



Stand-On Compact Hydro Drive Commercial Mower 48"·52"



OWNER'S MANUAL & PARTS LIST

www.BradleyMowers.com



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Bradley Stand-On Compact Mower Owner's Manual

IMPORTANT MESSAGE

This machine comes with an Owner's Manual and List. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand this manual. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this product is one of our prime objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manual thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features.

See a Havener Enterprises, Inc. dealer for any service or parts needed. Havener Enterprises, Inc. service ensures that you continue to receive the best results possible from Havener Enterprises, Inc. products. You can trust Havener Enterprises, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Havener Enterprises, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manual, keep it in good repair and follow safety warnings and instructions.

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NOTICE!!!

Unauthorized modifications may present extreme safety hazards to operators and bystanders and could also result in product damage.

Havener Enterprises, Inc. strongly warns against rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Havener Enterprises, Inc. Engineering Department. Any Havener Enterprises, Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture including the addition of "after-market" accessories or component parts not specifically approved by Havener Enterprises, Inc. will result in the Havener Enterprises, Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Havener Enterprises, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Havener Enterprises, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.

This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.



This symbol means:
ATTENTION!

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Havener Enterprises, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, MAY result in property damage.



MODEL NUMBER: Identified here as 48SC or 52SC

SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information. Located behind rider pad on frame of unit.

SAFETY INFORMATION

Read This Manual Carefully and Thoroughly Before Operating Your Mower!

1. Carefully and thoroughly read the owner's manual. Allow adequate time to fully understand the controls and operation of the equipment. Never allow anyone to operate the mower that has not read and fully understood the owner's manual.
2. Never allow anyone to operate the mower who is not old enough, large enough, and strong enough to safely handle the machine.
3. Do not carry passengers. Avoid mowing while people, especially children, and pets, are nearby since rotating blades can throw rocks and other items with enough force to cause serious injury.

BEFORE USING EQUIPMENT

OPERATOR

Wear protective clothing while mowing. Long trousers and safety glasses will help reduce the risk of injury from thrown objects. It is recommended that steel toe shoes with aggressive soles or some other type of substantial footwear be worn to help protect your feet and maintain traction on slopes or uneven ground.

MOWING AREA

Thoroughly inspect the area where the equipment is to be used. Look for items such as stones, sticks, bones, wire, and other foreign objects. When struck by the mower, these and other objects may become projectiles that could lead to serious injury and/or death.

MOWER

For your safety and the long life of your mower, always inspect the mower before each use. Before inspection, make sure the mower is on a flat and level surface, the blades are disengaged, the ignition switch off with the key removed, and the spark plug wire is off of the spark plug(s) and hidden so that accidental contact cannot be made.

GENERAL CONDITION

- Walk around the mower looking for any fluid spills or leaks on or underneath the mower. Remove any and all excessive debris, dirt, and/or fluids.
- Look for signs of damage or excessive wear. Check the tightness of all nuts, bolts, pins, and screws. Tighten any that may be loose and replace any that may have been lost during use.
- Be sure the safety interlock controls are operating properly so that the engine cannot be started unless the ground speed control lever is in neutral and the blades disengaged.
- Check the mower blades for any damage or abnormal wear and replace in sets so that they are balanced.
- Check the mower cutting height to assure a high quality and even cut.
- Check the tire pressure on all four (4) tires.
- Check all belts for proper wear and correct tension.
- Check engine oil and air filter as recommended in the engine manufacturer's operators manual.

OPERATION OF EQUIPMENT

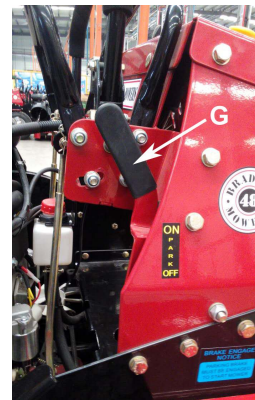
1. **DANGER:** Gasoline is highly flammable and explosive. Do not add fuel while engine is running or is hot. Keep open flames, sparks, and heat away from the fuel and store fuel in containers specifically designed for that purpose. Add fuel outdoors only and if the fuel is spilled, Do not start the engine. Manually push the mower away from the spill and immediately wipe up.
2. **DANGER:** Gases emitted by a charging battery are explosive. Keep heat, sparks and open flames away from a charging battery.
3. Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect. Carbon monoxide is odorless, tasteless, and can be fatal.
4. Mow only in daylight.
5. Make sure the mower is not in neutral and the blades are disengaged before attempting to start the engine.
6. Do not stop or start suddenly when going uphill. Never use riding attachments on slopes since there is an increased risk that they might roll over.
7. Avoid steep slopes and use extreme caution when changing directions or speed when operating on a slope.
8. Be extremely careful when operating on a slope or when the grass is damp or wet. Reduced traction could cause sliding. Never mow by pulling the mower back towards you as you might slip.
9. Watch for traffic when crossing surfaces other than grass (i.e. transporting), loading a trailer or vehicle, or when the mower is not in use.
10. Never operate the mower with defective guards, shields, or without the safety devices securely mounted in place.
11. Never direct discharge of material toward bystanders or allow anyone near the mower while in operation.
12. Do not change the engine governor settings or over-speed the engine.
13. Always stop the engine whenever you leave the mower, even for a moment.
14. To help reduce the risk of a fire hazard, keep the engine and the area around the engine free of grass, leaves, or any other type of foreign material.
15. Beware of cutting edges. Always wear gloves for safety when performing blade maintenance activities. Beware on multiple blade units since the rotation of one blade may cause the rotation of the other blades.
16. Keep body and hands away from pin holes or nozzles that eject hydraulic fluid since fluid escaping under pressure may have sufficient force to penetrate skin and cause serious injury. If foreign fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this form of injury. Always use paper or cardboard and not hands to search for leaks.

OPERATING THE MOWER

It is recommended that before you operate the mower, you allow adequate time to fully understand the controls and operation of the equipment. When reading this manual, it is recommended that you do so with the equipment nearby for quick orientation, to reference the controls, and understand maintenance adjustments.

OPERATING CONTROLS

Before continuing to read the manual, it is recommended that you take adequate time to identify the controls of the mower.




- | | |
|-----------------------|-----------------------|
| A Blade Control Lever | F Choke Control |
| B Safety Switch | G Parking Brake Lever |
| C Left Control Lever | H Ignition/Key Switch |
| D Right Control Lever | I Neutral Lever |
| E Throttle Control | |

STARTING THE ENGINE (Make Sure Battery Is Fully Charged)

DANGER: Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect. Carbon monoxide is odorless, tasteless, and can be fatal.

After going through the steps on pages 3 and 4, you are ready to start the engine.

NOTE: This unit was shipped without gas. Be sure to add fresh gas and double check the oil in the engine before attempting to start the mower.

1. Make sure the Parking Brake Lever is in the "ON" position.
2. Make sure the Neutral lever is disengaged.
3. Make sure the PTO switch is not engaged.
4. Slide the Throttle Control to  position, "Choke" if the engine is cold.
5. For Electric Start engines, turn the key clockwise to the "Start" position. Once started, the key will return to the "Run" position. Note: Do not keep the key in the "Start" position more than a few seconds. If engine does not start, wait 15 seconds before trying again.
6. Once engine started, close the choking and adjust the throttle until the engine reaches the correct speed.

MOVING THE MOWER FORWARD

Caution: Become completely familiar with the operation characteristics of the mower before attempting to use it.

1. Make sure the Left Control Lever is down out of the Neutral Lock position.
2. Gently push the controls forward. Push the Left and Right Control Levers away from you an equal amount to go straight. It is recommended you start slow and increase your speed as you increase your comfort with the controls.
3. Allowing the Left and Right Control Levers to return to a center neutral position allows the mower to stop moving. Note: if the operator lets go of the Left Control Lever while the blades are engaged and/or the mower is moving, the safety interlock system will stop the engine. To restart the mower, reset the Blade Control Lever to "Off" and the parking brake to the "On" position.

NOTE: Top speed is suggested only for transport.

MOVING THE MOWER IN REVERSE

Slowly and evenly pull the Left and Right Control Levers toward you. The more the Control Levers are pulled toward you, the faster you will move. It is recommended to move in reverse slowly.

NOTE: When moving in reverse, be aware of your surroundings by looking down and behind.

STOPPING THE MOWER

Gently let the Left and Right Control Levers return to their neutral, at rest position. If the operator is leaving the operator position for any reason, disengage the blades, shut off the engine, engage the parking brake, and remove the key.

NOTE: Park the mower on level ground. If it is not possible to do so, be sure to block the wheels to prevent the mower from rolling away.

TURNING THE MOWER

To turn the mower in the desired direction, gently pull the chosen direction's Control Lever toward you (i.e. to turn right, pull the Right Control Lever toward you). The more a particular Control Lever is pulled toward you, the sharper the turn the mower will make.

MOWING

DANGER: Thoroughly inspect the area where the mower is to be used. Look for items such as stones, sticks, wire, and other objects. When struck by the mower, these and other objects may become projectiles that could lead to serious injury and /or death. Clear area of all debris and keep people and pets away.

DANGER: Do not operate the mower with defective guards or shields. Do not operate the mower without the safety devices securely in place.

For the highest quality of cut and performance, mow with the engine at full throttle. Quality of cut may be determined by the ground speed and speed of the mower. Generally, the slower the mower travels across the terrain, the better the cut.

1. With the engine running and the mower placed at the beginning of the area to be mowed, make sure the left control lever is down and out of the neutral lock position.
2. Pull the PTO switch to engage the blades.
3. To disengage blades, come to a complete stop and pull the Blade Control Lever to the "Off " Position.

MOVING THE MOWER WITH THE ENGINE OFF

1. Engage the Parking Brake Lever by moving it to the "On" position.
2. Engage the Neutral Lever by moving it in the direction of the arrow.
3. Disengage the Parking Brake Lever by moving it to the "Off " position.
4. Move the mower.

NOTE: Be careful of the weight of the mower as you move it without using the engine.

5. Before starting the mower, make sure the driving controls are in neutral with left control in "up" position, the parking brake is engaged and the neutral lever is disengaged.

PARKING THE MOWER

Pull the Parking Brake Lever to the "On" position.

NOTE: Gently engage the braking mechanism. Excessive force may cause damage.

Caution: If you are not familiar with the operation of the Hydro drive and zero turn feature, practice turning and maneuvering with the controls before engaging the blade.

TOOLS REQUIRED FOR ASSEMBLY

- Ratchets: 16mm
- Sockets: 13mm, 16mm
- Wrenches: 10mm, 13mm, 15mm, 16mm, 19mm
- wire cutters
- Tire pressure gauge
- Blocks (for deck leveling)

NOTE: All references below to the "right" or "left" are with respect to an operator at the controls.

1. UNCRATE UNIT

Discard packing materials. Remove and discard shipping brackets. Tighten caster wheel axle bolts against caster axle spanner bushings.

2. Set rear tire pressures to 20psi. Tires are overinflated for shipping. Front tires should be 40psi.

DECK LEVELING

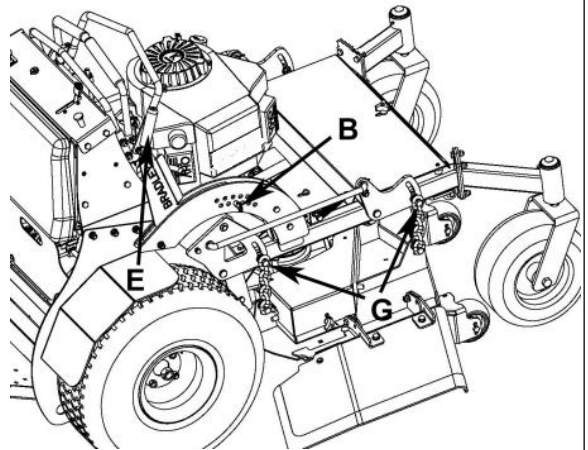
The deck roller needs to be installed at the top hole

1. Park the machine on a smooth, level surface, pull the cut lever E to the highest slot.
2. Place a 1 " block under the rear deck and two 7/8 "blocks under the front deck .
3. Remove the pin B to the lowest cutting height, and then lower the deck onto the blocks.

So that the deck top is pitched forward 1/8 ".

4. Loosen nuts on bolts G. Move bolts in slot to remove slack in chain.
5. Tighten nuts on bolts G.

NOTE: The front and rear of the deck are at different heights.

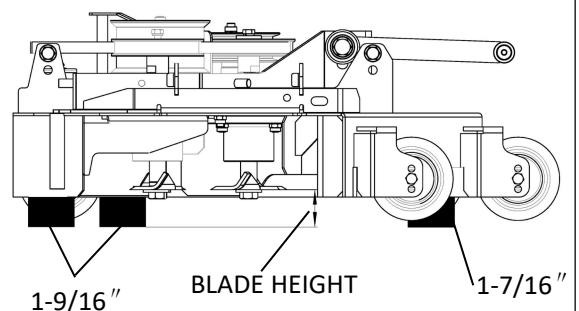
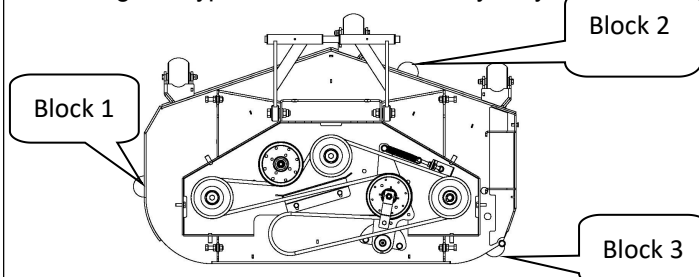


A 1/8" forward pitched deck provides the best horsepower.

A level deck provides the best quality of cut.

A 1/8" rearward pitched deck provides the best striping.

Certain grass types and conditions may vary.



5. FINAL PREPARATIONS

- Check the engine and hydraulic oil levels. Top up with the correct oil if necessary. Use SAE 5W-30 motor oil for the engine. Use fresh, clean SAE 20W50 motor oil for the hydraulic system. After running for one hour, let hydraulic system oil cool. When cold, check levels.

WARNING: Battery acid is caustic and fumes are explosive and cause serious injury or death.

Use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. Read and obey the battery manufacturer's instructions.

Be certain the ignition switch is OFF and the key has been removed before servicing the battery.

- a) Verify battery polarity before connecting or disconnecting the battery cables.
 - b) When installing the battery, always assemble the RED, positive (+) battery cable first and the ground, BLACK, negative (-) cable last.
 - c) Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep terminal covers in place.
- Read Operation and Safety Manual before starting.
 - Deck can be adjusted to allow for the best horsepower, best quality of cut, or best striping. See deck leveling procedure in the Adjustments Section in this manual to set as desired.
 - Run engine at full RPM for 5 minutes before engaging blades to allow the engine to be fully lubricated before load is applied.
 - Check the hydrostat neutral adjustment. Neutral is set at the factory but may require readjustment if air trapped during the initial oil fill has worked out of the system. See Adjustments Section later in this manual.
 - Do not use the machine without an approved grass collector, the grass discharge chute or mulching plates correctly fitted.

Bradley Stand-On Compact Mower Owner's Manual

MAINTENANCE OPERATION	Maintenance is an ongoing job. These intervals are maximum times between maintenance operations. Perform more often under severe conditions.						
	FIRST 5 HOURS	BEFORE EACH USE	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 200 HOURS	YEARLY
ENGINE							
Consult the engine manual for additional information and instructions							
Check/Top Up Oil Level		X					
Check For Leaks		X					
Clean Air Intake Screen		X					
Clean Air Cleaner Precleaner			X				
Clean Air Cleaner Element			X				
Clean Cooling Fans					X		
Change Oil And Filter	X	See engine manufacturer's manual					
Check/Replace Spark Plugs						X	
TRANSAXLE							
Check Oil Level	X	X					
Check For Leaks	X	X					
Change Oil And Filter						X	
MACHINE							
Check Interlock Operation		X					
Check Tire Pressures		X					
Check/Top Up Battery							X
Lubricate All Points		X					

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CHECK DAILY

Operator Presence Interlock System — Start Operation

For the engine to crank, the parking brake must be ON, the PTO (blades) OFF. Stand on the operator platform and check, one by one, if the engine will crank with the parking brake OFF or the PTO (Blades) ON.

Operator Presence Interlock System — Run Operation

In order for the engine to run, the operator must either be standing on the platform, or walking behind the unit with the platform up, the parking brake in the OFF position and the LH control handle held down out of the neutral position.

The engine may also run if the parking brake is in the ON position, the LH control handle is in the NEUTRAL position rotated up, and the PTO (blades) are OFF.

To check:

1. Start the engine and run at 1/2 throttle.
2. With the LH control handle in the NEUTRAL position rotated up, move the parking brake lever to OFF and turn the PTO (Blades) ON. Each check should kill the engine after 1/2 second delay. (A 1/2 second delay is built into the system to prevent engine cut-out when traversing rough terrain.)

Repair machine before using if the Operator Presence Interlock System does not operate correctly in start or run. Contact your authorized Bradley dealer.

Hardware

Tighten any nuts and bolts found loose. Replace any broken or missing cotter pins. Repair any other problems before operating.

Tire pressure

Rear Tires should be kept inflated at 20 p.s.i. Improper tire inflation can cause rapid tire wear and poor traction. Uneven inflation can cause uneven cutting. Front tires should be 40p.s.i.

BATTERY

WARNING: Battery acid is caustic and fumes are explosive and can cause serious injury or death. Use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. Read and obey the battery manufacturer's instructions.

Be certain the ignition switch is OFF and the key has been removed before servicing the battery.

1. Verify battery polarity before connecting or disconnecting the battery cables.
2. When installing the battery, always assemble the RED, positive(+)battery cable first and the ground, BLACK, negative(-)cable last.
3. When removing the battery, always remove the ground, negative(-) cable first and the red, positive(+)cable last.

4. Clean the cable ends and battery posts with steel wool. Use a solution of baking soda and water to clean the battery. Do not allow the solution to enter into the battery cells.
5. Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep terminal covers in place.

