



## Parts Included in the Upgrade Kits

### Nylon Composite Flanged Bearings/Large RSM Kit

#### *31A-VibeKit 1 Toro: Vibe Kit 1 to Fit All Toro Models*

Dept. #	Part #	Description	Qty
37P	1127	Bearing Snap Ring	3
H	1183	3/8 - 16 Smooth Flange Nut	6
H	1402	Toro/Jac Motor Mount Stud	6
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	6110	1/4 Hi Collar Lock Washer	6
37P	7101	Bearing with Set Screw	3
37P	7150	Bearing Housing	3
31A	V7219-1	Flanged Bearing Assembly - Includes (18) 31A-V7219 RSM	6

#### *31A-VibeKit 1 Jac4/Ra: Vibe Kit 1 to Fit Jacobsen 3, 4 & Ransome Models*

Dept. #	Part #	Description	Qty
37P	1127	Bearing Snap Ring	3
H	1183	3/8 - 16 Smooth Flange Nut	6
H	1402	Toro/Jac Motor Mount Stud	6
H	1403	5/16 - 18 x 1 1/2 Motor Mount Stud	12
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	3147	5/16 - 18 Flange Nut	12
H	6110	1/4 Hi Collar Lock Washer	6
37P	7101	Bearing with Set Screw	3
37P	7150	Bearing Housing	3
31A	V7219-1	Flanged Bearing Assembly - Includes (18) 31A-V7219 RSM	6

#### *31A-VibeKit 1 JD/Jac5: Vibe Kit 1 to Fit John Deere & Jacobsen 5, 6 Models*

Dept. #	Part #	Description	Qty
37P	1127	Bearing Snap Ring	3
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	6110	1/4 Hi Collar Lock Washer	6
37P	7101	Bearing with Set Screw	3
37P	7150	Bearing Housing	3
31A	V7219-1	Flanged Bearing Assembly - Includes (18) 31A-V7219 RSM	6

### Solid Stainless Steel Front Roller

#### *31A-VibeKit 2: Vibe Kit 2 to Fit All Models*

Dept. #	Part #	Description	Qty
H	1010	3/8 Split Lock Washer	6
H	V1032	Bolt 3/8-24 x1	6
31P	V7206G	Front Roller End Caps with Grease Zerk	6
31P	V7208	Solid Front Roller Axle	3
31P	V7209	Solid Front Roller Tube	3
31P	V7210 NS	Solid Front Roller Bearings w/out Seals	6

## Select-A-Vibe™ Dial: Adjust Your Vibration

### *31A-VibeKit 3 Toro310: Vibe Kit 3 to Fit Toro GM3-3150 Models*

Dept. #	Part #	Description	Qty
H	1010	3/8 Split Lock Washer	6
H	1013	5/16 Split Lock Washer	18
37P	1014	Snap Ring for Shaft	18
37P	1023	Shaft Bearing	6
37P	1024	2" Shaft Pulley - Includes (3) H-6014 & (3) H-5087	3
37P	1127	Bearing Snap Ring	3
H	1140	5/16 - 18 x 3/4 Flat Head Socket Screw	6
H	1183	3/8 - 16 Smooth Flange Nut	6
H	1402	Toro/Jac Motor Mount Stud	6
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	6110	1/4 Hi Collar Lock Washer	6
37P	7100	5" Pulley - Includes (3) H-6012 & (3) H-1025	3
37P	7101	Bearing with Set Screw	3
H	7129	5/16 - 18 x 3 Hex Bolt	12
H	7410	Hub/Shaft Seal	6
37P	7150	Bearing Housing	3
H	V1032	Bolt 3/8-24 x1	6
31P	V7206G	Front Roller End Caps with grease zerk	6
31P	V7208	Solid Front Roller Axle	3
31P	V7209	Solid Front Roller Tube	3
31P	V7210 NS	Solid Front Roller Bearings w/out seals	6
31A	V7219-1	Flanged Bearing Assembly - <i>Includes (18) 31A-V7219 RSM</i>	6
H	V8000	5/16 - 18 x 3/4 Socket Head Cap Screw	6
H	V8001	5/16 Hi Collar Lock Washer	6
H	V8002	3/8 - 16 x 1/4 Flat Point Set Screw	6
H	V8003	10 - 32 x 3/16 Flat Point Set Screw	6
H	V8004	5/16 - 18 x 1/2 Hex Bolt Grd 5	6
H	V8005	Ball Spring Plunger	6
31A	VR-001-1	Vibe Shaft Assembly Only	3
31P	VR-002	Eccentric Shaft cover	3
31P	VR-003A	Variable Outboard Eccentric Weight A	3
31P	VR-003B	Variable Outboard Eccentric Weight B	3
31P	VR-004	Variable Inboard Eccentric Weight	6
31P	VR7002-1	Black Belt Guard	3

