GRAVELY, OPERATOR'S MANUAL

NAME: 40 INCH & 50 INCH ROTARY MOWER

PART NUMBER(S): 40" - 31217

50" - 31220



The 40 Inch and the 50 Inch Rotary Mowers are for use with the Gravely 5000 Series Tractors and the 8000 Series Tractors. To connect either mower to the 5000 Series Tractor a front mount kit, part number 15569 is needed.

All reference to left side, right side, front and rear are given from the operator's position.

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NOTE: This warning symbol indicates that there is danger to persons or equipment.

Read these warnings carefully and follow them.

This section gives warnings for you about operating and doing maintenance on this equipment.

Using this equipment the wrong way can cause injury to persons and damage to the equipment. Persons operating or doing maintenance on this equipment must read this Operator's Manual and follow the instructions.

It is important to understand that this Operator's Manual and other Gravely instruction books do not list every possible danger. It is not possible for Gravely to know and tell of all the dangers in operating and doing maintenance on the equipment.

The purchaser must give these instructions to the persons operating and doing maintenance on this equipment. The purchaser must get the operator and person doing maintenance on this equipment to use eye and foot protection.

1.1 INSTRUCTIONS BEFORE OPERATION

- Read the tractor and the attachment Operator's Manuals carefully before operating or doing maintenance.
- Learn the location and the function of all the tractor and the attachment controls.
- 3. Know how to use the controls to stop the tractor and the attachment quickly.
- 4. Never permit children to operate or ride on the tractor or the attachment.
- 5. Use caution with gasoline. Gasoline is very flammable. Keep gasoline in a clean and tight container. Keep gasoline away from fire or hot items. Never put gasoline in the fuel tank while the engine is running or hot. Clean any leakage of gasoline from the tractor before starting the engine.

1.2 PREPARATION FOR OPERATION

- Check the area of operation and remove all material that will be thrown by the mower.
- 2. Make sure all shields and guards are in the correct position before operating.
- 3. Wear strong shoes. Wear clothing that is not loose. Wear eye protection.

- Before starting the engine, put the direction control lever in the "NEUTRAL" position and the "PTO" control in the "OUT" position.
- 5. Keep the tractor and the attachment in good operating condition. Do the maintenance as shown in the Operator's Manual.
- Do not operate the tractor where the area of operation is too dark for the operator to see.
- Never operate the tractor or the attachment when there is damage to any part or when any part is not in the correct position. Replace all parts that are damaged or missing before operating.

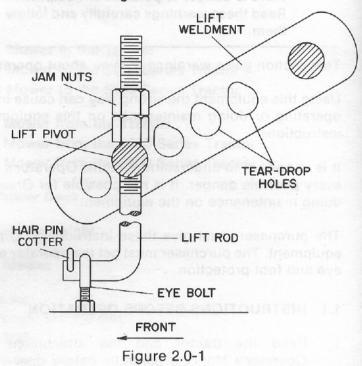
1.3 OPERATION

- Keep away from moving parts.
- Keep all persons and animals away from the area of operation.
- Do not let persons ride on the tractor or the attachment.
- When operating on slopes, use a slow speed and engage the direction control lever slowly.

- When operating on slopes, go across the slope when using a two wheel tractor. Go up and down the slope when using a four wheel tractor.
- Always look for and keep away from holes and other hazards.
- Use caution when moving backwards. Look for persons and hazards in the way.
- 8. After hitting an item, stop the tractor and the engine. Check for damage. If there is damage, make repairs before restarting.
- 9. Operate the equipment only when in the operator's position.
- Before leaving the tractor, put the PTO control in the "OUT" position. Lower the attachment to the ground. Turn the ignition switch to the "OFF" position and remove the ignition key.
- 11. If there is a sudden change in the sound or vibration of the tractor or the attachment, stop the tractor and check for damage. If there is damage, make repairs before operating.
- 12. Never start and run the engine inside a building except to move the equipment outside. Exhaust fumes are dangerous.
- Always follow traffic laws while going on or near a road.
- 14. Go slow on surfaces where the tractor can slide.
- 15. Before leaving the operator's position to make adjustments or to do maintenance, put the PTO control lever in the "OUT" position. Turn the ignition switch to the "OFF" position. Wait until the engine and moving parts have stopped.
- 2.0 HOW TO CONNECT THE MOWER TO THE TRACTOR

2.1 HOW TO CONNECT THE MOWER TO THE 8000 SERIES TRACTOR

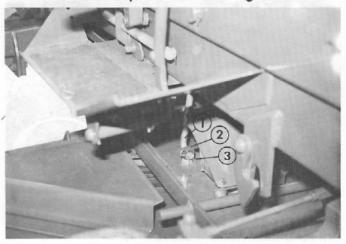
1. Install the lift rod on the lift of the tractor as shown in figure 2.0-1.