LUBRICATION

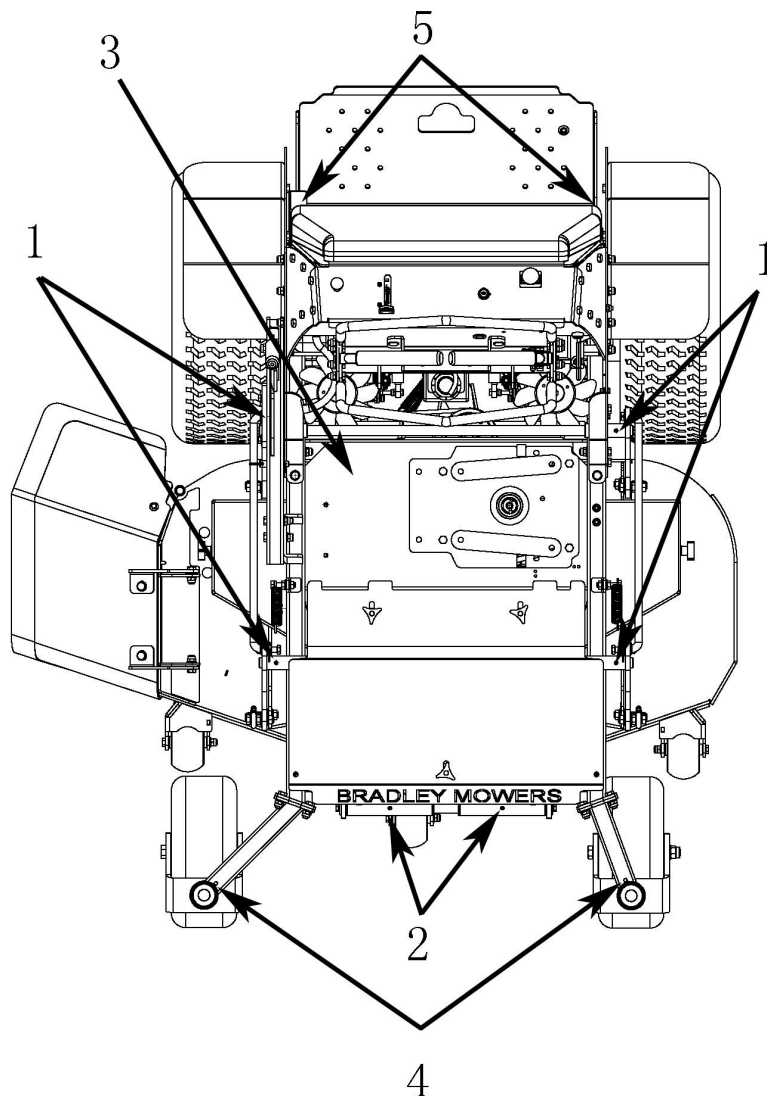
Every 50 hours of operation, lubricate the following points (1-4) with grease:

1. Deck lift pivots (4 points)
2. Pull arm pivots (4 points)
3. Deck idler pivot (1 point)
4. Caster wheel pivots (2 points)

Every 500 hours or once a year:

5. The pedal pivots (2 points)

NOTE ON BLADE SPINDLES — The blade spindles on these machines use a superior sealed bearing that does not require re-lubrication



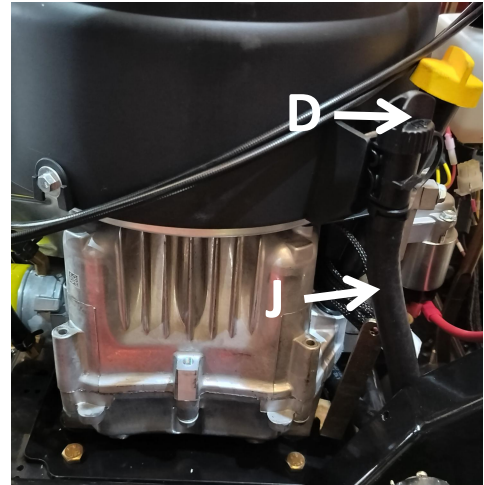
ENGINE OIL

Do not perform engine maintenance without the engine off, spark plug wires disconnected and PTO disengaged.

AFTER FIRST FIVE (5) HOURS

While the engine is warm:

1. Release the oil drain hose assembly from the engine clip **J**. Lay hose assembly over the frame edge.
2. Remove the screwed plug **D** from the tip of the hose assembly to allow oil to drain from the engine. Dispose of used oil in accordance with local requirements.
3. Clean plug connector and screwed plug **D**. Replace screwed plug back into plug connector. Replace hose assembly back into engine clip.
4. Change oil filter.
5. Fill the crankcase with fresh oil to the full mark. Do not overfill. See engine manual for oil specifications.

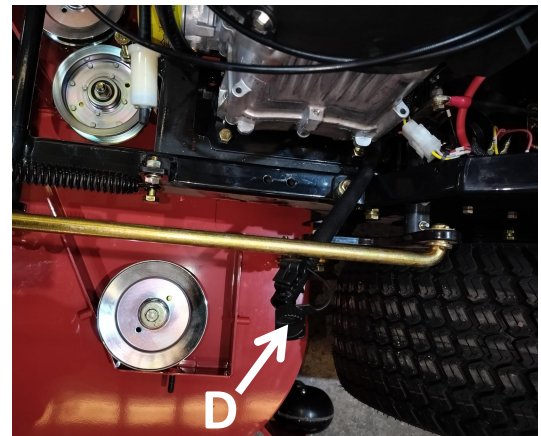


DAILY

1. Check oil level with the dipstick.
2. If oil is needed, add fresh oil of proper viscosity and grade. See engine manual for oil specifications. Do not overfill.
3. Replace dipstick before starting engine.

PERIODIC OIL CHANGES

1. See engine manual for oil and filter change intervals after the break-in period .
2. Follow instructions for first oil change, above.



SPARK PLUGS

Remove each plug and check condition.

- Good operating conditions are indicated if the plug has a light coating of grey or tan deposit.
- A white blistered coating indicates overheating. A black coating indicates an "over rich" fuel mixture. Both may be caused by a clogged air cleaner or improper carburetor adjustment.
- Do not sandblast, wire brush or otherwise attempt to repair a plug in poor condition. Best results are obtained with a new plug.
- Set plug gap as specified in engine manual.

FUEL FILTER

An in line fuel filter is located in the fuel supply line. Inspect at every oil change to make sure it is clean and unobstructed. Replace if dirty.

TRANSAXLES

WARNING

Inattention to proper safety, operation, or maintenance procedures could result in personal injury, or damage to the equipment.

Perform transaxle maintenance with the engine off, spark plug wires disconnected and PTO disengaged .

TRANSAXLE FLUID CHANGE

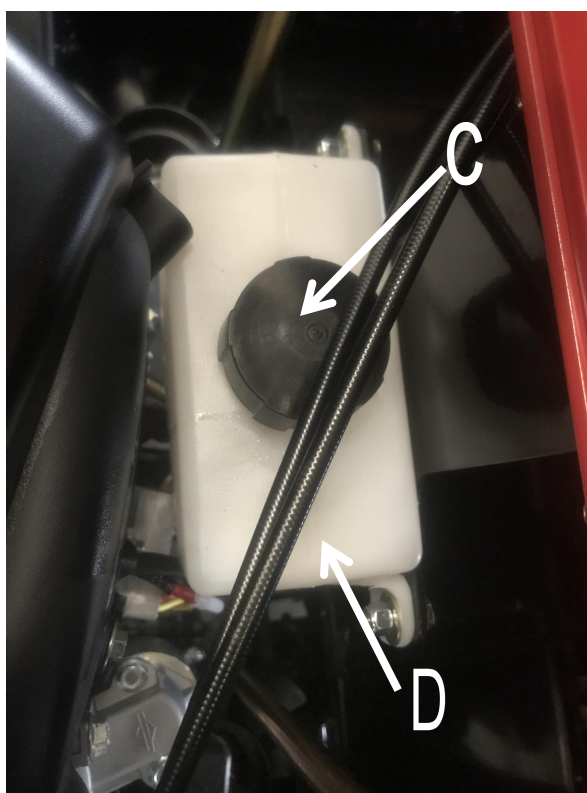
Change the transaxle fluid every 200 hours of operation. It is essential that the exterior of the transaxle be free of debris, prior to fluid maintenance.

1. Remove the three 1/4" filter guard screws and filter guard **A**. Remove the oil filter **B** from the transaxle and discard. Dispose of used oil in accordance with local requirements.
2. Wipe the filter base surface off and apply a film of new oil to the gasket of the new replacement filter. Install the new filter by hand, turn 3/4 to one full turn after the filter gasket contacts the filter base surface.
3. Re-install the filter guard and torque the three screws to 65 in. lbs. each.
4. Remove cap **C**, fill the transaxles through the expansion tank **D** with approximately 2 quarts of SAE 20W-50 engine oil PER TRANSAXLE .

CAUTION

Do not overfill! If you overfill the transaxle while the unit is "cold", it may overflow as it reaches normal operating temperatures. The oil level should not be above the manufacturer's suggestions. The oil level should be filled to the full cold line on the overflow tank. This will allow the space needed for the oil to expand as it warms up.

5. After starting engine, check the fluid level and continue to add oil to overflow tank **D** to fill line on tank.
6. Purge the transaxles, following the purging procedures.



PURGING TRANSAXLES

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical that it be purged from the system.

These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or any additional fluid has been added to the system.

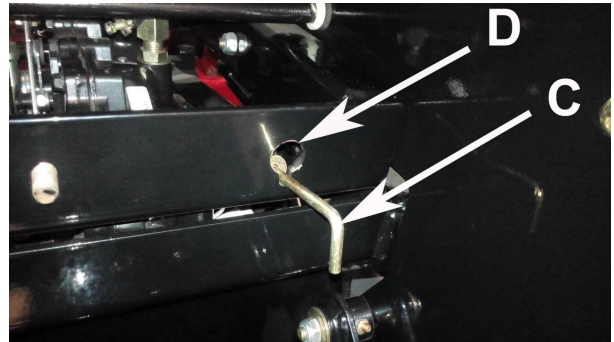
Purging may be required if the unit shows any of the following symptoms:

- Noisy operation.
- Lack of power or drive after short term use.
- High operation temperature, excessive oil expansion.

1. Check the transaxle fluid, fill to proper level, if required. Should be to the Full Cold Line.
2. Raise the drive wheels off the ground. Support unit with Jack stands or other suitable means.
3. Open bypass valves. To open the bypass valves, move the parking brake to any OFF position, then lift and pull bypass control rod **C** through the large opening **D**, until the control rod stop is past the opening. Drop rod **C** into the small opening to lock in place. Repeat for

the other bypass control rod. Start engine, slowly move the control levers in both forward and reverse directions 5 to 6 times. As air is purged from the unit, the oil level will drop.

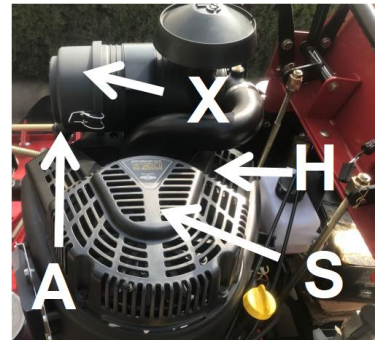
4. With the bypass valve closed, and the engine running, slowly move the control levers in both forward and reverse directions 5 to 6 times
5. Stop engine. Check the transaxle fluid level, add fluid as required.
6. It may be necessary to repeat steps 3-5 until all the air is completely purged from the system. When the transaxle moves forward and reverse at normal speed, purging is complete.



ENGINE COOLING

Continued operation with a clogged cooling system will cause severe overheating and can result in engine damage.

- Daily: Clean air intake screen **S** on air cooled engines.
- Every 100 hours: Clean cooling fins beneath blower housing **H** with reference to information in the engine manufacturer's manual.



HEAVY DUTY DONALDSON AIR CLEANER

Clean and replace the air cleaner element as specified in the service chart. Uneven running, lack of power or black exhaust fumes may indicate a dirty air cleaner.

To replace air cleaner elements:

1. Unclamp end cover **X** and remove existing cleaner elements.
2. Insert new elements **Y** and replace cover. Ensure the breathing port **A** is pointing down and towards the front of the tractor.



SPECIFIC TORQUES

BLADE BOLTS	110 FT- LBS(150 Nm)
WHEEL LUG NUTS	75-100 FT- LBS(102-136 Nm)
CLUTCH MOUNTING BOLT	50 FT- LBS(68 Nm)
TRANSAXLE PULLY BOLT	28- 42 FT- LBS(38-56 Nm)
TRANSAXLE DRAIN PLUG	15-20 FT- LBS (20-27 Nm)
TRANSAXLE FILTER	100-150 IN- LBS(15-17 Nm)

CLEANING MACHINE

Clean the machine after use. Compressed air is recommended. Do not use a pressure washer. The machine will run cooler and last longer if kept free of clippings and other debris. A clean machine also reduces the risk of fire due to accumulation of combustible debris and chaff.

Brush or blow clippings and debris off the cutter-deck and engine deck. Clippings and debris should be kept from accumulating around the exhaust system and under the exhaust guards. This can be done by using compressed air. DO NOT use a pressure washer.

WASHING MACHINE

CAUTION: Improperly washing a machine can cause water to enter bearings and other components. This can greatly reduce component life

- Do not use a pressure washer. Do not direct water at bearings or seals. High pressure water can blow past seals and enter sealed bearings.
- Allow the machine to cool down before washing. Water on a warm machine can be sucked into sealed bearings as they cool.
- Avoid getting electrical connections wet. Water can cause electrical faults and corrosion of electrical components.

BLADE REMOVAL

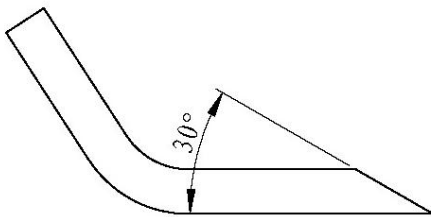
Follow these instructions to prevent injury during blade removal :

1. Loosen with box wrench or socket and long breaker bar. To gain additional leverage, slip long pipe or thick-walled tube over breaker bar or wrench.
2. Clamping the spindle with a wrench as shown, to prevent blade from turning when loosening.
3. Wear thickly padded gloves. Keep hands clear of blade path. Blades may rotate when bolt releases.

SHARPENING

Blades may be sharpened by filing or grinding.

- Inspect blades before sharpening.
- Replace bent or cracked blades.
- Replace blades when the lift portion has worn thin.
- Maintain cut angle at 30°.
- Do not overheat blades when sharpening.
- Always use Bradley blades. Use of another manufacturer's blades may be dangerous.



BLADE BALANCE

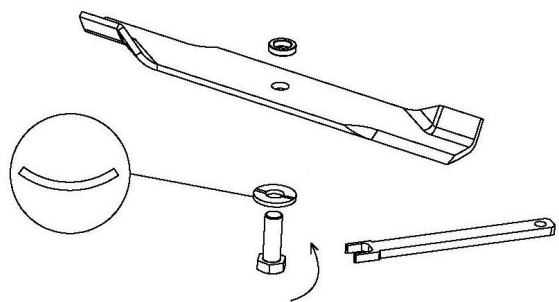
Blade balance must be maintained at 5/8 oz-in (19.4 g-cm) or less. Failure to keep blades balanced causes excess vibration, wear, and shortened life of most components of the machine.

To balance a blade:

1. Sharpen blade first.
2. Balance the blade at the center.
3. Attach a 1/8 oz (3.9 g) weight at a distance 5" (127 mm) from center on the light end. This should make the light end the heavy end :
 - If it does, the blade is balanced .
 - If does not, file or grind the heavy end until the addition of the weight makes the light end the heavy end.

BLADE INSTALLATION

1. Wear thickly padded gloves to prevent cuts from the sharp blade.
2. Insert the blade bolt, in order, through the spring washer (cup side toward the blade, as shown), the blade, and the blade spacer.
3. Install assembly on the blade spindle.
4. Torque the blade bolt to 110 ft-lbs.

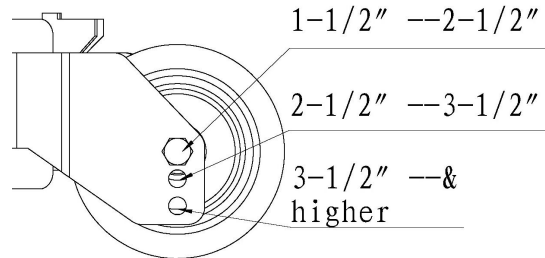


BELTS

All belts are tensioned by spring loaded idlers. No adjustment is required.

DECK ROLLERS

The rear outside deck rollers are adjustable up and down to provide improved deck flotation and scalping protection at various heights of cut. They are not intended to ride continuously on the ground. Adjust no closer than 3/8" (10mm) to the ground.

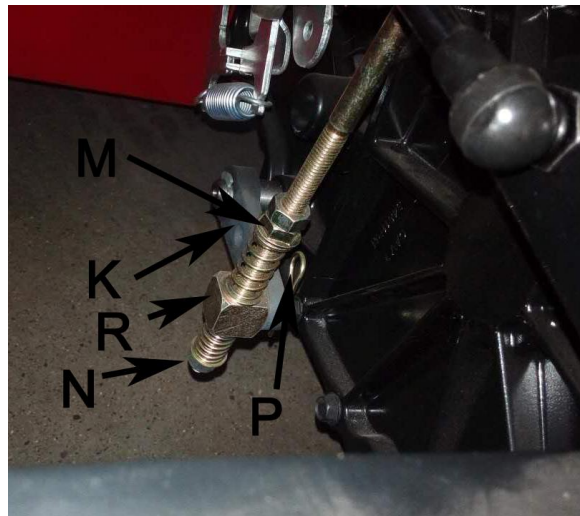


Cutting height ranges for roller adjustment

PARKING BRAKE

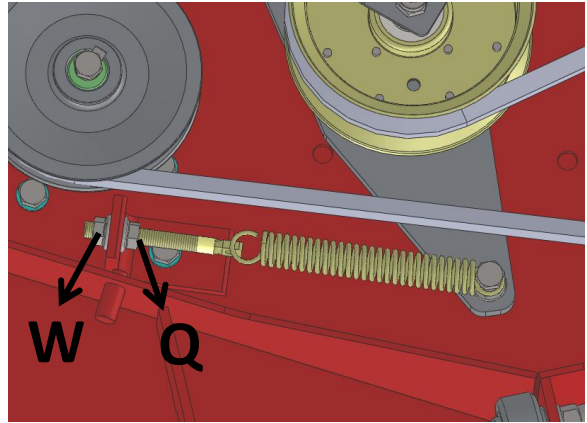
NOTE: There are 2 brakes, 1 on each transaxle. The parking brake should keep the machine from Moving . To check the parking brake, park the machine on a level surface, open the bypass valves (See purging transaxles section for instruction) and set the parking brake to ON. Attempt to move the machine forward and backward by pushing it. If the machine moves, adjust the parking brake linkage as follows:

1. Move the machine to a flat horizontal surface.
2. Move the parking brake handle to the OFF position.
3. Insure that the brake links **K** are rotated toward the front of the machine. If not, remove cotter pin **P** from each brake link **K** and brake rod **R**. Slide brake rod **R** out of each brake link **K**. Reinsert rod **R** into each link **K** and secure with cotter pin **P**.
4. Loosen nut **M** and tighten brake nut **N** as needed. Then tighten nut **M**.
5. Retest to insure the machine does not move.



