

5.5 HP REAR TINE TILLER

AND
ATTACHMENT

5516RT

Mfg. No.	Description
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1693847	5516RT, 5.5HP Rear Tine Tiller
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ATTACHMENT

Mfg. No.	Description
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1692878	Hiller/Furrower
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Simplicity

MANUFACTURING, INC.

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REAR TINE TILLERS

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ATTACHMENT:

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REFERENCE INFORMATION:

Torque Specification Chart.....	Inside Back Cover
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NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

Exploded view diagram of a motorcycle frame assembly. The diagram includes the following components and callouts:

- 1: Top plate
- 2: Side rail
- 3: Main frame rail
- 4: Mounting bracket
- 5: Mounting bracket
- 6: Bolt
- 7: Bolt
- 8: Bolt
- 9: Main frame rail
- 10: Bolt
- 11: Bolt
- 12: Bolt
- 13: Bolt
- 14: Bolt
- 15: Bolt
- 16: Bolt
- 17: Bolt
- 18: Bolt
- 19: Bolt
- 20: Bolt
- 21: Bolt

Transmission p

1693847 5516RT, 5.5HP Rear Tine Tiller

Handle Bar Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1716699	2	HANDLE GRIP, Drive Control Lever
2	1722325	1	LEVER, Drive Control
3	1719038	2	HANDLE GRIP
4	1960392	4	SCREW, Pan Head Phillips #10 - 24 x 1/2"
5	1716723	1	BRACKET, Drive Control Lever LH
6	1933896	10	NUT, Hex Lock 10 - 24 w/Nylon Insert
7	1716720	1	SPRING, Forward Cable Adjustment
8	920438	4	NUT, Hex Jam 5/16" - 24NF, 2B
9	1722328	1	HANDLE BAR ASSEMBLY
10	1719037	2	CABLE ASSEMBLY
11	1916950	4	NUT, Hex 3/8" - 16NC, 2B
12	1921210	4	CAPSCREW, Hex Head 3/8" - 16 x 1" G5
13	1722326	4	CAPSCREW, Hex Head M05, 0.80 x 15MM
14	1719063	2	C-CLAMP
15	1716780	4	BOLT, Hex Flange Head 5/16" - 18 x 3/4"
16	1716729	1	LINK, Reverse 5.5HP
17	1935048	1	NUT, Hex Flange 5/16" - 18 Two, Way Lock
18	1716722	1	BRACKET, Drive Control Lever RH
19	1716704	1	BUSHING, Pivot 5/16"
20	1716725	1	HANDLE, Reverse 5.5HP
21	1921977	1	CAPSCREW, Hex Head 5/16" - 18 x 1-1/4" G5

Footnotes:

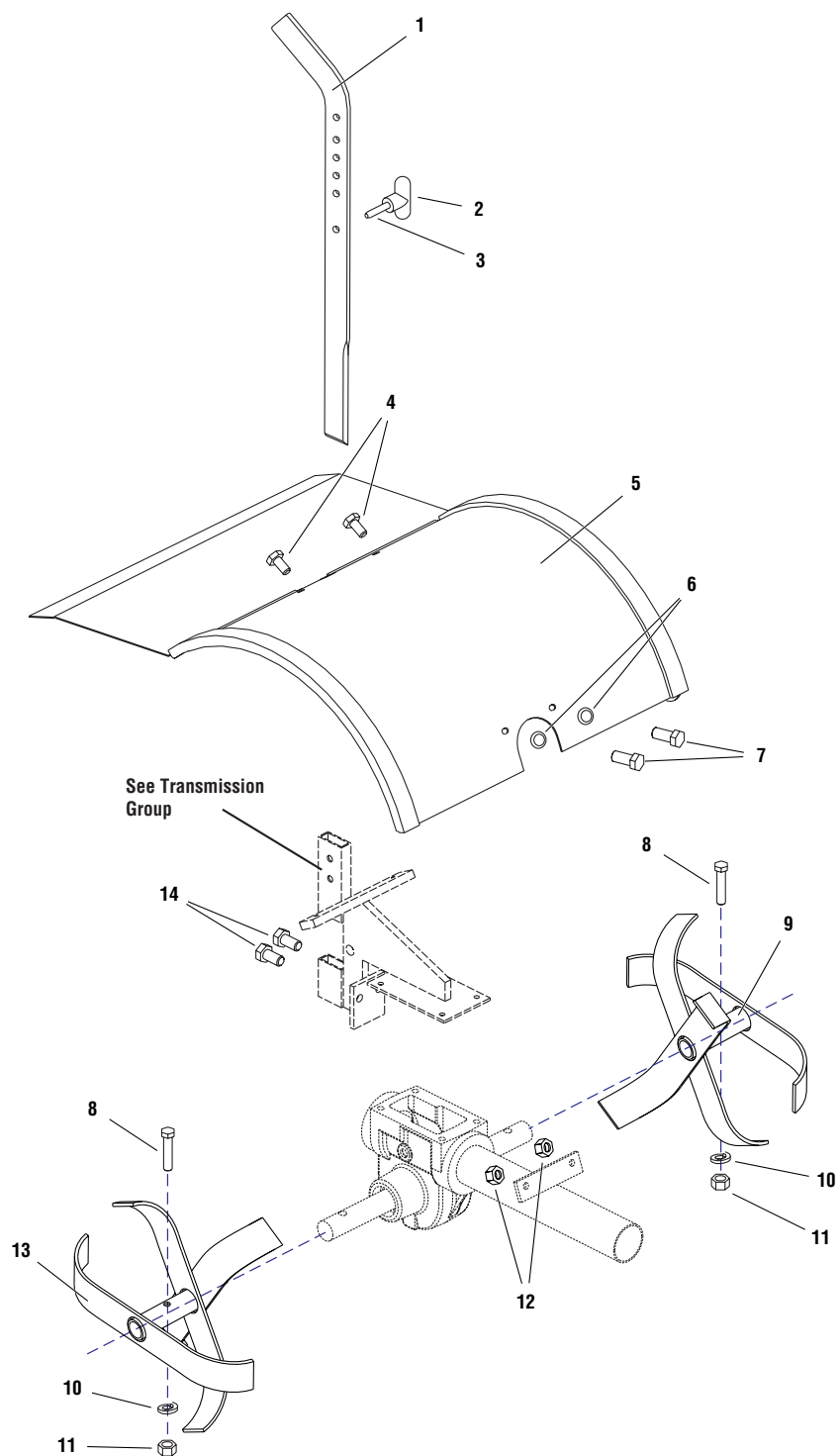
The above parts group applies to the following Mfg. Nos.:

