



Technical Manual

Tournament Cut™ 22

62291 - 4HP Honda Engine



WARNING: If incorrectly used, this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

To Order Parts

1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate of your product.
4. Order by the quantity desired, the part number, paint code, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Textron Golf, Turf & Specialty Products Dealer.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

Use of other than Jacobsen authorized parts will void the warranty.

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This manual is designed for the Maintenance and Adjustment of this equipment.

Use the maintenance and adjustment instructions included in this manual and the operating instructions included in the **Safety and Operation Manual** to service the machine.

The **Safety and Operation Manual** must be kept in the pouch on the back of the seat at all times for reference by the operator.

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Suggested Stocking Guide

To Keep your Equipment fully operational and productive, maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids. A more complete listing of accessories and attachments can be found in the Specifications Section.

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	2501151	Clutch Disk			
	4127662	Dynamax Grease			
	4127663	Excelite Grease			
	4128650	Technical Manual			

Paint Codes

A paint code suffix is required when ordering painted parts. The available paint codes for each part are listed in the Parts Catalog using the following format:

[Part Number].[Paint Code]

For example:

123456.7 represents part **123456** painted **Gloss Black**.

If more than one paint code is listed, choose the paint code that matches your machine.

Parts listed in the Parts Catalog without a paint code suffix do not need the suffix added to order parts.

The following is a list of Textron Golf, Turf & Specialty Products Paint Code Suffixes

- .2 Green
- .6 Orange
- .7 Gloss Black
- .8 High Heat Flat Black
- .9 Flat Black
- .10 White
- .11 Non Skid Gray
- .20 Red

How To Use This Manual

Abbreviations

N/S - Not serviced separately, can only be obtained by ordering main component or kit.

AR -Variable quantity or measurement is required to obtain correct adjustment.

Symbols such as ▲, next to the item number, indicate that a note exists which contain additional information important in ordering that part.

Indented Items

Bulleted items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separately or as part of the main component.

Item	Part No.	Qty	Description	Serial Numbers/Notes
▲ 1	123456	1	Mount, Valve	<i>Indicates a piece part</i>
2	789012	1	Valve, Lift	<i>Includes Items 2 and 3</i>
3	345678	1	• Handle	<i>Serviced part included with Item 2</i>
4	N/S	1	• Seal Kit	<i>Non serviced part included with Item 2</i>
5	901234.6	1	Screw, 1/4-20 x 2" Hex Head	<i>Indicates part 901234 painted Orange</i>
5	901234.2	1	Screw, 1/4-20 x 2" Hex Head	<i>Indicates part 901234 painted Green</i>

1 SAFETY

1.1 OPERATING SAFETY

WARNING

EQUIPMENT OPERATED IMPROPERLY OR BY UNTRAINED PERSONNEL CAN BE DANGEROUS.

Familiarize yourself with the location and proper use of all controls. Inexperienced operator's should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1. Safety is dependent upon the awareness, concern and prudence of those who operate or service the equipment. Never allow minors to operate any equipment.
2. It is your responsibility to read this manual and all publications associated with this equipment (Engine Manual, accessories and attachments). If the operator can not read English it is the owner's responsibility to explain the material contained in this manual to them.
3. Learn the proper use of the machine, the location and purpose of all the controls and gauges before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Never allow anyone to operate or service the machine or its attachments without proper training and instructions; or while under the influence of alcohol or drugs.
5. Wear all the necessary protective clothing and personal safety devices to protect your head, eyes, ears hands and feet. Operate the machine only in daylight or in good artificial light.
6. Inspect the area where the equipment will be used. Pick up all the debris you can find before operating. Beware of overhead obstructions (low tree limbs, electrical wires, etc.) and also underground obstacles (sprinklers, pipes, tree roots, etc.) Enter a new area cautiously. Stay alert for hidden hazards.
7. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator can prevent and is responsible for injuries inflicted to themselves, to bystanders and damage to property.
8. Never operate equipment that is not in perfect working order or is without decals, guards, shields, discharge deflectors or other protective devices securely fastened in place.
9. Never disconnect or bypass any switch.
10. Carbon monoxide in the exhaust fumes can be fatal when inhaled. Never operate the engine without proper ventilation.
11. Fuel is highly flammable, handle with care.
12. Keep the engine clean. Allow the engine to cool and always remove the spark plug wire from the spark plug before storing.
13. Place unit on a flat surface, disengage all drives and engage parking brake before starting the engine.
14. Operate the machine across the face of the slope (horizontally), not up and down the slope (vertically).
15. Always operate at speeds that allow you to have complete control of the machine. Be sure of your footing; keep a firm hold on the handle and walk; never run.
16. Before you clean, adjust or repair this equipment, stop the engine, disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

This machine is to be operated and maintained as specified in this manual and is intended for the professional maintenance of specialized turf grasses. It is not intended for use on rough terrain or long grasses.

1.2 IMPORTANT SAFETY NOTES



This safety alert symbol is used to alert you to potential hazards.

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

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

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

For pictorial clarity, some illustrations in this manual may show shields, guards or plates open or removed. Under no circumstances should this equipment be operated without these devices securely fastened in place



WARNING

The Operator Presence Control (OPC) on this machine will shut off the reel and traction drive if the operator releases the OPC bail.

To protect the operator and others from injury, never operate equipment with the OPC system disconnected or malfunctioning.



WARNING

1. Before leaving the operator's position for any reason:
 - a. Disengage all drives.
 - b. Engage parking brake.
 - c. Stop engine.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Chock or block the wheels if the machine is left on an incline.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

By following all instructions in this manual, you will prolong the life of your machine and maintain its maximum efficiency. Adjustments and maintenance should always be performed by a qualified technician.

If additional information or service is needed, contact your Authorized Jacobsen Dealer who is kept informed of the latest methods to service this equipment and can provide prompt and efficient service. **Use of other than original or authorized Jacobsen parts and Accessories will void the warranty.**

2 SPECIFICATIONS

2.1 PRODUCT IDENTIFICATION

62291 22 in. (559 mm) Tournament Cut 22
with Honda 4.0 H.P. gasoline
engine and 9 blade reel.

Always provide the serial number of the unit when ordering
replacement parts or requesting service information.

Product	EEC Sound Power	Vibration M/S ²
		Arms
62291	100 dba	7



2.2 ENGINE

Engine.....Honda GX-120 K1Q JG2 4-Cycle,
4HP (2.98 kW) at 4000 RPM
Speed.....High Idle - 3000 ± 100 RPM
Low Idle - 1700 ± 100 RPM
Fuel.....Regular Grade (Unleaded)
Fuel Tank0.66 Gallon (2.5 liter)

Use clean, fresh, regular unleaded gasoline, 85 octane
minimum. When using blended fuel, do not use a blend
with more than 10% ethanol.

*Under no circumstances should you use a blend with
methanol.*

2.3 MOWER

Reel9 blades
Reel Diameter.....4 in. (102 mm)
Cutting Width22 in. (559 mm)
Cutting Frequency/
Fine Finish0.199 in. (5.05 mm)
Height of cut.....9/64 to 25/64 in. (3.5 to 10 mm)

Standard Bedknife:
#2.5..... Yields 5/32 in. (4 mm) cut
Bedknife Options (See Accesories and Support Literature)
#1.5..... Yields 7/64 in. (3 mm) cut
#2..... Yields 9/64 in. (3.5 mm) cut
#3..... Yields 11/64 in. (4.5 mm) cut
#5..... Yields 17/64 in. (7 mm) cut
Reel Clutch..... Cog Type

2.4 TRACTION AND DIFFERENTIAL

Transport Tires.....Pneumatic
Reel DriveGear Drive
Traction Drive.....Gear Drive
Traction Reduction Ratio .21.13:1
Reel Reduction Ratio1.74:1
Traction Clutch.....Cog type
Drive ClutchDisc pressure plate type
Travel speed2.9 mph (4.7 km/h) @ 3000 RPM
Differential.....Full automotive type, housed in
left gear housing
Rear Drive Drum.....Corrosion resistant aluminum
2 Sections: 6-7/8 (O.D.) x 10.5 in.
(175 x 267 mm)

2.5 DIMENSIONS

Length60 in. (1520 mm)
 Width37 in. (930 mm)
 Height.....39 in. (1000 mm)

Weights:	Lbs.	(kg)
Mower Unit.....	57	(26)
Traction Unit.....	141	(64)
Grass Catcher.....	8	(3.5)

2.6 ACCESSORIES & SUPPORT LITERATURE

Contact your area Jacobsen Dealer for a complete listing of accessories and attachments.



CAUTION: Use of other than Jacobsen authorized parts and accessories may cause personal injury or damage to the equipment and will void the warranty.

Accessories

Lapping Compound (180 grit)	554598
Orange Touch-up Paint (12 oz. spray)	554598
22 in. Turf Groomer	62292
Light Kit	5002962
Mower Caddy Trailer Mounting Kit	68672
#1.5 Bedknife (3 mm cut)	4128286
#2.0 Bedknife (3.5 mm cut)	4128287
#3.0 Bedknife (4.5 mm cut)	4128288
#5.0 Bedknife (7 mm cut)	4128289


Support Literature


Technical Manual	4128650
Service & Repair Manual	
Groomer Kit Manual.....	4128729


3 DECALS

3.1 DECALS

Familiarize yourself with the decals, they are critical to the safe operation of the mower. REPLACE DAMAGED DECALS IMMEDIATELY.

 CAUTION	
<ol style="list-style-type: none">1. Keep all shields in place.2. Stop engine to adjust and oil.3. When mechanism becomes clogged disengage power and stop engine before cleaning.4. Keep hands, feet and clothing away from power-driven parts.5. Read manual thoroughly before operating machine.	
365511	

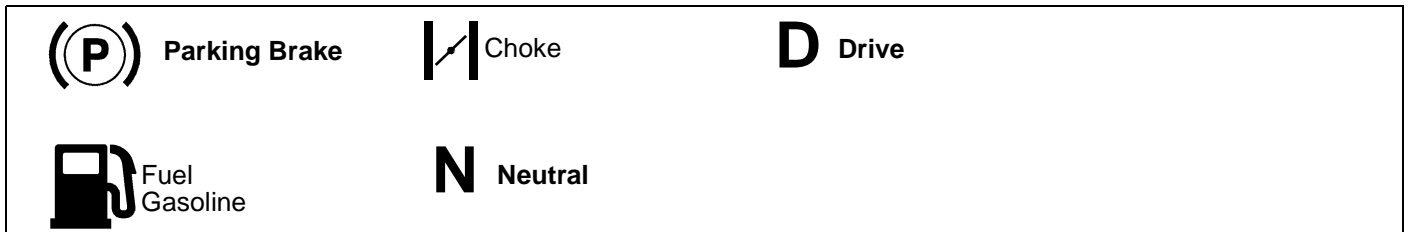
Vehicle Mass:		 WARNING
Model PGM 19	84.0 kg	Keep Bystanders Away
Model PGM 22	85.0 kg	
Model 518A	95.3 kg	
Model 522TA	100.7 kg	
Model 522A	101.2 kg	
Model 526A	123.4 kg	
Model TC 22	101.1 kg	
2811102		

 PRECAUCION	
<ol style="list-style-type: none">1. No opere esta maquina sin previo entrenamiento, instruccion y sin haber leído el manual de operacion.2. Tenga todas las guardas en su lugar y piezas bien aseguradas.3. Neutralice todas las velocidades y apague el motor antes de vaciar los recolectores de pasto, darle servicio, limpiar, ajustar y destrabar la maquina.4. Mantenga las manos, los pies y ropa suelta lejos de piezas en movimiento.5. No deberan transportar pasajeros si no existe un asiento para ellos.6. Si no sabe leer ingles, pida que alguien le lea las calcomanias de avisos y los manuales de instruccion y operacion.	
340623	

 CAUTION	
ALLOW ENGINE TO COOL FOR 2 MINUTES BEFORE REFUELING	
362764	

 DANGER	
To avoid serious bodily injury stop engine and disengage reels before working on mower or emptying baskets.	
	

4.1 ICONS



! WARNING

Never attempt to operate the machine unless you have read this manual and know how to operate all controls correctly.

Familiarize yourself with the icons shown above and what they represent. Learn the location and purpose of all the controls before operating this mower.

4.2 CONTROLS

- A. **Control Lever** – Three position lever. Pull handle back toward operator to engage parking brake. Push handle forward to neutral position to disengage brake. With O.P.C. bail engaged, lever can be moved to Drive position, engaging clutch and providing power to both the reel and traction drive. Only start engine with parking brake engaged.
- B. **Throttle** – Controls the speed of the engine. Push lever forward to decrease engine speed. Pull lever back toward operator to increase engine speed
- C. **O.P.C. Bail** - When engaged, this lever allows the control lever to be moved to the Drive position. When released, lever (A) will return to the neutral position. The lever must be disengaged to start the engine.
- D. **Tilt Lever** - Used to tilt handle end to desired angle. Only adjust angle with engine stopped and O.P.C. Bail (C) disengaged.

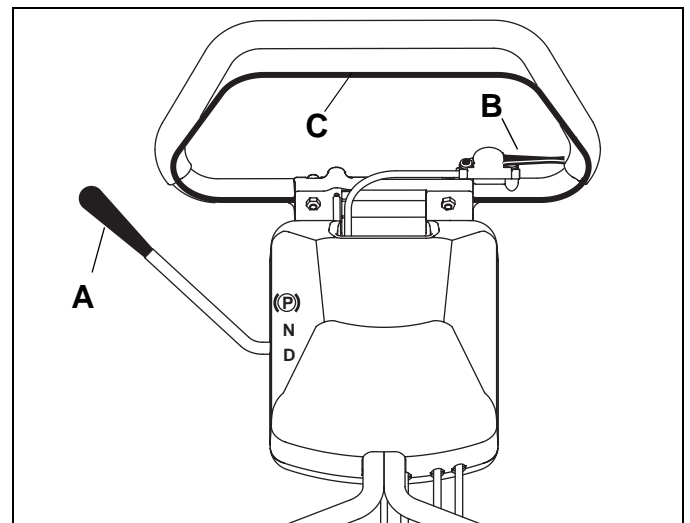


Figure 4A

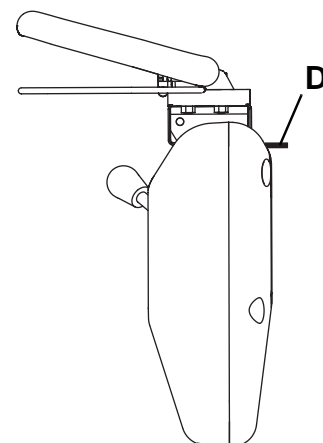


Figure 4B

4 CONTROLS

E. Engine Switch – The engine switch enables and disables the ignition system. The engine switch must be in the ON position for the engine to run. Turning the engine switch to the OFF position stops the engine.

F. Choke Lever - The choke lever opens and closes the choke valve in the carburetor. The CLOSED position enriches the fuel mixture for starting a cold engine. The OPEN position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.

G. Fuel Valve Lever - The fuel valve opens and closes the connection between the fuel tank and the carburetor. The fuel valve lever must be in the ON position for the engine to run. When the engine is not in use, leave the fuel valve lever in the OFF position to prevent carburetor flooding and to reduce the possibility of fuel leakage.

Note: Before tipping mower back for adjustments, the fuel lever must be moved to the OFF position to prevent fuel from leaking into the crankcase.

H. Drive Joint Clutch Lever - Point lever forward (**H₁**) to engage the drive joint clutch. Point lever back (**H₂**) to disengage.

J. Traction Clutch Lever - Point lever down (**J₂**) to disengage traction drive and allow drum to “free-wheel”. Point lever up (**J₁**) to engage.

Note: Differential shaft will continue to turn with Traction Clutch disengaged.