CUTTERDECK BELT

1. Remove center, left and right belt guards.
2. Set the cutterdeck in a middle height-of-cut position.
3. Loosen bolt on belt guide so belt guide can be moved to remove the belt.
4. Loosen nut **W** and nut **Q** to back tensioning idler off to remove belt from idler. Remove belt from cutterdeck pulleys.
5. Remove belt from clutch pulley.
6. Install the new belt by performing these steps in reverse order.
7. Cutterdeck spring will require tension adjustment after belt installation. Adjust nut **W** and nut **Q** to gain the appropri.



TRANSAXLE DRIVE BELT

1. Remove engine-cutterdeck belt.
(See cutterdeck belt above)
 2. Loosen nut **Z** to remove the transaxle drive belt.
 3. Install a new transaxle drive belt by performing these steps in reverse order.
- NOTE:** Inspect the fans. Replace if worn or damaged.
4. Reinstall cutterdeck belt and guards.



Note: Use belts designed for commercial mowers.

POWER UNITS

ENGINES:

Construction: Aluminum block with cast-in cast iron sleeves. Aluminum head.

Configuration: 4-stroke, vertical shaft, V-twin cylinder, overhead valve, air-cooled

DRIVE SYSTEM:

Transaxles: Dual HydroGear ZT3400 Commercial Duty Hydrostatic transaxles (12cc Pumps)

Turn Radius: True Zero

OPERATOR PRESENCE INTERLOCK SYSTEM:

Start Operation

For the engine to crank, the parking brake must be ON, the PTO (blades) OFF. Stand on the operator platform and check, one by one, if the engine will crank with the parking brake OFF or the PTO (Blades) ON.

Run Operation

In order for the engine to run, the operator must either be standing on the platform, or walking behind the unit with the platform up, the parking brake in the OFF position and the LH control handle held down out of the neutral position. The engine may also run if the parking brake is in the ON position, the LH control handle is in the NEUTRAL position rotated up, and the PTO (blades) are OFF.

To check:

1. Start the engine and run at 1/2 throttle
2. With the LH control handle in the NEUTRAL position rotated up, move the parking brake lever to OFF and turn the PTO (Blades) ON. Each check should kill the engine after 1/2 second delay. (A 1/2 second delay is built into the system to prevent engine cut-out when traversing rough terrain.)

Repair machine before using if the Operator Presence Interlock System does not operate correctly in start or run. Contact your authorized Bradley dealer.

NET WEIGHT:

48SC: 923 lbs (420 kg)

52SC: 945 lbs (430 kg)

TOTAL WEIGHT:

48SC: 1077 lbs (490 kg)

52SC: 1132 lbs (515 kg)

CONTROLS:

Throttle; choke; power takeoff (PTO) clutch switch; control lever; parking brake lever; lift lever

FUEL SYSTEM:

One tank in the control tower with total capacity 5 gallons (19 liters). Replaceable fuel Filter

MAXIMUM GROUND SPEEDS:

Forward: ≈10 mph (16 km/h)

Reverse: ≈6 mph (10 km/h)

WHEELS&TIRES:

Drive wheels:

48SC & 52SC : 23 X 8.5-12 4-Ply Turf
Turf Tires

Casters:

48SC & 52SC: 13 X 5.0-6 tires

Pressure: Rear tires 20 p.s.i.
Front tires 40 p.s.i.

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ENGINES				
MODEL NUMBER	48SC	52SC	48SC	52SC
MANUFACTURER	HONDA (discontinued)	HONDA (discontinued)	BRIGGS & STRATTON	BRIGGS & STRATTON
MODEL	GXV690	GXV690	24HP/25HP/26HP	26HP/27HP
CYLINDERS	2	2	2	2
COOLING	Air	Air	Air	Air
BORE/STROKE	3.07×2.83 " (78×72 mm)	3.07×2.83 " (78×72 mm)	3.30×2.89 " (83.8×73.4mm)	3.30×2.89 " (83.8×73.4mm)
DISPLACEMENT	41.97 cu.in. (688 cc)	41.97 cu.in. (688 cc)	44.18 cu.in (724 cc)	49.43 cu.in (810 cc)
OUTPUT TORQUE	35.6 ft-lb (48.2J) @2500 rpm	35.6 ft-lb (48.2J) @2500 rpm	39.84 ft-lb (54J) @2400rpm	42.3 ft-lb (57.4J) @2800rpm
LUBRICATION	FULL PRESSURE	FULL PRESSURE	FULL PRESSURE	FULL PRESSURE
GOVERNOR	Mechanical	Mechanical	Mechanical	Mechanical
AIR FILTER	Donaldson	Donaldson	Donaldson/Cyclonic	Donaldson/ Cyclonic
IGNITION SYSTEM	Electronic	Electronic	Electronic	Electronic
CHARGING SYSTEM	15 amp,regulator	15 amp,regulator	16 amp,regulator	16 amp,regulator
BATTERY	BCI group U1	BCI group U1	BCI group U1	BCI group U1
FUSES	Two,20 amp blade	Two,20 amp blade	Two,20 amp blade	Two,20 amp blade

CUTTERDECKS		
MODEL NUMBER	48SC	52SC
TYPE	Side Discharge	Side Discharge
CUTTING WIDTH	48 " (122 cm)	52 " (132cm)
WIDTH(CHUTE UP)	48-3/8 " (123 cm)	53-7/8 " (137 cm)
WIDTH	60-7/8 " (155 cm)	66-3/8 " (169 cm)
BLADE	High lift	High lift
NUMBER OF BLADES	3	3
BLADE LENGTH	16-1/4 " (41cm)	18 " (46 cm)
BLADE THICKNESS	13/64 " (5 mm)	13/64 " (5 mm)
BLADE MOUNTING HOLE DIMENSION	5/8 "	5/8 "
TIP SPEED	18490ft/min 5635m/min @3800 Engine RPM	18495 ft/min 5637m/min @3800 Engine RPM
ANTI-SCALP ROLLERS	4	4

CONSTRUCTION:

Fabricated and welded 7-gauge,double-layer steel top with 4-gauge side skirts.Full floating design.

CUTTERDECK DRIVE SYSTEM:

Electric clutch/brake drives belt directly from engine to cutterdeck. No twists in drive belt.
Torque information located on page 16.

SPINDLES:

Top mounted and maintenance free,with1 " shaft in precision machined,steel housing

CUTTING HEIGHT & PRODUCTION:

Height: Lever allows easy setting of cut heights from 1-1/2 " to 4-1/2 " in 1/4 " increments.

Unpacking instructions

1. Wrench: use two 16mm wrenches, remove the packing rack.



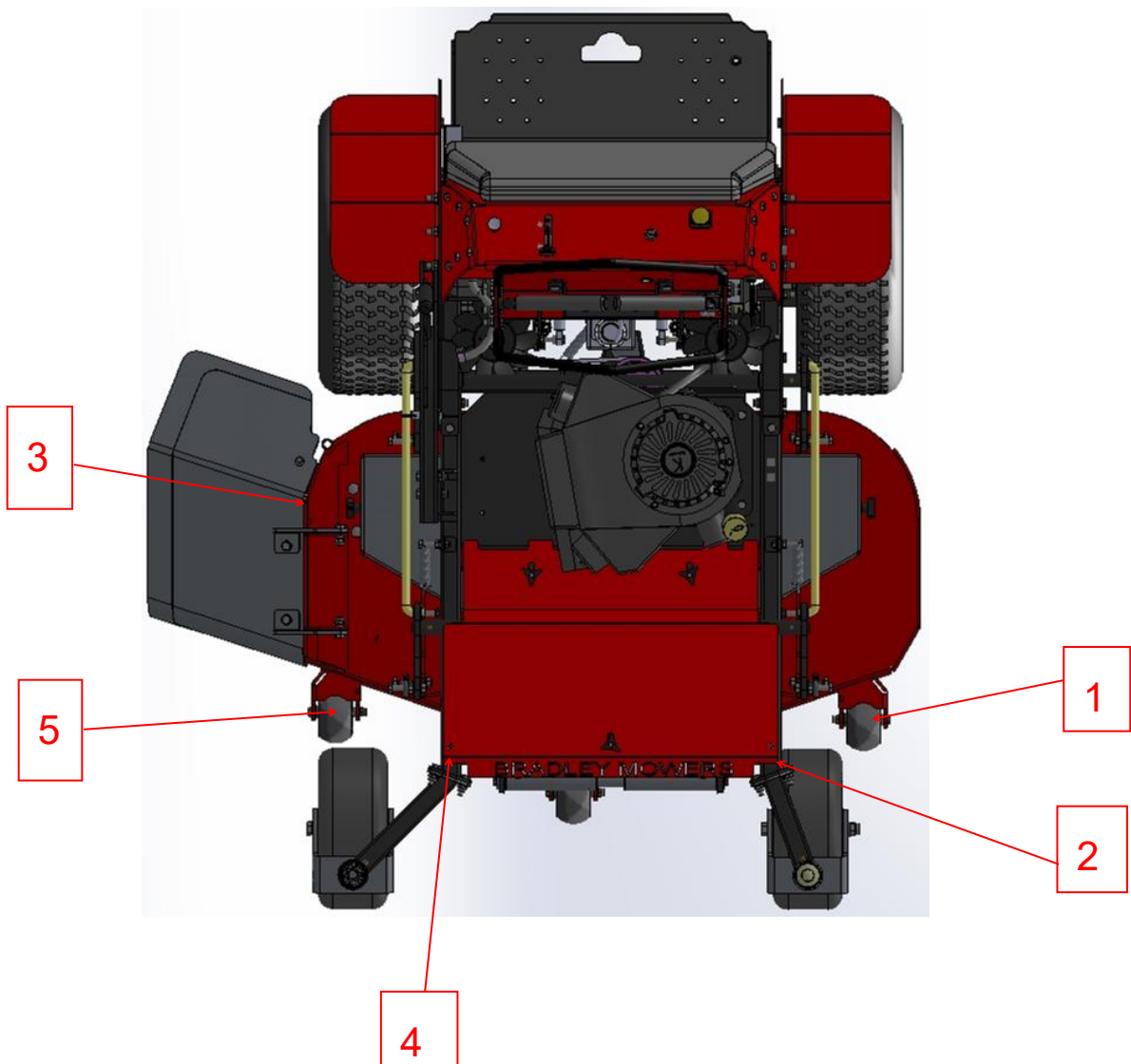
2. Remove the mower from its plastic wrap.



3. Remove belt cover from the mower.



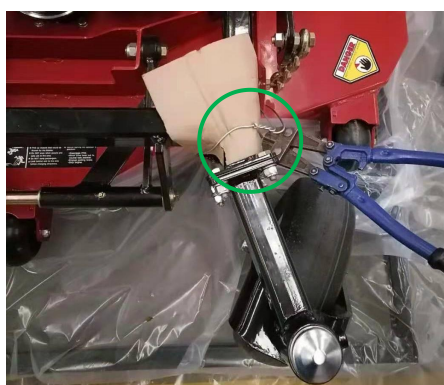
4. Cut off the following five fixed wires.



1.



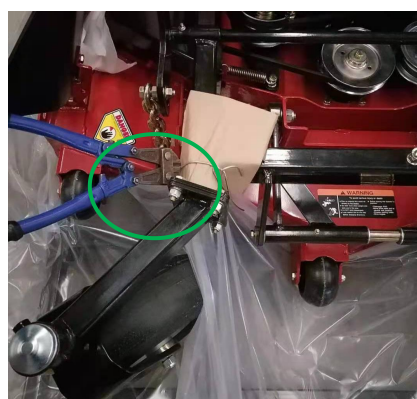
2.



3.



4.



5.



5. Remove the mounting bolts.



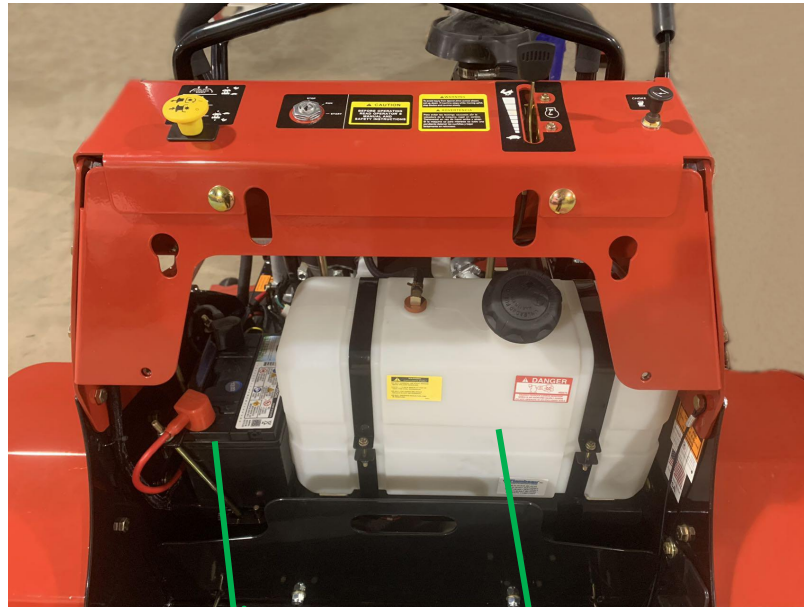
mounting bolts





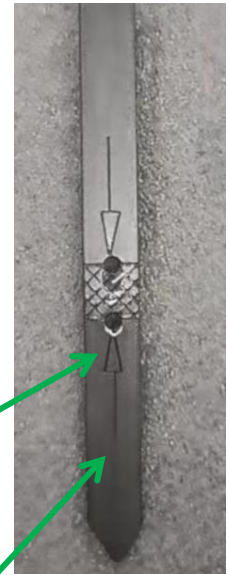
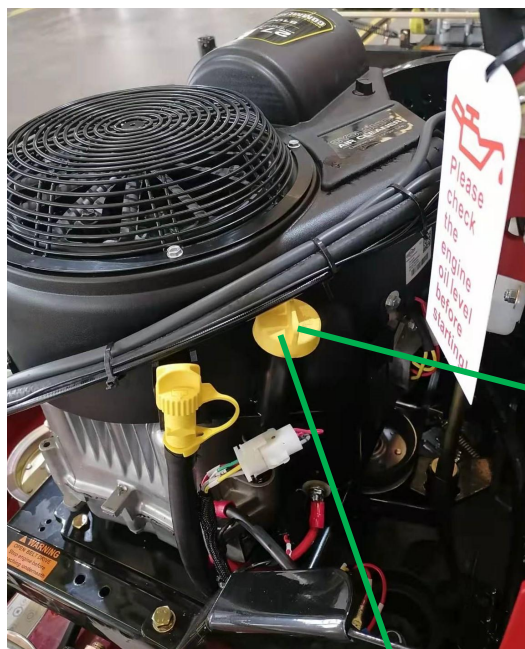
7. Hook up battery cables.

Add engine oil and gasoline under engine instruction.



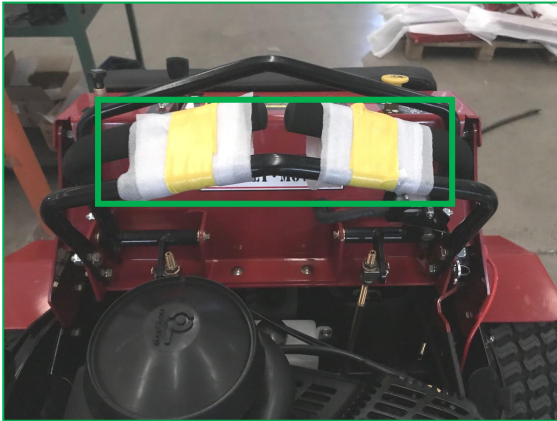
Battery

Gasoline

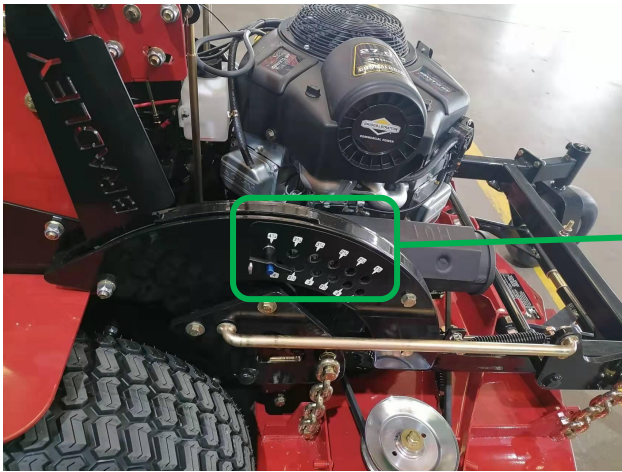


Check the engine

8.Remove the handle fixing strap



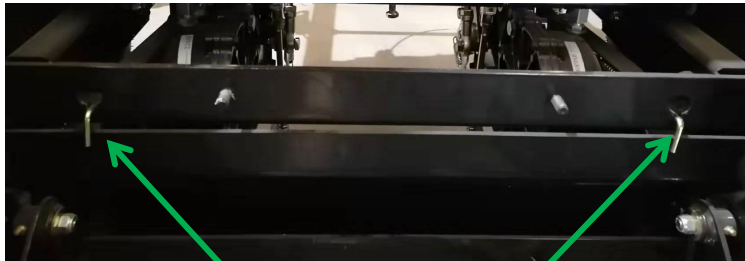
9. Put the four vertical posts in front of the front tire and then lift the mower up to the highest cutting position, push the mower until the back mower fully contact with the crate



Put the four vertical posts in front of the front tire as the ram, as shown in the pic.