1693847 5516RT, 5.5HP Rear Tine Tiller

Hood, Drag Stake & Tine Group

985819

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



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

1693847 5516RT, 5.5HP Rear Tine Tiller

Hood, Drag Stake & Tine Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1721510	1	LEVER, Depth Regulator RT
2	1716743	1	KNOB, T-Handle, Drag Stake
3	1716742	1	PIN, Detent 5/16" - 18 x 1"
4	1921958	2	CAPSCREW, Hex Head 1/4" - 20 x 1/2" G5
5	1722329	1	HOOD, Tiller, No Decal
6	1917356	2	LOCKWASHER, Spring 5/16"
7	1920787	2	CAPSCREW, Hex Head 5/16" - 18 x 1/2" G5
8	1921971	2	CAPSCREW, Hex Head 3/8" - 16 x 1-3/4" G5
9	1721513	1	TINE ASSEMBLY, LH
10	1916965	2	LOCKWASHER, Spring 3/8"
11	1916950	2	NUT, Hex 3/8" - 16NC, 2B
12	1935048	2	NUT, Hex Flange 5/16" - 18 Two, Way Lock GA
13	1721514	1	TINE ASSEMBLY, RH
14	1716701	2	BOLT, Hex Flange Head 5/16"-18 x 1/2"

Footnotes:

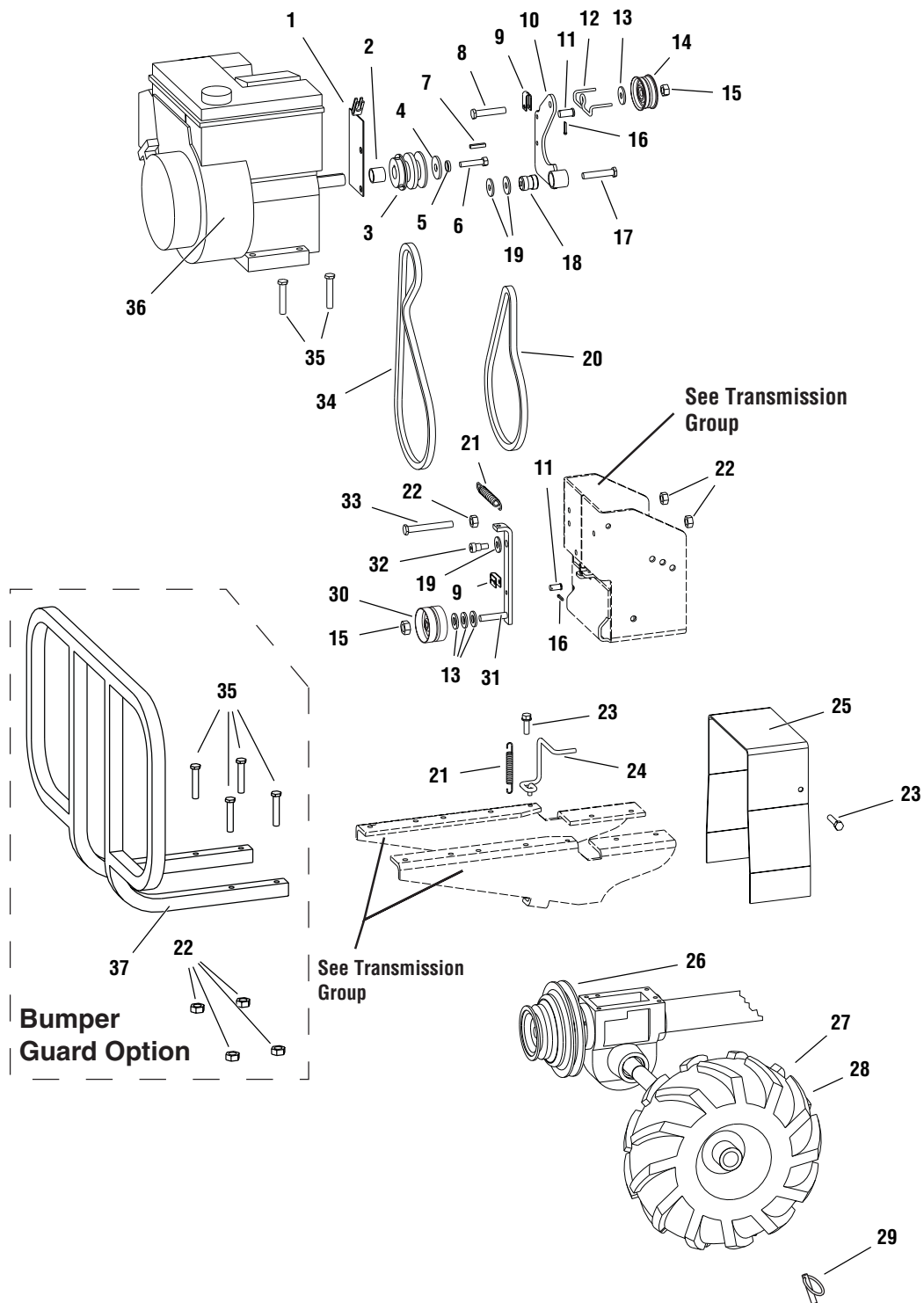
The above parts group applies to the following Mfg. Nos.:

1693847 5516RT, 5.5HP Rear Tine Tiller

Engine Mount, Belts & Wheels Group

985820

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use the standard hardware torque
specification chart.



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

1693847 5516RT, 5.5HP Rear Tine Tiller

Engine Mount, Belts & Wheels Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1722157	1	BRACKET, Engine
2	1722164	1	SPACER, Engine
3	1722158	1	PULLEY, Engine 2 Groove
4	1716770	1	WASHER
5	1917356	1	LOCKWASHER, Spring 5/16"
6	1921515	1	CAPSCREW, Hex Head 5/16" - 24 x 3/4" G5
7	905850	1	KEY, PARALLEL PLN 3/16" x 3/16 x 1-3/32"
8	1960345	1	CAPSCREW, Hex Head 3/8" - 24 x 2" G5
9	1716728	2	YOKE, Cable
10	1722159	1	ARM, Pivot
11	1716702	2	PIN, Link Forward/Reverse
12	1722162	1	GUIDE, Belt Reverse
13	1924940	4	WASHER, 3/8"
14	1722167	1	PULLEY, Idler Reverse
15	1916950	2	NUT, Hex 3/8" - 16NC, 2B
16	1716703	2	PIN, Cotter
17	1716760	1	BOLT, Hex Head 5/16" - 24 x 1-1/2"
18	1722160	1	PIVOT
19	1960044	3	WASHER, 5/16"
20	1716766	1	V-BELT, Forward
21	1716802	2	SPRING, Idler Arm
22	1935048	3	NUT, Hex Flange 5/16" - 18 Two, Way Lock GA
23	1716780	3	BOLT, Hex Flange Head 5/16" - 18 x 3/4"
24	1722161	1	GUIDE, Belt Forward
25	1722165	1	COVER, Belt
26	1722163	1	PULLEY, Transmission 2 Groove
27	1716772	1	WHEEL & TIRE ASSEMBLY TILLER, Left
28	1716774	1	WHEEL & TIRE ASSEMBLY TILLER, Right
29	1722332	2	PIN, Lock
30	1716803	1	PULLEY, Forward Idler
31	1722166	1	ARM, Idler Forward
32	1722168	1	SCREW, Hex Socket Shoulder 5/16" - 18 x 3/8"
33	1925690	1	CAPSCREW, Hex Head 5/16" - 18 x 3-1/2" G5
34	1722144	1	V-BELT, Reverse
35	1922127	4	CAPSCREW, Hex Head 5/16" - 18 x 1-3/4" G5
36	*	1	ENGINE, 5.5HP B&S INTEK - Engine Model 110412, Engine Type 0023-E1
37**	1721528	1	BUMPER, Guard

Footnotes:

* See your local Briggs & Stratton distributor for Parts & Service.