NOTE: If the mower is to be connected to the 8000 Series Commercial tractor that has the long frame, use the first hole from the end of the lift. All other 8000 Series tractors, use the second hole from the end of the lift.

- Put multi-purpose grease on the square shaft of the universal joint. Put the square shaft into the tube of the universal joint that is fastened to the gear box of the mower.
- Put the height adjustment lever on the mower in the lowest cutting height position.
- 4. Put the tractor in position with the front wheels of the tractor behind the mower.
- 5. Get assistance and roll the front of the tractor over the mower deck.
- 6. Put multi-purpose grease on the PTO shaft of the tractor.

- 7. Pull the locking collar on the universal joint towards the universal joint and hold it. If the universal joint has the locking collar that twists, twist the locking collar in the direction of the arrows and hold it. Slide the locking collar half-way on the PTO shaft and release the locking collar. Push the locking collar on the PTO shaft until it locks in position.
- 8. Put the attachment lift on the tractor in the lowest position.
- Put the end of the lift rod in the eye bolt on the mower. Fasten the lift rod in position with the hair pin cotter. See figure 2.0-2.



- 1 Lift Rod
- 2 Eye Bolt
- 3 Hair Pin Cotter

Figure 2.0-2

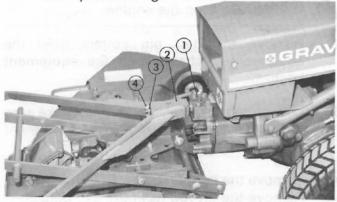
10. Open the equipment latches on the tractor. Use the attachment lift on the tractor to raise the mower until the pivot arm is in position in the equipment latches. Close the equipment latches and install the hair pin cotters. See figure 2.0-3.



2 - Pivot Arm 3 - Hair Pin Cotter Figure 2.0-3

2.2 HOW TO CONNECT THE MOWER TO THE 5000 SERIES TRACTOR

- 1. Put multi-purpose grease on the quick hitch pin.
- Put the quick hitch pin in the pivot support of the front mount. Install the washer and the "klik" pin. See figure 2.0-4.



- 1 Quick Hitch Pin
- 2 Pivot Support
- 3 Washer
- 4 "Klik" Pin

Figure 2.0-4

- Put multi-purpose grease on the square shaft of the universal joint. Put the square shaft into the tube of the universal joint that is fastened to the gear box of the mower.
- 4. Pull the locking collar on the universal joint towards the universal joint and hold it. If the universal joint has the locking collar that twists, twist the locking collar in the direction of the arrows and hold it. Slide the locking collar half-way on the PTO shaft and release the locking collar. Push the locking collar on the PTO shaft until it locks in position. See figure 2.0-5.



- 1 Tube
- 2 Square Shaft
- 3 Locking Collar

Figure 2.0-5

3.0 HOW TO REMOVE THE MOWER FROM THE TRACTOR

3.1 HOW TO REMOVE THE MOWER FROM THE 8000 SERIES TRACTOR

1. Use the attachment lift on the tractor to raise the mower to the raised position.



WARNING: Stop the engine

- 2. Remove the hair pin cotters from the equipment latches. Open the equipment latches.
- Lower the mower to the ground. Make sure the pivot arm is released from the equipment latches.
- 4. Remove the hair pin cotter from the lift rod. Remove the lift rod from the eye bolt.
- 5. Pull the locking collar on the universal joint towards the universal joint and pull the universal joint from the PTO shaft of the tractor. If the universal joint has the locking collar that twists, twist the locking collar in the direction of the arrows and pull the universal joint from the PTO shaft of the tractor.
- 6. Get assistance and roll the front of the tractor over the mower deck.
- 7. Remove the lift rod from the lift on the tractor. Connect the lift rod to the eye bolt on the mower and install the hair pin cotter.

3.2 HOW TO REMOVE THE MOWER FROM THE 5000 SERIES TRACTOR



WARNING: Stop the engine.

- Remove the "klik" pin and the washer from the quick hitch pin.
- Lower the tractor stand to keep the rear of the tractor from falling to the ground when the mower is removed.
- 3. Pull the mower forward to remove the pivot support from the quick hitch pin.
- 4. Install the "klik" pin and the washer on the quick hitch pin,

4.0 HOW TO ADJUST THE MOWER DECK

The adjusting procedure is shown with the mower connected to the 5000 Series tractor. The adjusting procedure is the same when the mower is connected to the 8000 Series tractor.

