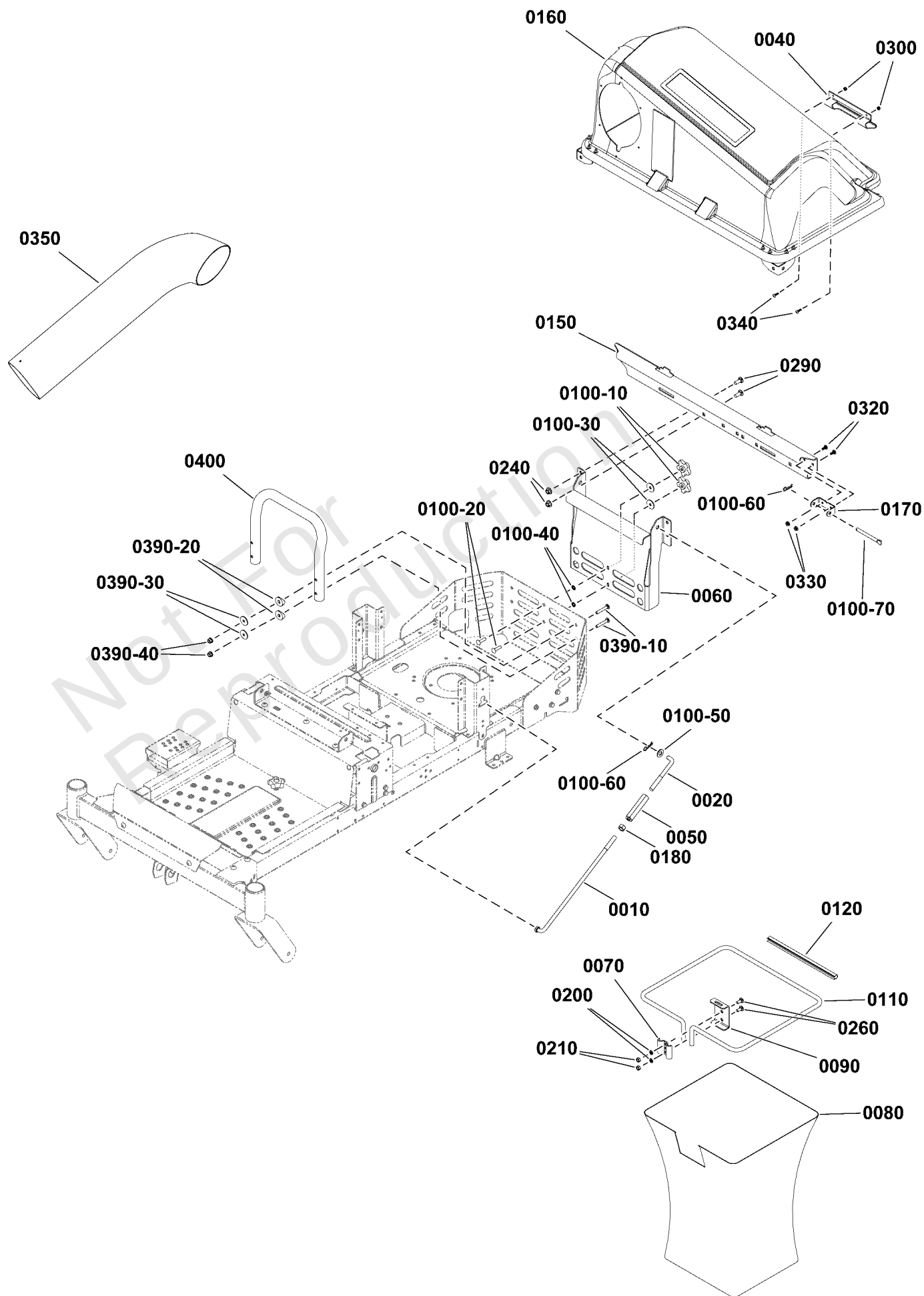


Parts Manual

Mfg. No: 5601391
Kit, 2-Bag Clean Sweep, Turbo, 500S-52

Model Components	Page
Catcher Group.	4
Turbo Housing Group.	6
Turbo Mounting Group.	8
Torque Specification Chart.	10