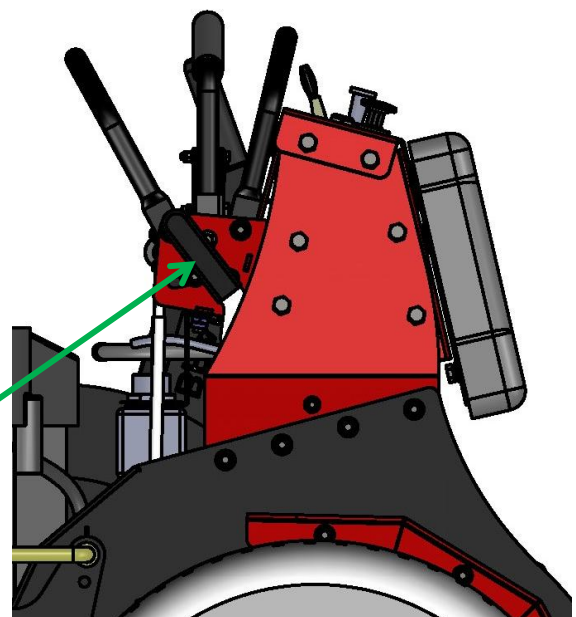
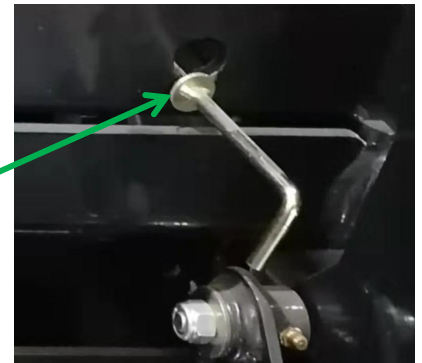
10. Check the mower make sure it is not in neutral and then start the mower, release the parking lever, drive the mower slowly from the crate.



Not in neutral



Neutral



Parking lever

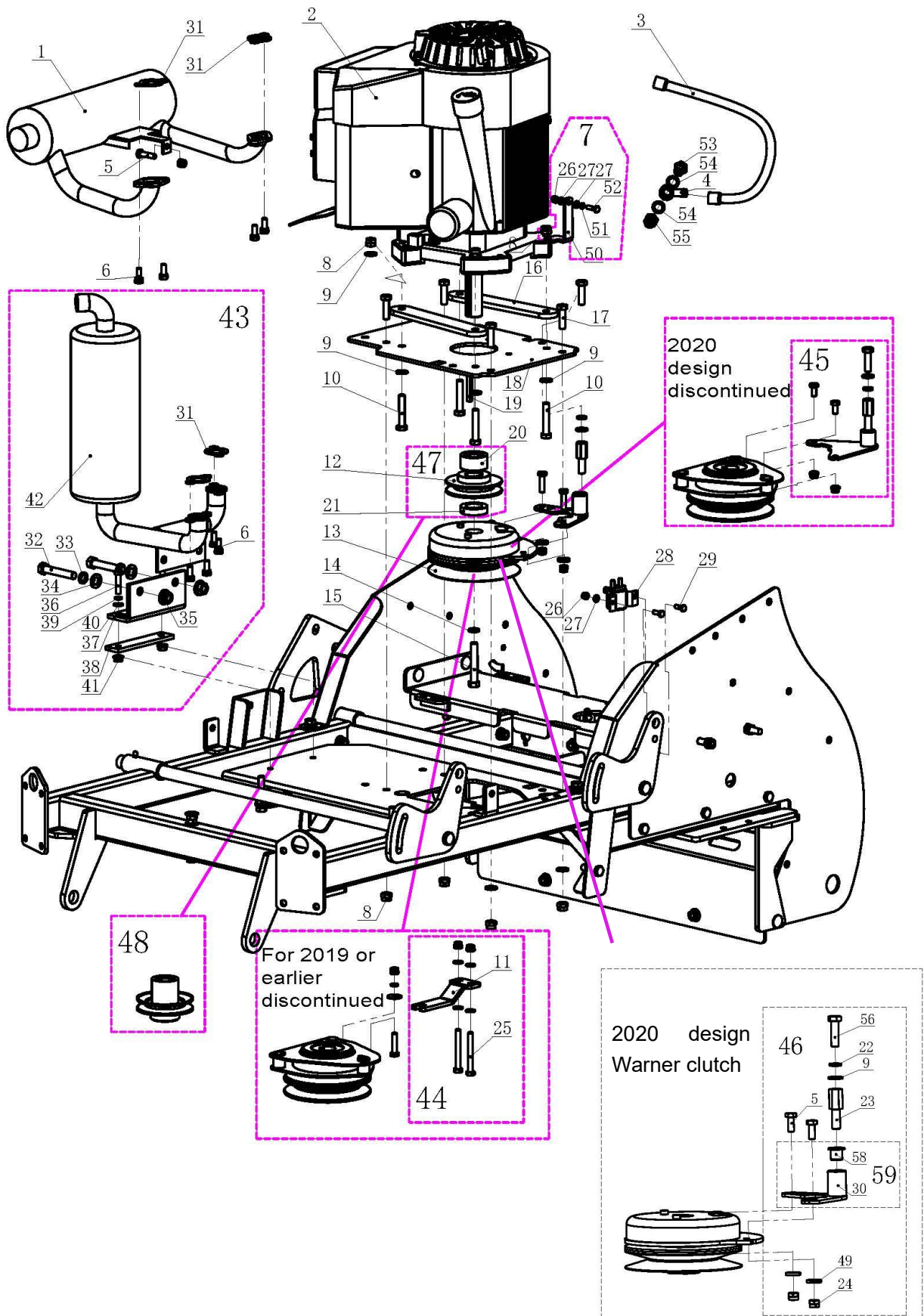


When driving the mower off, notice the base of the crate to avoid trip over



PARTS SECTION

BRIGGS & STRATTON ENGINE ASSEMBLY



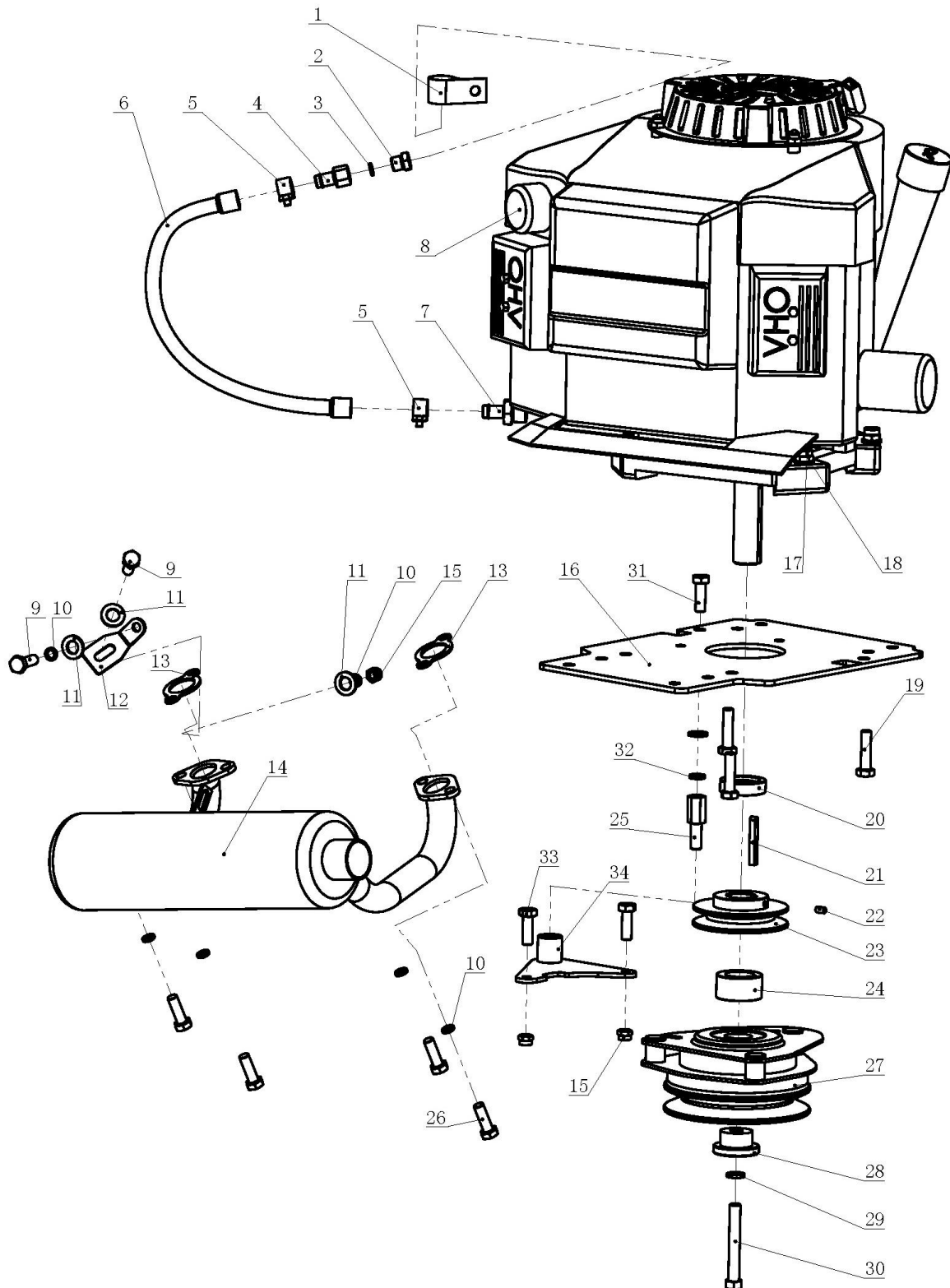
BRIGGS & STRATTON ENGINE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	601-001	Muffler	1
2	601-298	Briggs & Stratton Engine-CT 25HP (48SC)	1
	602-006	Briggs & Stratton Engine-CT 27HP (52SC)	1
	601-299	Briggs & Stratton Engine-V 24HP (48SC)	1
	602-007	Briggs & Stratton Engine-V 26HP (48SC)	1
	602-007	Briggs & Stratton Engine-V 26HP (52SC)	1
3	601-006	Oil Drain Tube Assembly	1
4	601-009	Tubing Connector Weldment	1
5	600-002-0820	Hexagon Bolt M8-1.25x20 GB5783	2
6	200-037	Hexagon Bolt 5/16-18	4
7	601-302	Negative line mounting plate assembly	1
8	600-201-0010	Nylon Nut M10 GB889.1	8
9	600-301-0010	Plain Washer 10 GB95	8
10	600-001-1050	Hexagon Bolt M10-1.5x50 GB5782	4
11	601-022	Clutch limiting fork	1
12	601-011	Engine Pulley	1
13	601-012	Electromagnetic Clutch (Ogura clutch)	1
	604-029	Electromagnetic Clutch (Warner clutch)	1
14	600-904-0011	Lock Washer 7/16	1
15	601-013	Fastening bolt	1
16	601-014	Engine Plate	2
17	600-002-1030	Hexagon Bolt M10-1.5x30 GB5783	4
18	601-015	Engine Mounting Plate	1
19	601-016A	Flat Key 6.35x6.35x55	1
20	601-019A	Pulley Spacer II	1
21	601-018A	Pulley Spacer I	1
22	600-305-0010	Lock Washer 10 GB93	3
23	601-251	Stopper (Ogura clutch)	1
	601-272	Stopper (Warner clutch)	1
24	600-205-0008	Nylon Nut M8 DIN985	2
25	600-002-0890	Hexagon Bolt M8-1.25x90 GB5783	2
26	600-201-0006	Nylon Nut M6 GB889.1	3

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27	600-301-0006	Plain Washer 6 GB95	4
28	601-021	Solenoid	1
29	600-002-0616	Hexagon Bolt M6-1x16 GB5783	2
30	601-022A	Electromagnetic Clutch Stop (Ogura clutch)	1
	604-031	Electromagnetic Clutch Stop (Warner clutch)	1
	604-036	Electromagnetic Clutch Stop upgrade design (Warner clutch)	1
31	601-208	Gasket	2
32	600-002-1235	Hexagon Bolt M12-1.75x35 GB5783	2
33	600-305-0012	Lock Washer 12 GB93	2
34	600-301-0012	Plain Washer 12 GB95	2
35	600-202-0012	Nut Flange M12 QC864	2
36	600-002-0830	Hexagon Bolt M8-1.25x30 GB5783	2
37	601-252	Muffler connecting plate	1
38	601-253	Rubber gasket	1
39	600-305-0008	Lock Washer 8 GB93	2
40	600-302-0008	Plain Washer 8 GB95	2
41	600-202-0008	Nut Flange M8 QC864	2
42	601-254	Vertical muffler	1
43	601-257	Vertical muffler for Vanguard engine	1
44	601-255	Clutch stop assembly for 2019 or earlier	1
45	601-256	Clutch stop assembly upgrade design (Ogura clutch)	1
46	601-265	Clutch stop assembly upgrade design (Warner clutch)	1
47	601-268	Engine pulley and washer assembly (Discontinued)	1
48	601-269	One piece engine pulley	1
49	336-239	Plain Washer	2
50	601-295	Negative line mounting plate	1
51	600-305-0006	Spring Washer 6 GB93	1
52	600-002-0620	Hexagon Bolt M6*20 GB5783	1
53	601-008	Drain Bolt	1
54	601-007	Composite Gasket	2
55	601-010	Fuel Drain Connection	1
56	600-002-1025	Hexagon Bolt M10-1.5x25 GB5783	1
57	600-002-0816	Hexagon Bolt M8-1.25x16 GB5783	1
58	604-044	Nylon Sleeve	1
59	601-314	Electromagnetic Clutch Stop (Warner clutch)	1

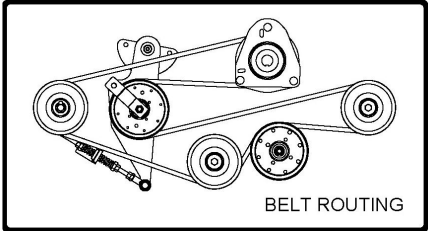
HONDA ENGINE ASSEMBLY (Discontinued)



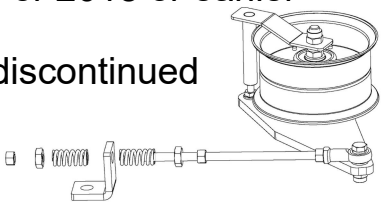
HONDA ENGINE ASSEMBLY (Discontinued)

ITEM	PART NO.	DESCRIPTION	QTY
1	601-200	Clamp	1
2	601-201	Plug	1
3	601-202	Nylon Cushion	1
4	601-203	Plug Connector	1
5	601-204	Oil Drain Clip	2
6	601-205	Drain Tube	1
7	601-206	Oil Drain Fitting	1
8	601-004	HONDA Engine	1
9	600-002-0820	Hexagon Bolt M8-1.25x20 GB5783	2
10	600-305-0008	Lock Washer 8 GB93	6
11	600-301-0008	Plain Washer 8 GB95	3
12	601-207	Bracket	1
13	601-208	Gasket	2
14	601-002	Muffler-Engine	1
15	600-201-0008	Nylon Nut M8 GB889.1	3
16	601-015	Engine Mounting Plate	1
17	600-201-0010	Nylon Nut M10 GB889.1	4
18	600-301-0010	Plain Washer 10 GB95	4
19	600-001-1050	Hexagon Bolt M10-1.5x50 GB5782	4
20	601-209	Adjusting Sleeve I	1
21	601-016A	Flat Key	1
22	600-103-0610	Screw M6-1x10 GB77	1
23	601-011	Engine Pulley	1
24	601-019A	Pulley Spacer II	1
25	601-251	Stopper	1
26	200-037	Hexagon Bolt 5/16-18	4
27	601-012	Electromagnetic Clutch	1
28	601-020	Guide Bushing	1
29	600-904-0011	Lock Washer 7/16	1
30	601-013	Set Screw	1
31	600-002-1020	Hexagon Bolt M10-1.5x20 GB5783	1
32	600-305-0010	Lock Washer 10 GB93	1
33	600-002-0816	Hexagon Bolt M8-1.25x40 GB5783	2
34	601-022A	Electromagnetic Clutch Stop	1

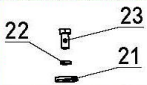
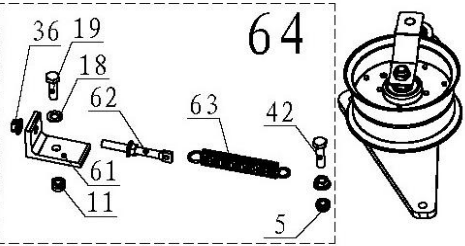
MOWER DECK ASSEMBLY