- Put the tractor and mower on a surface that is level. Stop the engine. (8000 Series tractor, lower the mower to the ground.)
- 2. Loosen the adjusting cam bolts on both sides of the pivot arm. See figure 4.0-1.



- 1 Adjusting Cam
- 2 Height Adjustment Lever

Figure 4.0-1

- 3. Put the height adjustment lever in the fourth notch from the lowest height position.
- Measure the distance from the bottom of the mower deck to the ground on each side at the rear of the mower.
- 5. Put blocks under each side of the mower deck at the front of the mower that measures 1/8" (3.17 mm) more than the measurement at the rear of the mower deck.
- Push the front of the adjusting cams down tight against the axle pivot. Tighten the adjusting cam bolts on both pivot arms. See figure 4.0-1. Remove the blocks from under the mower deck.

5.0 HOW TO ADJUST THE CUTTING HEIGHT

The cutting height is adjusted by moving the height adjustment lever. See figure 4.0-1.

To raise the cutting height, pull the height adjustment lever from the notch and move the lever toward the rear.

To lower the cutting height, pull the height adjustment lever from the notch and move the lever toward the front.

NOTE: Each notch will raise or lower the cutting height 1/2" (1.27 cm).

6.0 HOW TO OPERATE THE MOWER

Read this Operator's Manual and the Operator's Manual for the tractor before operating.



WARNING: Travel at a slow speed the first time you use the tractor and the mower.

- Put the height adjustment lever in the fourth notch from the lowest cutting height position.
- Start the engine of the tractor. Wait until the engine is running smoothly before operating.
- 3. Move the throttle lever the the "FAST" position.
- 4. Put the direction control lever in the forward position and mow a distance of ten feet (3 m). Stop the tractor, put the PTO in the "OFF" position and turn the ignition switch to the "OFF" position.
- Check to see if the mower is cutting the grass to the needed height. If the cutting height needs adjusting, follow the procedure shown in section 5.0.
- After you know how to operate the mower, select the speed that is best for your mowing condition.

NOTE: Always use a high engine RPM and adjust the traveling speed as needed by changing transmission gears.

7.0 HOW TO DO MAINTENANCE



WARNING: Stop the engine. Lower the mower to the ground.

After Each Use:

- 1. Clean the mower.
- Inspect all nuts, bolts and other fasteners to make sure they are tight. Replace any fasteners that are missing. Tighten the bolts to the torque shown in figure 7.0-1.

BOLT TORQUE SPECIFICATIONS				
BOLT SIZE	FOOT POUNDS (ft. lbs.)	NEWTON METERS (N.m)		
1/4"	7	9.5		
5/16"	14	19 .		
3/8"	25	34		
7/16"	40	54		
1/2"	60	82		
9/16"	83	113		
5/8"	120	163		
3/4"	200	271		

Figure 7.0-1

- 3. Inspect all blades and replace any blade that has damage.
- 4. Check to see that the blades are sharp. If the blades are not sharp, remove the blades and grind the edges that have the bevel until they are sharp. Grind each edge the same amount. Make sure the blades have balance. Tighten the spindle nuts to a torque of 50 ft. lbs. (67.8 N.m).

After Every 8 Hours of Operation:

Add multi-purpose grease to the following grease fittings:

Mower

- A. Spindles 3
- B. Gauge Wheels 2
- C. Drive Shaft 1

Front Mount

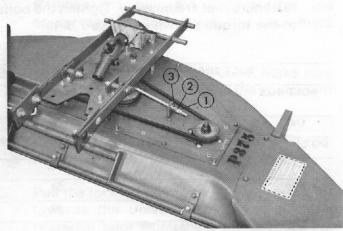
- D. Quick Hitch Pin 1
- E. Caster Wheels 2
- F. Caster Wheel Forks 2

7.1 HOW TO ADJUST THE TENSION OF THE BELT

It is not necessary to remove the mower from the tractor to adjust the tension of the belt.

WARNING: Stop the engine. Lower the mower to the ground.

Remove the right side belt cover. See figure 7.0-2.



- 1 Jam Nut
- 2 Adjusting Nut
- 3 Spring

Figure 7.0-2

- Hold the adjusting nut and turn the jam nut counterclockwise.
- Turn the adjusting nut clockwise until there 3. is a gap of .010" to .015". (.25 mm to .38 mm) between the coils of the spring.
- Hold the adjusting nut and tighten the jam 4. nut against the adjusting nut.
- 5. Install the right side belt cover.

HOW TO REPLACE THE BELT

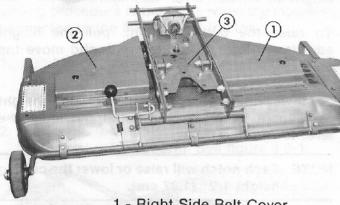
Stop the tractor on a surface that is level.