*31A-VibeKit 3 Toro325: Vibe Kit 3 to Fit Toro 3250 Models*

Item #	Part #	Description	Qty
H	1010	3/8 Split Lock Washer	6
H	1013	5/16 Split Lock Washer	18
37P	1014	Snap Ring for Shaft	18
37P	1023	Shaft Bearing	6
37P	1024	2 " Shaft Pulley - Includes (3) H-5087 & (3) 6014	3
37P	1127	Bearing Snap Ring	3
H	1140	5/16 - 18 x 3/4 Flat Head Socket Screw	6
H	1183	3/8 - 16 Smooth Flange Nut	6
H	1402	Toro/Jac Motor Mount Stud	6
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	6110	1/4 Hi Collar Lock Washer	6
H	7029	5/16 - 18 x 3 1/4 Hex Bolt	12
37P	7100	5" Pulley - Includes (3) H-1025 & (3) H-6012	3
37P	7101	Bearing with Set Screw	3
H	7410	Hub/Shaft Seal	6
37P	7150	Bearing Housing	3
H	V1032	Bolt 3/8-24 x1	6
31P	V7206G	Front Roller End Caps with grease zerk	6
31P	V7208	Solid Front Roller Axle	3
31P	V7209	Solid Front Roller Tube	3
31P	V7210 NS	Solid Front Roller Bearings w/out seals	6
31A	V7219-1	Flanged Bearing Assembly - Includes (18) 31A-V7219 RSM	6
H	V8000	5/16 - 18 x 3/4 Socket Head Cap Screw	6
H	V8001	5/16 Hi Collar Lock Washer	6
H	V8002	3/8 - 16 x 1/4 Flat Point Set Screw	6
H	V8003	10 - 32 x 3/16 Flat Point Set Screw	6
H	V8004	5/16 - 18 x 1/2 Hex Bolt Grd 5	6
H	V8005	Ball Spring Plunger	6
31A	VR-001-1	Vibe Shaft Assembly Only	3
31P	VR-002	Eccentric Shaft cover	3
31P	VR-003A	Variable Outboard Eccentric Weight A	3
31P	VR-003B	Variable Outboard Eccentric Weight B	3
31P	VR-004	Variable Inboard Eccentric Weight	6
31P	VR7002-1	Black Belt Guard	3
31P	VR7CWB	Black Counter Weight	3
30S	Manual Vibe V	Vibe V Owner/Operator Manual	1