For 2018 or earlier
discontinued



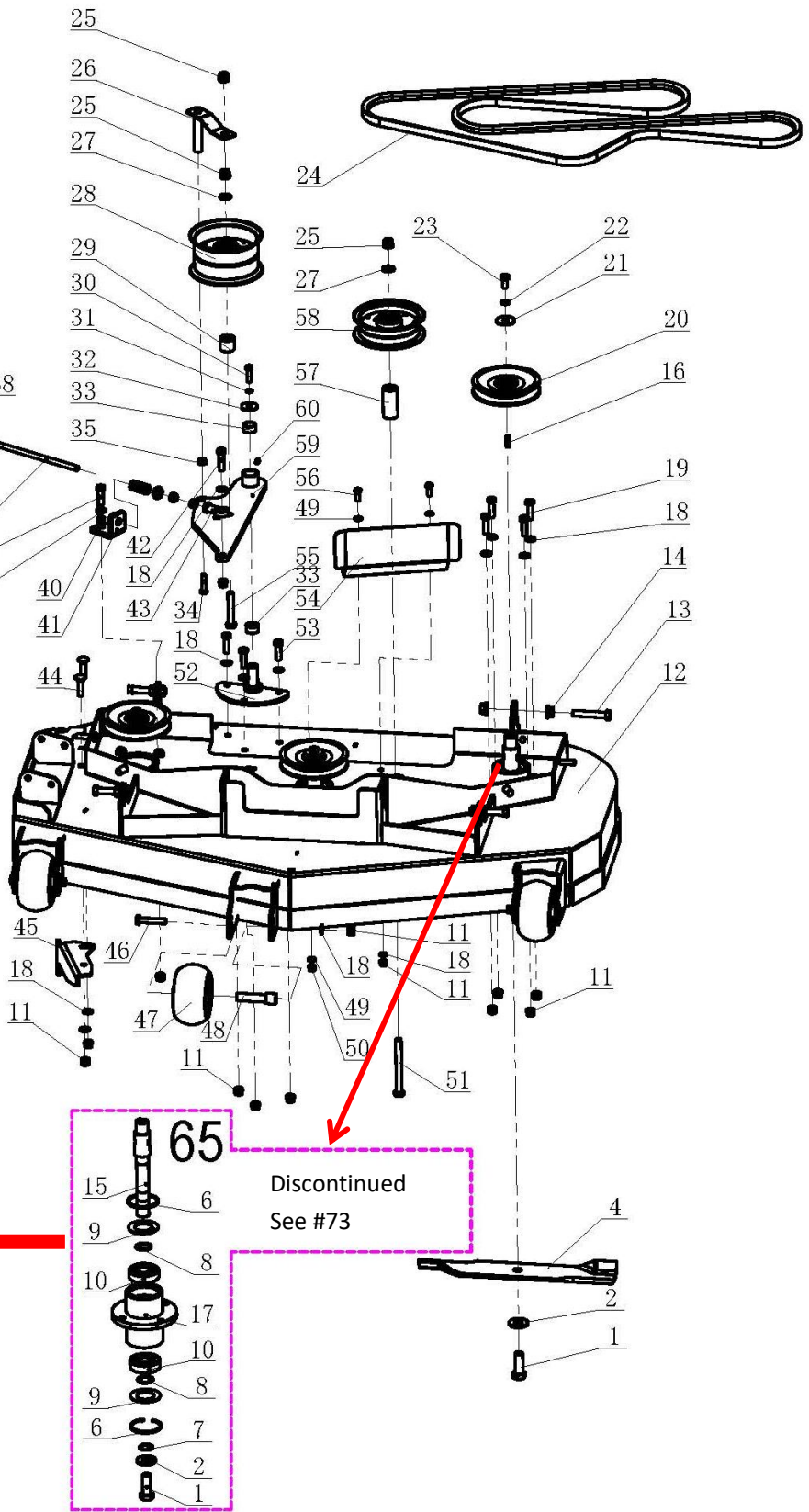
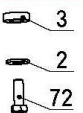
2019 upgrade design



66

2022 upgrade design

73



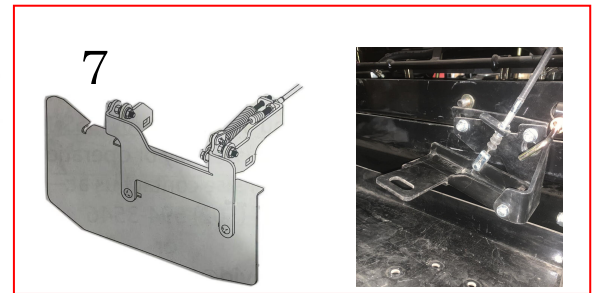
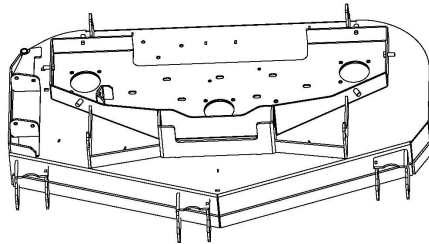
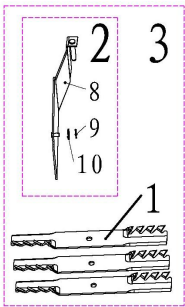
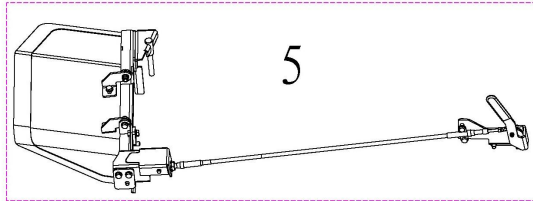
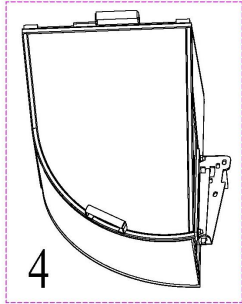
MOWER DECK ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	601-023	Blade Bolt M16-1.5x45	3
2	600-902-0016	Spring Washer 16 DIN6796	3
3	601-281	Plain Washer	3
4	601-025	Blade 48 "	3
	602-001	Blade 52 "	3
5	600-205-0010	Thin Nylon Nut M10 DIN985	1
6	600-306-0062	Snap Ring 62 GB893.1	6
7	600-307-0025	Snap Ring 25 GB894.1	3
8	601-027	Plain Washer	6
9	601-028	Plain Washer	6
10	600-501-6305	Deep Groove Ball Bearings 6305-2RS GB276	6
11	600-201-0010	Nylon Nut M10 GB889.1	21
12	601-029	Deck 48 "	1
	602-002	Deck 52 "	1
13	600-002-1255	Bolt M12-1.75x50 GB5783	4
14	600-202-0012	Nut Flange M12 QC/T864	8
15	601-030	Spindle Shaft	3
16	600-401-0830	Flat Key 8*7*30	3
17	601-031	Spindle	3
18	600-301-0010	Plain Washer 10 GB95	21
19	600-002-1035	Bolt M10-1.5x35 GB5783	13
20	601-032a	Pulley Spindle (48SC)	3
	602-005	Pulley Spindle (52SC)	3
21	601-033	Plain Washer	3
	601-313	Plain Washer (New Design Spindle Assembly)	3
22	600-305-0010	Lock Washer 10 GB93	3
	600-305-0012	Lock Washer 12 GB93 (New Design Spindle Assembly)	3
23	600-002-1020	Bolt M10-1.5x20 GB5783	3
	600-002-1230	Bolt M12-1.75x30 GB5783 (New Design Spindle Assembly)	3
24	601-034	SC48 Deck Belt LB123	1
	602-004	SC52 Deck Belt LB132	1
25	600-201-0012	Nylon Nut M12 GB889.1	3
26	601-035	Idler Arm	1
27	600-301-0012	Plain Washer 12 GB95	2
28	601-036	Idler Pulley	1
29	601-037	Straight Pivot	1
30	600-002-0820	Bolt M8-1.25x20 GB5783	1
31	600-305-0008	Lock Washer 8 GB93	1

Bradley Stand-On Compact Mower Parts List

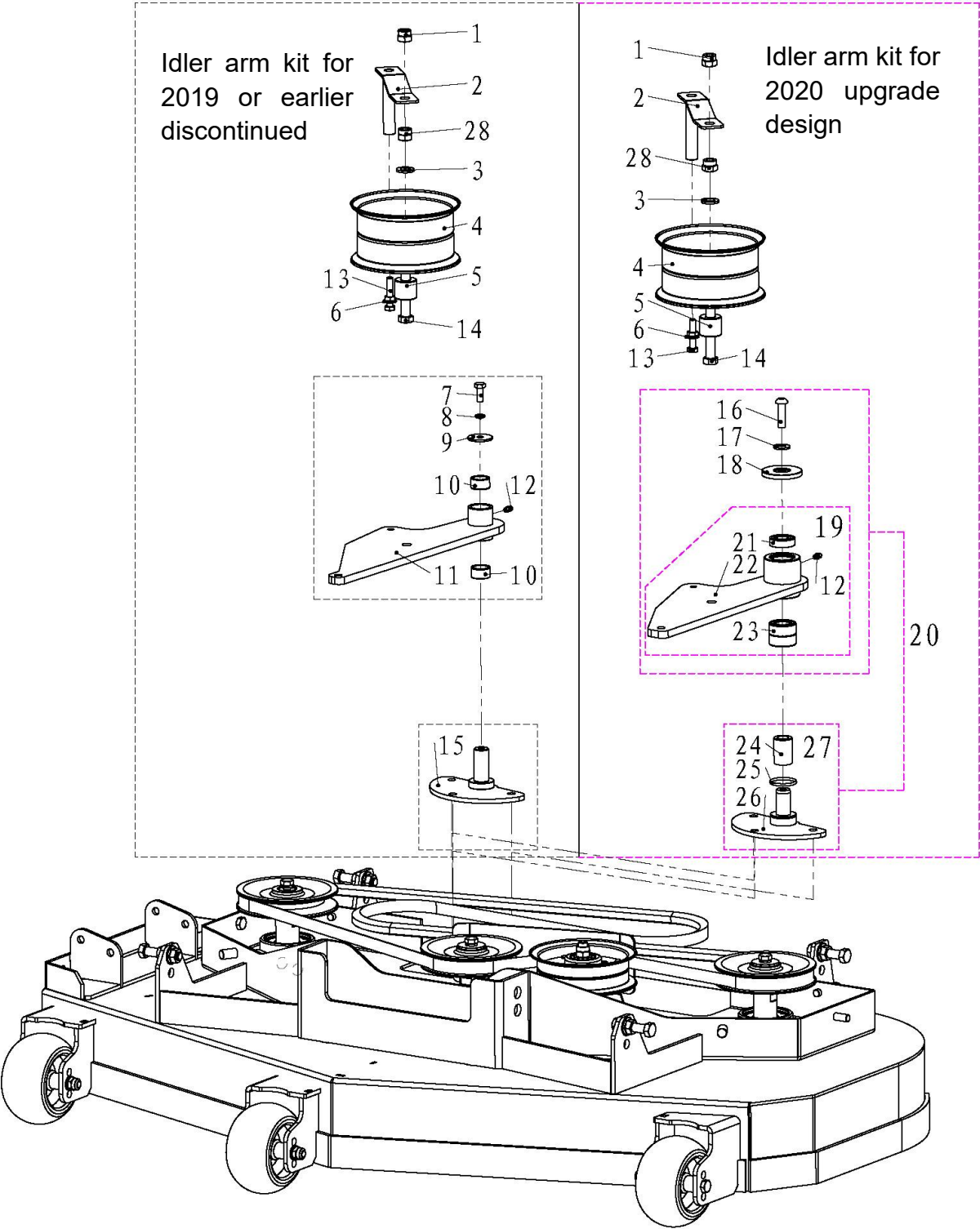
32	601-038	Plain Washer 8 GB95	1
33	601-039	Bushing, Flange Pivot	2
34	600-002-0840	Hexagon Bolt M8-1.25x45 GB5783	1
35	600-202-0008	Nut Flange M8 QC/T864	1
36	600-202-0010	Nut Flange M10 QC/T864	3
37	601-040	Nut	2
38	601-041	Compression Spring	2
39	601-197	Arm pull rod	1
40	601-198	Link Bushing	1
41	601-199	Mount Bracket	1
42	600-002-1040	Hexagon Bolt M10-1.5x40 GB5783	1
43	600-903-0010	Rod End RH10	1
44	600-003-1025	Hexagon Bolt M10-1.5x25 GB801	2
45	601-042	Safety Flap	1
46	600-001-10110	Hexagon Bolt M10*1.5*110 GB5782	4
47	601-043	Anti-Scalp Wheel	4
48	601-044	Bushing	4
49	600-301-0008	Plain Washer 8 GB95	4
50	600-201-0008	Nylon Nut M8 GB889.1	2
51	600-001-12140	Hexagon Bolt M12-1.75x140 GB5783	1
52	601-068a	Mounting Plate Weldment	1
53	600-002-1025	Hexagon Bolt M10-1.5x25 GB5783	3
54	601-046	Belt Guide	1
55	600-001-12120	Hexagon Bolt M12-1.75x120 GB5782	2
56	600-002-0825	Hexagon Bolt M8-1.25x25 GB5783	2
57	601-047	Straight Pivot	1
58	601-048	Idler Pulley	1
59	601-210	Idler Arm	1
60	600-901-0006	Grease fitting M6*1 GB1152	1
61	601-249	Tension spring bracket	1
62	601-273	Rod Thread	1
63	604-039	Diamond bracket tension spring	1
64	601-250	Idler linkage upgrade kit	1
65	601-214	Spindle Assembly (discontinued)	3
66	601-311	Spindle (For 2022 new structure spindle)	3
67	601-277	Spindle Shaft	3
68	100c-017	Bearing cap	3
69	601-278	Bearing cover block	3
70	601-279	Bearing bushing	3
71	601-280	Nut	3
72	601-274	Blade Bolt M16-1.5x60	3
73	601-275	Spindle Assembly (For 2022 new structure spindle)	3

OPTIONAL PARTS



optional			
ITEM	PART NO.	DESCRIPTION	QTY
1	500-203	Mulching blade for 52"	1
	500-204	Mulching blade for 48"	1
2	601-241	Mulch Plate Assembly for 48"	1
	601-242	Mulch Plate Assembly for 52"	1
3	601-243	Mulch kit for 48"	1
	601-244	Mulch kit for 52"	1
4	GC2400	Grass catcher	1
5	48-OCDC	OCDC kit for 48SC	1
	52-OCDC	OCDC kit for 52SC	1
6	GF-48/52OCDC-HC	Handle Control Grass Flap OCDC For 48/52SC	1
7	GF-48/52OCDC-FC	Grass Flap Foot Pedal Control OCDC For 48/52SC	1
8	601-310	Mulch plate weldment	1
9	601-124	Hair Pin Cotter	1
10	600-302-0010	Plain Washer 10	1

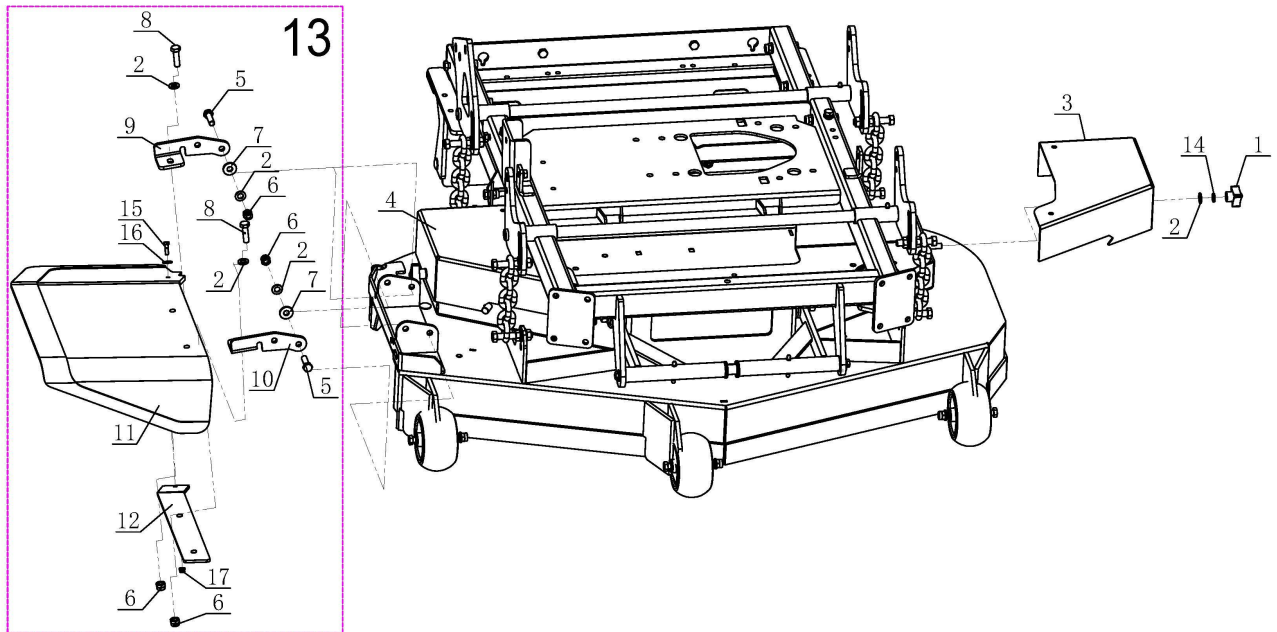
IDLER ARM STRUCTURE COMPARISON



IDLER ARM STRUCTURE COMPARISON

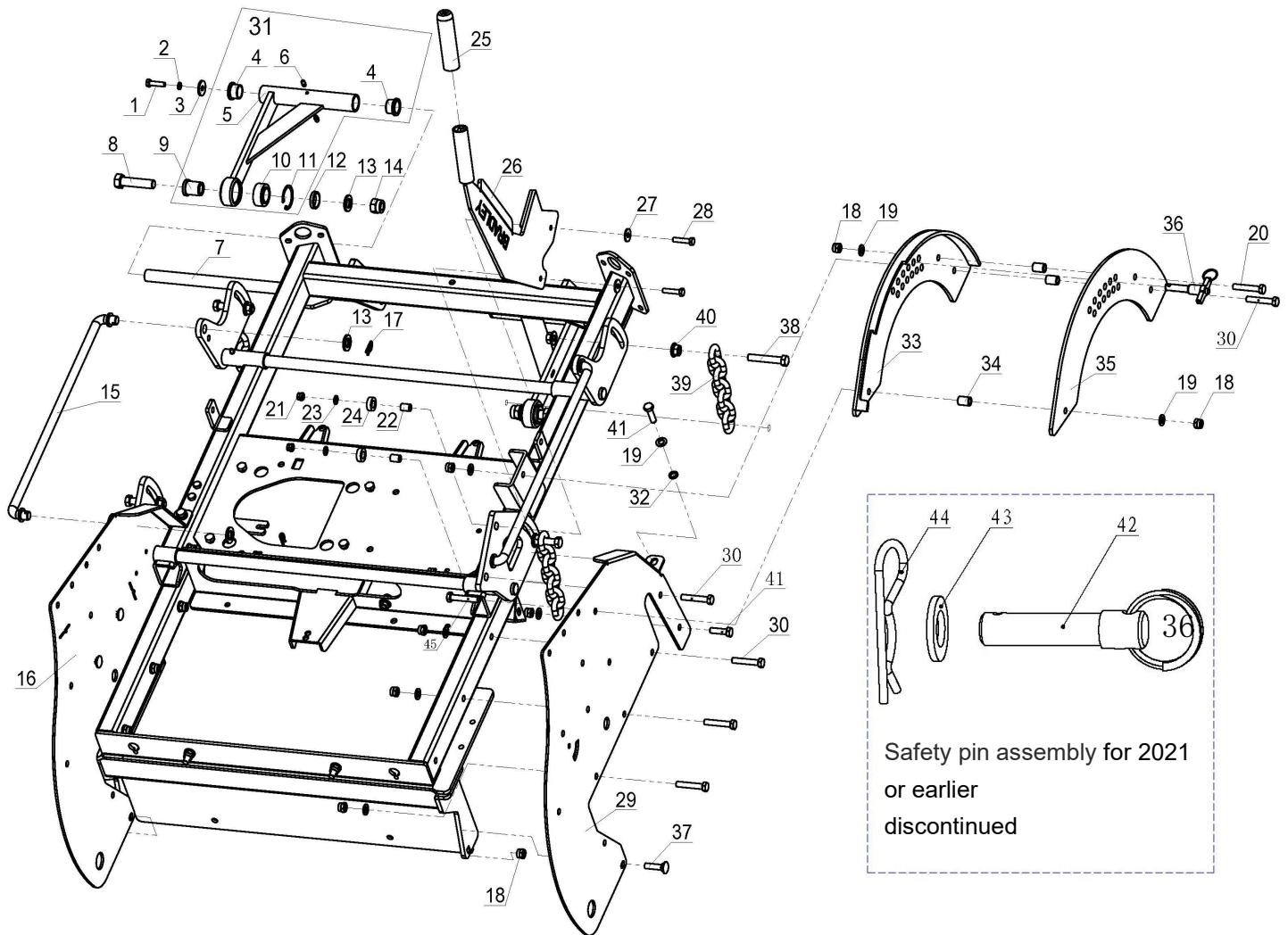
ITEM	PART NO.	DESCRIPTION	QTY
1	600-205-0012	Nylon Nut M12 DIN985	1
2	601-035	Idler Arm	1
3	600-301-0012	Plain Washer 12 GB95	1
4	601-036	Idler Pulley	1
5	601-037a	Straight Pivot	1
6	600-202-0008	Nut Flange M8 QC/T864	1
7	600-002-0820	Bolt M8-1.25x20 GB5783	1
8	600-305-0008	Lock Washer 8 GB93	1
9	601-038	Plain Washer 8 GB95	1
10	601-039	Bushing, Flange Pivot	2
11	601-210	Idler Arm	1
12	600-901-0006	Grease fitting M6*1 45° GB1152	1
13	600-002-0845	Hexagon Bolt M8-1.25x45 GB5783	1
14	600-001-12120	Hexagon Bolt M12-1.75x120 GB5782	1
15	601-045	Mounting Plate Weldment	1
16	600-004-1035	Bolt M10-1.5x35 GB70.2	1
17	600-902-0010	Butterfly Washer 10 DIN6796	1
18	604-025	Dustproof cap of bearing	1
19	604-022A	Idler Arm assembly	1
20	604-034	Idler arm kit	1
21	600-501-6300	Deep Groove Ball Bearings 6300	1
22	604-022	Idler Arm	1
23	600-504-6904	Needle bearing RNA6904	1
24	604-026	Lining of needle bearing RNA6904	1
25	600-601-3003	Rubber sealing ring	1
26	604-023	Mounting Plate Weldment	1
27	601-045a	Mounting Plate assembly	1
28	600-201-0012	Nylon Nut M12 GB889.1	1