WARNING: Stop the engine.

2 Remove the mower from the tractor as shown in section 3.0.

3. Remove the belt covers from the right side and the left side of the mower. See figure 7.0-3.



- 1 Right Side Belt Cover
- 2 Left Side Belt Cover
- 3 Gear Housing Support

Figure 7.0-3

- 1. Remove the gear housing support from the mower.
- Loosen the spring tension as shown in section 7.1. Remove the old belt.
- Install the new belt as shown in figure 7.0-4 or the belt diagram decal on the mower deck.

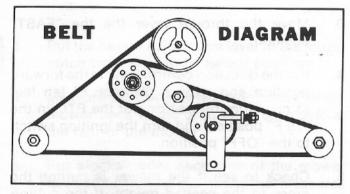


Figure 7.0-4

- Install the gear housing support. 7.
- 8. Adjust the tension of the belt as shown in section 7.1.
- 9. Install the right side and the left side belt covers.

7.3 HOW TO LUBRICATE THE GEAR BOX

Once a year or after 200 hours of operating, check the lubricant level in the gear box. To check the lubricant level do the following:

 Remove the four bolts that fastens the gear box cover to the gear box.

NOTE: Use caution when removing the gear box cover. Do not damage the gasket. The gasket must be replaced if there is damage.

- Remove the gear box cover. Add multipurpose grease if needed.
- 3. Install the gear box cover.

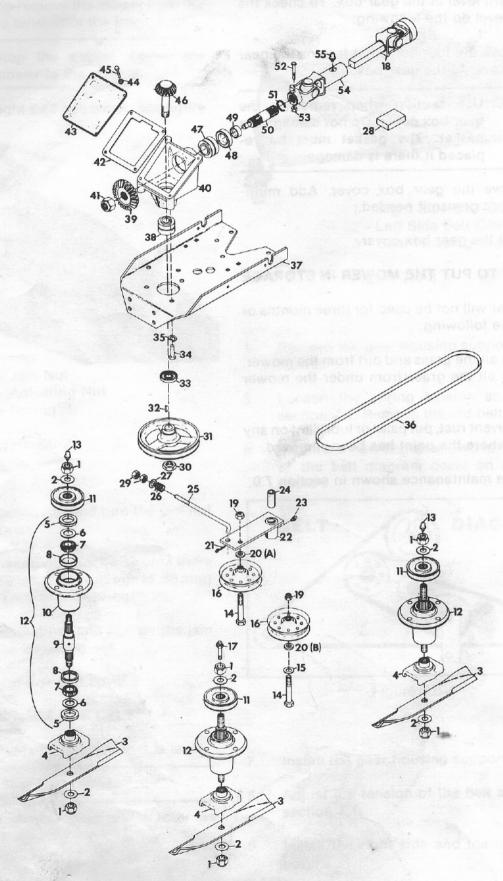
8.0 HOW TO PUT THE MOWER IN STORAGE

If the mower will not be used for three months or more do the following:

- Clean all the grass and dirt from the mower.
 Clean all the grass from under the mower deck.
- 2. To prevent rust, put paint or lubricant on any area where the paint has been removed.
- 3. Do the maintenance shown in section 7.0.