*31A-VibeKit 3 ToroJa4/RA: Vibe Kit 3 to Fit Jacobsen 3, 4 & Ransome Models*

Dept. #	Part #	Description	Qty
H	1010	3/8 Split Lock Washer	6
H	1013	5/16 Split Lock Washer	18
37P	1014	Snap Ring for Shaft	3
37P	1023	Shaft Bearing	6
37P	1024	2" Shaft Pulley - <i>Includes (3) H-5087 &amp; (3) H-6014</i>	3
37P	1127	Bearing Snap Ring	3
H	1140	5/16 - 18 x 3/4 Flat Head Socket Screw	6
H	1183	3/8 - 16 Smooth Flange Nut	6
H	1402	Toro/Jac Motor Mount Stud	6
H	1403	5/16 - 18 x 1 1/2 Motor Mount Stud	12
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	3147	5/16 - 18 Flange Nut	12
H	6110	1/4 Hi Collar Lock Waasher	6
37P	7100	5" Pulley - <i>Includes (3) H-1025 &amp; (3) H-6012</i>	3
37P	7101	Bearing with Set Screw	3
H	7129	5/16 - 18 x 3 Hex Bolt	12
H	7410	Hub/Shaft Seal	6
37P	7150	Bearing Housing	3
H	V1032	Bolt 3/8-24 x1	6
31P	V7206G	Front Roller End Caps with grease zerk	6
31P	V7208	Solid Front Roller Axle	3
31P	V7209	Solid Front Roller Tube	3
31P	V7210 NS	Solid Front Roller Bearings w/out seals	6
31A	V7219-1	Flanged Bearing Assembly - <i>Includes (18) 31A-V7219 RSM</i>	6
H	V8000	5/16 - 18 x 3/4 Socket Head Cap Screw	6
H	V8001	5/16 Hi Collar Lock Washer	6
H	V8002	3/8 - 16 x 1/4 Flat Point Set Screw	6
H	V8003	10 - 32 x 3/16 Flat Point Set Screw	6
H	V8004	5/16 - 18 x 1/2 Hex Bolt Grd 5	6
H	V8005	Ball Spring Plunger	6
31A	VR-001-1	Vibe Shaft Assembly Only	3
31P	VR-002	Eccentric Shaft cover	3
31P	VR-003A	Variable Outboard Eccentric Weight A	3
31P	VR-003B	Variable Outboard Eccentric Weight B	3
31P	VR-004	Variable Inboard Eccentric Weight	6
31P	VR7002-1	Black Belt Guard	3
30S	Manual Vibe V	Vibe V Owner/Operator Manual	1

*31A-VibeKit 3 JD/Jac5: Vibe Kit 3 to Fit John Deere & Jacobsen 5 & 6 Models*

Dept. #	Part #	Description	Qty
H	1010	3/8 Split Lock Washer	6
H	1013	5/16 Split Lock Washer	18
37P	1014	Snap Ring for Shaft	3
37P	1023	Shaft Bearing	6
37P	1024	2" Shaft Pulley - <i>Includes (3) H-5087 &amp; (3) H-6014</i>	3
37P	1127	Bearing Snap Ring	3
H	1140	5/16 - 18 x 3/4 Flat Head Socket Screw	6
H	1146	5/16 - 18 x 1 3/4 FHSC Black Oxide	6
H	1183	3/8 - 16 Smooth Flange Nut	6
H	1402	Toro/Jac Motor Mount Stud	6
H	1505	1/4 - 20 x 3/4 Socket Cap Screw	6
H	6110	1/4 Hi Collar Lock Waasher	6
H	7029	5/16 - 18 x 3 1/4 Hex Bolt	12
37P	7100	5" Pulley - <i>Includes (3) H-1025 &amp; (3) 6012</i>	3
37P	7101	Bearing with Set Screw	3
H	7410	Hub/Shaft Seal	6
37P	7150	Bearing Housing	3
H	V1032	Bolt 3/8-24 x1	6
31P	V7206G	Front Roller End Caps with grease zerk	6
31P	V7208	Solid Front Roller Axle	3
31P	V7209	Solid Front Roller Tube	3
31P	V7210 NS	Solid Front Roller Bearings w/out seals	6
31A	V7219-1	Flanged Bearing Assembly - <i>Includes (18) 31A-V7219 RSM</i>	6
H	V8000	5/16 - 18 x 3/4 Socket Head Cap Screw	6
H	V8001	5/16 Hi Collar Lock Washer	6
H	V8002	3/8 - 16 x 1/4 Flat Point Set Screw	6
H	V8003	10 - 32 x 3/16 Flat Point Set Screw	6
H	V8004	5/16 - 18 x 1/2 Hex Bolt Grd 5	6
H	V8005	Ball Spring Plunger	6
31A	VR-001-1	Vibe Shaft Assembly Only	3
31P	VR-002	Eccentric Shaft cover	3
31P	VR-003A	Variable Outboard Eccentric Weight A	3
31P	VR-003B	Variable Outboard Eccentric Weight B	3
31P	VR-004	Variable Inboard Eccentric Weight	6
31P	VR7002-1	Black Belt Guard	3
31P	VR7CWB	Black Counter Weight	3
30S	Manual Vibe V	Vibe V Owner/Operator Manual	1