K. Reel Clutch Lever - Point lever forward (**K₁**) to engage the reel drive mechanism. Point lever back (**K₂**) to disengage the reel.

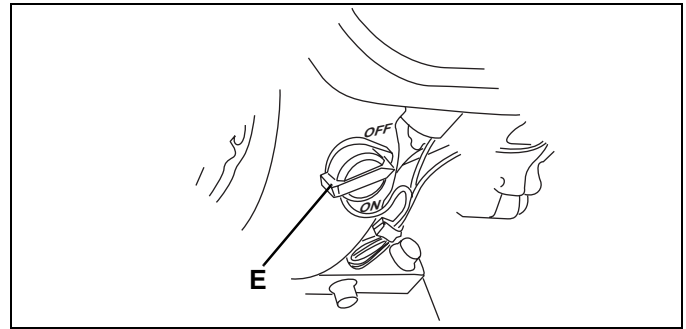


Figure 4C

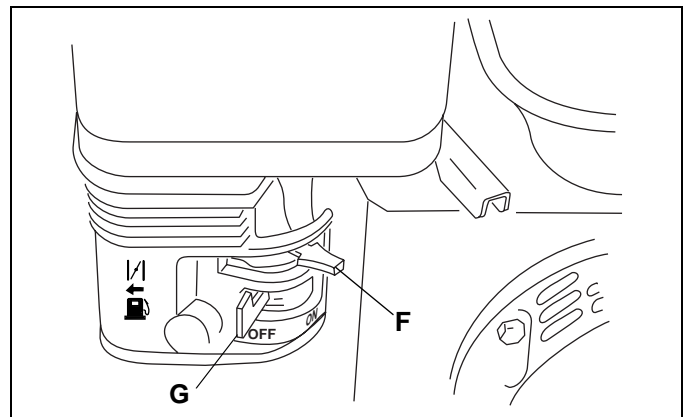


Figure 4D

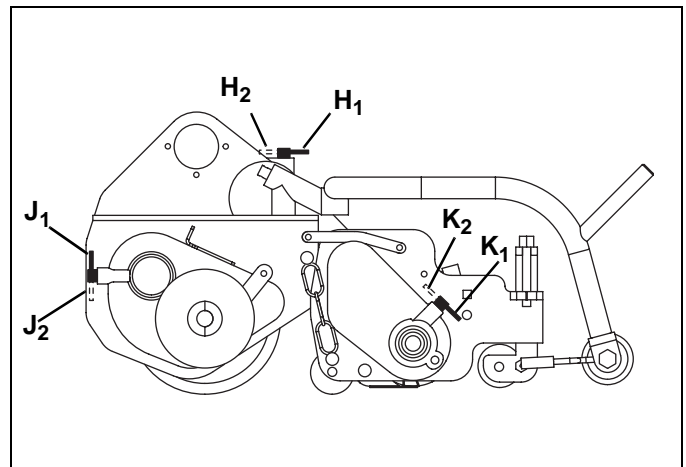


Figure 4E

WARNING

To prevent bodily injury or property damage, never engage the drive joint, reel or traction clutch levers while the engine is running or the O.P.C. bail is engaged.

DANGER

Keep hands and feet away from the cutting unit to prevent serious cuts.

5.1 DAILY INSPECTION

CAUTION

The daily inspection should be performed only when the engine is off and all fluids are cold. Disengage all drives, engage parking brake, stop engine and disconnect spark plug wire.

1. Perform a visual inspection of the entire unit, look for signs of wear, loose hardware, missing or damaged components. Check for fuel or oil leaks.

2. Check the fuel supply and crankcase oil level. All fluids must be at the full mark.
3. Make sure the mower is adjusted to the required cutting height.
4. Make sure the machine is lubricated and the transport tires are properly inflated.
5. Check the O.P.C. system.

5.2 OPERATOR PRESENCE CONTROL (O.P.C.)

1. The O.P.C. system is intended to protect the operator and others from injury by stopping the reel and drive mechanism as soon as the operator releases the O.P.C. bail.

WARNING

Never operate equipment with the O.P.C. system disconnected or malfunctioning. Do not disconnect or bypass any switch.

2. To test the system, the mower must have the transport wheels attached.
 - a. Place mower on the kickstand.
 - b. Disengage the reel clutch lever (**K₂**).
 - c. Engage the traction clutch lever (**J₁**).
3. Start the engine and place throttle (**B**) at mid-point.
 - a. Engage O.P.C. bail (**C**) then push control lever (**A**) to Drive position.
 - b. The drive mechanism will engage and the wheels will begin to turn.
 - c. Release the O.P.C. bail. The bail must come up and the wheels must stop.
4. If the wheels begin to turn before the O.P.C. bail is engaged or the wheels continue to turn after the O.P.C. bail is released; stop the engine immediately and have the system repaired.

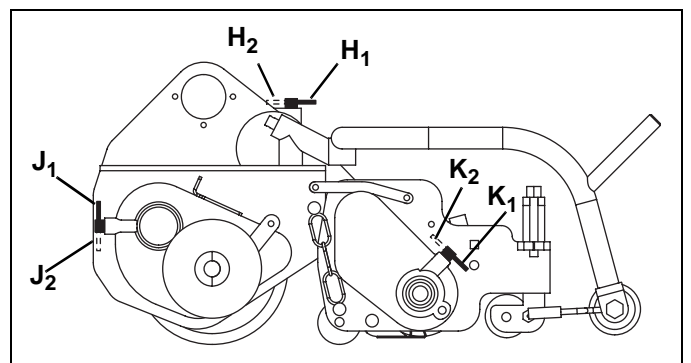


Figure 5A

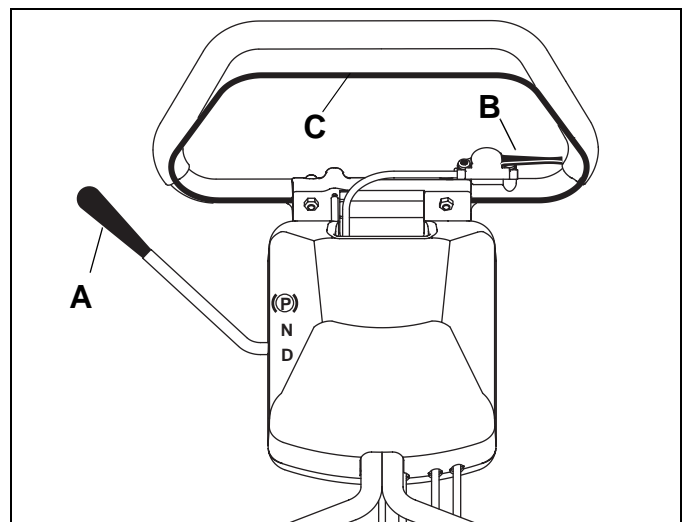


Figure 5B

5 OPERATION

5.3 OPERATING PROCEDURES

CAUTION

To help prevent injury, always wear safety glasses, leather work shoes or boots, a hard hat, and ear protection. Long hair, loose clothing or jewelry may get tangled in moving parts.

1. Do not operate mower or attachments with loose, damaged or missing components. Whenever possible mow when grass is dry.
2. First mow in a test area to become thoroughly familiar with the operation of the mower and control levers.

Note: *To prevent damage to the reel and bedknife **never** operate the reels when they are not cutting grass. Excessive friction and heat will develop between the bedknife and reel and damage the cutting edge.*

3. Study the area to determine the best and safest operating procedure. Consider the height of the grass, type of terrain, and condition of the surface. Each condition will require certain adjustments or precautions. Only use accessories and attachments approved by Jacobsen.
4. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator is responsible for injuries inflicted to bystanders and/or damage to their property.

CAUTION

Before mowing, pick up all debris such as rocks, toys and wire which can be thrown by the machine. Enter a new area cautiously. Always operate at speeds that allow you to have complete control of the mower.

5. Use discretion when mowing near gravel areas (roadway, parking areas, cart paths, etc.). Stones discharged from the implement may cause serious injuries to bystanders and/or damage the equipment.
6. Disengage the reel clutch when crossing paths or roadways. Look out for traffic.
7. Stop and inspect the equipment for damage immediately after striking an obstruction or if the machine begins to vibrate abnormally. Have the equipment repaired before resuming operation.

WARNING

Before you clean, adjust, or repair this equipment, always disengage all drives, engage parking brake, stop engine and remove spark plug wire to prevent injuries.

8. Slow down and use extra care on hillsides. Use caution when operating near drop offs.
9. Look behind and down before backing up to be sure of a clear path. Use care when approaching blind corners, shrubs, trees or other objects that may obscure vision.
10. Never use your hands to clean cutting units. Use a brush to remove grass clippings from blades. Blades are extremely sharp and can cause serious injuries

5.4 STARTING/STOPPING ENGINE

1. Check the fuel supply then open the fuel shut-off valve **(G)**.
 - a. Move the choke lever **(F)** to the "CLOSE" position.
 - b. Move throttle control **(B)** to 1/2 throttle.
 - c. Set start engine switch **(E)** to "ON".
2. Make certain O.P.C. bail **(C)** is disengaged and control lever **(A)** is in the parking brake position.
3. Start the engine. Do not allow the cord to "snap" back into the starter.
4. When the engine starts, move choke lever **(F)** to the "OPEN" position. Intermittent choking may be required while engine is cold.
5. Allow engine to warm up gradually.
6. To stop the engine, release the O.P.C. bail, engage parking brake and set engine switch or ignition switch to "OFF" position. Close fuel shut off valve **(G)**.

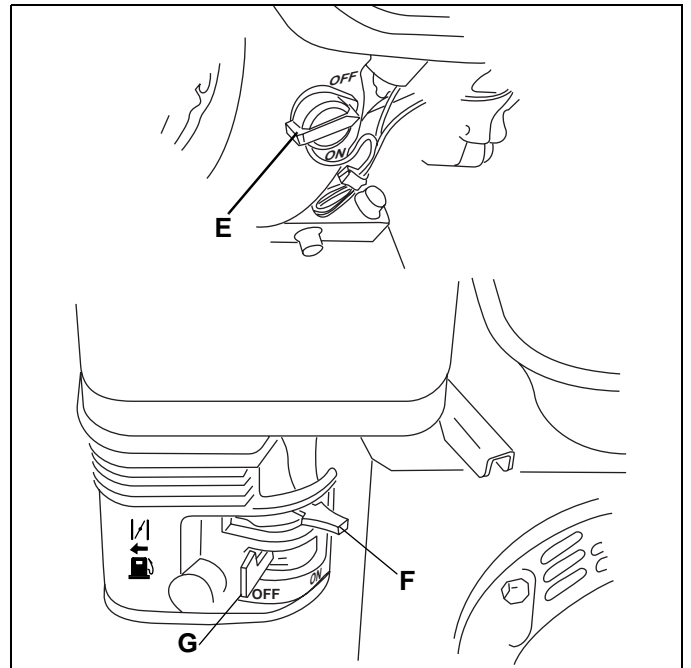


Figure 5C

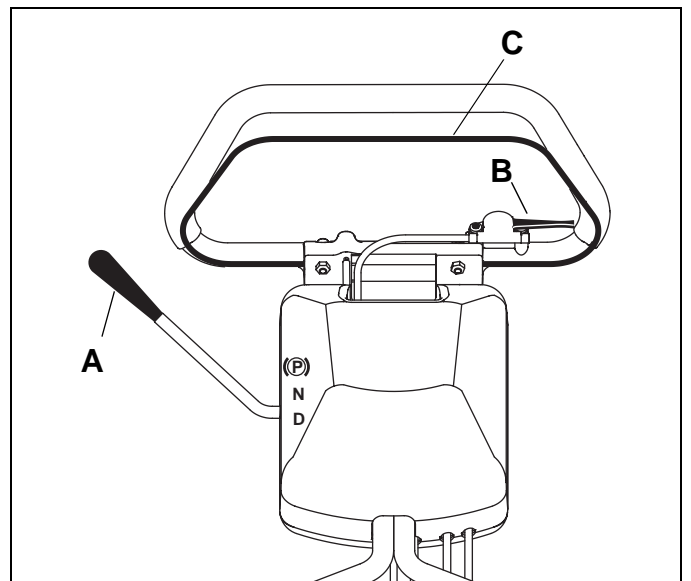


Figure 5D

5.5 GRASS CATCHER

1. When the basket is about two thirds (2/3) full of grass clippings, move the mower off the green.
2. Stop on a flat surface, disengage all drives, stop the engine and set brake.
3. Remove and empty the grass clippings from the mower.

DANGER

To prevent serious injury, always stop the engine and disengage all drives before emptying grass catcher.

5 OPERATION

5.6 TRANSPORT WHEELS

WARNING

Always stop the engine and disengage the drive levers before installing or removing the transport wheels.

1. Push and hold the kickstand against the ground then pull the mower handle back until the mower rests on the stand.
2. To remove wheels, press retaining clip (**L**) away from hub and pull wheel off hub.
3. To install wheels, press retaining clip (**L**), place wheel on hub and turn the wheel backwards until shaft cut out on back of wheel lines up with hub (**M**). Push wheel in and release clip.
4. Always disengage reel clutch lever (**K₂**) and engage traction clutch lever (**J₁**) prior to transporting the mower more than a few feet.
5. Push the mower forward off the kickstand, start the engine and engage the O.P.C. bail.
6. When using a vehicle to transport the mower, apply parking brake, stop engine and close fuel shut-off valve.

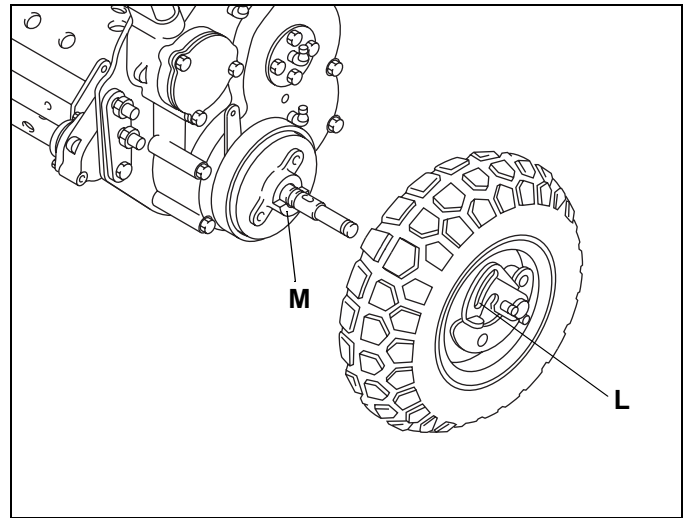


Figure 5E

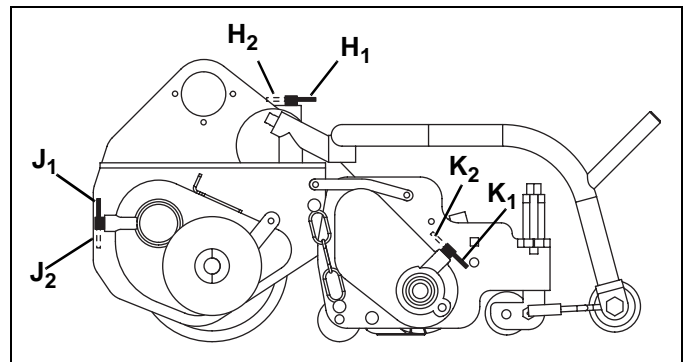


Figure 5F

5.7 MOWING

1. Stop the engine. Place mower on kickstand and remove the transport wheels.
2. Engage the reel clutch lever (**K₂**) and the traction clutch lever (**J₁**). Push the mower forward off kickstand. Start the engine.

WARNING

To prevent bodily injury or property damage, never engage the reel or traction clutch levers while the engine is running or the O.P.C. bail is engaged.

3. Position mower slightly off green.
 - a. Adjust engine speed to provide a safe, comfortable walking speed.
 - b. Push handle down to lift mower head above the grass then engage the O.P.C. lever.