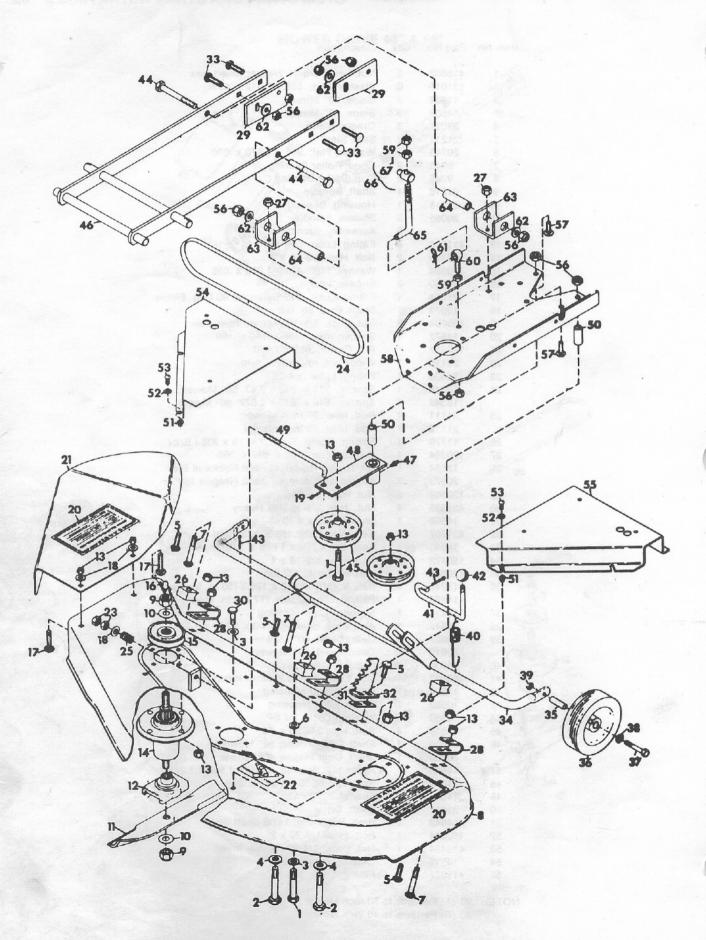
9.0 ILLUSTRATED PARTS AND PARTS LISTS

MOWER DRIVE 40" & 50"



MOWER DRIVE 40" & 50"

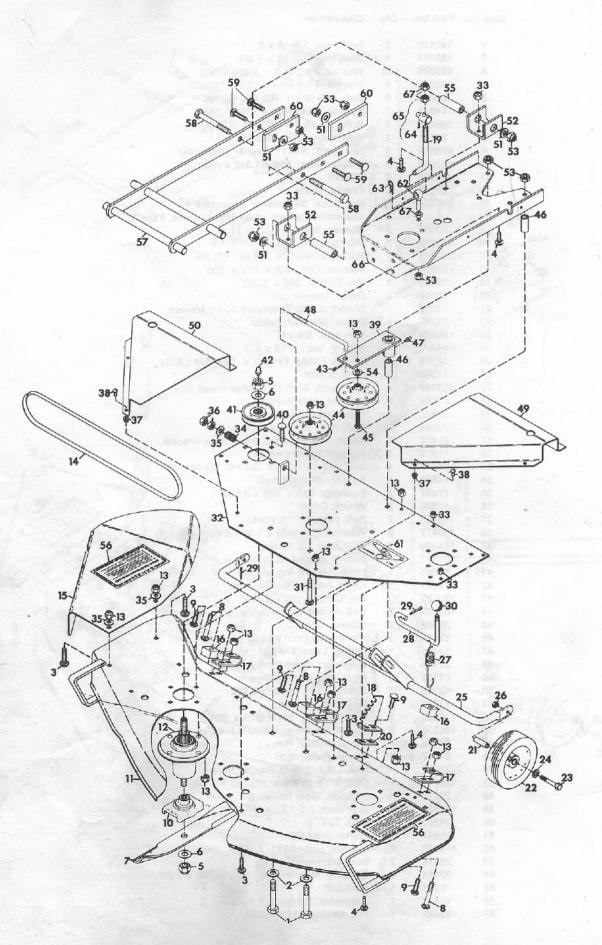
1 418692 2 131016 3 11234 14668 4 23026 5 21211 6 20743 7 9246 8 9245 9 21216 10 21215 11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14664 50 31412 51 14664 51 14673	Qty.	Description
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4 23026 5 21211 6 20743 7 9246 8 9245 9 21216 10 21215 11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19682 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	3	Blade, 50" Mower
5 21211 6 20743 7 9246 8 9245 9 21216 10 21215 11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	3	Blade, 40" Mower
6 20743 7 9246 8 9245 9 21216 10 21215 11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	3	Cradle, Blade
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8 9245 9 21216 10 21215 11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	2	Washer, Flat; .975 x 1.970 x .030
9 21216 10 21215 11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	2	Cone, Roller Bearing
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11 20065 12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Shaft, Spindle
12 13 411010 14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Housing, Bearing
13	3	Sheave, Spindle
14 180130 15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 25 21111 26 11779 27 120394 28 12134 20573 29 20 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 43 10982 44 1203	3	Assembly, Spindle
15 120388 16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	2	Fitting, Lube; 1/8
16 21060 17 21214 18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 25 21111 21172 27 27 120394 28 12134 20573 29 20 369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 43 10982 44 120380 45 180016 46 19608 2	2	Bolt, Hex; 3/8-16 x 2
17	1	Washer, Flat; .438 x 1.000 x .038
18 19074 19 456004 20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 25 21111 26 11779 27 120394 28 12134 20573 29 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646	2	Sheave, Idler
19	1	Fitting, Lube; .125 Extended 90 Deg. Elbow
20 14672 21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Shaft, Prop Sq. Bar
21 179252 22 21115 23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	2	Nut, Lock; 3/8-16 Washer Insert Hex
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23 14406 24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Pin, Cotter; .062 x 1.000
24 19348 19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Weldment, Idler Pivot Arm
19349 25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Fitting, Lube; 1/4-28
25 21111 21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Spacer, .510 x .840 x 2.43 50" Mower
21112 26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Spacer, 510 x .840 x 2.622 40" Mower
26 11779 27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Rod, Idler; 50 Inch Mower
