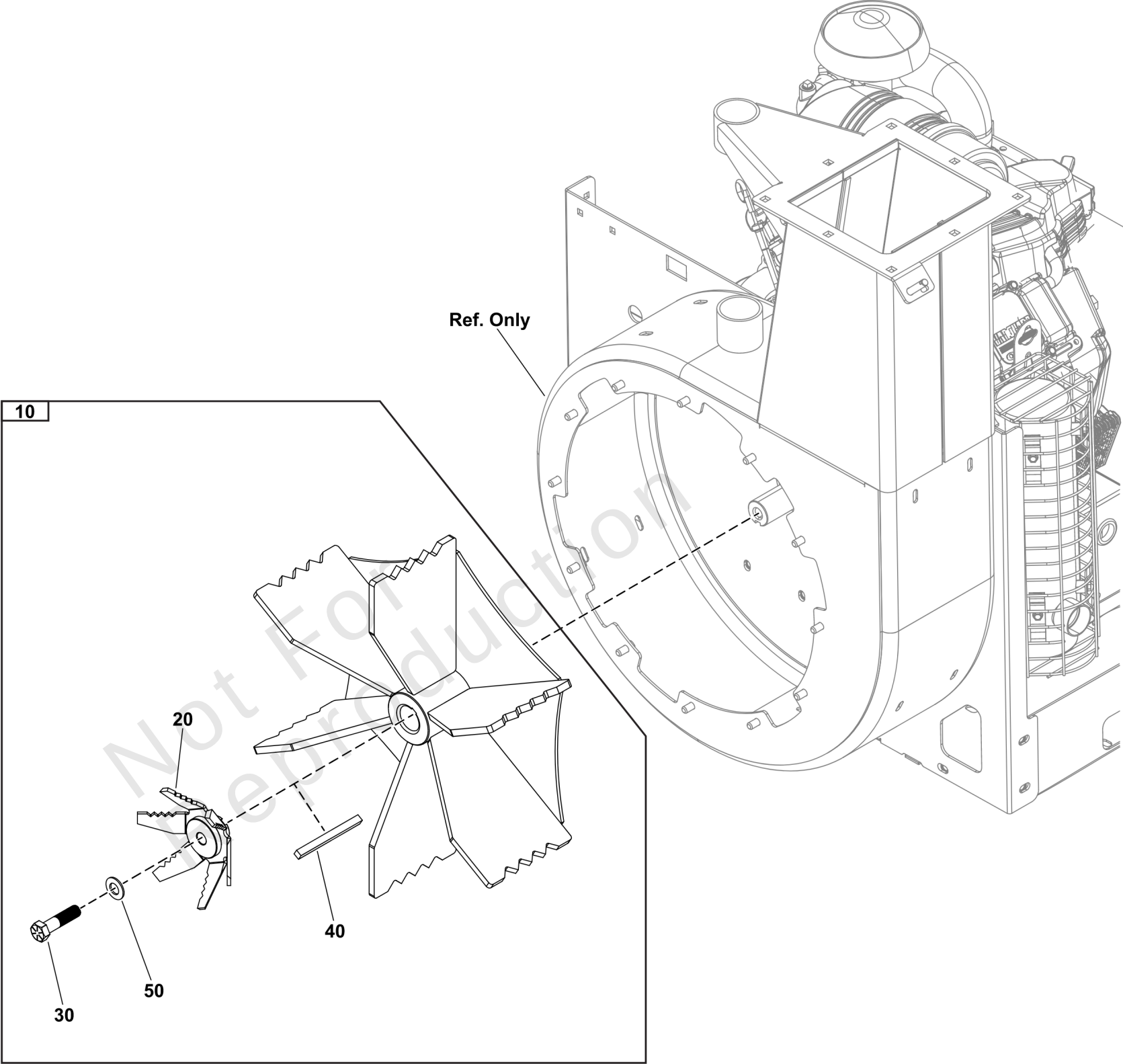
Housing Group

REF NO	PART NO	QTY	DESCRIPTION
10	520087	1	GROMMET 1" HOLE
20	791018-S	1	LINER REPLACEABLE LOADER
30	27791151	10	SCREW BUTTON HEAD 5/16"-18X1.00
40	791020	1	CUT OFF REPLACEABLE DL
50	27792610	1	HOUSING WA W/LABELS DL2901/3701 -(Includes decals.)
60	8172008	10	WASHER 5/16 SAE Z/P
70	27791080	11	SER. HEX WSHR FLNG SCR 0.375 - 16X0
80	8024058	4	BLT-RDHDSSQNK, .375"-16 X 1.000 G5 ZP
90	8165002	10	NUT-HEX-NYLK, FLG .3125"-18 ZP
100	8165003	4	NUT-HEX-NYLK, FLG .375"-16 ZP
110	-----	1	Refer to: Rake Holders
120	520004	1	LYNCH PIN 3/16" X 1 9/16"
130	360243	1	LANYARD PLASTIC 10"