Not For
Reproduction



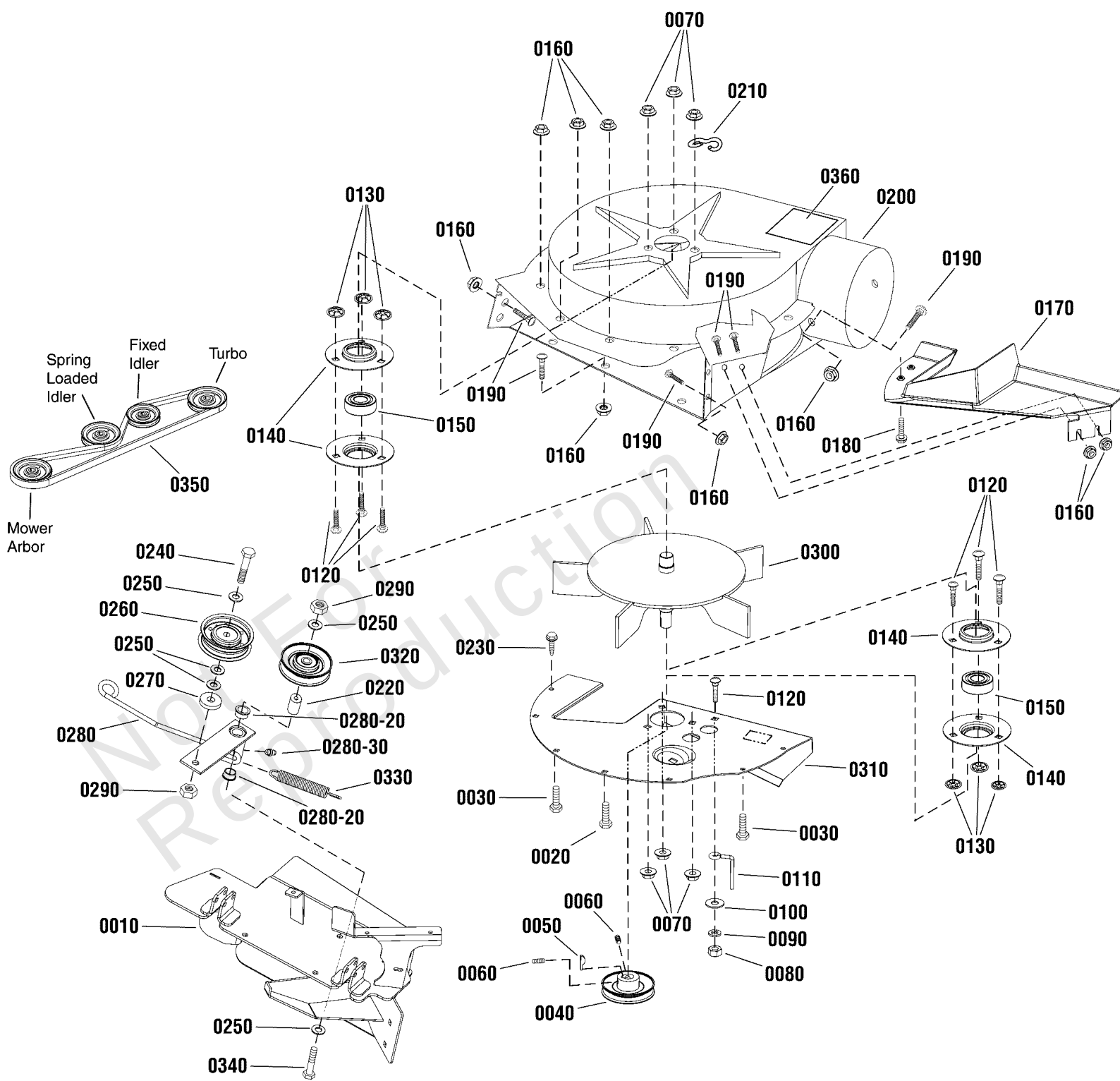
Catcher Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1759374	2	ROD, BAG SPT COLLARED
0020	1759375	2	ROD, BAG SPT UPPER PINNED
0040	720537	1	HOOP, Twin Catcher, 1/2" Diameter
0050	80013403	2	NUT, COUPLING
0060	1759342A	1	MOUNT, GRASS CATCHER, TEXTURED BLACK
0070	1672023A	2	CLAMP, 10 Gauge for (2) 1-2" Diameter Rods
0080	1703764	2	BAG, Grass, 15.4X16X22.5 White Poly Cloth
0090	1703807A	2	HANGER, Grass Bag Hoop 10GA Twin - Black
0100-10	1733098	2	KNOB, Plastic, 5/16-18
0100-20	80004446	2	BOLT,5/16-18X1 1/4,GR5,CRRG,ZINC/CLEAR
0100-30	1960044	2	WASHER, Plain, 21/64 x 1-1/4
0100-40	-----	2	RETAINER,5/16X0.625,PUSHNUT,ZINC/CLEAR
0100-50	5025158	2	WASHER, 1/2 SAE
0100-60	-----	4	PIN, 3/32 X 1.600, HAIR, ZINC/CLEAR
0100-70	720525	2	PIN, Cover Hinge .375DIA 3.75 LG YEL
0110	1733491	2	HOOP, Twin Catcher .500DIA Yellow
0120	1733709	2	EDGING, Tube Grass Bag
0150	1759713A	1	CROSS SUPPORT - TWIN BLACK
0160	1752440	1	COVER ASSEMBLY, Twin
0170	1736886A	2	PIVOT, Hinge
0180	80004368	2	NUT,1/2-13,GR5,HEX,ZC/CL
0200	5025170	4	WASHER, 5/16 LOCK CZ
0210	5025032	4	NUT, 5/16-18 HEX
0240	5025128	4	NUT, 3/8-16 Hex Large Serrated Flange
0260	-----	4	RHSSNB,5/16-18 X 3/4 GR5 ZINC/CLEAR
0290	80004566	4	BOLT,3/8-16X1.00,RD SH SQ NK,GR 5,ZC/CL
0300	5025271	2	NUT, Hex, Nylon Lock, #10-24
0320	1960252	4	BOLT-RD HD SH SQ NK 1/4-20X0.625 G5 BLK
0330	5025126	4	NUT, 1/4-20 HEX SERR. FLANGE
0340	1960404	2	SCREW, Truss Head Phillips, #10-24 x 3/4 Black
0350	1760280	1	TUBE, UPPER (HOZ TURBO)
0390-10	80005403	4	BOLT,5/16-18X2.000,SHRT SQ NK,CRRG,ZC/CL
0390-20	1759361	4	SADDLE, 1.25 O.D. TUBE
0390-30	1960044	4	WASHER, Plain, 21/64 x 1-1/4
0390-40	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE NUT
0400	1759315A	1	TUBE, UTILITY BOX SUPPORT (BLACK)