- c. As the mower crosses the edge of the green, lower the mower head to the ground and proceed across the green in a straight line.
- d. When the opposite side of the green is reached, lift the mower head without disengaging the O.P.C. lever and proceed off the green to turn around or simply release the O.P.C. lever and turn around.

Note: To prevent damage to the reel and bedknife **never** operate the reels when they are not cutting grass. Excessive friction and heat will develop between the bedknife and reel and damage the cutting edge.

4. To assure complete even cutting, overlap swaths by 1 to 2 in., (25 or 30 mm) then make one or more passes around the perimeter of the green to clean ragged edges and separate the putting green surface from the apron.

6.1 GENERAL

! WARNING

Before you adjust, clean, or repair this equipment, always disengage all drives, engage parking brake and stop engine to prevent serious injury.

Whenever performing maintenance other than carburetor adjustments, remove the spark plug wire and place the wire away from the plug to prevent accidental starting and bodily injury.

1. Adjustments and maintenance should always be performed by a qualified technician. If proper adjustment cannot be made, contact an authorized Jacobsen Dealer.

2. Replace, do not adjust, worn or damaged components.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.

! CAUTION

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Do not change governor settings or overspeed the engine.

6.2 REEL TO BEDKNIFE

(Pre-adjustment Check)

1. Check the reel bearings for end play or radial play. If there is any abnormal movement of the reel, up and down or side to side, adjust or replace components as needed.

! CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

2. Inspect the reel blades and bedknife to insure good sharp edges without bends or nicks.
 - a. The cutting edges of the reel blades and bedknife must be sharp, free of burrs and show no signs of rounding off.
 - b. The bedknife and bedknife backing must be securely tightened. The bedknife must be straight and sharp.
3. If wear or damage is beyond the point where the reel or bedknife can be corrected by the lapping process, they must be reground.
4. Proper reel-to-bedknife adjustment is critical. A gap of 0.001 to 0.003" (0.025 to 0.076 mm) must be maintained across the entire length of the reel and bedknife.
5. The reel must be parallel to the bedknife. An improperly adjusted reel will lose its sharp edges prematurely and may result in serious damage to the reel and bedknife.
6. Grass conditions will also affect the adjustment.
 - a. Dry, sparse conditions will require a wider gap to prevent heat buildup and damage to the reel and bedknife.

- b. High quality grass with a good moisture content requires a closer gap (near zero).

7. Loosen adjusting nuts **(B)**.
8. Loosen threaded adjusters **(A)** to release spring pressure.
9. Loosen lock nut **(C)** and bedknife bolt **(E)** on both sides of mower.
10. Adjust cam bushings **(D)** as required until the bedknife makes light contact with the reel and there are no gaps on the left and right ends. Mark cam bushing positions. Tighten bedknife bolt **(E)**.
11. Thread in adjusters **(A)**.
12. Set cam bushings **(D)** to marked position. Tighten locknuts **(C)**.

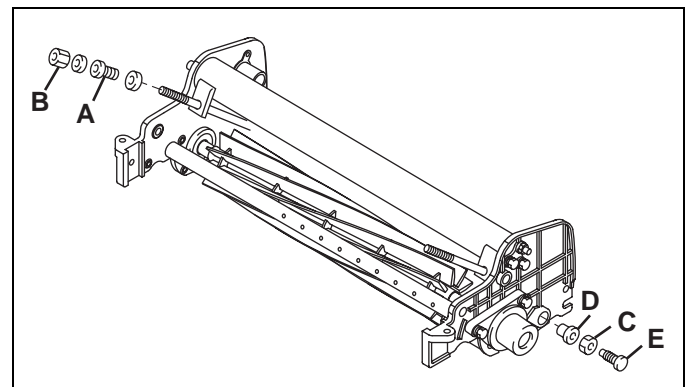


Figure 6A

6 ADJUSTMENTS

6.3 BEDKNIFE ADJUSTER

1. Threaded adjuster **(A)** is used to increase or decrease the spring load on the bedknife. Adjusting nuts **(B)** is used to move the bedknife to the reel or away from the reel.
2. Once the spring is totally collapsed as a result of many adjustments, and the bedknife cannot be moved. Loosen locknut on adjuster **(A)** and thread in adjuster.

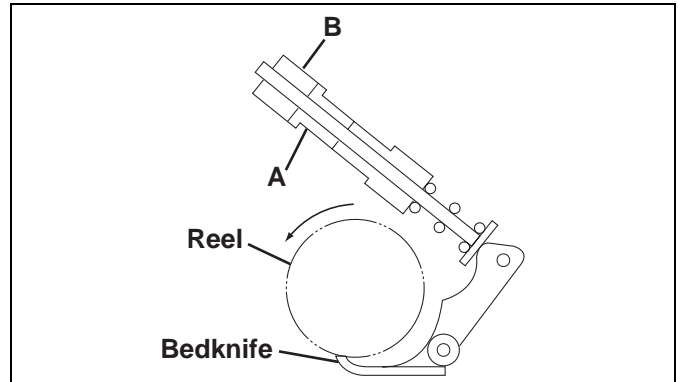


Figure 6B

6.4 BEDKNIFE

1. Read Section 6.2 before making the adjustment.
2. Start adjustment at the leading edge of the reel, followed by the trailing end. *The leading end of the reel blade is the end that passes over the bedknife first during normal rotation.*

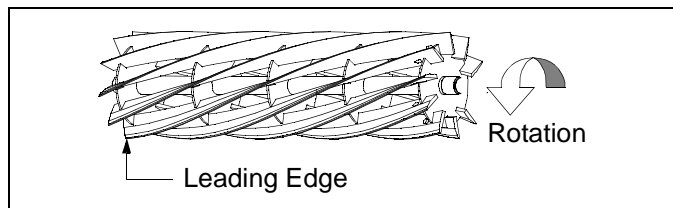


Figure 6C

CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

3. Turn adjuster **(B)** counterclockwise to bring the bedknife closer to the reel or clockwise to back the bedknife away from the reel.
 - a. Slide a feeler gauge or shim stock .001 -.003 in., (.025 - .075 mm) between the reel blade and the bedknife. Do not turn the reel.
 - b. Adjust the trailing end of the reel in the same manner, then recheck the adjustment at the leading end.
 - c. When the reel and bedknife are properly adjusted, the reel will spin freely and will cut a piece of newspaper along the full length of the reel when the paper is held at 90° to the bedknife.

6.5 CLUTCH

Adjust stop screw **(G)** until clutch fingers are (.06 - touching) the throw out bearing. Lock jam nut.

Place control lever in Neutral position

Pull clutch cable until OPC bail is against the stop.

Pin **(F)** should be against end of the bolt. Spring should measure 1-13/16 in., (46 mm) with the clutch disengaged. With the clutch fully engaged, the spring should compress to 1-3/4 in., (44 mm).

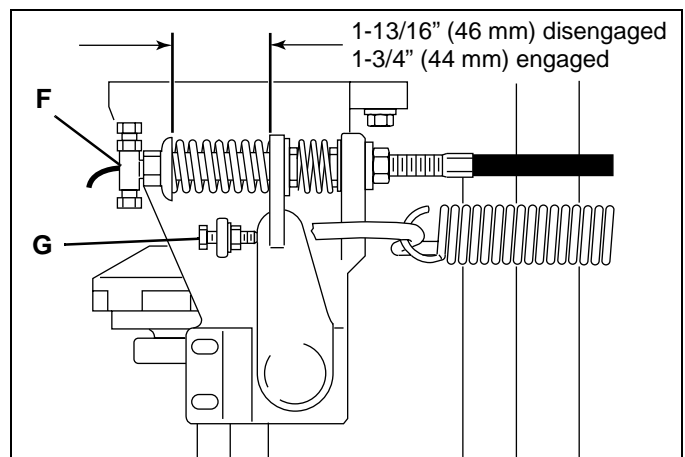


Figure 6D

6.6 BRAKE

1. Place control lever (**J**) in neutral position.
2. Adjust nuts (**H**) as required to remove all slack from brake cables.

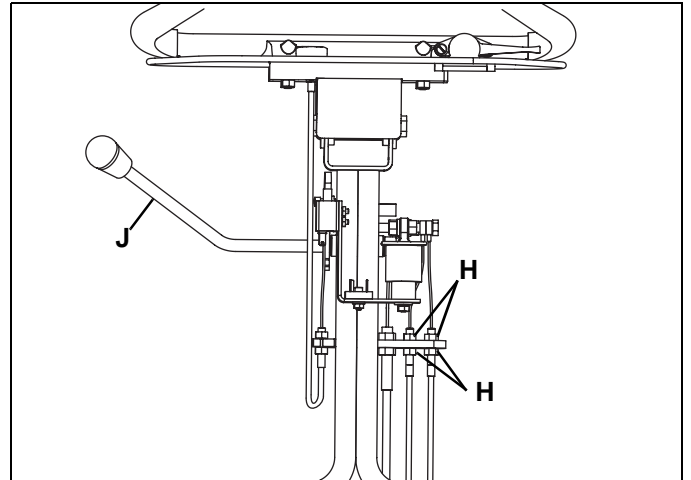


Figure 6E

6.7 CUTTING HEIGHT

Note: Make sure the bedknife is properly adjusted before setting the cutting height. (See Section 6.4)

1. Push kickstand down and tip mower back on it's handle. Do not leave the mower tipped back for an extended length of time or oil may migrate into the combustion chamber.
2. Loosen nuts (**M**) on both sides just enough to allow knob (**L**) to raise the front roller or Turf Groomer. Raise both sides an equal amount.
3. Set gauge screw (**P**) to the desired cutting height (**O**). Measure from the gauge bar (**N**) to the underside of the screw head (**P**) then tighten wing nut to lock the adjustment.
4. Place gauge bar between front roller and traction roller, near the outer end of the rollers.
5. Slide screw head over bedknife (**Q**) and adjust knob (**L**) so roller just contacts the gauge bar. Tighten nut (**M**).

6. Repeat Steps 4 and 5 on the opposite end of the reel then tighten nuts (**M**). Recheck and readjust the cutting height if necessary.

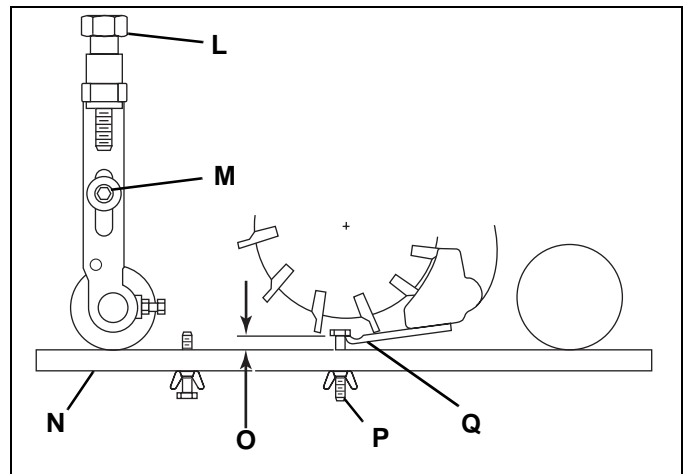


Figure 6F

6.8 HANDLE

1. To adjust the angle of the handle bar (**Y**), loosen screw (**W**) on both sides of the mower and adjust the handle bar to the desired position.
2. After adjusting handle bar, adjust bracket (**X**) so that the handle bar just rests on the bottom of the slot in bracket. Tighten screw (**W**).

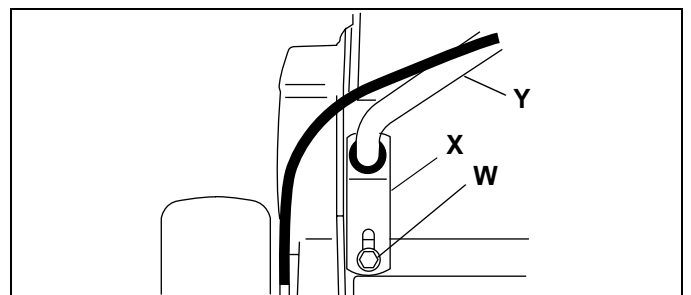


Figure 6G

6 ADJUSTMENTS





6.9 TORQUE SPECIFICATION

CAUTION





All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Jacobsen is not responsible for any loss, claim, or damage arising from the use of these charts. **Extreme caution should always be used when using any torque value.**

Jacobsen uses Grade 5 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

AMERICAN NATIONAL STANDARD FASTENERS

SIZE	UNITS					SIZE	UNITS				
		GRADE 5		GRADE 8				GRADE 5		GRADE 8	
		Lubricated	Dry	Lubricated	Dry			Lubri-cated	Dry	Lubri-cated	Dry
#6-32	in-lb (Nm)	–	20 (2.3)	–	–	7/16-14	ft-lb (Nm)	37 (50.1)	50 (67.8)	53 (71.8)	70 (94.9)
#8-32	in-lb (Nm)	–	24 (2.7)	–	30 (3.4)	7/16-20	ft-lb (Nm)	42 (56.9)	55 (74.6)	59 (80.0)	78 (105)
#10-24	in-lb (Nm)	–	35 (4.0)	–	45 (5.1)	1/2-13	ft-lb (Nm)	57 (77.2)	75 (101)	80 (108)	107 (145)
#10-32	in-lb (Nm)	–	40 (4.5)	–	50 (5.7)	1/2-20	ft-lb (Nm)	64 (86.7)	85 (115)	90 (122)	120 (162)
#12-24	in-lb (Nm)	–	50 (5.7)	–	65 (7.3)	9/16-12	ft-lb (Nm)	82 (111)	109 (148)	115 (156)	154 (209)
1/4-20	in-lb (Nm)	75 (8.4)	100 (11.3)	107 (12.1)	143 (16.1)	9/16-18	ft-lb (Nm)	92 (124)	122 (165)	129 (174)	172 (233)
1/4-28	in-lb (Nm)	85 (9.6)	115 (13.0)	120 (13.5)	163 (18.4)	5/8-11	ft-lb (Nm)	113 (153)	151 (204)	159 (215)	211 (286)
5/16-18	in-lb (Nm)	157 (17.7)	210 (23.7)	220 (24.8)	305 (34.4)	5/8-18	ft-lb (Nm)	128 (173)	170 (230)	180 (244)	240 (325)
5/16-24	in-lb (Nm)	173 (19.5)	230 (26.0)	245 (27.6)	325 (36.7)	3/4-10	ft-lb (Nm)	200 (271)	266 (360)	282 (382)	376 (509)
3/8-16	ft-lb (Nm)	23 (31.1)	31 (42.0)	32 (43.3)	44 (59.6)	3/4-16	ft-lb (Nm)	223 (302)	298 404	315 (427)	420 (569)
3/8-24	ft-lb (Nm)	26 (35.2)	35 (47.4)	37 (50.1)	50 (67.8)	7/8-14	ft-lb (Nm)	355 (481)	473 (641)	500 (678)	668 (905)

METRIC FASTENERS

SIZE	UNITS									Non Critical Fasteners into Aluminum
		4.6		8.8		10.9		12.9		
		Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	Lubricated	Dry	
M4	Nm (in-lb)	–	–	–	–	–	–	3.83 (34)	5.11 (45)	2.0 (18)
M5	Nm (in-lb)	1.80 (16)	2.40 (21)	4.63 (41)	6.18 (54)	6.63 (59)	8.84 (78)	7.75 (68)	10.3 (910)	4.0 (35)
M6	Nm (in-lb)	3.05 (27)	4.07 (36)	7.87 (69)	10.5 (93)	11.3 (102)	15.0 (133)	13.2 (117)	17.6 (156)	6.8 (60)
M8	Nm (in-lb)	7.41 (65)	9.98 (88)	19.1 (69)	25.5 (226)	27.3 (241)	36.5 (323)	32.0 (283)	42.6 (377)	17.0 (150)
M10	Nm (ft-lb)	14.7 (11)	19.6 (14)	37.8 (29)	50.5 (37)	54.1 (40)	72.2 (53)	63.3 (46)	84.4 (62)	33.9 (25)
M12	Nm (ft-lb)	25.6 (19)	34.1 (25)	66.0 (48)	88.0 (65)	94.5 (70)	125 (92)	110 (81)	147 (108)	61.0 (45)
M14	Nm (ft-lb)	40.8 (30)	54.3 (40)	105 (77)	140 (103)	150 (110)	200 (147)	175 (129)	234 (172)	94.9 (70)

7.1 GENERAL

 **WARNING**

Before you adjust, clean, or repair this equipment, always disengage all drives, engage parking brake and stop engine to prevent serious injury.