Impeller Group

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Impeller Group

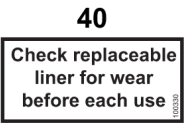
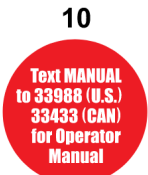
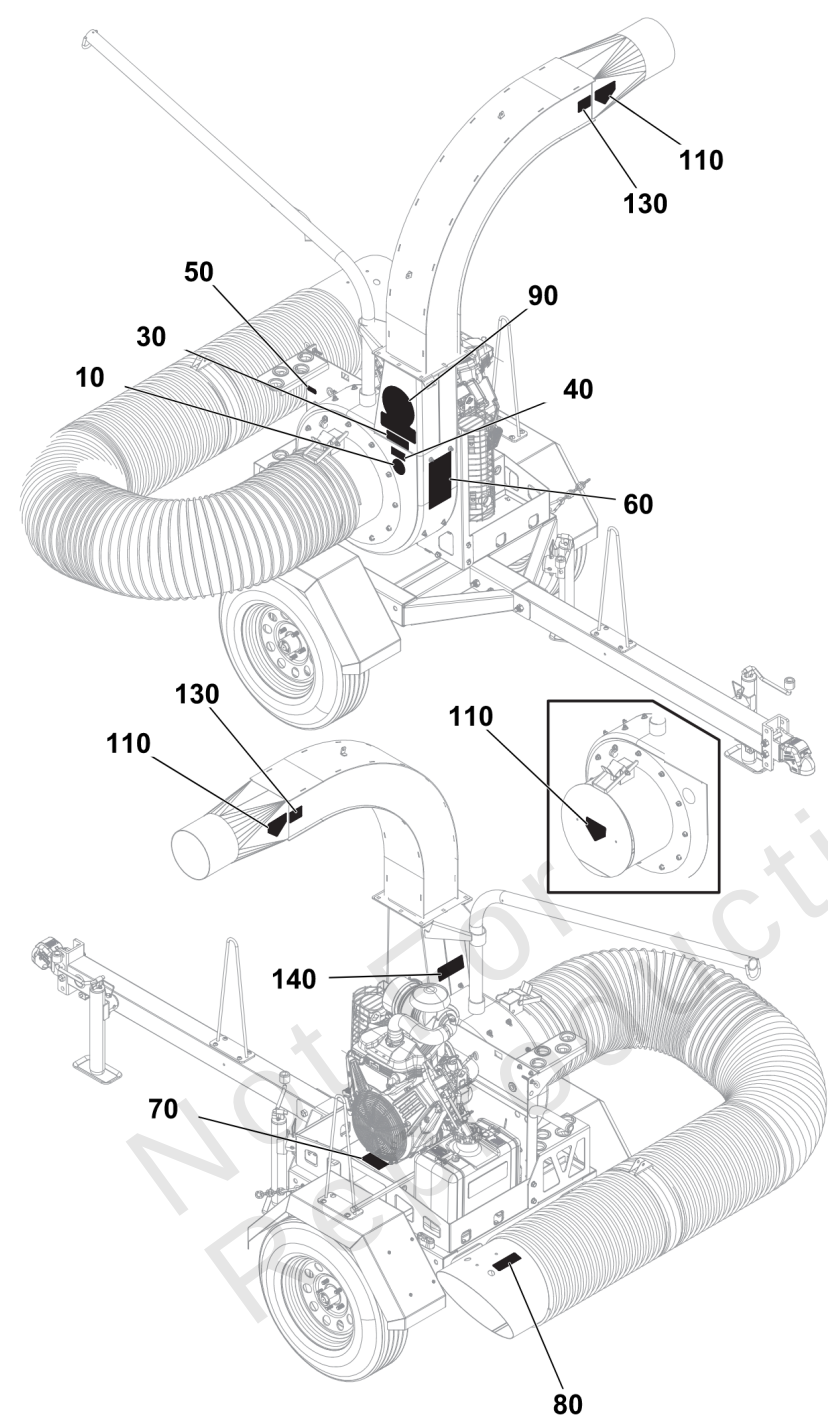
REF NO	PART NO	QTY	DESCRIPTION
10	27792601	1	IMPELLER ASSY DL35/DL37
20	27792104	1	PIRANHA BLADE WA DL35
30	792222	1	SCREWCAP 5/8"-18 X 3.00" ZP GR8
40	9201200	1	KEY 3/8" SQ. X 4.50"
50	8181015	1	WSHR-STL, BLV, .642" X 1.25" X .089" MZ