# Upgrade Kit Installation Instructions

## Nylon Composite Flanged Bearings/Large RSM Kit (Vibe Kit 1)

1. Turn the True-Surface® Roller over, so it is resting on the hood with the roller tube (30A-09-16) facing upward. *Note: It will be easier to work on the unit if the lifting hardware is removed.*
2. Remove the belt guard (31P-VR7002-1) from the True-Surface® Roller.
3. Remove the drive belt (37P-7121).
4. Remove the 5" pulley (37P-100) and the 2" pulley (37P-1024).
5. Remove the two 5/16" bolts (H-1001) keeping the flange mounted drive shaft bearing (37P-7102) attached.
6. Remove the three 1/4" bolts (H-1003) attaching the hood to the endplate. Then remove the two 3/8" bolts (H-1100) that attach the endplate to the frame.
7. Remove the 5/16" bolt (H-V1032) attaching the axle to the endplate.
8. Remove the endplate by sliding it away from the frame and the roller tube.
9. Remove the roller tube from the unit.
10. Loosen the set screws on the bearing (37P-7101) that secure the spline coupler (37P-7001 or 7001JD) into the bearing housing (37P-7150), and then remove the spline shaft.
11. Remove the bearing housing (37P-7150) and then replace it with the new notched bearing housing (37P-7150) included in the kit. *Note: The new bearing housing has two scalloped relief points. Make sure one is lined up, so the new flanged bearing rubber shock mount (37P-V7219RSM) will not touch the bearing housing.*
12. Remove the current flange bearings (30A-1016-2) from the endplates by removing the 5/16" serrated flange nuts on the outside of the endplate.
13. Install the new flanged bearings (31A-V7219-1), mounting them to the endplate using the new 5/16" serrated flange nuts included. Remember, when mounting the flange, don't over-tighten the flange nuts, which could twist the rubber shock mounts (31A-V7219RSM). Also mount the bearings so the grease fittings can be easily accessed.
14. Reverse steps 10 through 1. When you have the unit rebuilt completely, grease the new bearings using a food-grade grease.
15. Repeat this process for the remaining two units.

## Solid Stainless Steel Front Roller (Vibe Kit 2)

1. Remove the 1/4" bolt that attaches the axle stabilizer (37P-7009) to the frame.
2. Remove the two 5/16" bolts that hold the axle (37P-7006) in place, making the removal of the current caster bar assembly from the unit possible.
3. Using a 3/8" drill bit, drill out the current two axle bolt holes for the new 3/8" bolts (H-V1032) that will hold in the new solid front roller (31P-V7209).
4. Install the new solid front roller (31P-V7209) with the 3/8" bolts (H-V1032) included.
5. Repeat the process for the remaining two units.