27 120394 28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Rod, Idler; 40 Inch Mower
28 12134 20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 180044 53 419454 54 13518	1	Spring, Comp. Type; 1 x .78 x 338 LB/IN
20573 29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Washer, Flat, .406 x .812 x .065
29 120369 30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Kit, Repair Universal Joint Rockwell Std.
30 451539 31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Kit, Repair Universal Joint Neapco 1605X
31 14660 32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	2	Nut, Hex; 3/8-24
32 431787 33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Nut, Jam; 3/4-10 Hex Heavy
33 14645 34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Sheave, 1/2 x 6.50
34 180173 35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Key, Woodruff; .188 x .625 Hard
35 120384 36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518		Seal, Oil; 1.250 x 1.686 x .313
36 11216 14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	3	Bolt, Hex; 1/2-13 x 1
14673 37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	3	Washer, Lock; 1/2 SP Belt, V; .500 x .312 x 126.3 (50 In. Mower)
37 22417 38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Belt, V; 1/2 x 5/16 x 117 (40 In. Mower)
38 14644 39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Support, Gear Housing
39 19607 20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Assembly, Bearing; .750 x 1.781 x 1.499
20819 40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Gear, Bevel; 50" Mower
40 14636 41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Gear, Bevel; 40" Mower
41 456007 42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Casting, Gear Box
42 11231 43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 51 14642 52 180044 53 419454 54 13518	1	Nut, Lock; 3/4-10 Washer Insert Hex
43 10982 44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Gasket, Gear Housing
44 120380 45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Cover, Gear Housing
45 180016 46 19608 20820 47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	4	Washer, Lock; 1/4 SP
46 19608 20820 47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	4	Bolt, Hex; 1/4-20 x .50
20820 47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Shaft, Gear Pinion; 50" Mower
47 14640 48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Shaft, Gear Pinion; 40" Mower
48 14646 49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Assembly, Bearing; 1.000 x 1.980 x 1.243
49 14641 50 31412 -51 14642 52 180044 53 419454 54 13518	1	Seal, Oil; 1.250 x 1.987 x .250
50 31412 -51 14642 52 180044 53 419454 54 13518	1	Spacer
-51 14642 52 180044 53 419454 54 13518	1	Shaft, Drive
52 180044 53 419454 54 13518	1	Ring, Retaining; 1.000 Shaft
53 419454 54 13518	1	Bolt, Hex; 1/4-20 x 2
54 13518	1	Nut, Lock; 1/4-20 Washer Insert
	1	U-Joint, Female End
33 411027	1	Fitting, Lube; 1/4-28
		1 ming, Eube, 1/4-20
NOTE: 20 (A) Pe	rtaine to	50 Inch Mower
		o 40 Inch Mower