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Labels Group

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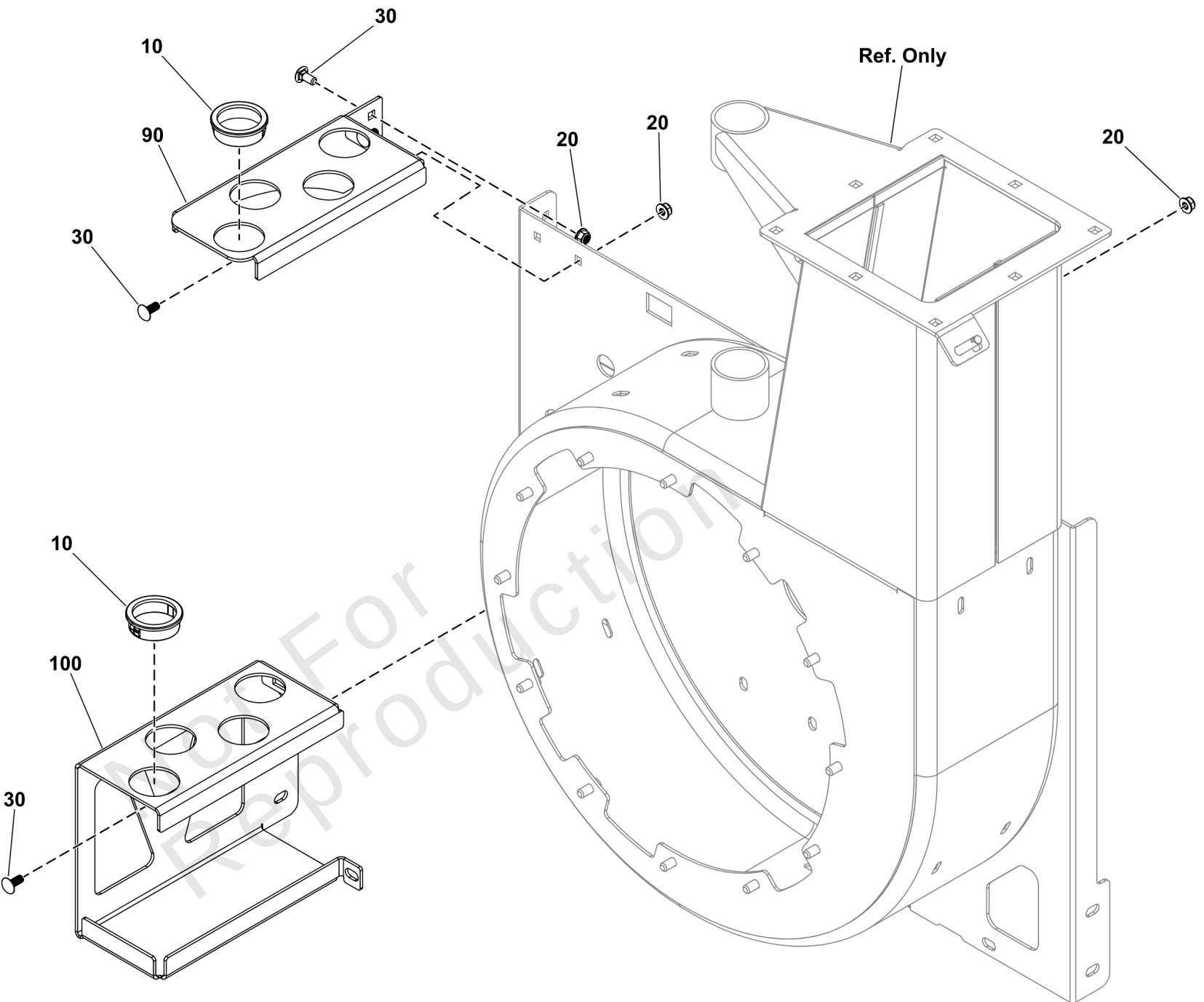
Labels Group