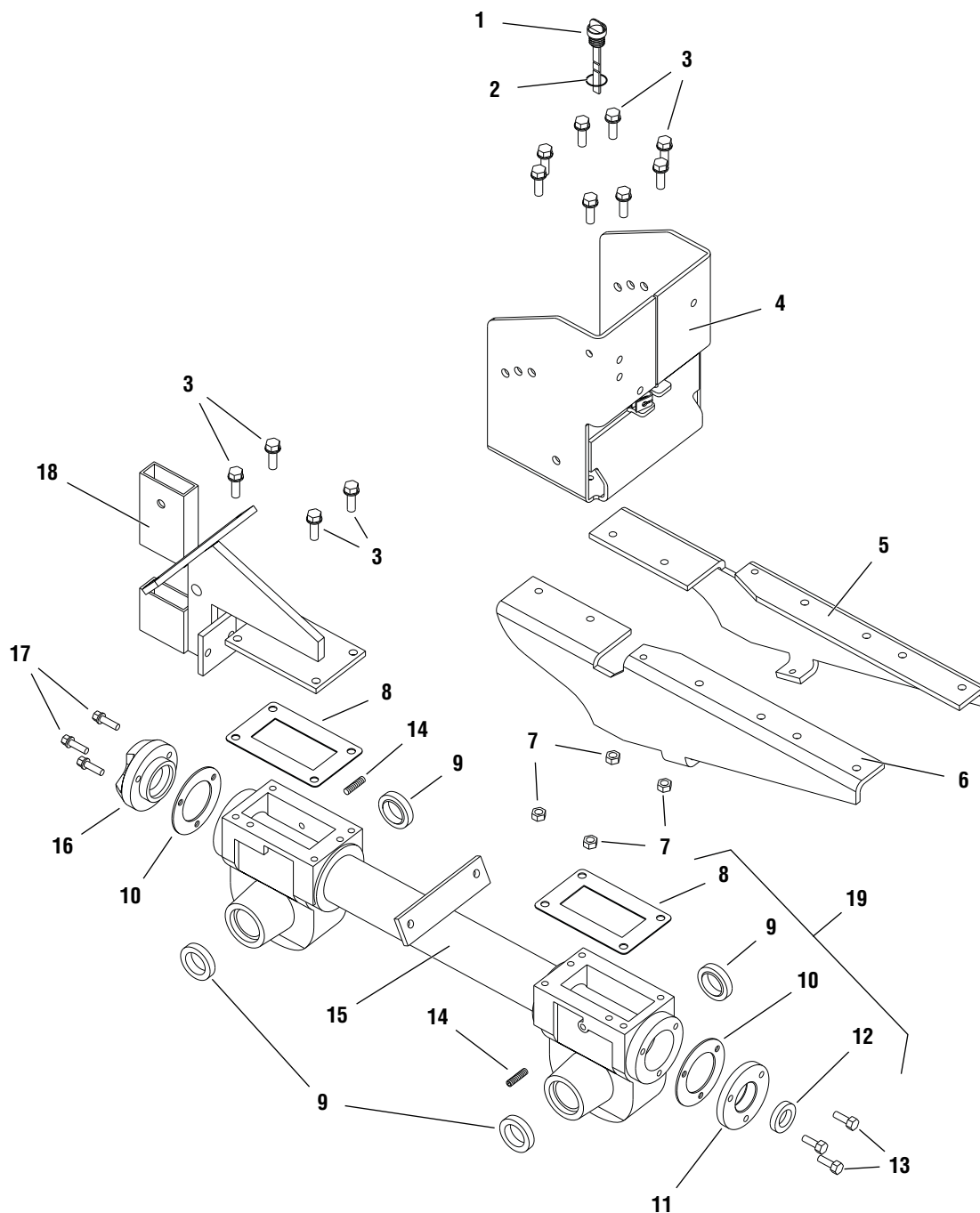
** The bumper guard is not standard with the 5.5HP tiller, but it is an available option, order the bumper guard (Ref# 37), 4 nuts (Ref# 22) and 4 capscrews (Ref# 35).