# Upgrade Kit Installation Instructions Continued

## Select-A-Vibe™ Dial (Vibe Kit 3)

1. Turn the True-Surface® Roller over so it is resting on the hood with the roller tube (30A-09-16) facing up.  
Note: It will be easier to work on the unit if all the lifting hardware is removed
2. Remove the ¼" bolt that attaches the axle stabilizer (37P-7009) to the frame. Then remove the two 5/16" bolts that hold the axle in place, allowing the complete removal of the current wheel bar assembly.
3. With a 3/8" drill bit, drill out the two holes through which the 5/16" bolts go to hold the wheel bar axle in place.
4. Remove the belt guard (31P-VR7002-1) from the unit.
5. Remove the drive belt (37P-7121).
6. Remove the 5" pulley (37P-7100) and the 2" (37P-1024) pulley.
7. Remove the two 5/16" bolts (H-1001) that attach the bearing (37P-7102).
8. Remove the three ¼" bolts (H-1003) attaching the hood (37P-7003R/G) to the endplate (37P-7001R/G). Then remove the two 3/8" bolts (H-1100) that attach the endplate to the frame (37P-7004).
9. Remove the endplate by sliding it away from the frame and roller tube (30A-09-16).
10. Remove the roller tube from the unit. You will need to replace the current eccentric shaft with the new vibe shaft (31A-VR-001-1) included.
  - a. Remove the non-drive side hub (30A-09-002N). Using a large punch or small rod drive the hub plug out of the hub.
  - b. Remove the drive side hub (30A-09-001).
  - c. Press your current eccentric shaft out of the roller tube, or use a rubber mallet to drive out the shaft from the pulley end of the shaft.
  - d. Remove the remaining shaft bearing (37P-1023) from the roller tube and replace it with the new shaft bearing (37P-1023) included in the upgrade kit.
  - e. Install the new vibe shaft (31A-VR-001-1), inserting the longer end of the shaft in first, either by pressing it into place or use a rubber mallet to drive it into place. Install the snap ring (37P-1014) included to keep the bearing (37P-1023) from sliding on the shaft. Make sure the bearing did not move itself while you were installing shaft. If it did move, use a rubber mallet to tap the shaft and bearing back into place.
  - f. Install one of your hubs (30A-09-001) and the new seals.
  - g. Install the other bearing (37P-1023) by sliding it over the end of the shaft and then using the four 5/16" x 1-3/4" flat head screws included and your other hub carefully seat the bearing into place. Once the bearing is in place, remove the hub, and install the snap ring that keeps the bearing in place on the shaft.
  - h. Install the other hub with the 5/16" x 3/4" flat head screws and then install the new seal (H-7410).
  - i. When the rest of the upgrade is completed, the tube is now ready to be installed.
11. Loosen the set screws on the bearing (37P-7101) that secures the spline coupler (37P-7001) in the bearing housing (37P-7150), and then remove the spline shaft (37P-7007).
12. Remove the bearing housing (37P-7150), and replace it with the new bearing housing included in the kit.  
Note: The new bearing housing has two scalloped relief points in it. Make sure one of them lined up so the new flange bearings rubber shock mounts (31A-V7219RSM) will not touch the bearing housing.
13. Remove the current flange bearings (30A-1016-2) from the endplates by removing the 5/16" serrated flange nuts on the outside of the endplate.
14. Install the new flanged bearings (31A-V7219-1) by mounting them to the endplate (37P-7011R/G) using the new 5/16" serrated flange nuts included. Remember, when mounting the flange, do not over tighten the flange nuts and twist the rubber mounts (see page 12). Also, mount the bearings so the grease fittings can be easily accessed.



15. Reverse steps 11 through 7.
16. Install the new solid front roller (31P-V7209) using the 3/8" bolts (H-V1032) and the lock washers (H-1010) included with the roller. The bolts will go through the holes drilled out earlier and will thread into the solid front roller axle.
17. Install the short key and 2" pulley. Then install the snap ring included in the groove closest to the pulley. Pull the pulley up tight to this snap ring, and then tighten the set screw.
18. Lightly grease the dimpled area on the shaft, then install the outboard eccentric weight marked "A" (31P-VR-003A) – line up the roman numeral V with the line on the end of the shaft. Install another snap ring in the last groove on the shaft. You should be able to leave the ball spring plunger in its set position to install the weight. The ball spring plunger is the screw that is in line with number V. Now, tighten the set screw opposite the ball spring plunger.
19. Install your new key (H-1025) and 5" pulley (37P-7100), line it up with your 2" pulley (37P-1024), and tighten the set screw (H-6012) – when lined up with the 2" pulley, the hub of the 5" pulley will probably rest against the bearing (37P-7102). Next, reinstall the belt (37P-7121).
20. Install the black belt guard (31P-VR7002-1) included with the kit.
21. On the other end of the shaft, install a snap ring (37P-1014) in the groove closest to the hub. Lightly grease the dimpled area of the shaft, then install the outboard eccentric weight (31P-VR-003B) marked "B". Line up roman numeral V with the line on the end of the shaft, then tighten the set screw opposite the ball spring plunger. Install another snap ring in the last groove on the shaft.
22. Install the eccentric shaft cover (31P-VR-002) included with the two 5/16" x 1/2" screws (H-V8004) and lock washers (H-1013) included.
23. Repeat this process for the remaining two units.