Whenever performing maintenance other than carburetor adjustments, remove the spark plug wire and place the wire away from the plug to prevent accidental starting and bodily injury.

1. Adjustment and maintenance should always be performed by a qualified technician. If proper adjustments cannot be made, contact an Authorized Jacobsen Dealer.
2. Inspect the equipment on a regular basis, establish a maintenance schedule and keep detailed records.
 - a. Keep the equipment clean.
 - b. Keep all moving parts properly adjusted and lubricated.
 - c. Replace worn or damaged parts before operating the machine.
 - d. Keep all fluids at their proper levels.

- e. Keep shields in place and all hardware securely fastened.
- f. Keep tires properly inflated.
3. Long hair, jewelry or loose fitting clothing may get tangled in moving parts.

 **CAUTION**

Be careful to prevent entrapment of the hands and fingers between moving and fixed components of the machine.

4. Use the illustrations in the Parts Catalog as reference for the disassembly and reassembly of components.
5. Recycle or dispose of all hazardous materials (fuel, lubricants, etc.) according to local, state or federal regulations.
6. Do not change governor settings or overspeed the engine.
7. A lifting hook has been provided between the engine and the clutch mechanism so the mower can be safely hoisted onto a workbench

7.2 ENGINE

IMPORTANT: A separate Engine Manual, prepared by the engine manufacturer, is supplied with this machine. Read the engine manual carefully until you are familiar with the operation and maintenance of the engine. Proper attention to the engine manufacturer's directions will assure maximum service life of the engine. To order replacement engine manuals contact the engine manufacturer.

The proper break-in of a new engine can make a considerable difference to the performance and life of the engine.

Note: *The mower is designed to operate and cut most efficiently at the preset governor setting. Do not change the engine governor settings or overspeed the engine.*

During the break-in period, Jacobsen recommends the following:

1. Operate machine modestly for the first 25 hours at reduced engine speed.
2. Avoid full throttle starts and rapid acceleration.
3. Allow the engine to reach operating temperature before operating at full load.

4. Change the oil after the first 20 hours of operation.
5. Refer to Section 9.2 and Engine Manual for specific maintenance intervals.

7 MAINTENANCE

7.3 ENGINE OIL

Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove oil filler cap and add oil as required.

Perform initial oil change after the first 20 hours of operation. Change oil every 100 hours thereafter.

See the engine manufacturer's Owners's Manual for detailed service information.

After adding or changing oil, start and run engine at idle with all drives disengaged for 30 seconds. Shut engine off. Wait 30 seconds and check oil level. Add oil to bring up to FULL mark on dipstick.

Use only SAE 10W30 engine oils with API classification SG/SF/CC/CD

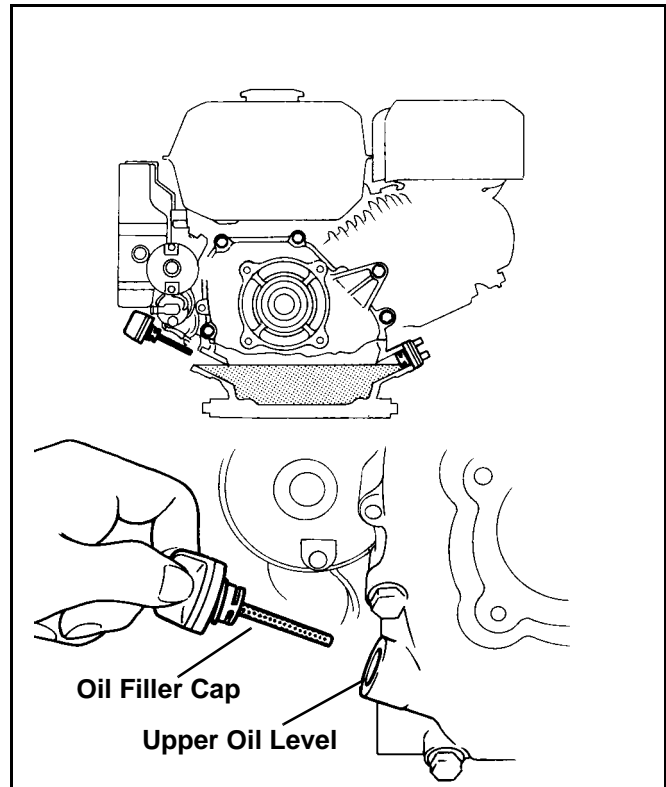


Figure 7A

7.4 TIRES

1. Keep tires properly inflated to prolong tire life. Check pressure only when the tires are cool.
2. Use an accurate, low pressure tire gauge. 6 - 8 psi (41.3-551. kPa)

CAUTION

Unless you have the proper training, tools and experience, DO NOT attempt to mount a tire on a rim. Improper mounting can produce an explosion that may result in serious injury.

7.5 BACKLAPPING AND GRINDING

Check for damage to the bedknife and reel blades. Refer to (Section 6.2).

1. Determine if backlapping or grinding will restore the proper cutting edge.
2. For optimum performance use a bedknife grinder to touch-up the blade then reassemble and adjust the bedknife to the reel as described in (Section 6.2).
3. Assemble lapping handle or lapping machine to left end of reel.
 - a. Apply lapping compound with a long handle brush along the entire length of the reel, (180 grit is recommended, Section 2.6).
 - b. Continue lapping and at the same time make a fine adjustment on the reel and bedknife until there is a uniform clearance along the full length of the cutting edges.
4. Carefully and thoroughly remove all lapping compound from reel and bedknife *before running the reel in forward direction.*

7.6 DAILY MAINTENANCE

1. Park the mower on a flat and level surface. Disengage all drives, engage parking brake, stop the engine and remove the spark plug wire.
2. Grease and lubricate all points if required. To prevent fires, wash the mower after each use.
 - a. Use only fresh water for cleaning your equipment.

Note: *Use of salt water or effluent water has been known to encourage rust and corrosion of metal parts resulting in premature deterioration or failure. Damage of this nature is not covered by the factory warranty.*
 - b. Do not use high pressure spray.
 - c. Do not spray water directly at any electrical components.
 - d. Do not spray water into the engine air intake.

Note: *Do not wash a hot or running engine. Use compressed air to clean the engine cooling fins.*
3. Fill the fuel tank at the end of each operating day.

Use clean fresh unleaded gasoline, 85 octane minimum.
4. Handle fuel with care - it is highly flammable. Use an approved container, the spout must fit inside the fuel filler neck. Avoid using cans and funnels to transfer fuel.
 - a. Never remove the fuel cap from the fuel tank, or add fuel, when the engine is running or while the engine is hot.
 - b. Do not smoke when handling fuel. Never fill or drain the tank indoors.
 - c. Never overfill or allow the tank to become empty. Do not spill fuel. Clean any spilled fuel immediately.
 - d. Never handle or store fuel containers near an open flame or any device that may create sparks and ignite the fuel or fuel vapors.
5. Store fuel according to local, state or federal ordinances and recommendations from your fuel supplier.
6. Check the engine oil at the start of each day, before starting the engine. If the oil level is low, remove the oil filler cap and add oil as required. Do not overfill.

7 MAINTENANCE

7.7 STORAGE

General

1. Wash the mower thoroughly and lubricate. Repair and paint damaged or exposed metal.
2. Inspect the mower, tighten all hardware, replace worn or damaged components.
3. Clean the tires thoroughly and store the tractor on the kickstand so the load is off the tires. The front roller or Turf Groomer should be resting on a wood board.
4. Keep the machine and all its accessories clean, dry and protected from the elements during storage. Never store equipment near an open flame or spark which could ignite fuel or fuel vapors.

Engine

1. While the engine is warm, remove drain plug and drain the oil from the crankcase. Install drain plug and refill with fresh oil. Torque drain plug to 22 ft. lb. (30 Nm).
2. Clean exterior of engine. Paint exposed metal or apply a light coat of rust preventative oil.

To prevent the build-up of gum residues and varnish films, fill the tank with stabilized fuel. Use an anti-oxidant fuel conditioner, such as STA-BIL®. Read and follow the instructions on the container.

Operate the engine for about 10 minutes to distribute the treated fuel. Stop the engine, close the fuel shut-off valve and let the engine cool. Drain fuel.

3. Remove the spark plug and pour about one tablespoon of clean engine oil into the cylinder. Crank engine slowly to distribute oil over the cylinder wall. Replace the spark plug.
4. Pull the starter rope slowly until resistance is felt. Continue pulling until the notch on the starter pulley aligns with the hole on the recoil starter. At this point, the intake and exhaust valves are closed.

Reel and Bedknife

1. Wash the reel and bedknife thoroughly, then repair and paint any damaged or exposed metal.
2. Lubricate all fittings and friction points.
3. Backlap the reels then back the reel away from the bedknife. Apply a light coat of rust preventative oil to the sharpened edges of the reel and bedknife.



CAUTION

To prevent personal injury and damage to the cutting edges, handle the reel with extreme care.

After Storage

4. Check or service air cleaner.
5. Check oil level in the engine crankcase.
6. Fill the fuel tank with fresh fuel. Open fuel shut-off valve.
7. Make certain that the tires are properly inflated.
8. Remove all oil from the reels and bedknife. Adjust bedknife and cutting height.
9. Start and operate the engine at 1/2 throttle. Allow enough time for the engine to become properly warmed and lubricated.



WARNING

Never operate the engine without proper ventilation; exhaust fumes can be fatal when inhaled.

8.1 GENERAL

The troubleshooting chart below lists basic problems that may occur during start-up and operation. For more detailed information, contact your area Jacobsen Dealer.

Symptoms	Possible Causes	Action
Engine will not start.	<ol style="list-style-type: none"> 1. Choke in wrong position 2. Empty fuel tank or dirty fuel 3. Fuel Shut-off valve closed 4. Engine / Spark Plug 5. Engine switch off 	<ol style="list-style-type: none"> 1. See Engine Manual 2. Drain and refill fuel tank with fresh, clean fuel 3. Open fuel shut-off valve 4. See Engine Manual 5. Turn engine switch to On
Engine hard to start or runs poorly, loses power or stalls.	<ol style="list-style-type: none"> 1. Choke in wrong position 2. Dirty or incorrect fuel 3. Loose Wiring 4. Air intake plugged 5. Vent in fuel cap plugged 	<ol style="list-style-type: none"> 1. See Engine Manual 2. Refill with proper grade, clean fuel 3. Check spark plug wire 4. Clean air intake and air cleaner 5. Clean fuel cap
Mower does not react to control lever	<ol style="list-style-type: none"> 1. Drive joint clutch disengaged 2. Traction clutch disengaged 3. Reel clutch disengaged 	<ol style="list-style-type: none"> 1. Engage drive joint clutch 2. Engage traction clutch 3. Engage reel clutch
Reels do not cut, or cut unevenly	<ol style="list-style-type: none"> 1. Reel to bedknife not adjusted 2. Drive joint clutch disengaged 3. Reel clutch disengaged 	<ol style="list-style-type: none"> 1. Adjust Reel to Bedknife 2. Engage drive joint clutch 3. Engage reel clutch

9 MAINTENANCE & LUBRICATION CHARTS

9.1 GENERAL

Over greasing will produce high loads on the bearings and engine; thereby reducing the performance of the machine.

All maintenance intervals must be performed more frequently when operating in extremely dusty conditions.



WARNING

Before you clean, adjust, or repair this equipment, disengage all drives, lower implements to the ground, engage parking brake, stop engine and disconnect spark plug wire to prevent injuries.

1. Always clean grease fittings before and after lubrication.
2. Apply grease with a manual grease gun and fill slowly until grease begins to seep out. Do not use compressed air.
3. For smooth operation of pivot points and other friction points, apply several drops of SAE 30 oil every 50 hours or as required.
4. To lubricate fitting **L12**, remove engine clutch cover.

9.2 MAINTENANCE CHART

Recommended Service and Lubrication Intervals

	Every 8-10 Hours	Every 20 Hours	Every 50 Hours	Every 100 Hours	Every 250 Hours	Yearly	Lubricant Type
Air Cleaner	I		C			R	
Combustion Chamber					C		
Engine Oil	I	R*		R			I
Fuel Line						R - 2yrs	
Fuel Strainer				C			
Spark Plug				A/R			
Valve Clearance					A		
Grease Locations							
L1 - L7	L						II
L8 - L11			L				II
L12						L	II
Gear Cases						AR	III

A - Add or Adjust C - Clean I - Inspect L - Lubricate R - Replace AR - As Required

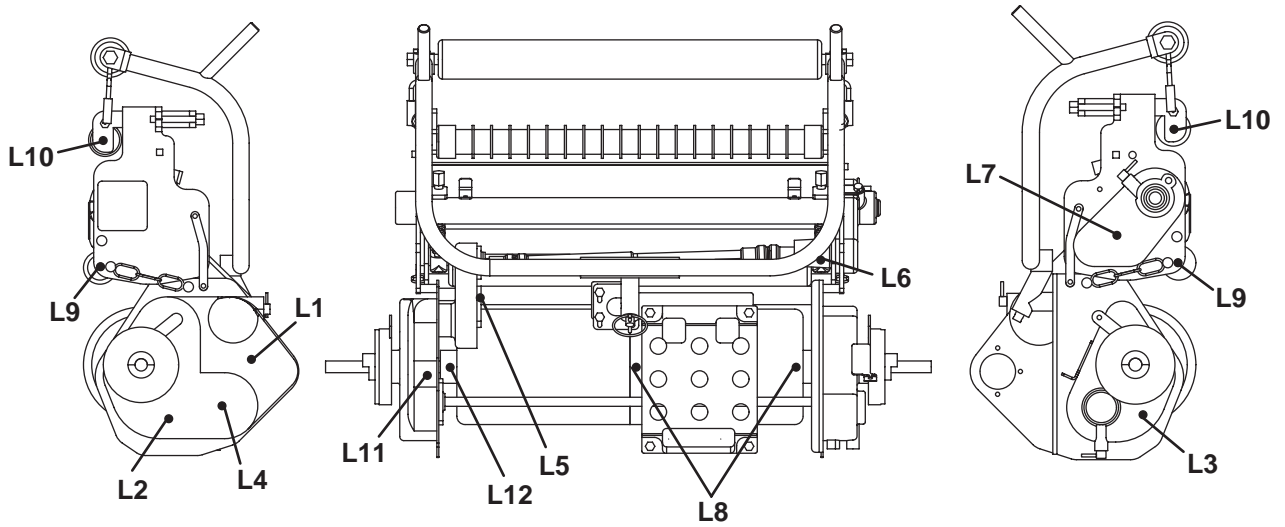
* Indicates initial service for new machines.