Turbo Housing Group

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 5601391

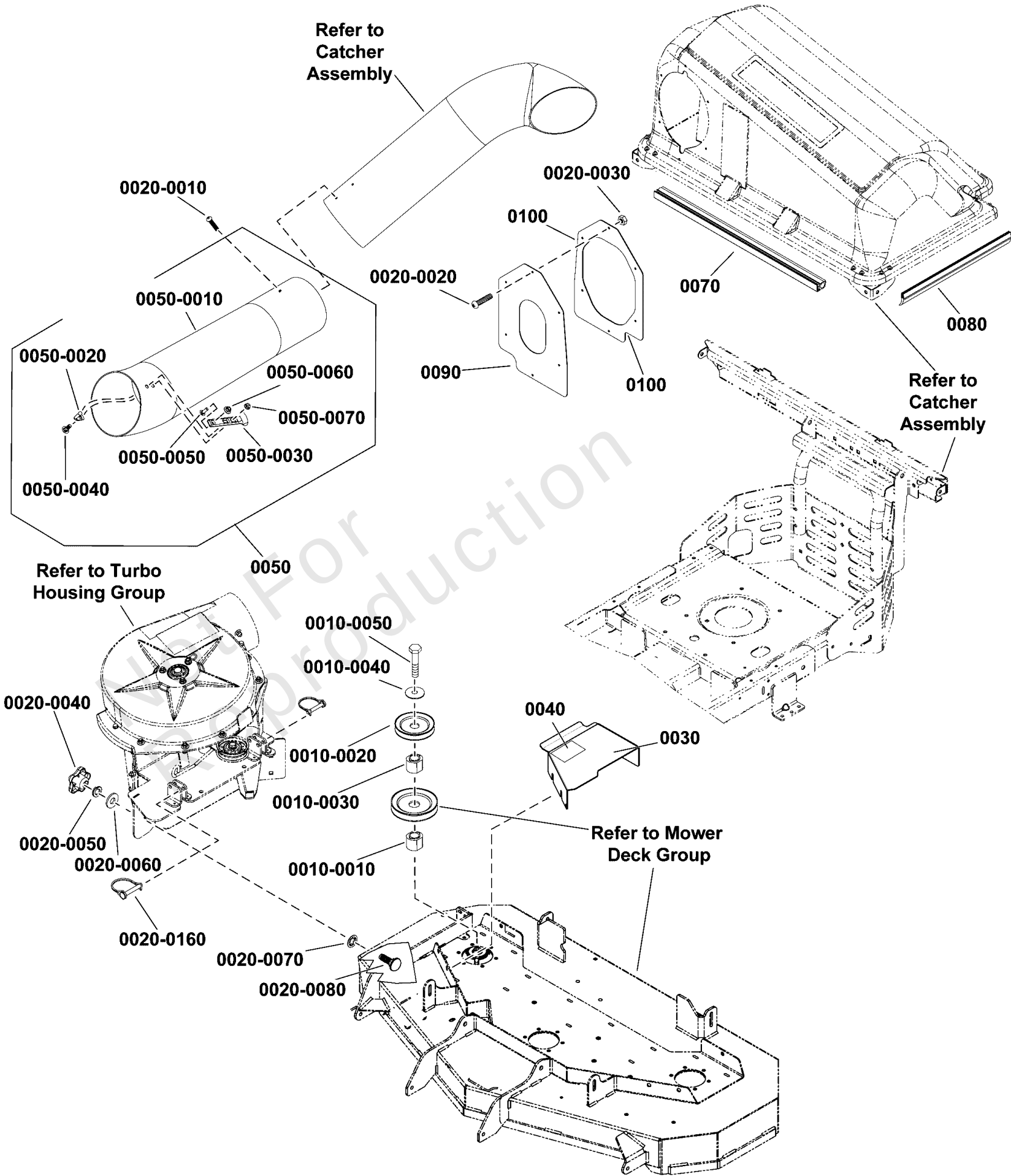


Turbo Housing Group

REF NO	PART NO	QTY	DESCRIPTION
0010	1756241A	1	WELDMENT, 52" FAB TURBO ADAPTER BL
0020	-----	3	HHCS, 1/4-20 X 0.625, GR5, ZINC/CLEAR
0030	80004833	3	HHCS, 1/4-20 X 0.875, GR 5, ZINC/CLEAR
0040	1736092	1	PULLEY, 2-3/4" Diam., For 4L Belt
0050	2860403	1	KEY, Woodruff, Modified
0060	5025531	2	SET SCREW, 5/16-18 X 3/8, KNUURL, W/PATCH
0070	5025139	6	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
0080	5025032	1	NUT, 5/16-18 HEX
0090	5025170	1	WASHER, 5/16 LOCK CZ
0100	5025337	1	WASHER, 5/16" USS
0110	1678435	1	BELT STOP, (Height Indicator)
0120	-----	7	RHSSNB,5/16-18 X 3/4 GR5 ZINC/CLEAR
0130	-----	6	RETAINER,5/16X0.625,PUSHNUT,ZINC/CLEAR
0140	1665982	4	RETAINER, BEARING CLEAR ZINC
0150	2108202	2	BEARING-BALL 0.750ID 1.780OD 0.610LG
0160	-----	17	NUT, Hex Flange Whiz, 1/4-20
0170	1705267	1	PLATE-COVER,BLACK POLY FOR LTH MDVS
0180	80027822	2	SCREW-HEX WSHR HD HI,LO .250 X .750 ZC/C