CHUTE AND BELT GUARD ASSEMBLY



ITEM	PART NO.	DESCRIPTION	QTY
1	601-080	Knob	2
2	600-301-0010	Plain Washer 10 GB95	6
3	601-131	Left Belt Guard	1
4	601-132	Right Belt Guard	1
5	600-002-1030	Hexagon Bolt M10-1.5x30 GB5783	2
6	600-201-0010	Nylon Nut M10 GB889.1	4
7	601-133	Nylon Washer	2
8	600-002-1035	Bolt M10-1.5x35 GB5783	2
9	601-134	Left Chute Pivot	1
10	601-135	Right Chute Pivot	1
11	601-136	Chute Deflector	1
12	336-250	Backing Plate	1
13	601-229	Rubber Chute Assembly	1
14	600-305-0010	Lock washer 10 GB93	2
15	600-002-0625	Bolt M6X25	1
16	600-301-006	Plain Washer 6	1
17	600-201-0006	Nylon Nut M6	1

DECK LIFT ASSEMBLY



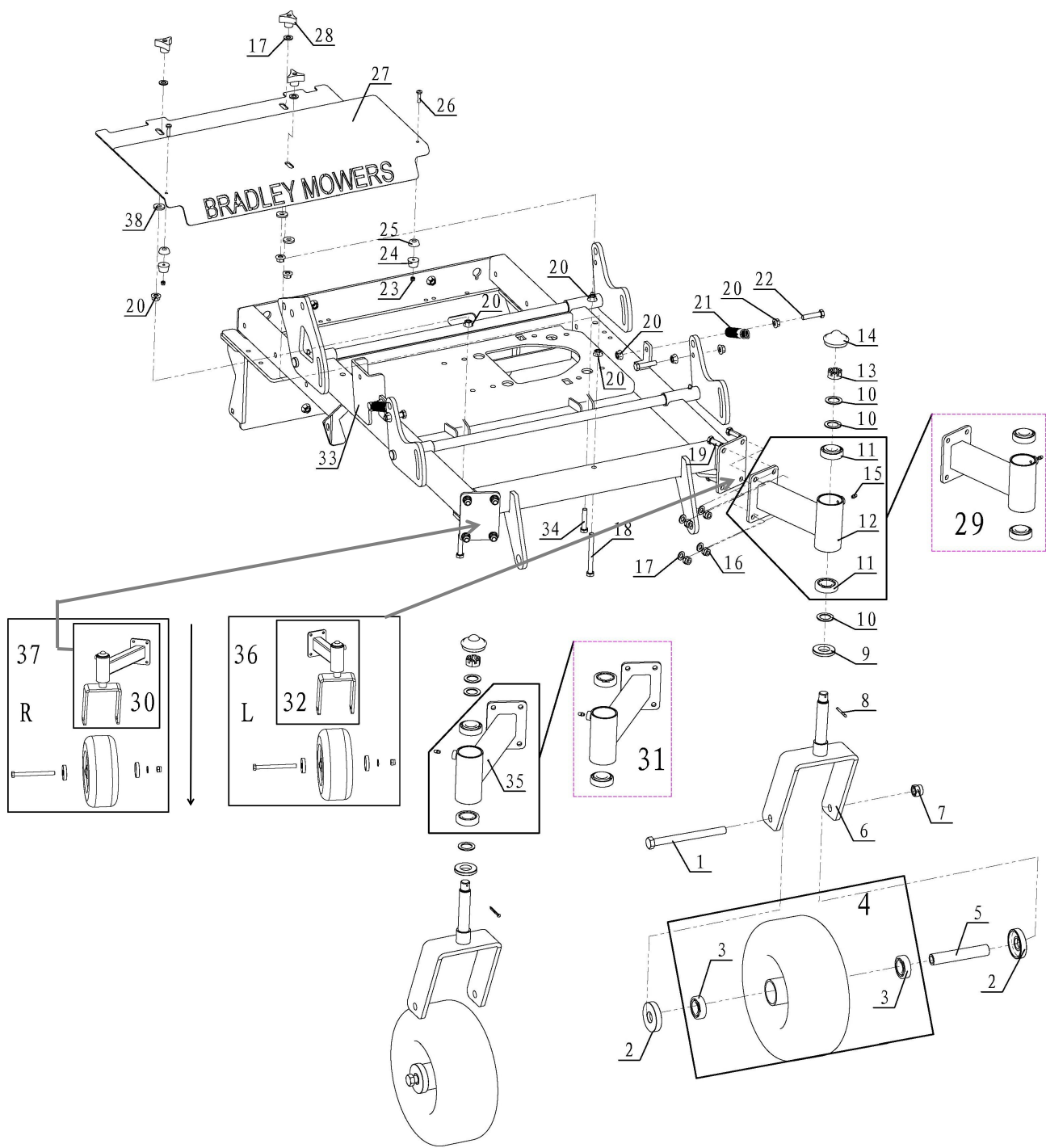
DECK LIFT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	600-002-0820	Hexagon Bolt M8-1.25x20 GB5783	2
2	600-305-0008	Lock Washer 8 GB93	2
3	600-304-0008	Plain Washer 8 GB5287	2
4	601-049	Link Bushing	4
5	601-050	Link Idler Arm	2
6	600-901-0006	Grease Fitting M6*1 GB1152	8
7	601-051	Pivot Shaft	1
8	600-002-1660	Hexagon Bolt M16-2x60 GB5783	2
9	601-052	Rod End Bushing	2
10	600-903-0025	Rod End GE25ES	2
11	600-306-0042	Snap Ring 42	2
12	601-053	Rod End Washer	2
13	600-301-0016	Plain Washer 16 GB95	6
14	600-201-0016	Nylon Nut M16 GB889.1	2
15	601-054	Lift Lever	2
16	601-055	Left Riser	1
17	600-403-0332	Cotter Pin 3*32	4
18	600-201-0010	Nylon nut M10 GB889.1	12
19	600-301-0010	Plain Washer 10 GB95	12
20	600-002-1050	Hexagon Bolt M10-1.5x50 GB5783	1
21	600-201-0008	Nylon Nut M8 GB889.1	2
22	601-056	Lift Handle Bushing	2
23	600-301-0008	Plain Washer 8 GB95	2
24	601-057	Rubber Handle Sleeve	2
25	601-058	Handle Sleeve	1
26	601-059	Handle Weldment	1
27	600-302-0008	Plain Washer 8 GB96.1	2
28	600-002-0840	Hexagon Bolt M8-1.25x40 GB5783	2
29	601-060	Right Riser	1
30	600-001-1060	Hexagon Bolt M10-1.5x60 GB5782	8
31	601-270	Idler arm assembly	1
32	600-305-0010	Lock Washer 10 GB93	2
33	601-062a	Dial Weldment	1
34	601-063	Lift Bushing	3
35	601-064a	Foreplate	1
36	601-271	Safety Pin ugrade design	1
	601-282	Safety pin assembly for 2021 or earlier discontinued	1
37	600-003-1025	Hexagon Bolt M10-1.5x25 GB801	2
38	600-002-1250	Hexagon Bolt M12-1.5x50 GB5783	4
39	601-066	Chain	4
40	600-202-0012	Nut Flange M12 QC/T864	8

DECK LIFT ASSEMBLY

41	600-002-1025	Hexagon Bolt M10-1.5x25 GB5783	2
42	601-065	Safety Pin	1
43	600-301-0012	Plain Washer 12 GB95	1
44	601-061	Hair Pin Cotter $\phi 3$	1
45	600-002-1055	Hexagon Bolt M10-1.5x55 GB5783	2

CASTER & BELT COVER ASSEMBLY



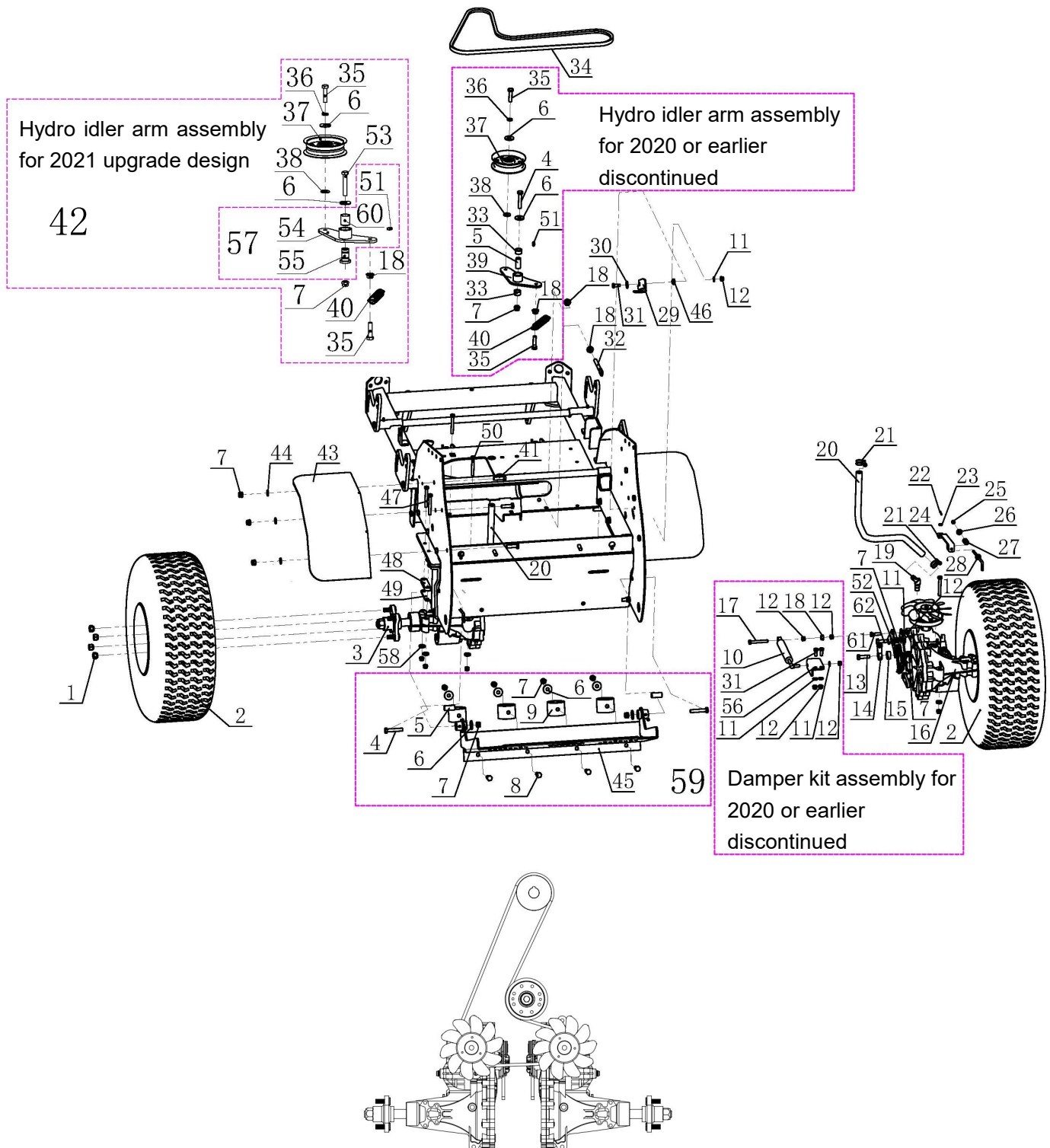
CASTER & BELT COVER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	600-001-16180	Hexagon Bolt M16-2x180 GB5782	2
2	601-067	Bearing End Cover	4
3	600-501-6205	Bearing 6205-2RS	4
4	601-215F	Flat free tire assembly	2
	601-215	Front tire assembly	2
5	601-069	Front Axle	2
6	601-070	Castor Yoke	2
7	600-201-0016	Nylon Nut M16 GB889.1	2
8	600-403-0436	Cotter Pin 4*36	2
9	601-071	Washer 7.5	2
10	601-072	Washer	6
11	600-502-30205	Tapered Roller Bearing 30205	4
12	601-073	Castor Support	1
13	601-074	Hexagon Slot Nut	2
14	601-075	Shaft Cover	2
15	600-901-0006	Grease Fitting M6*1 GB1152	2
16	600-201-0010	Nylon Nut M10 GB889.1	8
17	600-301-0010	Plain Washer 10 GB95	8
18	600-002-10100	Hexagon Bolt M10-1.5x100 GB5783	1
19	600-002-1030	Hexagon Bolt M10-1.5x30 GB5783	8
20	600-202-0010	Nut Flange M10 QC/T864	14
21	601-076	Traction Spring	2
22	600-001-1045	Hexagon Bolt M10-1.5x45 GB5782	4
23	600-201-0005	Nylon Nut M5 GB889.1	2
24	601-077	Rubber Seat I	2
25	601-078	Rubber Bushing	2
26	600-101-0525	Screw M5-0.8x25 GB818	2
27	601-079	Belt Cover	1
28	601-080	Knob	3
29	601-247	Left front arm assembly	1
30	601-240	The right front wheel fork components (Stand behind the mower)	1
31	601-246	Right front arm assembly	1
32	601-239	The left front wheel fork components (Stand behind the mower)	1

CASTER & BELT COVER ASSEMBLY

33	601-083	Frame	1
34	600-002-1050	Hexagon Bolt M10-1.5x50 GB5783	2
35	601-084	Castor Support	1
36	601-237	Left front wheel assembly	2
37	601-238	Right front wheel assembly	2
38	348-106	shock pad	3