I Engine Oil - See Section 7.3

II Excelite EP No 2 Grease, Jacobsen Part No. 4127663 (400 gram tube)

III Dynamax No. 1 Grease, Jacobsen Part No. 4127662 (400 gram tube)

9.3 LUBRICATION CHART



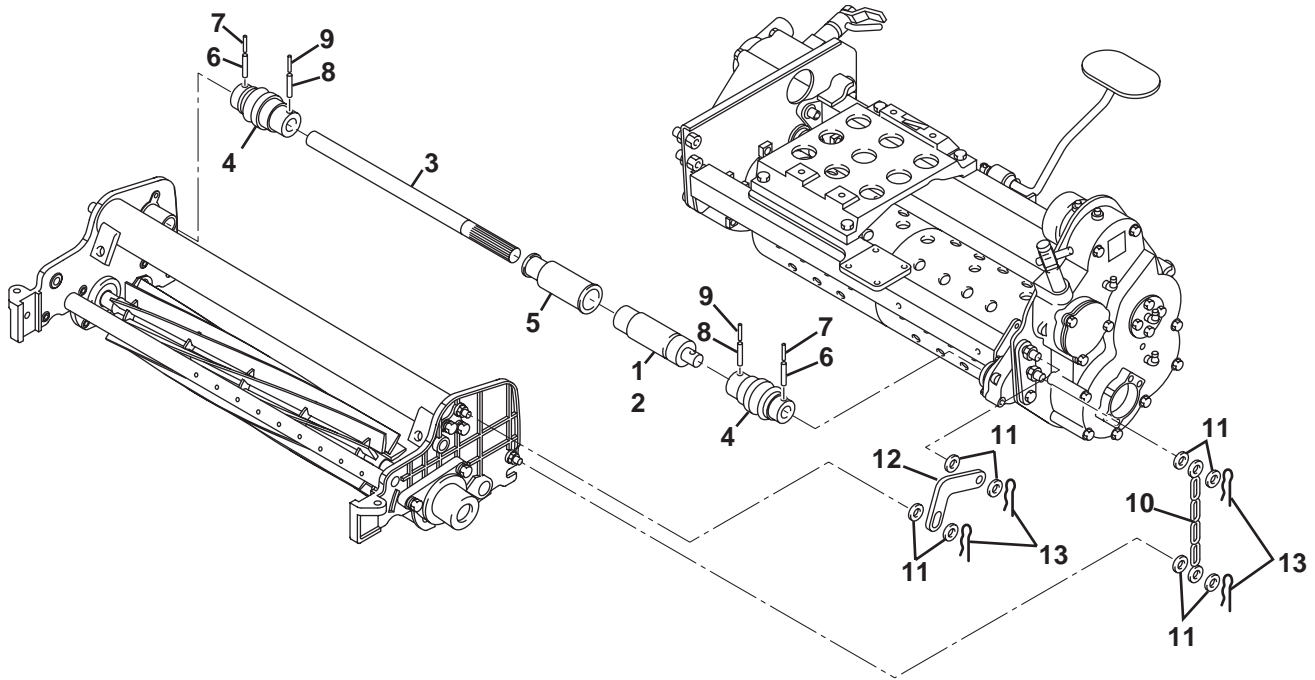
Fitting	Qty	Description	Service Interval	Lubrication Type
L1	1	Left Hand Frame No. 2 Shaft	Every 8-10 Hours	II
L2	1	Left Hand Frame No. 4 Shaft	Every 8-10 Hours	II
L3	1	Right Hand Frame No. 2 Shaft	Every 8-10 Hours	II
L4	1	Differential Gear Section	Every 8-10 Hours	II
L5	1	Transmission Gear Case	Every 8-10 Hours	II
L6	1	Mower No. 1 Shaft	Every 8-10 Hours	II
L7	1	Mower Intermediate Shaft	Every 8-10 Hours	II
L8	2	Traction Drum	Every 50 Hours	II
L9	2	Rear Roller	Every 50 Hours	II
L10	2	Front Roller	Every 50 Hours	II
L11	1	Left Hand Frame Clutch Shaft Bearing	Every 50 Hours	II
L12	1	Engine Clutch Shaft Bearing	Yearly	II

10 PARTS CATALOG

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1 Mower-Traction Unit Connection



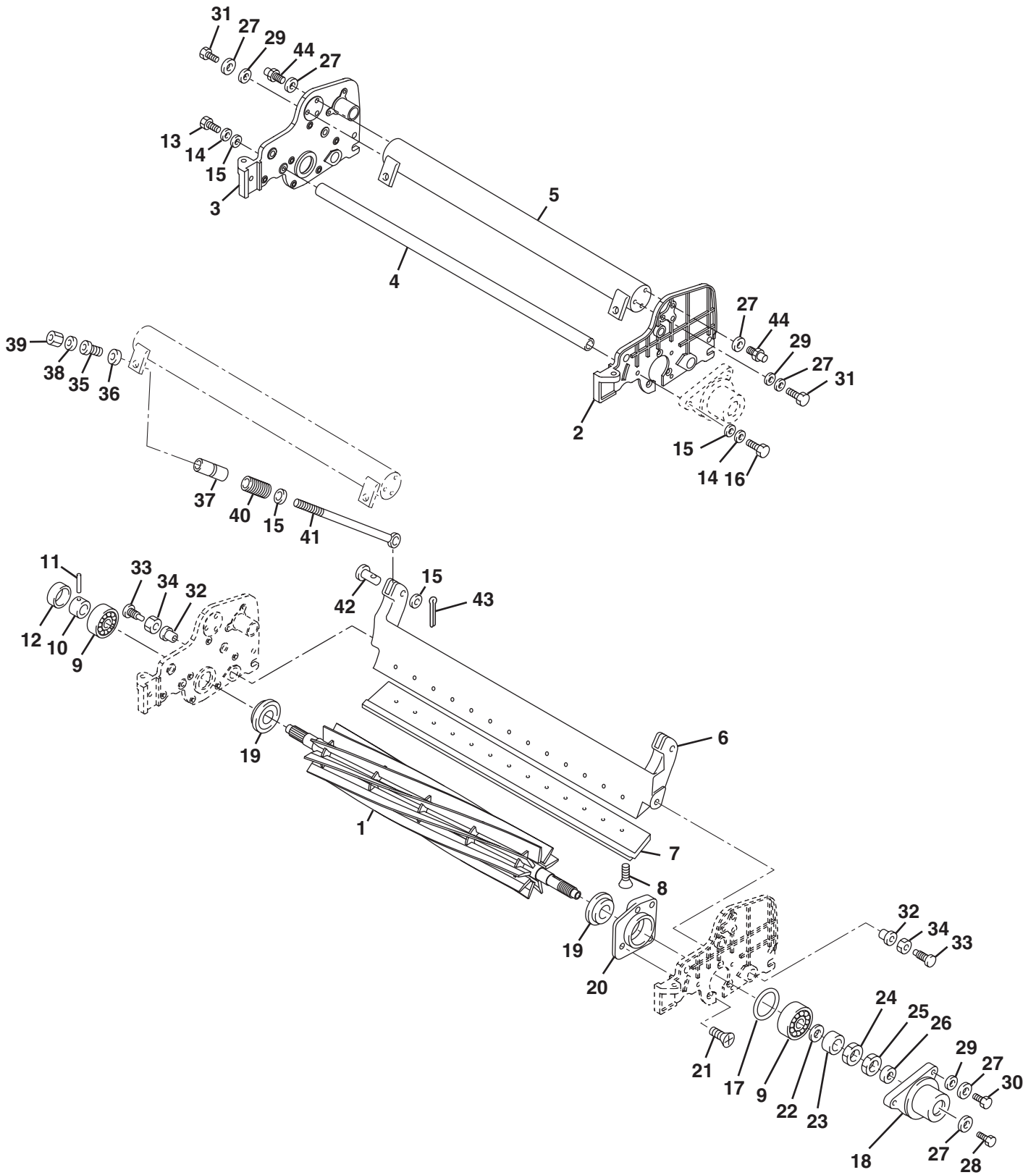
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1-1	4127838	1	Joint Assembly	
1-2	4127839	1	• Spline Sleeve With Boss	
1-3	4127840	1	• Spline Shaft	
1-4	4127841	2	• Joint TBJ14SBC	
1-5	4127842	1	• 24 Boot 250	
1-6	4127722	2	• M4 Spring Pin 22	
1-7	4127843	2	• M2.5 Spring Pin 22	
1-8	4127844	2	• M4 Spring Pin 25	
1-9	4127845	2	• M2.5 Spring Pin 25	
1-10	4127802	2	Chain	
1-11	4127576	16	M8 Washer	
1-12	4127805	2	Mower Supporting Piece	
1-13	4127806	8	M8 Positive Lock Snap Pin	

> Change from previous revision

TOURNAMENT CUT™ 22

2 Mower Frame

Serial No. All



TOURNAMENT CUT™ 22

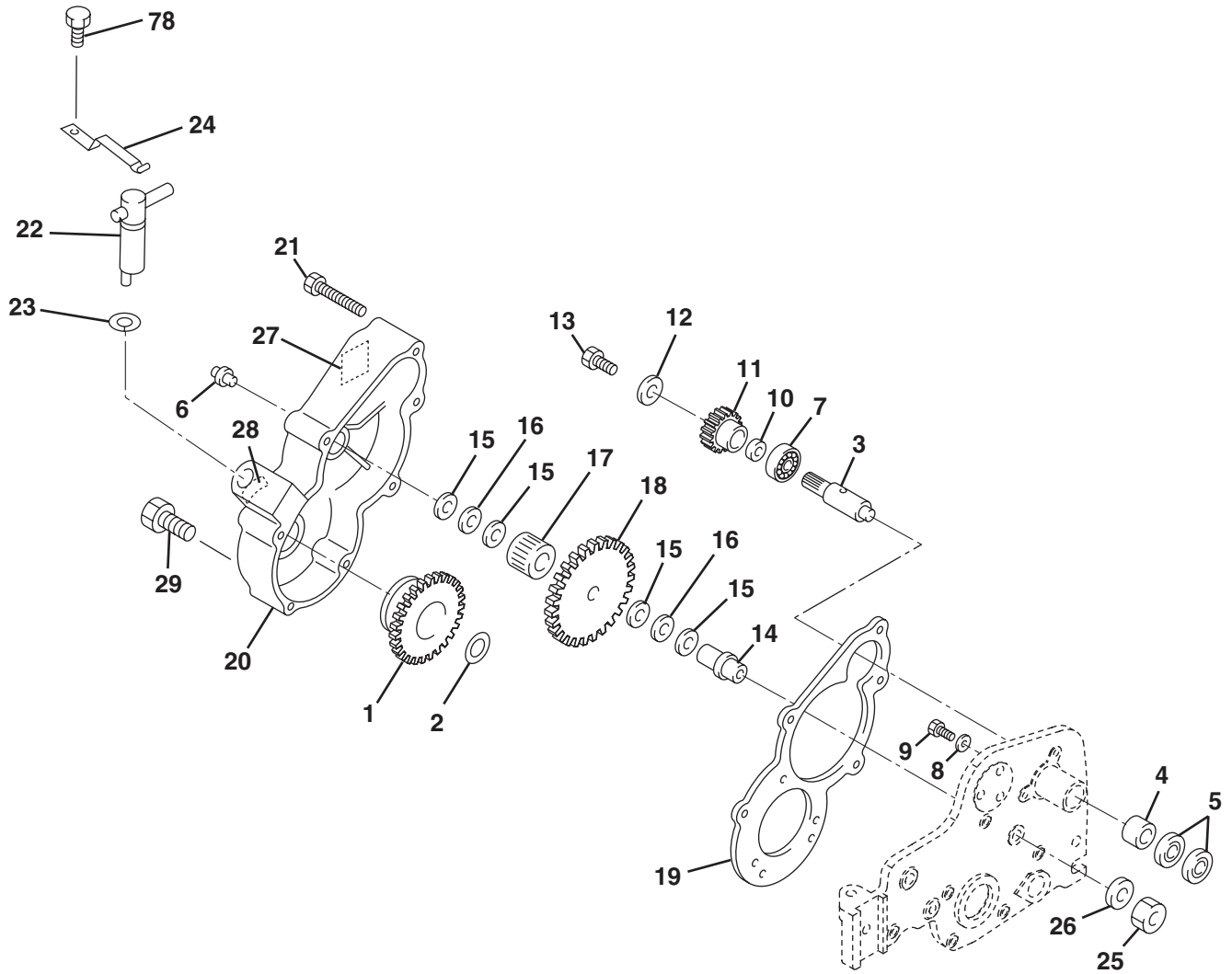
Item	Part No.	Qty.	Description	Serial Numbers/Notes
2-1	4127515	1	Cutting Cylinder - 557	
2-2	4127516	1	Left-hand Frame	
2-3	4127624	1	Right-hand Frame	
2-4	4127534	1	Mower Front Stay 603.4	
2-5	4127651	1	Mower Stay	
	4127581	1	Bed Knife Comp	Includes 43~45
2-6	4127582	1	• Bed Knife Mount	
2-7	4127583	1	• 2.5 Bed Knife 55g-k	See pg.7 for Bed Knife options
2-8	4127584	13	• M6 Heat-treated Countersunk Screw	
2-9	4127517	2	Tapered Roller - 30204JRP6	
2-10	4127518	1	Bearing Collar - Left	
2-11	4127519	1	M4.5 Hardened Pin 28	
2-12	4127520	1	Pin Retaining Collar	
2-13	4127505	1	Knock Bolt 25	
2-14	4127622	2	M10 Conical Disc Spring H	
2-15	4127660	6	M10 Washer	
2-16	4127535	1	M10 Knock Bolt 40	
2-17	4127532	1	O-ring P50	
2-18	4127533	1	Cylinder Shaft Cover	
2-19	4127524	2	Oil Seal 254210fa	
2-20	4127525	1	Left-hand Cylinder Housing	
2-21	4127526	3	M8 Cross-head Countersunk Screw 20	
2-22	4127530	1	20 Corrugated Metal Washer	
2-23	4127522	1	20.2stkm Collar 25.417	
2-24	4127528	1	20 Small Nut 10p1.5	
2-25	4127529	1	20 Small Nut 8p1.5	
2-26	4127656	1	Oil Seal MH16287	
2-27	4127577	9	M8 Conical Spring Metal Washer 1H	
2-28	4127655	1	M8 Bolt 16P1	
2-29	4127576	6	M8 Washer	
2-30	4127653	2	M8 Bolt 30	
2-31	4127652	4	M8 Bolt 20	
2-32	4127593	2	Cam Bush	
2-33	4127595	2	Cutter Pin R	
2-34	4127596	2	Lock Nut	
2-35	4127588	2	Threaded Cutter Adjusting Tube	
2-36	4127589	2	Lock Nut	
2-37	4127590	2	Collar 53.	
2-38	4127591	2	1SPCC Metal Washer 1016	
2-39	4127592	2	M10 Blade Support Adjusting Nut P1	
2-40	4127586	2	3.5 Compression Spring 17.560	
2-41	4127585	2	Cutter Adjusting Bolt 185	
2-42	4127659	2	M10 Flat Head Pin 32	
2-43	4127661	2	2.5 Split Pin 20	
2-44	4127620	2	Bolt 45	