40" MOWER DECK ASSEMBLY

Item No	. Part No.	Qty.	Description
1	180130	2	Bolt, Hex: 3/8-16 x 2
2	180193	4	Bolt, Hex; 1/2-13 x 3-3/4
3	120388	13	Washer, Flat; .438 x 1.000 x .038
4	120396	4	Washer, Flat; .500 x 1.062 x .095
5	120915	5	Bolt; 3/8-16 x 1 RD HD SQ NK
6	14672	1	Spacer, Idler; .406 x .750 x .188
7	126419	3	Bolt; 3/8-16 x 2 RD HD SQ NK
8	21121	1	Weldment, 40 In. Deck
9	418692	6	Nut, Lock; 5/8-11 Washer Insert Hex
10	131016 14668	6	Washer, Flat; .656 x 1.312 x .095
12	23026	3	Blade Cradle, Blade
13	456004	24	Nut, Lock; 3/8 Washer Insert Hex
14	400004	3	Assembly, Spindle (See Mower Drive, Page 2)
15	20065	3	Sheave, Spindle
16	411010	2	Fitting, Lube; 1/8
17	126227	2	Bolt; 3/8-16 x 3/4 RD HD SQ NK
18	120394	3	Washer, Flat; .406 x .812 x .065
19	179252	1	Pin, Cotter; .062 x 1.000
20	18549	2	Decal, Danger
21	19986	1	Shield, Safety Extension 40 In. Mower
22	11715	1	Decal, Belt Installation
23	120369	2	Nut, Hex; 3/8-24
24	14673	1	Belt, V; 1/2 x 5/16 x 117
25 26	11779	3	Spring, Comp Type; 1 x .78 x 338 LB/IN
27	11260 419455	4	Stop, Nylon Nut, Lock; 5/16-18 Washer Insert Hex
28	11264	3	Bracket, Axle Support
29	21222	2	Plate, Adjustment
30	180124	12	Bolt, Hex; 3/8-16 x 1-1/4
31	21462	1	Shim, Mower height adjustment bracket
32	11265	1	Bracket, Height Adjust
33	120917	4	Bolt, 1/2-13 x 1-1/2 RD HD SQ NK
34	14661	1	Axle, Pivot Weldment
35	11937	2	Bushing, .385 x .750 x 2.593
36	11386	2	Wheel, Caster
37	189305	2	Bolt, Hex; 3/8-16 x 3-1/2
38	446477	2	Washer, Flat; .438 x 1.375 x .083
39	124829	2	Nut, Jam; 3/8-16 Hex
40 41	21471	1	Spring, 40 and 50 In. Mower Lever, Height Adjustment
42	10993	1	Knob, Adjustment Control
43	120123	3	Pin, Cotter; .125 x 1.250
44	180185	2	Bolt, Hex; 1/2-13 x 2-1/2
45	21060	- 2	Sheave, Idler
46	22418	1	Weldment, Pivot Arm
47	14406	1	Fitting, Lube; 1/4-28
48	21115	1	Weldment, Idler Pivot Arm
49	21112	1	Rod, Idler 40 Inch Mower
50	19349	4	Spacer, .510 x .840 x 2.622
51	11777	8	Grommet, Plastic
52	120392	8	Washer, Flat; .281 x .625 x .065
53 54	160536	8	Screw, Machine; 1/4-20 x 5/8 Pan HD Cover, Pulley; R.H.
55	21258 21257	1	Cover, Pulley, L.H.
56	435507	11	Nut, Lock; 1/2-13 Washer Insert
57	126216	4	Bolt, 5/16-18 x 3/4 RD HD SQ NK
58	22417	1	Support, Gear Housing
59	120238	3	Nut, Jam; 1/2-13
60	19350	1	Bolt, Eye
61	15691	1	Cotter, Hair Pin
62	415543	4	Washer, Flat; .531 x 1.250 x .100
63	22415	2	Support, Mower Pivot
64	22414	2	Bushing, Mower Pivot; .510 x .750 x 2.020
65	19201	1	Rod, Lift
66	11317	1	Assembly, Mower Lift Pivot
67	142485	1	Pin, Groove; .125 x .625

50" MOWER DECK ASSEMBLY



50" MOWER DECK ASSEMBLY

Item	No. Part	No. Q	ty.	Description
	100	100		Delt Hay 1/0 12 v 2 2/4
1			4	Bolt, Hex; 1/2-13 x 3-3/4
2			4	Washer, Flat; .500 x 1.062 x .095
3			6	Bolt, 3/8-16 x 3/4 RD HD SQ NK
4			0	Bolt, 5/16-18 x 3/4 RD HD SQ NK
5			6	Nut, Lock/ 5/8-11 Washer Insert Hex
6			6	Washer, Flat; .656 x 1.312 x .095
7			3	Blade
8			3	Bolt, 3/8-16 x 2 RD HD SQ NK
9			5	Bolt, 3/8-16 x 1 RD HD SQ NK
10			3	Cradle, Blade
11			1	Weldment, 50 Inch Deck
12			3	Assembly, Spindle (See Mower Drive, Page 2)
13			8	Nut, Lock; 3/8-16 Washer Insert Hex
14			1	Belt, V; .500 x .312 x 126.3
15			1	Shield, Safety Extension 50 Inch Mower
16			3	Stop, Nylon
17			3	Bracket, Axle Support
18			1	Bracket, Height Adjust
19			1	Rod, Lift
20			1	Shim, Mower Height Adjustment Bracket
21			2	Bushing; .385 x .750 x 2.593
22			2	Wheel, Caster
23			2	Bolt, Hex; 3/8-16 x 3-1/2
24			2	Washer, Flat; .436 x 1.375 x .083
25			1	Weldment, Axle Pivot
26			2	Nut, Jam; 3/8-16 Hex
27			1	Spring, 40 and 50 Inch Mower
28			1	Lever, Height Adjust
29			3	Pin, Cotter; .125 x 1.250
30			1	Knob, Adjustment Control
31			1	Bolt, 3/8-16 x 1-3/4 RD HD SQ NK
32			1	Weldment, Deck Support Plate
33			0	Nut, Lock; 5/16-18 Washer Insert Hex
34			1	Spring, Comp. Type; 1 x .78 x 338 LB/IN
35			3	Washer, Flat; .406 x .812 x .065
36			2	Nut, Hex; 3/8-24
37			3	Grommet, Plastic
38			3	Screw, Mach; 1/4-20 x 1/2 Pan HD C-Recess
39			1	Weldment, Idler Pivot Arm
40			2	Bolt, 3/8-16 x 1-1/4 RD HD SQ NK
41			3	Sheave, Spindle
42			2	Fitting, Lube; 1/8
43			1	Pin, Cotter; .062 x 1.000
44			2	Sheave, Idler
45			1	Bolt, Hex; 3/8-16 x 2
46			4	Spacer, .510 x .840 x 2.43
47			1	Fitting, Lube; 1/4-28 Rod, Idler; 50 Inch Mower
49			1	
50			1	Cover, Pulley; L.H. Cover, Pulley; R.H.
51			1	Washer, Flat; .531 x 1.250 x .100
52				Support, Mower Pivot
53				Nut, Lock; 1/2-13 Washer Insert
54				Spacer, Idler; .406 x .750 x .188
55				Bushing, Mower Pivot; .510 x .750 x 2.020
56				Decal, Danger
57 58				Weldment, Pivot Arm Bolt, Hex; 1/2-13 x 2-1/2
59				Bolt, 1/2-13 x 2-1/2 Bolt, 1/2-13 x 1-1/2 RD HD SQ NK
60				Plate, Adjustment
61		715 1		Decal, Belt Installation
62		350 1		Bolt, Eye
63		691 1		Cotter, Hair Pin
64				Pin, Groove; .125 x .625
65		317 1		Assembly, Mower Lift Pivot
66		417 1		Support, Gear Housing
67				Nut, Jam; 1/2-13
0,				