REF NO	PART NO	QTY	DESCRIPTION
10	100251	1	LABEL, ROUND, TEXT TO MANUAL
30	100283	1	LABEL DL PIRANHA
40	100330	1	LABEL, WARNING LINER DL
50	100443	1	LABEL, P65 WARNING
60	27790142	1	LABEL DL INSTRUCTION/WARN
70	27790232	1	LABEL WARNING SECURE
80	27790301	1	LABEL WARNING NOZZLE
90	27791099	1	LABEL PRODUCT DECAL DL
110	400424	3	LABEL WARNING OPEI
130	810736	2	LABEL DANGER FLYING DEBRIS
140	811215	1	LABEL WARNING ENGINE OVERHEAT

Rake Holders Group

Note: Unless noted otherwise, use the standard torque specifications

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Rake Holders Group

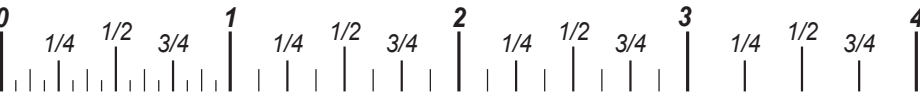
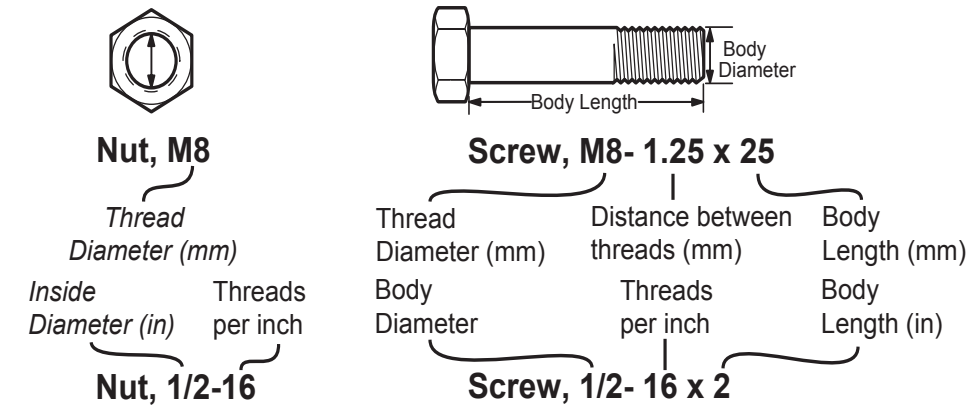
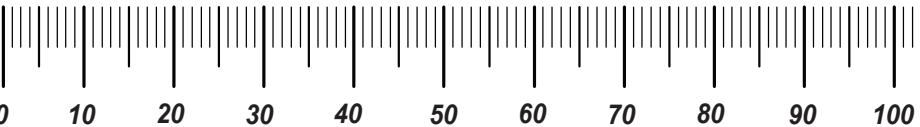
REF NO	PART NO	QTY	DESCRIPTION
10	27382292	8	BUSHING, SNAP 1.81" ID
20	8165002	6	NUT-HEX-NYLK, FLG .3125"-18 ZP
30	8024039	6	BOLT CARRIAGE 5/16-18 X 3/4" ZP
90	27792243A	1	RAKE HOLDER, UPPER DL
100	792244A	1	RAKE HOLDER, LOWER DL

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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).

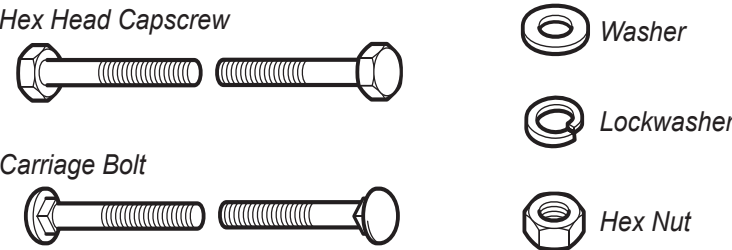
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