> Change from previous revision

TOURNAMENT CUT™ 22

3 Mower Gear Case

Serial No. All



TOURNAMENT CUT™ 22

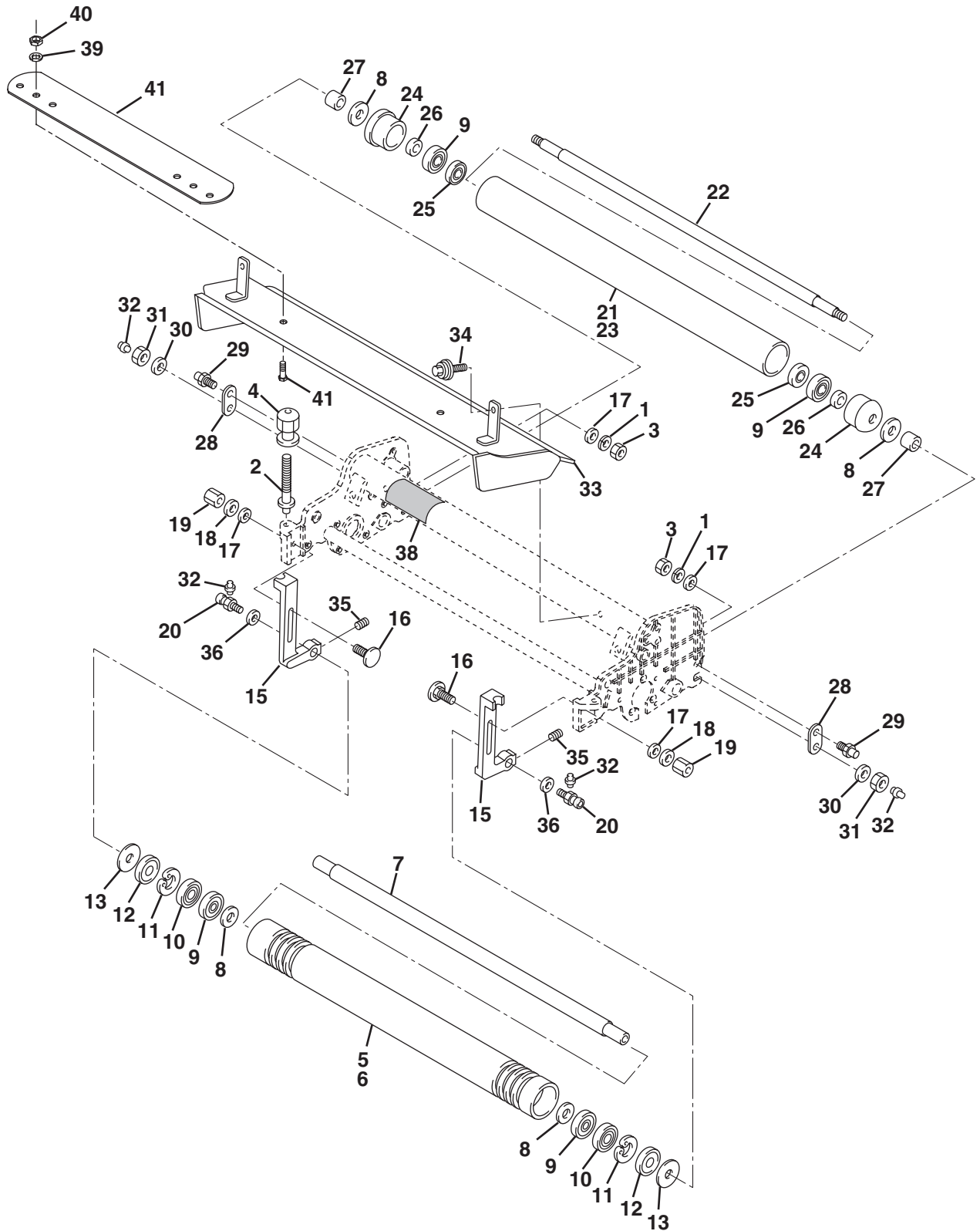
Item	Part No.	Qty.	Description	Serial Numbers/Notes
3-1	4127521	1	32 Tooth Gear	
3-2	4127531	1	O-ring P18	
3-3	4127625	1	No.1 Shaft	
3-4	4127626	1	Needle Bearing TAF212920OG	
3-5	4127628	2	Seal DS21294 For Needle Bearing	
3-6	4127629	6	Grease Nipple	
3-7	4127630	1	Bearing 60032RDC3	
3-8	4127631	1	2.3SPCC Special Metal Washer 625	
3-9	4127632	2	M6 Bolt 16S	
3-10	4127633	1	Collar	
3-11	4127634	1	16 Tooth Gear	
3-12	4127636	1	2.3SPCC Metal Washer 820	
3-13	4127638	1	M8 Bolt 15S	
3-14	4127639	1	Intermediate Shaft	
3-15	4127640	4	1C5191P Metal Washer 1328	
3-16	4127641	2	0.8NBS55 Metal Washer 1328	
3-17	4127642	1	Needle Bearing KT131712	
3-18	4127643	1	37 Tooth Gear	
3-19	4127644	1	Case Gasket	
3-20	4127645	1	Right-hand Gear Cover Comp	
3-21	4127647	7	M6 Bolt 50SW	
3-22	4127648	1	Clutch Handle	
3-23	4127649	1	O-ring P15	
3-24	4127650	1	Clutch Operating Spring	
3-25	4127587	1	M10 Conical Disc Spring L	
3-26	4127623	1	M10 Nut 3P10H1	
3-27	4127621	1	10 Hour Greasing Label	
3-28	4127666	1	ON/OFF Label A	
3-29	4127664	1	M8 Bolt 15SW	

> Change from previous revision

TOURNAMENT CUT™ 22

Serial No. All

4 Mower Rollers and Shield



TOURNAMENT CUT™ 22

Item	Part No.	Qty.	Description	Serial Numbers/Notes	
4-1	4127527	2	M8 S Washer	Includes 5~11	
4-2	4127536	2	Adjusting Screw		
4-3	4127537	2	M8 Nut		
4-4	4127538	2	Roller Adjuster		
4-5	4127539	1	Front Roller Assembly		
4-6	4127540	1	• Grooved Roller		
4-7	4127566	1	• Front Roller Shaft		
4-8	4127567	4	• 1C5191P Metal Washer 1528		
4-9	4127568	4	• Bearing 62022rdc3		
4-10	4127569	2	• Oil Seal 6202		
4-11	4127570	2	• Stop Ring R42		
4-12	4127571	2	• Oil Seal TA1542.38		
4-13	4127572	2	1C5191P Metal Washer 1547		
4-14	4127573	1	Right-hand Roller Bracket		
4-15	4127574	1	Left-hand Roller Bracket		
4-16	4127575	2	M8 Round Head Square Neck Bolt 30		
4-17	4127576	6	M8 Washer		
4-18	4127577	2	M8 Conical Spring Metal Washer 1H		
4-19	4127578	2	M8 Long Nut 20		
4-20	4127579	1	Left-hand Mower Attachment Bolt		
4-21	4127597	1	Rear Roller Assembly		Includes 8, 20~24
4-22	4127598	1	• Rear Roller Shaft		
4-23	4127599	1	• Rear Roller		
4-24	4127600	2	• Rear Roller Housing		
4-25	4127616	2	• Oil Seal MHS16359		
4-26	4127617	2	• Oil Seal MH15254		
4-27	4127618	2	Collar		
4-28	4127619	2	Stop		
4-29	4127620	2	Bolt 45		
4-30	4127622	2	M10 Conical Disc Spring H		
4-31	4127623	2	M10 Nut 3P10H1		
4-32	4127629	6	Grease Nipple		
4-33	4127657	1	Cutting Cylinder Cover		
4-34	4127658	2	M6 Bolt 15SW		
4-35	4127804	2	M6 Stainless Hollow Set Screw 10		
4-36	4128276	AR	0.3C5191P Washer 1014		
4-37	4127580	1	Right-hand Mower Attachment Bolt		
4-38	3001235	1	Decal, Danger		
4-39	446142	2	Lockwasher, 3/8 Heavy		
4-40	443110	2	Nut, 3/8-16 Hex		
4-41	400264	2	Screw, 3/8-16 UNC X 1.250 Hex		
4-42	3000053	5	Plate, Weight		

> Change from previous revision

TOURNAMENT CUT™ 22

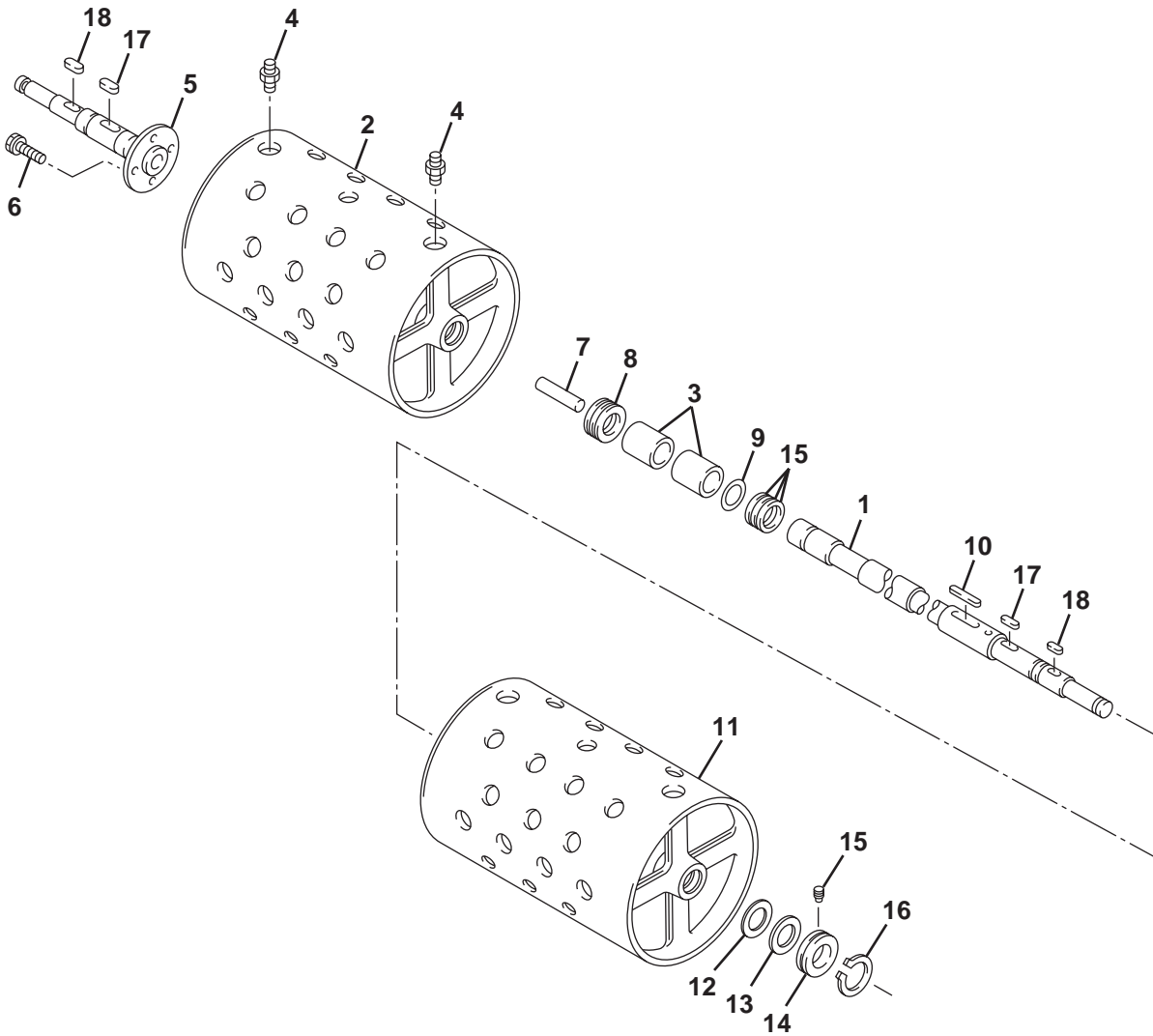
Item	Part No.	Qty.	Description	Serial Numbers/Notes
5-1	4127667	1	Drum Assembly	See Illustration 6
5-2	4127803	1	Transmission Gear Case Assembly	See Illustration 7
5-3	4127818	1	• 2.3SPCC Metal Washer 620	
5-4	4127632	1	• M6 Bolt 16S	
5-5	4127797	1	Right-Hand Shaft Housing	
5-6	4127760	8	M8 Hexagon Bolt With Holes 20	
5-7	4127761	8	M8 Conical Spring Washer 2H	
5-8	4127714	4	M8 Bolt 30SW	
5-9	4128277	1	M6 Nut With Conical Disc Spring	
5-10	4127715	1	Engine Base 106	
5-11	4127716	1	10.2 Collar 59.8	
5-12	4127717	1	M10 Bolt 80	
5-13	4127718	1	M10 Nut With Conical Disc Spring	
5-14	4127719	5	M10 Bolt 20	
5-15	4127720	1	Stand	
5-16	4127721	1	Stand Spring R	
5-17	4127722	1	M4 Spring Pin 22	
5-18	4127723	1	2.3SPCC Metal Washer 625	
5-19	4127632	1	M6 Bolt 16S	
5-20	4127725	1	M6 Bolt 130	
5-21	4127726	1	Frame Rear Stay	
5-22	4127727	1	Frame Front Stay	
5-23	4127660	5	M10 Washer	
5-24	4127851	5	M10 Conical Spring Washer 1H	
5-25	4127728	1	Left-hand Frame	
5-26	4127756	2	Oil Seal MHSA25428	
5-27	4127757	1	Left-hand Shaft Housing	
5-28	4127758	2	Bearing 6204C3	
5-29	4127759	1	Stop Ring R47	
5-30	4127782	1	Right-hand Frame	
5-31	4127801	4	Chain-holding Bolt	
5-32	4127718	3	M10 Nut With Conical Disc Spring	
5-33	REF	1	Serial Plate	
5-34	4117467	1	Decal, Noise	
5-35	4127931	1	Decal, Patent	
5-36	2811102	1	Decal, Warning	