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

1693847 5516RT, 5.5HP Rear Tine Tiller

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

985822



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

1693847 5516RT, 5.5HP Rear Tine Tiller

Transmission Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1718882	1	DIPSTICK
2	1718883	1	O, RING, Dipstick
3	1716780	12	BOLT, Hex Flange Head 5/16" - 18 x 3/4"
4	1722327	1	COVER PLATE & MOUNT
5	1716753	1	BRACKET, Engine Mount LH
6	1716752	1	BRACKET, Engine Mount RH
7	1935048	4	NUT, Hex Flange 5/16" - 18 Two, Way Lock GA
8	1716789	2	GASKET, Housing & Transmission Cover
9	1716791	4	SEAL, Housing
10	1716792	2	GASKET, Bearing Cap Front/Rear
11	1716796	1	CAP, Rear Bearing
12	1716797	1	SEAL, Oil, Drive Shaft
13	1716798	3	BOLT, Hex Flange Head 1/4" - 20 x 3/4"
14	1716790	2	PLUG, Pipe Socket Head, 1/4" - 18 Oil Check
15	1722330	1	TRANSMISSION, Housing, Tiller Casting
15	1722332	1	TRANSMISSION ASSEMBLY, Complete
16	1716793	1	CAP, Rear Bearing
17	1716795	3	BOLT, Hex Flange Head 1/4" - 20 x 7/8"
18	1721511	1	BRACKET, Depth Regulator RT
19	1716799	1	GASKET KIT, Oil Seal (Includes Ref. 8, 9, 10, and 12)

Footnotes:

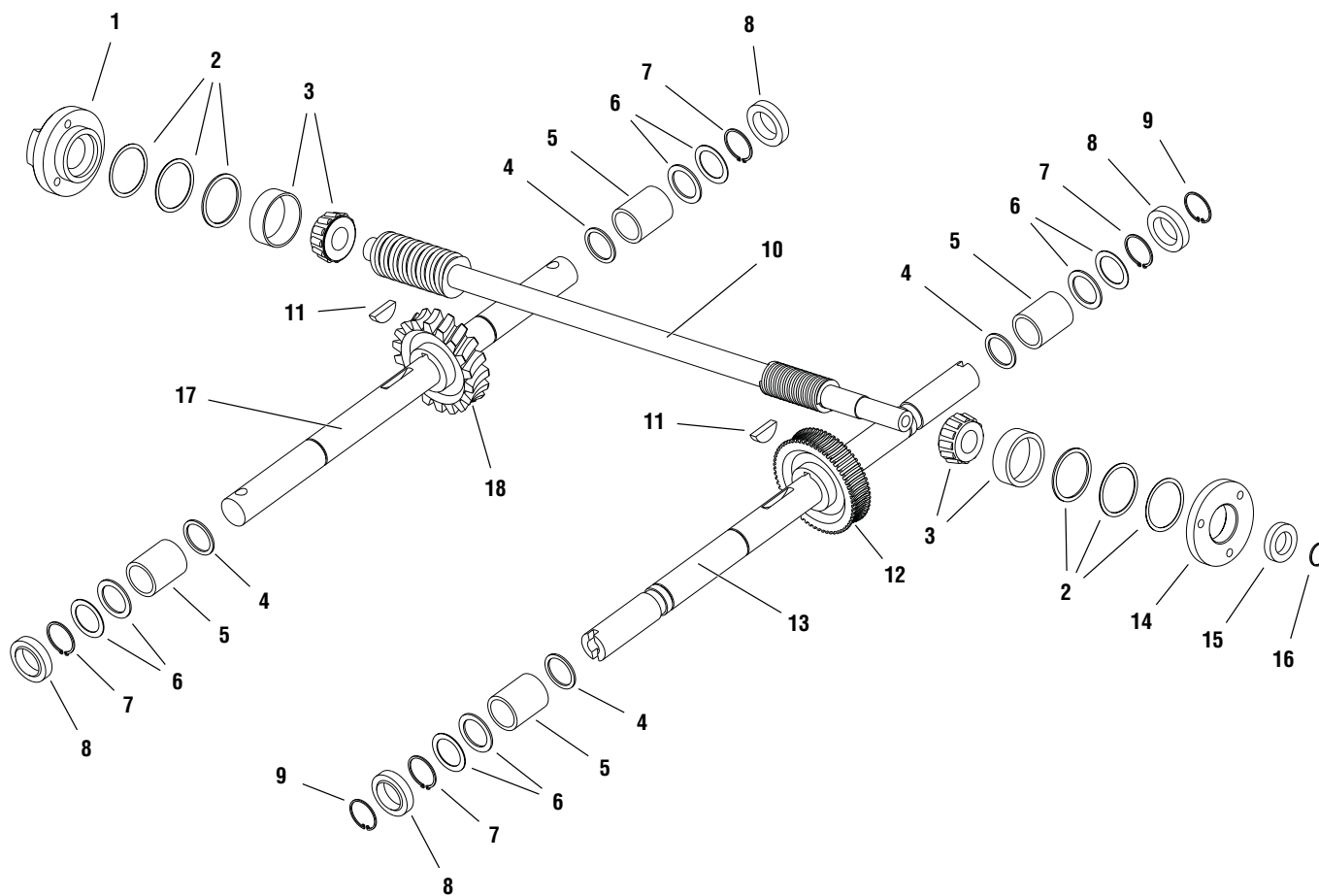
The above parts group applies to the following Mfg. Nos.:

1693847 5516RT, 5.5HP Rear Tine Tiller

Wheel and Tiller Shaft Group

985821

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



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

1693847 5516RT, 5.5HP Rear Tine Tiller

Wheel and Tiller Shaft Group

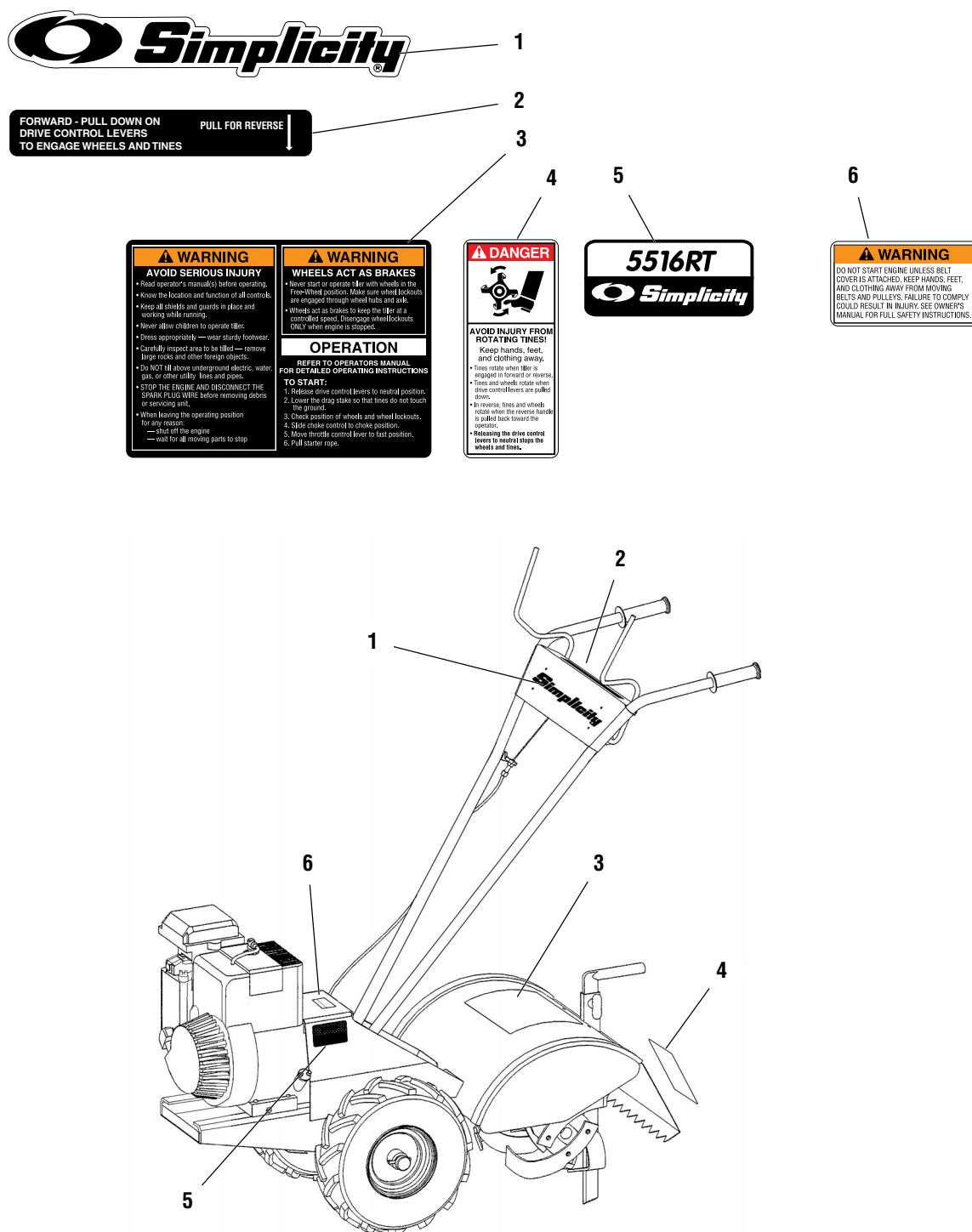
REF NO.	PART NO.	QTY.	DESCRIPTION
1	1716793	1	CAP, Rear Bearing
2	1716825	1	SHIM SET, Rear Bearing Cap
2	1716826	1	SHIM, 0.062 THK1-3/4" x OD1806 (As Required)
2	1716827	1	SHIM, 0.030 THK1-3/4" x OD1807 (As Required)
2	1716828	1	SHIM, 0.015 THK1-3/4" x OD1808 (As Required)
2	1716829	1	SHIM, 0.010 THK1-3/4" x OD1809 (As Required)
3	1716810	2	BEARING, Tapered (Cone & Race)
4	1716824	4	SPACER, 1" x 1-1/4"
5	1716816	4	BUSHING
6	1716815	4	SHIM SET, Axle Spacer
6	1716817	1	SHIM, 0.062 THK1-3/8" x OD1705 (As Required)
6	1716818	1	SHIM, 0.030 THK1-3/8" x OD1706 (As Required)
6	1716819	1	SHIM, 0.015 THK1-3/8" x OD1707 (As Required)
6	1716820	1	SHIM, 0.010 THK1-3/8" x OD1708 (As Required)
7	1716830	4	RING, Snap, Internal Retainer
8	1716791	4	SEAL, Housing
9	1716821	2	RING, Snap, External Retainer
10	1722333	1	DRIVE SHAFT, Main
11	1716813	2	KEY, Parallel Plane 1/4" x 1/4" x 1"
12	1716814	1	GEAR, Worm, Wheel Shaft
13	1716811	1	SHAFT ASSEMBLY, Wheel w/Lock Pin
14	1716796	1	CAP, Rear Bearing
15	1716797	1	SEAL, Oil, Drive Shaft
16	960164	1	WASHER, 5/8
17	1716811	1	SHAFT ASSEMBLY, Wheel w/Lock Pin
18	1716823	1	GEAR, Worm Shaft