0190	80003518	11	BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL
0200	5103385	1	HOUSING, FERRIS TURBO BLOWER
0210	1672689	1	HOOK, "S"
0220	1676833	1	SPACER, 3/8 ID x 5/8 OD x 1-3/4 Long
0230	-----	1	SCREW, 1/4-20 x 1/2" Hex Washer Self-Tap, BZ
0240	80004479	1	* CAPSCREW, Hex Head, 3/8-16 X 1-1/2, GR5
0250	5025156	4	WASHER, 3/8 SAE
0260	2154534	1	IDLER PULLEY ASSEMBLY, 2-3/4 OD
0270	80005608	1	WSHR,0.453IDX1.250ODX0.250THK,FLAT,ZC/CL
0280	1756380	1	ASSY, IDLER ARM, 52" FAB TURBO -(Includes Ref. Nos. 0280-20 & 0280-30)
0280-20	1676148	2	BUSHING-0.628IDX0.751ODX0.400LG PWDR MTL
0280-30	-----	1	ZERK GREASE FITTING 1/4 ZINC/CLEAR
0290	5025100	2	NUT, Hex, Side Lock, 3/8-16
0300	1706631A	1	FAN ASSEMBLY, Five Paddle
0310	1705266A	1	PLATE-14GA FOR MDVS REG,BM,LL,BLACK TEXT
0320	1721134	1	PULLEY, 3" OD x .378" ID x .75" WD, w/Bearing
0330	1716853	1	SPRING, Tension
0340	80004845	1	HHCS, 3/8-16 X 3.250, GR 5, ZINC/CLEAR
0350	1756395	1	BELT, 52" FAB TURBO
0360	1700259	1	DECAL, Danger Thrown Objects