> Change from previous revision

TOURNAMENT CUT™ 22

Serial No. All

6 Traction Drum



TOURNAMENT CUT™ 22

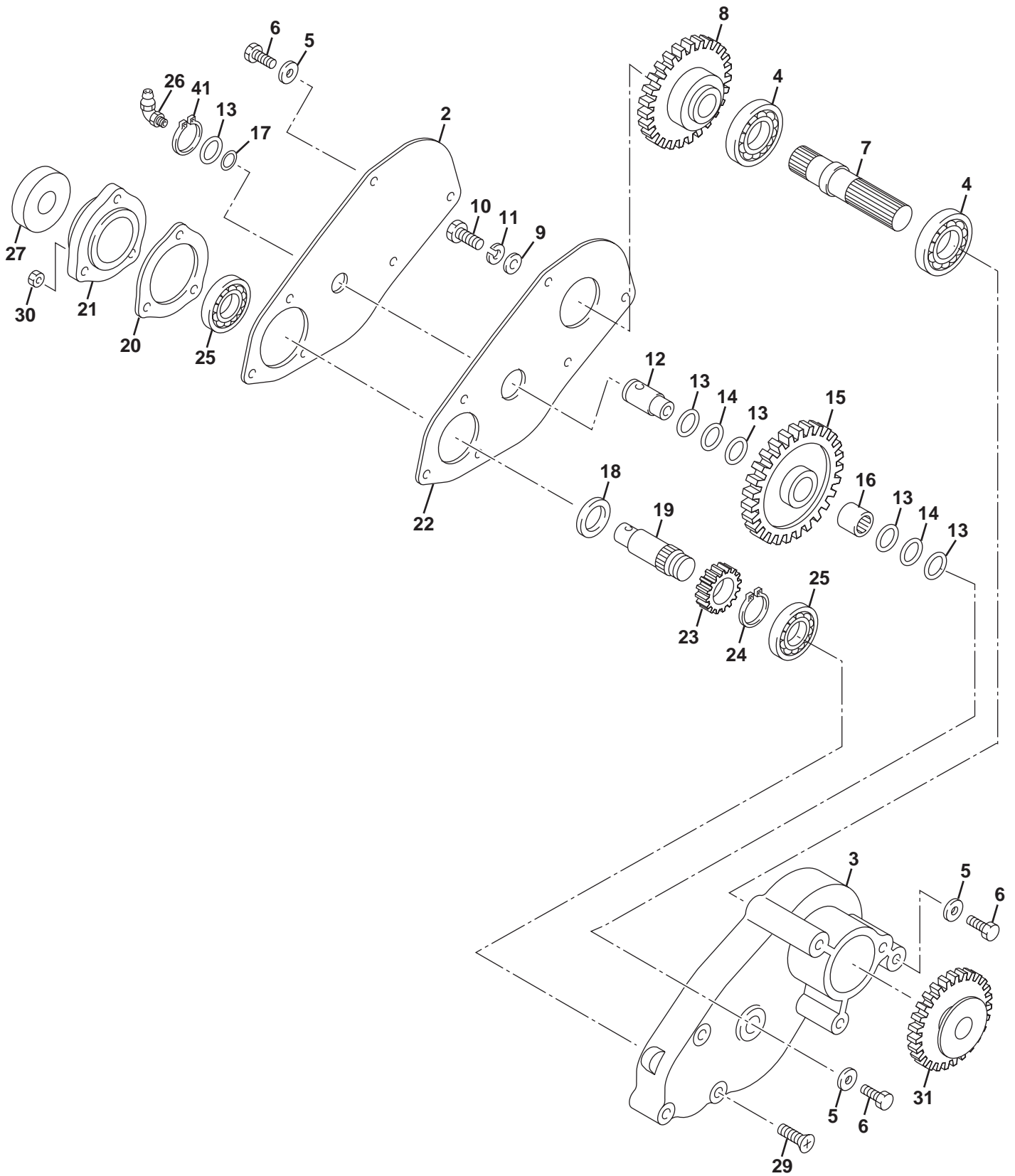
Item	Part No.	Qty.	Description	Serial Numbers/Notes
	4127667	1	Drum Assembly	Includes 1~18
6-1	4127668	1	• Drum Left-hand Shaft	
	4127669	1	• Right-hand Drum Comp	Includes 2 ~ 3
6-2	4127670	1	• • Right-hand Drum	
6-3	4127674	2	• • M25.4 Bush 30.142	
6-4	4127629	2	• Grease Nipple	
6-5	4127675	1	• Drum Right-hand Shaft	
6-6	4127679	4	• M8 Bolt 20S	
6-7	4127680	1	• Drum Intermediate Shaft	
6-8	4127682	3	• 1C5191P Metal Washer 1330	
6-9	4127683	1	• O-ring P25.5	
6-10	4127684	1	• Double Key 535.5	
6-11	4127685	1	• Left-hand Drum	
6-12	4127686	AR	• 0.3C5191P Metal Washer 25.442	
6-13	4127687	4	• 1C5191P Metal Washer 25.442	
6-14	4127688	1	• Drum Collar	
6-15	4127689	1	• Drum Collar Stopper	
6-16	4127690	1	• Stop Ring S42	
6-17	4127691	2	• 5 Double Key 516	
6-18	4127692	2	• 5 Double Key 528	

> Change from previous revision

TOURNAMENT CUT™ 22

Serial No. All

7 Transmission



TOURNAMENT CUT™ 22

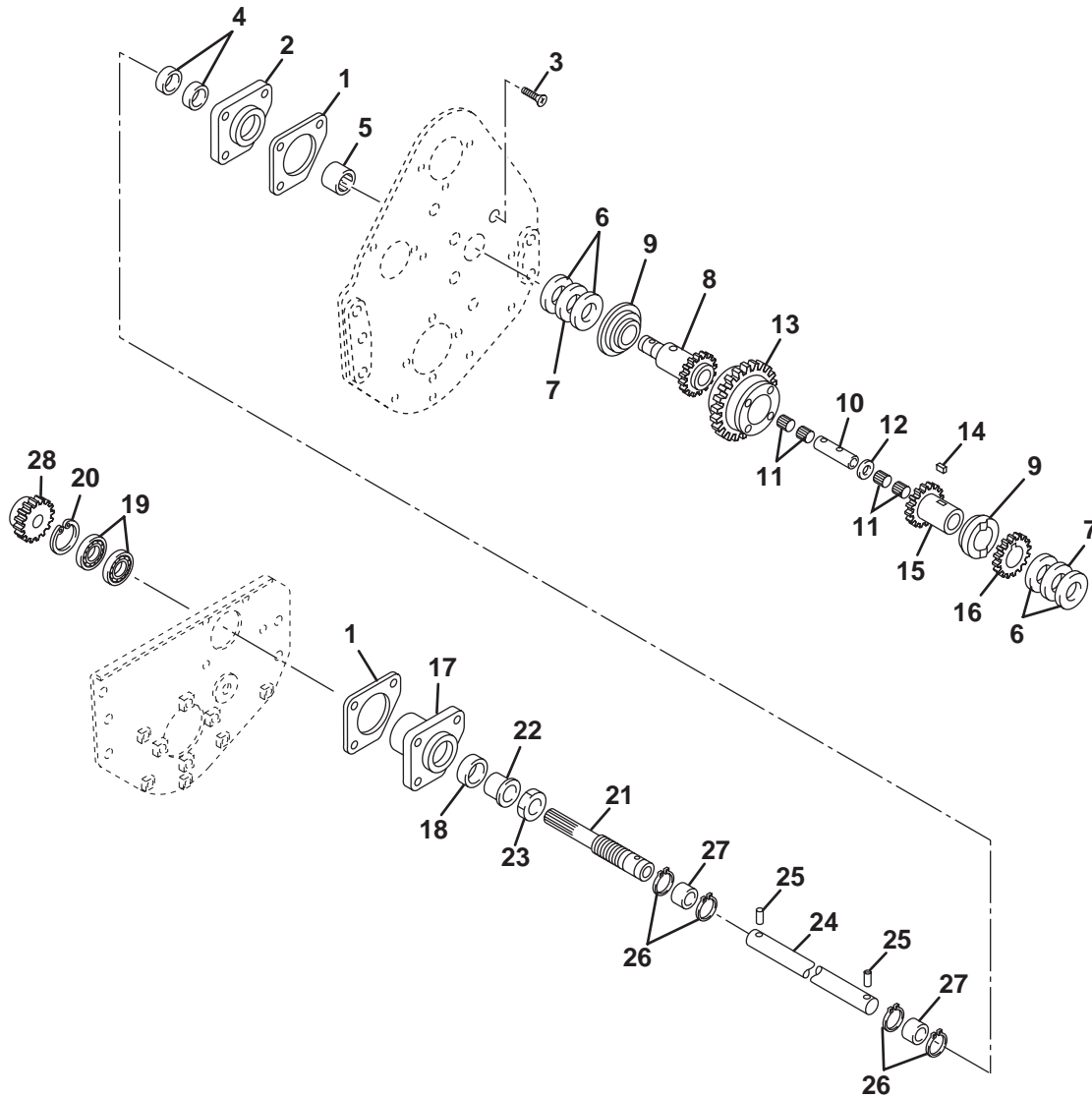
Item	Part No.	Qty.	Description	Serial Numbers/Notes
7-1	4127803	1	Transmission Gear Case Assembly	Includes 2~30
7-2	4127816	1	• Plate With Label	
7-3	4127817	1	• Gear Case	
7-4	4127710	2	• Bearing 62032NSEC3	
7-5	4127818	4	• 2.3SPCC Metal Washer 620	
7-6	4127632	4	• M6 Bolt 16S	
7-7	4127820	1	• No.1 Shaft	
7-8	4127821	1	• 31 Tooth Gear	
7-9	4127822	1	• 2.3 SPCC Washer 820	
7-10	4127823	1	• M8 Bolt 15	
7-11	4127577	1	• M8 Conical Spring Washer 1H	
7-12	4127824	1	• Intermediate Shaft	
7-13	4127734	5	• 1C5191P Metal Washer 1322	
7-14	4127735	2	• 0.8NBS55 Metal Washer 1322	
7-15	4127825	1	• Intermediate 35 Tooth Gear	
7-16	4127642	1	• Needle Bearing KT131712	
7-17	4127800	1	• O-ring P12.5	
7-18	4127826	1	• 3 Collar 1522	
7-19	4127827	1	• Coupling Shaft	
7-20	4127828	1	• Gasket	
7-21	4127829	1	• Housing	
7-22	4127830	1	• Large Gasket	
7-23	4127634	1	• 16 Tooth Gear	
7-24	4127831	1	• Stop Ring S15	
7-25	4127833	2	• Bearing 6002C3	
7-26	4127834	1	• C Grease Nipple PT1/8	
7-27	4127835	1	• Oil Seal AJN15357	
7-28	4127846	1	• Stop Ring S13	
7-29	4127836	3	• M6 Cross-hd Csk Screw 45 Special	
7-30	4127500	5	• M6 Nut	
7-31	4127837	1	27 Tooth Gear	

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TOURNAMENT CUT™ 22

Serial No. All

8 Differential



TOURNAMENT CUT™ 22

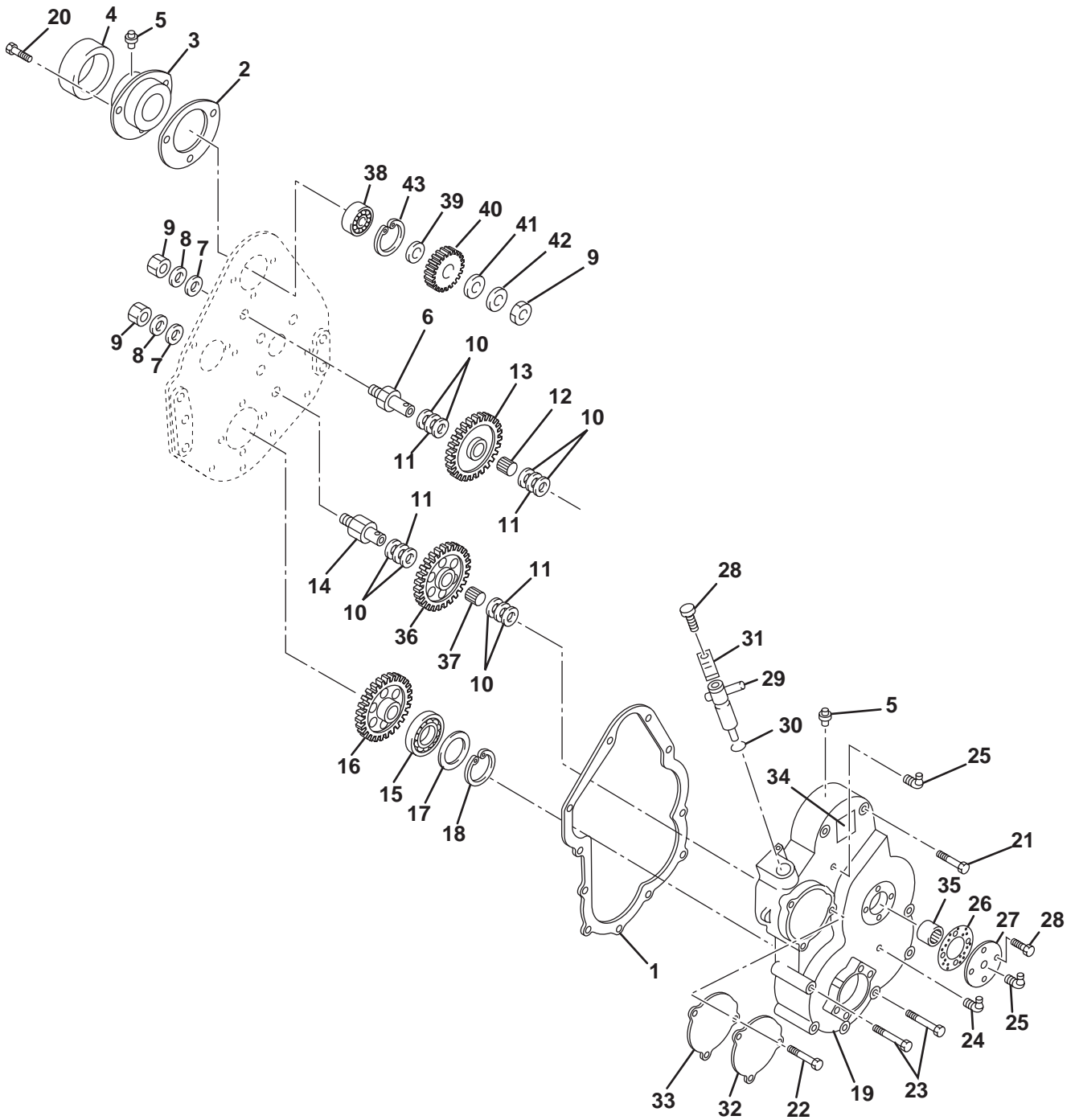
Item	Part No.	Qty.	Description	Serial Numbers/Notes
8-1	4127737	2	Differential Housing Gasket	
8-2	4127738	1	Left-hand Differential Housing	
8-3	4127739	3	M6 Cross-head Countersunk Screw 12	
8-4	4127740	2	Seal OS18264 for Needle Bearing	
8-5	4127741	2	Needle Bearing TA2210Z	
8-6	4127742	4	1C5191P Metal Washer 2230	
8-7	4127743	2	0.8NBS55 Metal Washer 2230	
8-8	4127744	1	Right-hand 16 Tooth Differential Gear	
8-9	4127745	2	Differetail Gear Bearing	
8-10	4127746	1	M10 Differetail Pin 55	
8-11	4127747	4	Needle Bearing KT 101310	
8-12	4127748	1	1C5191P Metal Washer 1022	
8-13	4127749	1	50 Tooth Differetail Gear Assembly	
8-14	4127750	1	5 Single Key 46.3	
8-15	4127751	1	Left-hand 16 Tooth Differetail Gear	
8-16	4127752	1	Left-hand 18 Tooth Gear	
8-17	4127784	1	Right-hand Differential Housing	
8-18	4127785	1	Oil Seal MH20305	
8-19	4127786	2	Bearing 6202-2NSEC3	
8-20	4127787	1	Stop Ring R35	
8-21	4127788	1	Right-hand Transmission Shaft	
8-22	4127789	1	M17 Special Nut P1-22	
8-23	4127790	1	M17 Special Nut P1-7	
8-24	4127791	1	Transmission Shaft	
8-25	4127792	2	M4 Needle Roller 17.8	
8-26	4127793	4	Stop Ring S18	
8-27	4127794	2	Differential Coupling Shaft Collar	
8-28	4127795	1	18 Tooth Gear M2	