Footnotes:

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

1693847 5516RT, 5.5HP Rear Tine Tiller

NOTE: Unless noted otherwise,
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specification chart.



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

1693847 5516RT, 5.5HP Rear Tine Tiller

Decal Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1722551	1	DECAL, Simplicity, w/Logo
2	1716734	1	DECAL, Console Forward/Reverse Instructions
3	1716747	1	DECAL, Hood, Operator Instructions
4	1716840	1	DECAL, Danger, Tine Hood
5	1722189	2	DECAL, Belt Cover
6	1716800	1	DECAL, Warning, Belt Cover

Footnotes:

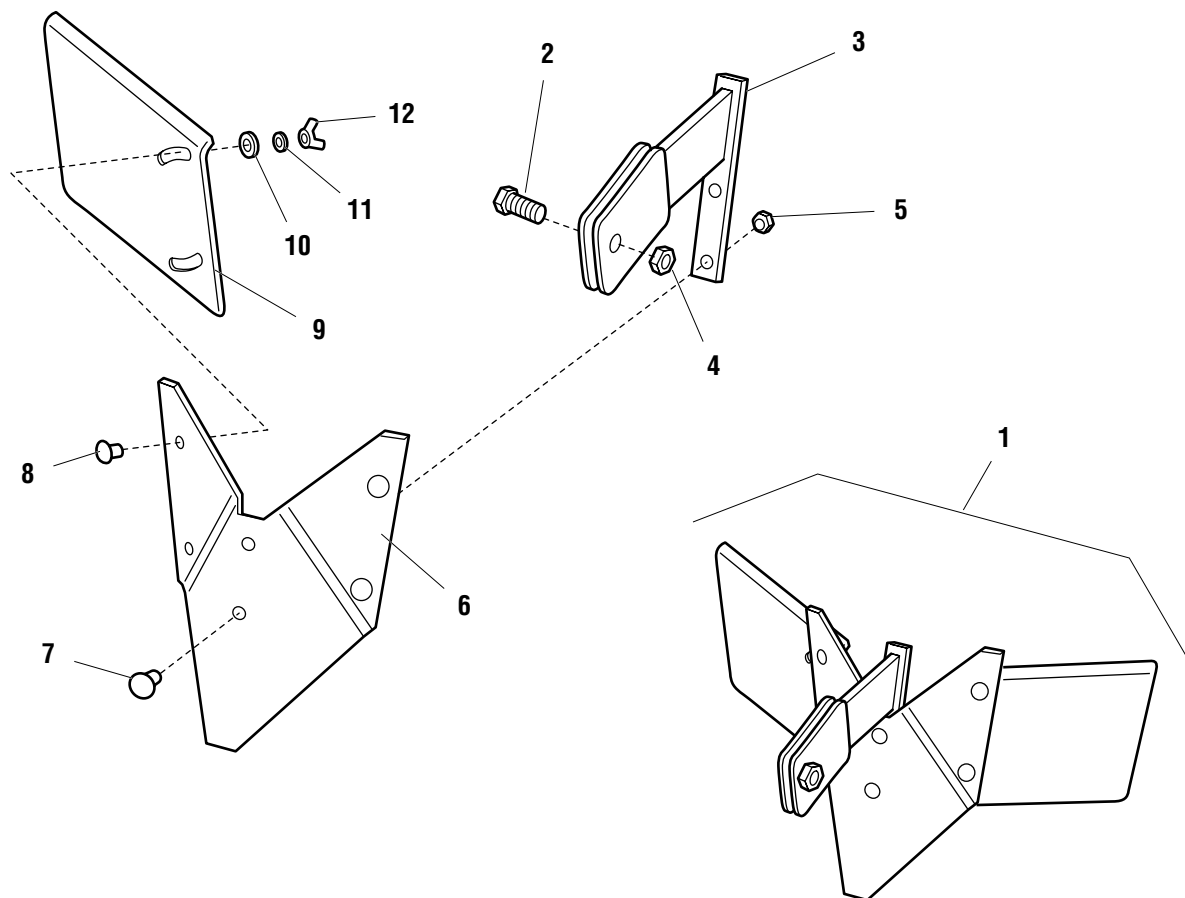
The above parts group applies to the following Mfg. Nos.:

1693847 5516RT, 5.5HP Rear Tine Tiller

Hiller/Furrower Attachment

1692878

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



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

1692878 Hiller/Furrower Attachment
1693847 5516RT, 5.5HP Rear Tine Tiller

Hiller/Furrower Attachment

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1686802	1	HILLER/FURROWER, Complete
2	*	1	BOLT, Socket Head, 3/8" - 16 x 1-1/4"
3	*	1	BRACKET
4	*	1	NUT, Hex, 3/8" - 16
5	*	2	NUT, Nyloc, 3/8" - 16
6	*	1	BLADE, Furrower
7	*	2	BOLT, Carriage, 3/8" - 16 x 1-1/2"
8	*	4	BOLT, Carriage, 5/16" - 18 x 3/4"
9	*	1	HILLER WING, Left
9	*	1	HILLER WING, Right (Not Shown)
10	*	4	WASHER, Flat, 5/16"
11	*	4	LOCKWASHER, External Tooth, 5/16"
12	*	4	WING NUT, 5/16" - 18

Footnotes:

* No servicable parts - components shown for reference only.

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

1692878 Hiller/Furrower Attachment
1693847 5516RT, 5.5HP Rear Tine Tiller

Hardware Identification & Torque Specifications

Common Hardware Types

Hex Head Capscrew



Washer



Lockwasher

Carriage Bolt



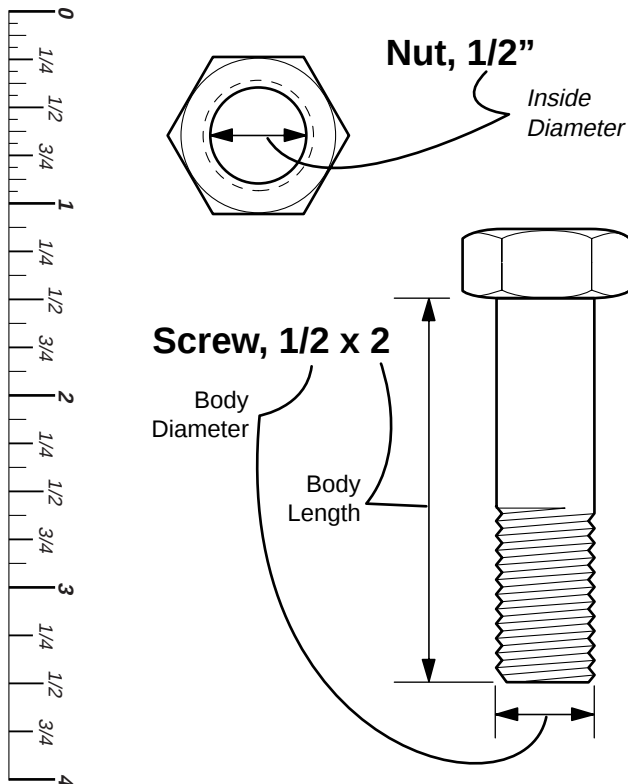
Hex Nut

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 represent the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 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

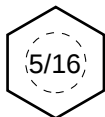
NOTES

- 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.

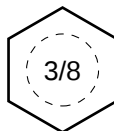
Wrench & Fastener Size Guide



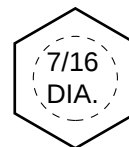
1/4" Bolt or Nut
Wrench—7/16"



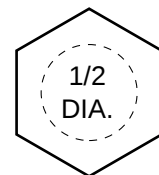
5/16" Bolt or Nut
Wrench—1/2"



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"