WHEEL & TRANSAXLE ASSEMBLY



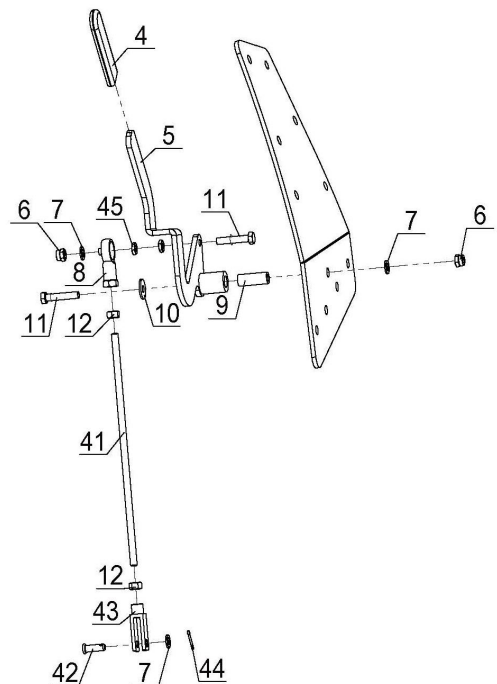
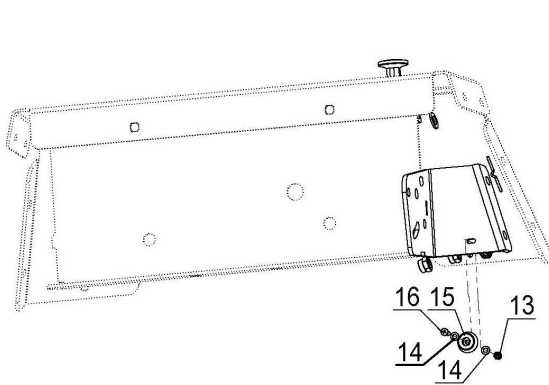
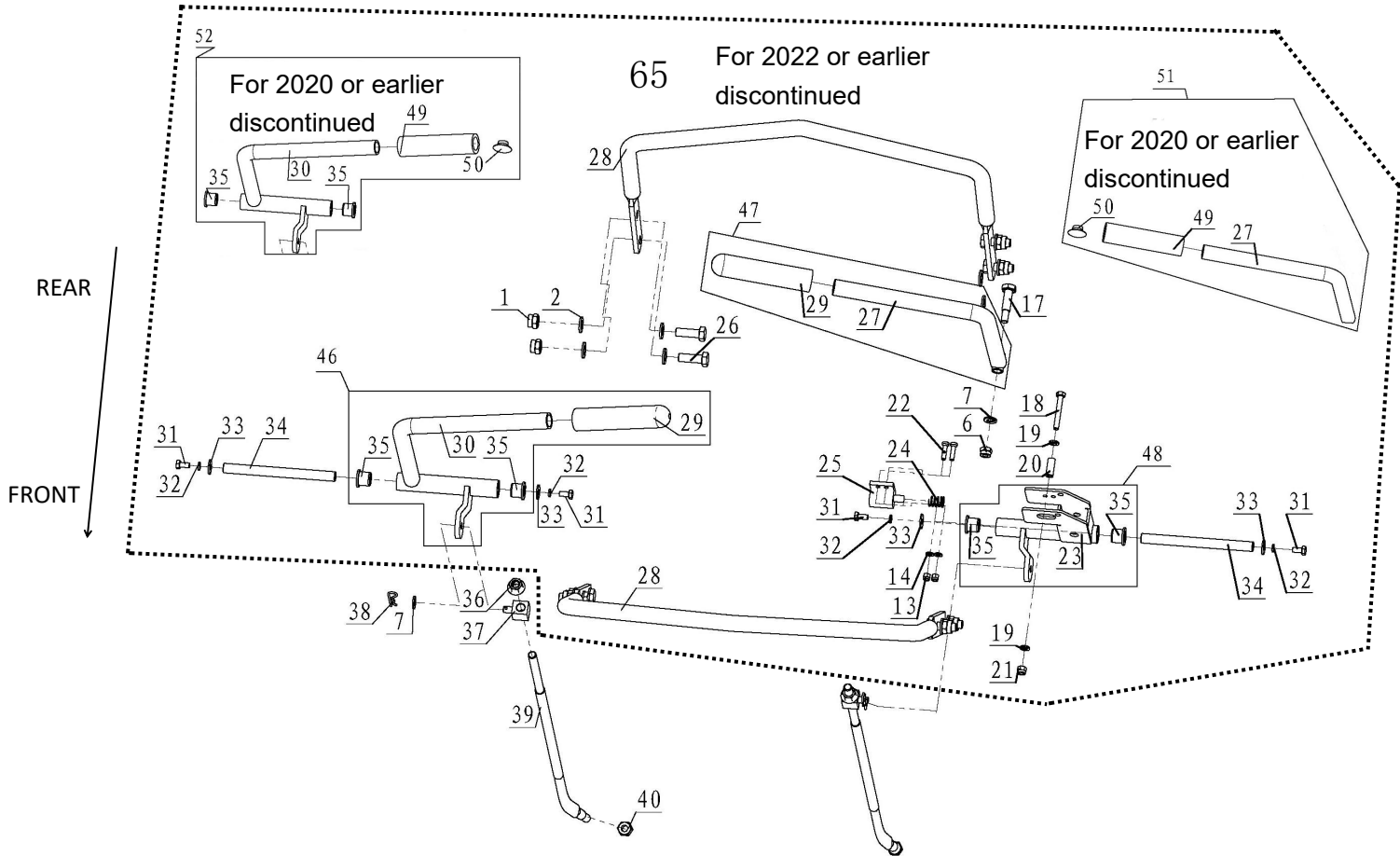
WHEEL & TRANSAXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	601-085	Nut 1/2-20	8
2	601-086	Tire And Wheel Assembly 23X8.5-12	2
3	601-087	Left Hydraulic Motor	1
4	600-001-1055	Hexagon Bolt M10-1.5x55 GB5782	3
5	601-088	Pivot Hub	3
6	600-302-0010	Plain Washer 10 GB96.1	6
7	600-201-0010	Nylon Nut M10 GB889.1	17
8	600-002-1030	Hexagon Bolt M10-1.5x30 GB5783	4
9	601-089	Bumper	4
10	601-090	Damper	2
11	600-301-0008	Plain Washer 8 GB95	3
12	600-201-0008	Nylon Nut M8 GB889.1	11
13	600-002-1040	Hexagon Bolt M10-1.5x40 GB5783	2
14	600-903-0010	Rod End RH10	2
15	603-123	Spacer	2
16	601-092	Right Hydraulic Motor	1
17	600-002-0860	Hexagon Bolt M8-1.25x60 GB5783	2
18	600-202-0008	Nut Flange M8 QC/T864	5
19	601-093	Fitting	2
20	601-094	Hydraulic Tubing	1
21	601-095	Tubing Fitting	4
22	600-403-0220	Cotter Pin 2*20	2
23	600-301-0006	Plain Washer 6 GB95	2
24	601-096	Plate Weldment	2
25	600-201-0006	Nylon Nut M6 GB889.1	2
26	600-302-0006	Plain Washer 6 GB96.1	2
27	601-097	Parking Spring I	2
28	601-098	Pull Rod	2
29	601-099	Clevis	1
30	600-302-0008	Plain Washer 8 GB96.1	1
31	600-002-0825	Hexagon Bolt M8-1.25x25 GB5783	5
32	601-100	Rod Thread	1
33	601-102	Bushing, Straight Pivot	2
34	601-103	Transmission Belt A61	1

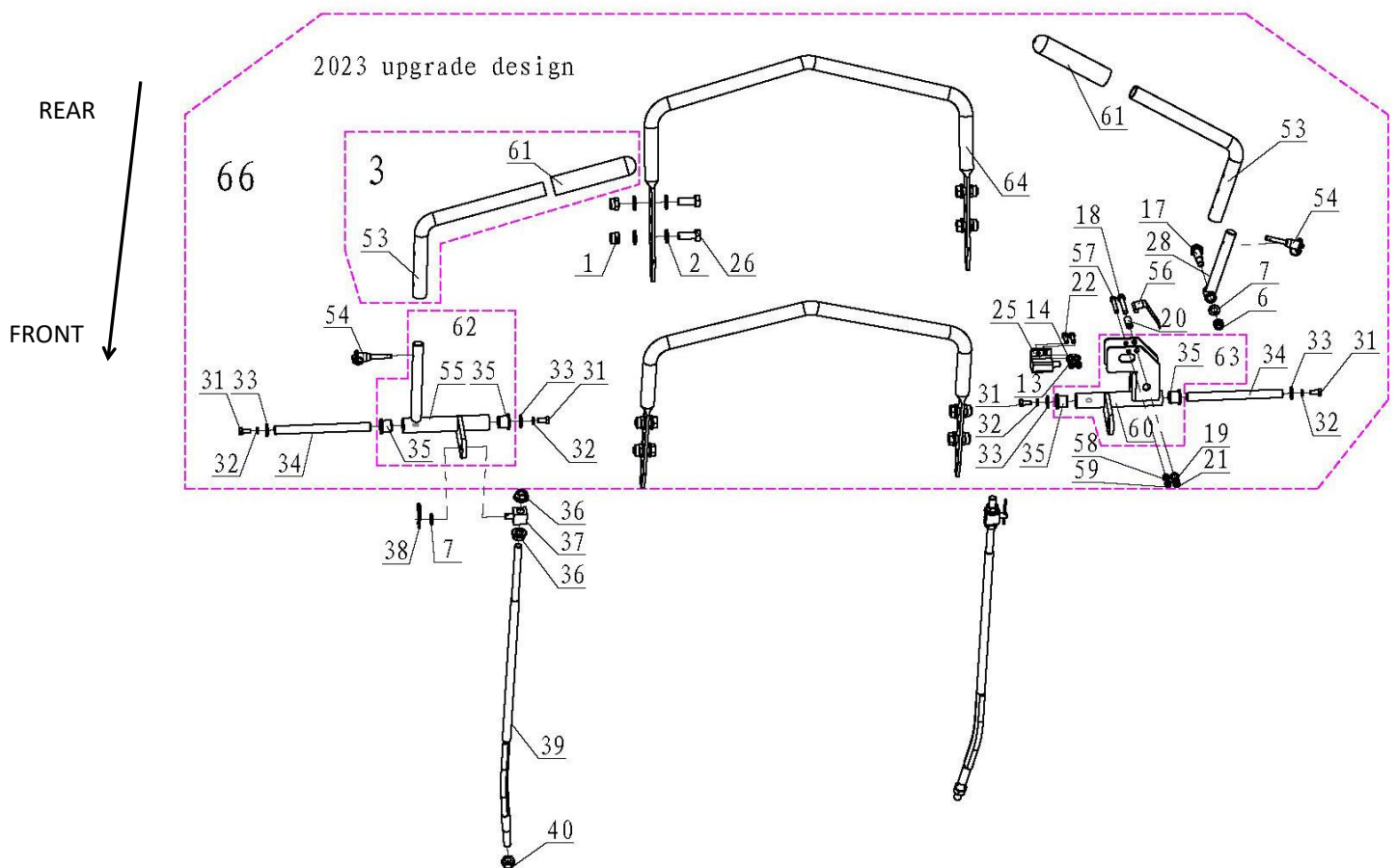
WHEEL & TRANSAXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
35	600-002-1040	Hexagon Bolt M10-1.5x40 GB5783	2
36	600-305-0010	Lock Washer 10 GB93	1
37	601-112	Pulley	1
38	601-104	Pivot Arm Washer	1
39	601-105	Pivot Arm Weldment	1
40	424A-061	Traction Spring	1
41	600-002-1025	Hexagon Bolt M10-1.5x25 GB5783	6
42	601-307	Hydro idler arm assembly	1
43	601-107	Fender	2
44	600-301-0010	Plain Washer 10 GB95	6
45	601-108	Platform Weldment	1
46	601-211	Bushing	1
47	600-001-0890	Hexagon Bolt M8-1.25x90 GB5782	4
48	601-245	Hydraulic motor plate	2
49	336-223	Adjustment plate	2
50	600-001-0865	Hexagon Bolt M8-1.25x65 GB5782	4
51	600-905-0006	Grease fitting M6*1 45° GB1153	1
52	601-248	Neutral connecting plate	2
53	600-001-1060	Hexagon Bolt M10-1.5x60 GB5782	1
54	601-259	Hydro idler arm	1
55	601-260	Hydro idler arm pivot post	1
56	601-081	Left Damper Mounting Plate	1
	601-082	Right Damper Mounting Plate	1
57	601-266	Hydro idler arm assembly upgrade kit for 2021 upgrade design	1
58	336-239	Plain Washer	8
59	601-284	Stand platform assembly	1
60	601-102	Bushing, Straight Pivot	1
61	600-002-0820	Hexagon Bolt M8-1.25x20 GB5783	1
62	600-002-1020	Hexagon Bolt M10-1.5x20 GB5783	1

HANDLE CONTROLS ASSEMBLY



HANDLE CONTROLS ASSEMBLY



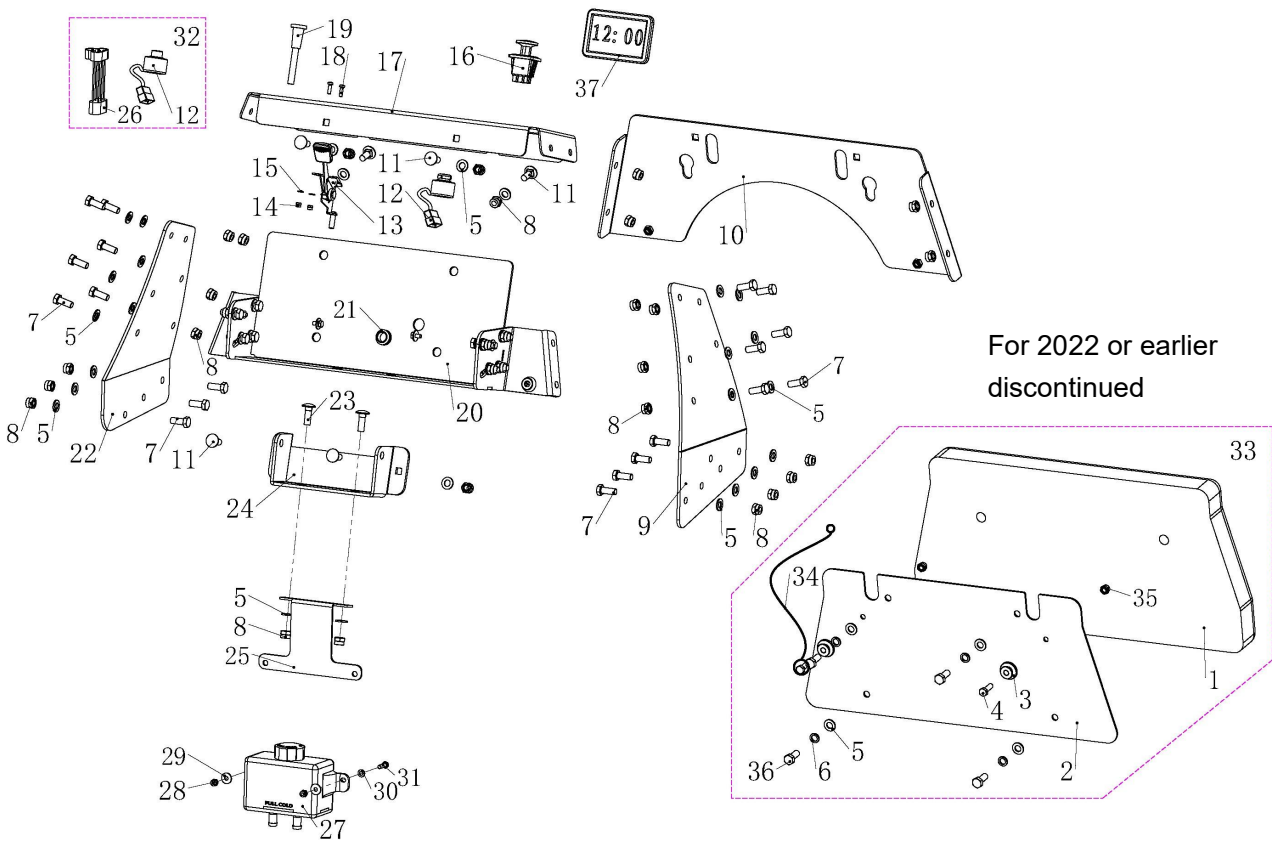
HANDLE CONTROLS ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	600-201-0010	Nylon Nut M10 GB889.1	16
2	600-301-0010	Plain Washer 10 GB95	32
3	601-309	Control Lever with grip	1
4	601-138	Rubber Grip	1
5	601-139A	Brake Lever	1
6	600-201-0008	Nylon Nut M8 GB889.1	3
7	600-301-0008	Plain Washer 8 GB95	7
8	600-903-0008	Rod End RH8	1
9	601-140A	Bushing	1
10	600-302-0008	Plain Washer 8 GB95	1
11	600-001-0840	Bolt M8-1.25x40 GB5782	2
12	600-203-0008	Nut M8 GB6170	2
13	600-201-0005	Nylon Nut M5 GB889.1	3
14	600-301-0005	Plain Washer 5 GB95	4
15	601-078	Rubber Bushing	1
16	600-101-0516	Screws M5-0.8x16 GB818	1
17	601-141	Handle Shaft	1
18	600-001-0645	Bolt M6-1x45 GB5782	1
19	600-301-0006	Plain Washer 6 GB95	2
20	601-142	Bushing	1
21	600-201-0006	Nylon Nut M6 GB889.1	1
22	600-101-0520	Screws M5-0.8x16 GB818	2
23	601-143	Left Drive Control	1
24	601-144	Spring	1
25	601-145	Switch	1
26	600-002-1030	Hexagon Bolt M10-1.5x30 GB5783	8
27	601-146	Left Handle Weldment	1
28	601-147	Handle	2
29	601-262	SC handle cover	2
30	601-149	Right Drive Control	1
31	600-002-0612	Bolt M6-1x12 GB5783	4
32	600-305-0006	Lock Washer 6 GB93	4
33	600-302-0006	Plain Washer 6 GB96	4
34	601-150	Arm Shaft	2
35	601-151	Handrail Shaft Bushing	4
36	600-202-0010	Nut Flange M10 QC/T864	4

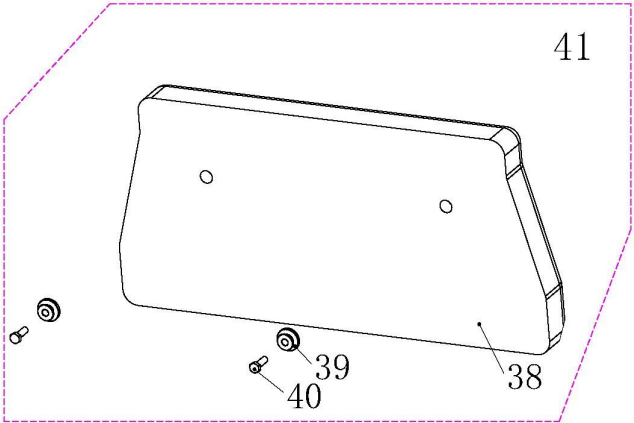
HANDLE CONTROLS ASSEMBLY

37	601-130	Joint	2
38	601-124	Hair Pin Cotter	2
39	601-152	Drive Linkage	2
40	600-203-0010	Nut M10 GB6170	2
41	601-153	Brake Linkage	1
42	600-405-0824	Clevis Pin 8*24	1
43	601-127	Yoke	1
44	600-403-0220	Cotter Pin 2*20	1
45	600-204-0008	Nut M8 GB6172.1	2
46	601-234	Right control lever assembly	1
47	601-235	Left handle part	1
48	601-236	Left control lever part	1
49	601-148	Grip	2
50	336-231	Rotary rubber plug	2
51	601-263	The right operating handle components	1
52	601-264	The left handle components	1
53	601-286	Handle Weldment	1
54	601-287	Safety Pin	1
55	601-288	Right Drive Control	1
56	601-289	plate spring	1
57	600-101-0440	Bolt M4-0.7x40 GB818	1
58	600-301-0004	Plain Washer 4 GB95	1
59	600-201-0004	Nylon Nut M4 GB889.1	1
60	601-290	Left Drive Control	1
61	601-291	Grip	2
62	601-292	The right operating handle components	1
63	601-293	The left operating handle components	1
64	601-294	Handle	2
65	601-301	handle assembly	1
66	601-300	Adjustable handle assembly	1