Turbo Mounting Group

Note: Unless noted otherwise, use the standard torque specifications Mfg. No: 5601391



Turbo Mounting Group

REF NO	PART NO	QTY	DESCRIPTION
0010-0010	1758624	1	SPACER, HUB
0010-0020	1713090	1	PULLEY, 3 x 3/4 OD
0010-0030	1758623	1	SPACER, HUB
0010-0040	1656916	1	WASHER, .475 ID x 1.75 OD x .156 Thick Spring, Black
0010-0050	80020799	1	CAPSCREW-HEX HD 7/16-14X2.750 G5 ZC/CL
0020-0010	80023372	1	SCREW, 1/4 - 14 AB X .75
0020-0020	1960404	6	SCREW, Truss Head Phillips, #10-24 x 3/4 Black
0020-0030	-----	6	NUT, Hex Lock 10-24 w/Nylon Insert
0020-0040	7105085	1	KNOB, Handle, 5 Prong
0020-0050	5025170	1	WASHER, 5/16 LOCK CZ
0020-0060	5025337	1	WASHER, 5/16" USS
0020-0070	-----	1	RETAINER,5/16X0.625,PUSHNUT,ZINC/CLEAR
0020-0080	80004446	1	BOLT,5/16-18X1 1/4,GR5,CRRG,ZINC/CLEAR
0020-0160	5100847	1	SNAPPERPIN, 5/16 X 2
0030	-----	1	COVER, Arbor, RH
0040	5103184	1	DECAL, WARNING, HAND IN BELT, ENG ONLY
0050	1758467	1	ASSEMBLY, LOWER TUBE (TURBO) -(Incl. Ref. Nos. 0050-0010, 0050-0020, 0050-0030, 0050-0040, 0050-0050, 0050-0060 & 0050-0070)
0050-0010	-----	1	TUBE, Lower -(Refer to Note: *) (Included with Ref. No. 0050)
0050-0020	720543CJ	1	PIN, LATCH, BLACK E-COAT (EPOXY) -(Included with Ref. No. 0050)
0050-0030	1760659	1	STRAP, RUBBER (BLACK) -(Included with Ref. No. 0050)
0050-0040	1960252	1	BOLT-RD HD SH SQ NK 1/4-20X0.625 G5 BLK -(Included with Ref. No. 0050)
0050-0050	80003518	1	BOLT,1/4-20X0.750,GR5,STD NECK,SQ,ZC/CL -(Included with Ref. No. 0050)
0050-0060	-----	1	NUT, Hex Flange Whiz, 1/4-20 -(Included with Ref. No. 0050)
0050-0070	5025126	1	NUT, 1/4-20 HEX SERR. FLANGE -(Included with Ref. No. 0050)
0070	1733579	1	EDGING, Rubber, thick
0080	1717496	1	EDGING, Rubber, Thin
0090	1733741	1	SEAL, Cover, Nylon
0100	1732735A	1	FLANGE, Seal 14 GA

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).

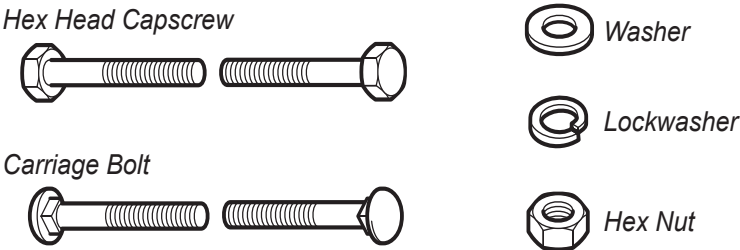
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