GRAVELY ATTACHMENTS LIMITED WARRANTY

This Limited Warranty is issued by Gravely International, Inc., and consists of the following terms:

- Only the original purchaser of new Gravely manufactured attachments is covered by this Warranty.
- This Warranty covers repair or replacement of parts manufactured by Gravely which are defective in material or workmanship. Gravely will pay for parts and labor only.
- The Warranty starts the date of purchase and lasts for NINETY (90) DAYS for products used in Roofer applications, and TWELVE (12) MONTHS for products used in all other applications.
- 4. Some components of Gravely attachments are not covered by the Gravely Warranty. These components are covered by the original manufacturer's warranty, which is included with the product. They are:
 - a. Engine Honda
 - b. Tires Goodyear and Armstrong
 - To obtain warranty service on Gravely attachments including components not manufactured by Gravely, use this procedure:
 - Notify the Gravely dealer from whom you purchased the attachment.
 - b. If you have moved and it is not convenient to notify the selling dealer, notify the nearest Gravely dealer. You should supply this dealer with a copy of the bill of sale as proof of the date of purchase.
 - Make arrangements to have the equipment delivered to the dealer (refer to paragraph 6(a) below).
 - d. If you have any questions concerning the Gravely Limited Warranty, they should be referred to:

Gravely International, Inc. One Gravely Lane Clemmons, NC 27012

Attn: Manager of Customer Services

- e. Warranty service on Gravely attachments must be performed by an authorized Gravely dealer or Gravely factory branch.
- 5. This Warranty does not cover the following:
 - a. Transportation between owner's home or place of business and the dealership. If the dealer provides the transportation of the attachment, he will charge the owner his usual rate for such service.
 - Normal maintenance services and normal replacement of items such as spark plugs, belts, oil, oil filters, air filters, and mower, plow or cultivator blades.

- 7. GRAVELY MAKES NO OTHER EXPRESS WARRANTIES. ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE PERIOD SET OUT IN PARAGRAPH 3 ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE STATEMENT MAY NOT APPLY TO YOU.
 - 8. GRAVELY SHALL HAVE NO RESPONSIBILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE BREACH OF ANY WARRANTY, INCLUDING, BUT NOT LIMITED TO, INCONVENIENCE, RENTAL OR PURCHASE OF REPLACEMENT EQUIPMENT, LOSS OF PROFITS OR COMMERCIAL LOSS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.
 - This Warranty gives you specific legal rights, and you may have other rights which vary from state to state.
 - 10. A Gravely product registration card is supplied with each Gravely product. Please complete the card and return it to Gravely at the address listed on the card. The registration card will be used by Gravely for:
 - a. Recording date of purchase.
 - Notification of owners in compliance with the Consumer Product Safety Act, should any notification be necessary.

The return of registration card is not required in order to take advantages of this Warranty.

 This Warranty is not subject to change or modification by anyone, including Gravely dealers and no Gravely dealer is authorized to make any representations or promises on Gravely's behalf.