DASHBOARD PLATE ASSEMBLY



2023 upgrade design



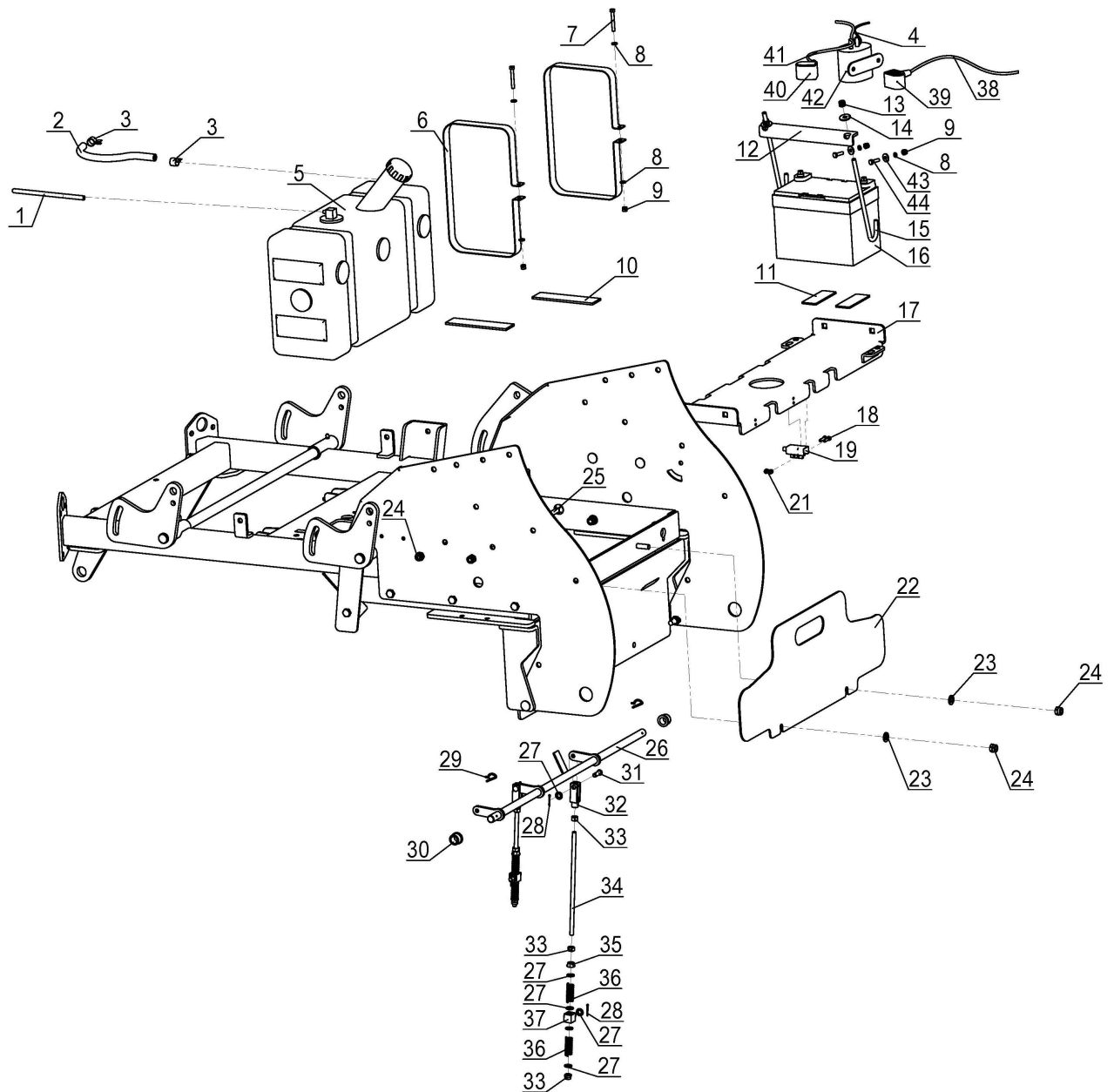
DASHBOARD PLATE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	601-154	Foam Pad	1
2	601-155	Foam Pad Mounting Plate	1
3	601-156	Foam Pad Mounting Sleeve	2
4	600-002-0825	Hexagon Bolt M8-1.25x25 GB5783	2
5	600-301-0010	Plain Washer 10 GB95	29
6	600-305-0010	Lock Washer 10 GB93	4
7	600-002-1025	Hexagon Bolt M10-1.5x25 GB5783	19
8	600-201-0010	Nylon Nut M10 GB889.1	25
9	601-157	Right Frame Plate	1
10	601-158	Leaning Pad Plate	1
11	600-003-1025	Bolt M10-1.5x25 GB801	6
12	700-137B	Key Switch & Key	1
13	601-160A	Throttle cable for BS engine	1
	601-160B	Throttle cable for HONDA engine	1
14	600-201-0005	Nylon Nut M5 GB889.1	2
15	600-301-0005	Plain Washer 5 GB95	2
16	601-161	PTO Switch	1
17	601-162	Dash Panel	1
18	600-101-0516	Screws M5-0.8x16 GB818	2
19	601-163	Choke cable	1
20	601-164	Dash Panel Weldment	1
21	601-165	Rubber Ring	1
22	601-166	Left Frame Plate	1
23	600-003-1030	Bolt M10-1.5x30 GB801	2
24	601-167	Mounting Plate	1
25	601-170A	Hydro oil tank bracket	1
27	601-170	Hydro oil tank assembly	1
28	600-201-0006	Nylon Nut M6 GB889.1	2
29	600-302-0006	Plain Washer 6 GB96.1	2
30	600-301-0006	Plain Washer 6 GB95	2
31	600-002-0620	Hexagon Bolt M6-1x20 GB5783	2
33	601-232	Lean Pad assembly	1
34	601-233	Connection string	1
35	600-201-0008	Nylon nut M8 GB889.1	2

DASHBOARD PLATE ASSEMBLY

36	600-002-1030	Hexagon bolt M10-1.5x30 GB5783	2
37	N110-0100-0071	Hour meter	1
38	601-283	Foam Pad	1
39	601-296	Foam Pad Mounting Sleeve	2
40	601-297	Foam pad fix bolt	2
41	601-285	Lean Pad assembly	1
optional			
26	601-228	Ignition switch adaptor (For SC & BB mower only manufactured on 2017 or earlier)	1
32	601-228A	Ignition switch kit (With adaptor, for SC & BB mower only manufactured on 2017 or earlier)	1

FUEL TANK & BATTERY ASSEMBLY



FUEL TANK & BATTERY ASSEMBLY

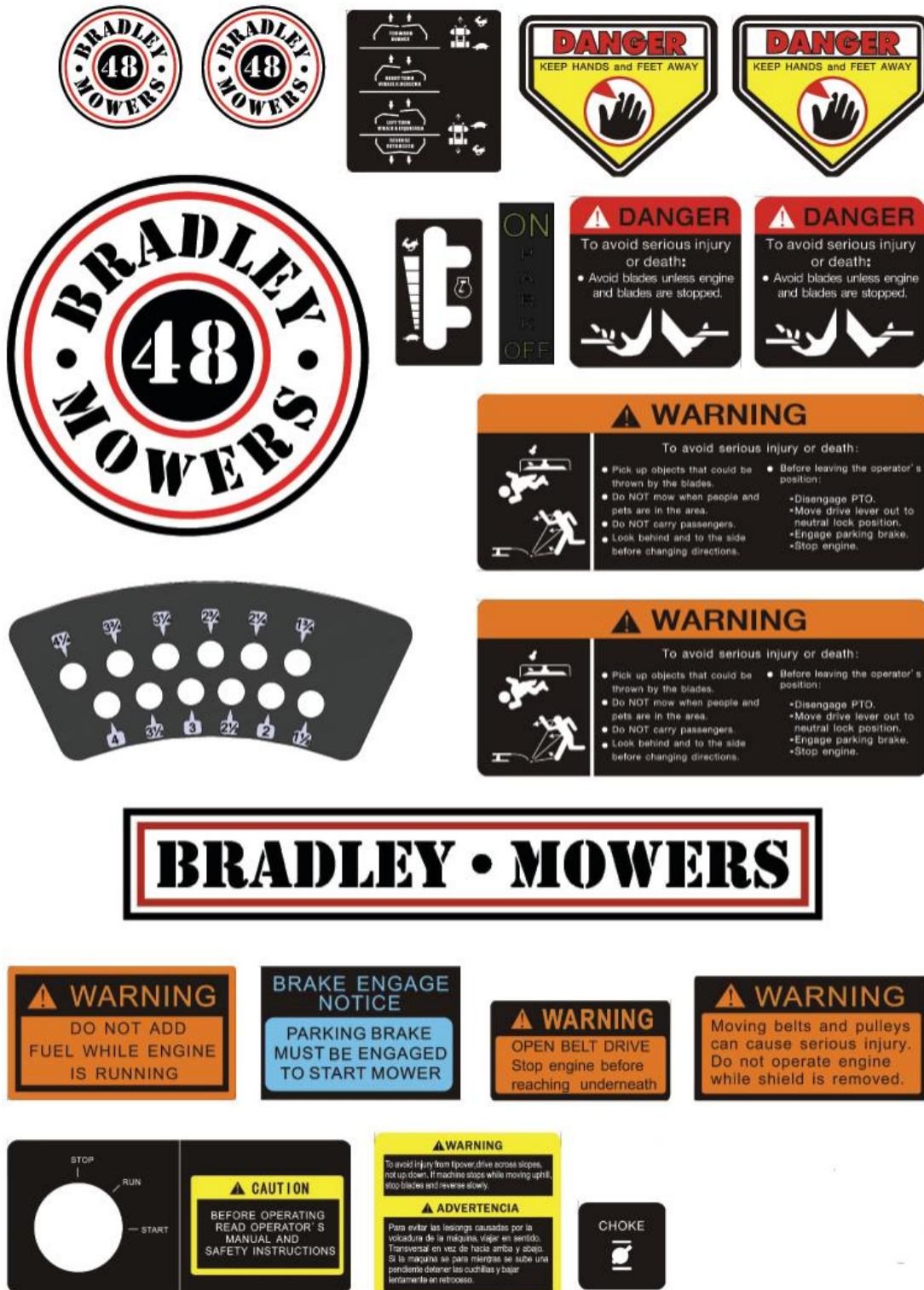
ITEM	PART NO.	DESCRIPTION	QTY
1	601-109	Fuel Return Line (BRIGGS & STRATTON)	1
	601-109A	Fuel Return Line (HONDA)	1
2	601-110	Fuel Line (BRIGGS & STRATTON)	1
	601-110A	Fuel Line (HONDA)	1
3	601-111	Fuel Line Clamp	2
4	601-226	Cable II (connect with the engine)	1
5	601-113	Fuel Tank	1
6	601-114	Fuel Tank Strap	2
7	600-001-0645	Bolt M6-1x45 GB5782	2
8	600-301-0006	Plain Washer 6 GB95	4
9	600-201-0006	Nylon Nut M6 GB889.1	2
10	601-115	Tank Pad	2
11	601-305	Battery protection rubber plate	2
12	601-117	The Battery Holder	1
13	600-201-0008	Nylon Nut M8 GB889.1	4
14	600-302-0008	Plain Washer 8 GB95	2
15	601-118	Battery Clamp Rod	2
16	601-119	Battery SP-30R(Please purchase from local Interstate Battery)	1
17	601-120	Tank Bracket	1
18	600-101-0520	Screws M5-0.8x20 GB818	2
19	601-121	Switch	1
20	600-301-0005	Plain Washer 5 GB95	2
21	600-201-0005	Nylon Nut M5 GB889.1	2
22	601-122	Tank Baffle	1
23	600-301-0010	Plain Washer 10 GB95	2
24	600-201-0010	Nylon Nut M10 GB889.1	6
25	600-003-1020	Bolt M10-1.5x20 GB801	4
26	601-123	Parking Linkage	1
27	600-301-0008	Plain Washer 8 GB95	12
28	600-403-0220	Cotter pin 2*20	4
29	601-125	Hair Pin Cotter	2
30	601-126	Nylon Bushing	2
31	600-405-0824	Clevis Pin 8*24 GB882	2
32	601-127	Yoke	2
33	600-203-0008	Nut M8 GB6170	4
34	601-128	Reverse Linkage	2
35	600-202-0008	Nut Flange M8 QC/T864	2

FUEL TANK & BATTERY ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
36	601-129	Reverse Spring	4
37	601-130	Joint	2
38	601-221	Black Battery Cable	1
39	601-222	Black Terminal Protector	1
40	601-223	Red Terminal Protector	1
41	601-224	Red Battery Cable	1
42	601-021	Solenoid	1
43	600-302-0006	Plain Washer 6	2
44	200-036	Bolt M6-1x20 GB5783	2

48SC SAFETY AND INFORMATION DECALS

ITEM	PART NO.	DESCRIPTION	QTY
1	601-227	48SC decal	1



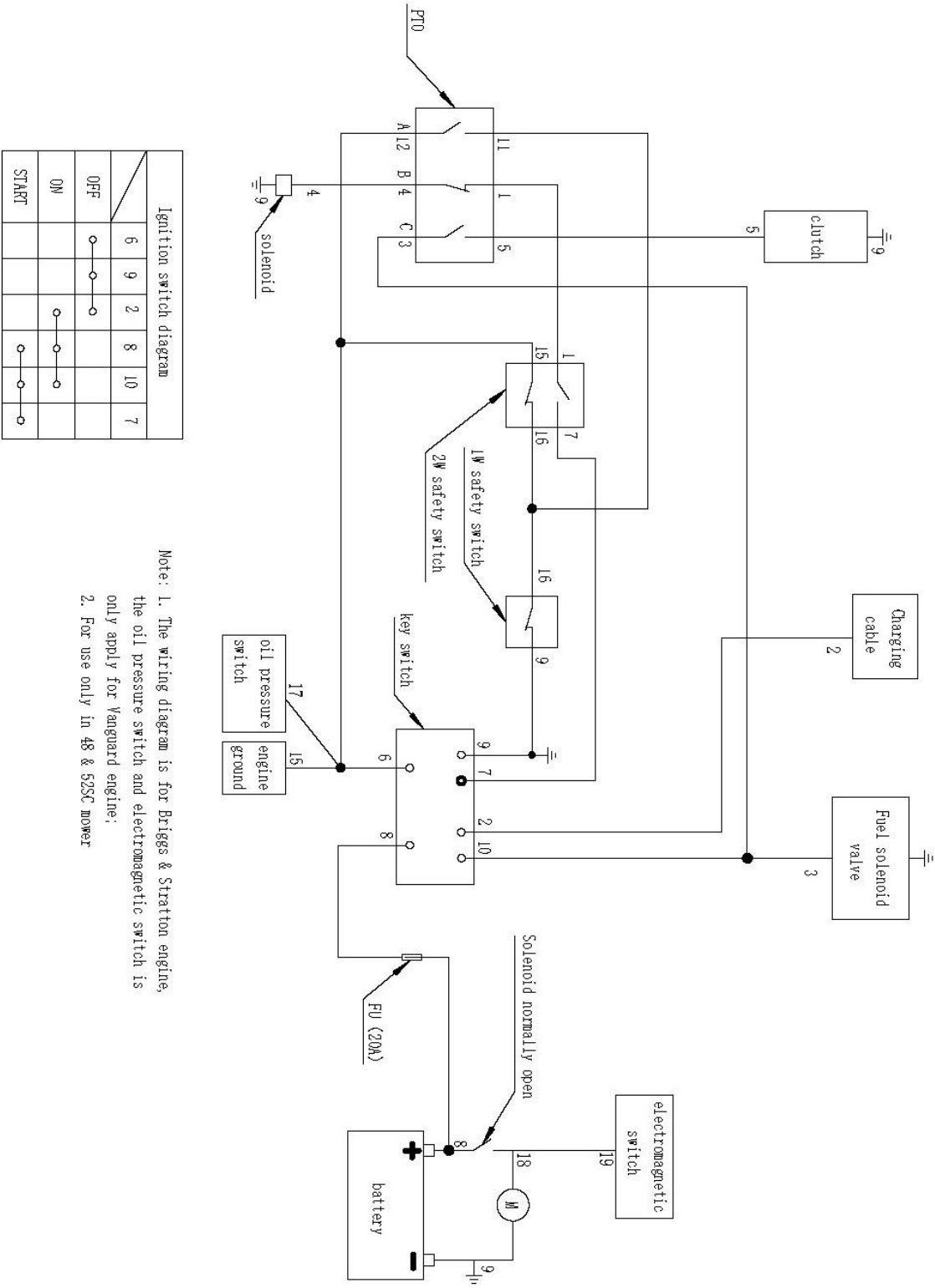
52SC SAFETY AND INFORMATION DECALS

ITEM	PART NO.	DESCRIPTION	QTY
	601-227A	SC52 decal	1



BRIGGS & STRATTON WIRING DIAGRAM

ITEM	PART NO.	DESCRIPTION	QTY
	601-172	BS wire harness	1



Note: 1. The wiring diagram is for Briggs & Stratton engine, the oil pressure switch and electromagnetic switch is only apply for Vanguard engine;
2. For use only in 48 & 52SC mower

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BRADLEY MOWERS PRODUCT REGISTRATION

CUSTOMER INFORMATION

Name: _____
Business Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone Number: _____ Fax Number: _____
Email Address: _____

DEALER INFORMATION(place of purchase) *required

Dealer's Name: _____
Dealer's Address: _____
City: _____ State: _____ Zip: _____
Phone Number: _____

(The remaining dealer information will help you get warranty service faster should you need it.)

PRODUCT INFORMATION

Product Name and Model Number: _____
Serial Number: _____
Engine/Motor Brand and Size: _____
Engine Serial Number: _____

Engines hydraulic pumps, and batteries are warranted through their respective manufacturers. Please contact the manufacturer for more details.

Signature _____ Date of Purchase: _____

KEEP YOUR RECEIPT WITH A COPY OF THIS REGISTRATION FORM

Mail your completed form to:
Havener Enterprises, Inc.
368 S. Michigan Ave.
Bradley, IL 60915

Email your completed form to:
info@bradleymowers.com
Complete your registration form online at www.bradleymowers.com

Fax your completed form to:
888.785.1348

Warranties should be performed by an authorized Bradley Mowers dealer. All other warranty service requires prior approval.

Your product warranty is only valid if this file is completed signed, and returned to Havener Enterprises, Inc. within two weeks of product purchase. See the warranty statement for more details.

Your information may be collected but never shared outside of Havener Enterprises, Inc. and its subsidiaries