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TOURNAMENT CUT™ 22

9 Left Side Gear Case

Serial No. All



TOURNAMENT CUT™ 22

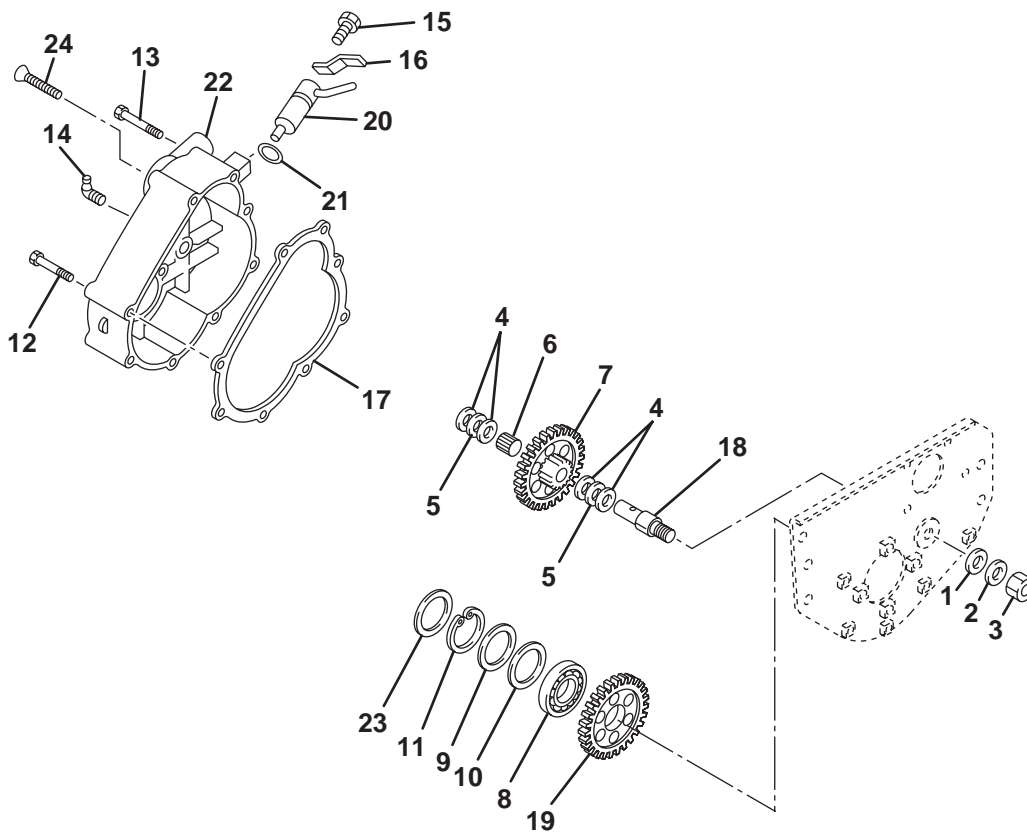
Item	Part No.	Qty.	Description	Serial Numbers/Notes
9-1	4127729	1	Large Gasket	
9-2	4127730	1	No.1 Shaft Gasket	
9-3	4127731	1	No.1 Shaft Housing	
9-4	4127732	1	Oil Seal MHS19307	
9-5	4127629	2	Grease Nipple	
9-6	4127733	1	No.2 Shaft	
9-7	4127660	2	M10 Washer	
9-8	4127622	2	M10 Conical Disk Spring H	
9-9	4127623	3	M10 Nut 3P10H1	
9-10	4127734	8	1C5191P Metal Washer 1322	
9-11	4127735	4	0.8NBS55 Metal Washer 1322	
9-12	4127642	1	Needle Bearing KT 131712	
9-13	4127736	1	38 Tooth Gear	
9-14	4127753	1	Left-hand Frame No.4 Shaft	
9-15	4127758	1	Bearing 6204C3	
9-16	4127762	1	Left-hand 45 Tooth Shaft Gear	
9-17	4127764	2	0.3SPCC Metal Washer 2028	
9-18	4127766	1	Stop Ring S20	
9-19	4127767	1	Left-hand Frame Cover Comp	
9-20	4127768	2	M6 Bolt 20SW	
9-21	4127647	2	M6 Bolt 50SW	
9-22	4127769	6	M6 Bolt 65SW	
9-23	4127770	3	M6 Bolt 70SW	
9-24	4127771	1	B Grease Nipple	
9-25	4127773	2	C Grease Nipple	
9-26	4127775	AR	Gasket	
9-27	4127777	1	Bearing Pressure Plate	
9-28	4127779	4	M6 Bolt 15SW	
9-29	4127780	1	Clutch Handle	
9-30	4127649	1	O-ring P15	
9-31	4127781	1	Clutch Pressure Spring	
9-32	4127809	1	Cover	
9-33	4127810	1	Gasket	
9-34	4127621	1	10 Hour Greasing Label	
9-35	4127741	1	Needle Bearing TA2210Z	
9-36	4127808	1	Left-hand 46 Tooth 17 Tooth Gear	
9-37	4127754	1	Needle Bearing KTW131720	
9-38	4127710	1	Bearing 62032NSEC3	
9-39	4127711	1	17.1STKM Collar 2214	
9-40	4127634	1	16 Tooth Gear	
9-41	4127712	1	10 Washer 22	
9-42	4128279	1	10 Conical Spring Washaer 2L	
9-43	4127724	2	Stop Ring R40	

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TOURNAMENT CUT™ 22

10 Right Side Gear Case

Serial No. All



TOURNAMENT CUT™ 22

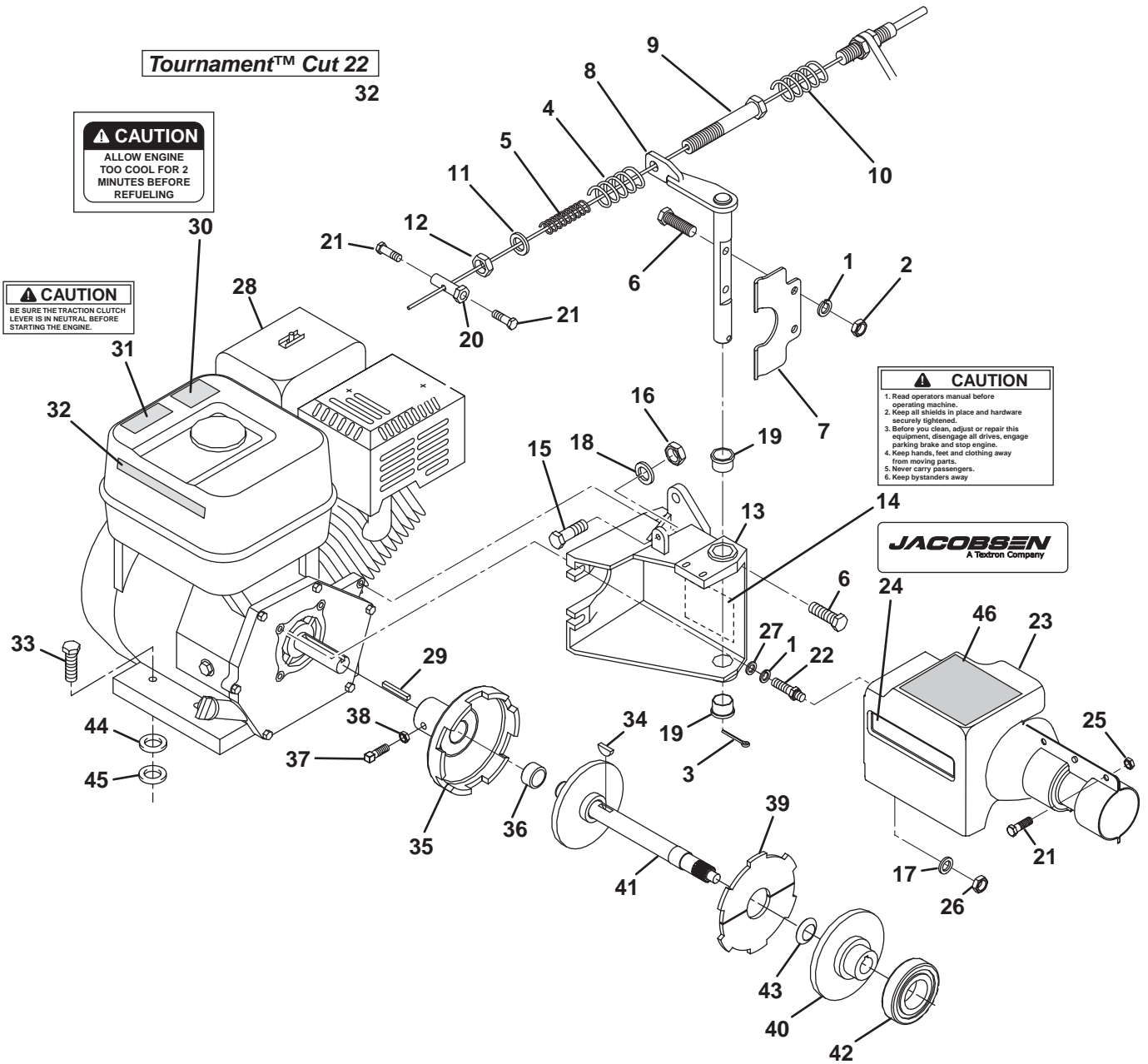
Item	Part No.	Qty.	Description	Serial Numbers/Notes
10-1	4127660	1	M10 Washer	Minimum Order of 10
10-2	4127622	1	M10 Conical Disk Spring H	
10-3	4127623	1	M10 Nut 3P10H1	
10-4	4127734	4	1C5191P Metal Washer 1322	
10-5	4127735	2	0.8NBS55 Metal Washer 1322	
10-6	4127754	1	Needle Bearing KTW131720	
10-7	4127755	1	46 Tooth 17 Tooth Right-hand Gear	
10-8	4127758	1	Bearing 6204C3	
10-9	4127763	2	1SPCC Metal Washer 2028	
10-10	4127764	2	0.3SPCC Metal Washer 2028	
10-11	4127766	1	Stop Ring S20	
10-12	4127769	3	M6 Bolt 65SW	
10-13	4127770	4	M6 Bolt 70SW	
10-14	4127773	1	C Grease Nipple	
10-15	4127779	1	M6 Bolt 15SW	
10-16	4127781	1	Clutch Pressure Spring	
10-17	4127783	1	Right-hand Gasket	
10-18	4127796	1	Right-hand Frame No.2 Shaft	
10-19	4127798	1	Right-hand 45 Tooth Shaft Gear	
10-20	4127799	1	Clutch Handle	
10-21	4127800	1	O-ring P12.5	
10-22	4127807	1	Right-hand Frame Cover Comp	
10-23	4127811	1	0.3 SPCC Washer 4046.5	
10-24	4128280	1	M6 Cross-head Countersunk Screw 65	

> Change from previous revision

TOURNAMENT CUT™ 22

Serial No. All

11 Engine and Clutch



TOURNAMENT CUT™ 22

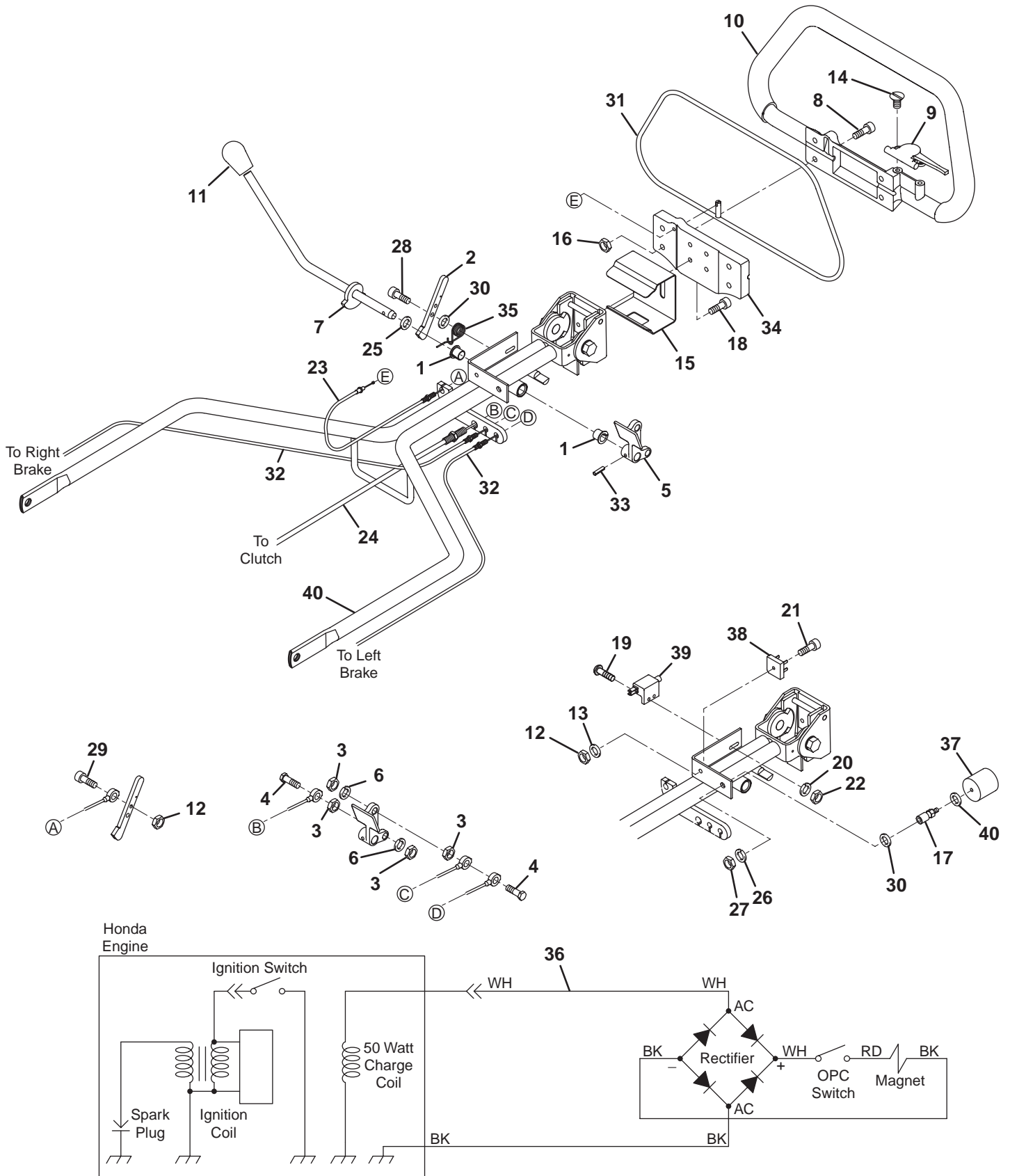
Item	Part No.	Qty.	Description	Serial Numbers/Notes
11-1	446136	5	Lockwasher, 5/16 Heavy	
11-2	443108	2	Nut, 5/16-24 Hex	
11-3	460052	1	Cotter Pin, 3/16 x 1-1/2"	
11-4	366800	1	Spring Clutch	
11-5	366799	1	Spring Clutch	
11-6	400228	3	Screw, 5/16-24 x 1-1/4" Hex Head	
11-7	3005380	1	Fingers, Clutch	
11-8	132930	1	Clutch Arm Assembly	
11-9	3000914	1	Bolt	
11-10	3004610	1	Spring	
11-11	307456	1	Washer, Cup	
11-12	443112	1	Nut, 1/4-20 Hex	
11-13	2000063	1	Housing, Clutch	
11-14	361854	1	Decal, Caution	
11-15	400112	1	Screw, 1/4-20 x 1" Hex Head	
11-16	443102	1	Nut, 1/4-20 Hex	
11-17	453009	2	Flat Washer, 5/16	
11-18	446130	1	Lockwasher, 1/4 Heavy	
11-19	352726	2	Bushing	
11-20	366742	1	Pin, Brake Band	
11-21	400104	5	Screw, 1/4-20 x 1/2" Hex Head	
11-22	3004616	2	Stud, Clutch	
11-23	1003618	1	Cover, Clutch	
11-24	4124492	1	• Decal, Jacobson	
11-25	444708	3	Nut, 1/4-20 Center Lock	
11-26	444718	2	Nut, Hex Center Lock	
11-27	364441	3	Spacer	
11-28	1003670	1	Engine, 4 HP Honda	
11-29	320774	1	• Key, Square 3/16 x 1-1/2"	Included with item 1
11-30	362764	1	Decal, Caution	
11-31	3001790	1	Decal, Caution	
11-32	4125682	1	Decal, Product	
11-33	450193	4	Bolt, M8 x 40	
11-34	463113	1	Key	
11-35	132898	1	Clutch Body Assembly	
11-36	3008993	1	• Bushing, Pilot	Included with item 35
11-37	410503	1	• Setscrew, 5/16-18 x 7/8"	Included with item 35
11-38	445502	1	• Nut, Pal 5/16-18	Included with item 35
11-39	2501151	1	Disc, Clutch Split	
11-40	2000004	1	Disc, Sliding	
11-41	4127498	1	Clutch Shaft Assembly	
11-42	367365	1	Bearing, Axle	
11-43	366689	1	Washer, Spring	
11-44	348849	AR	Shim	
11-45	3005515	AR	Washer, Spacer .020	
11-46	340830	1	Decal, Spanish	

> Change from previous revision

TOURNAMENT CUT™ 22

12 Handle

Serial No. All



TOURNAMENT CUT™ 22

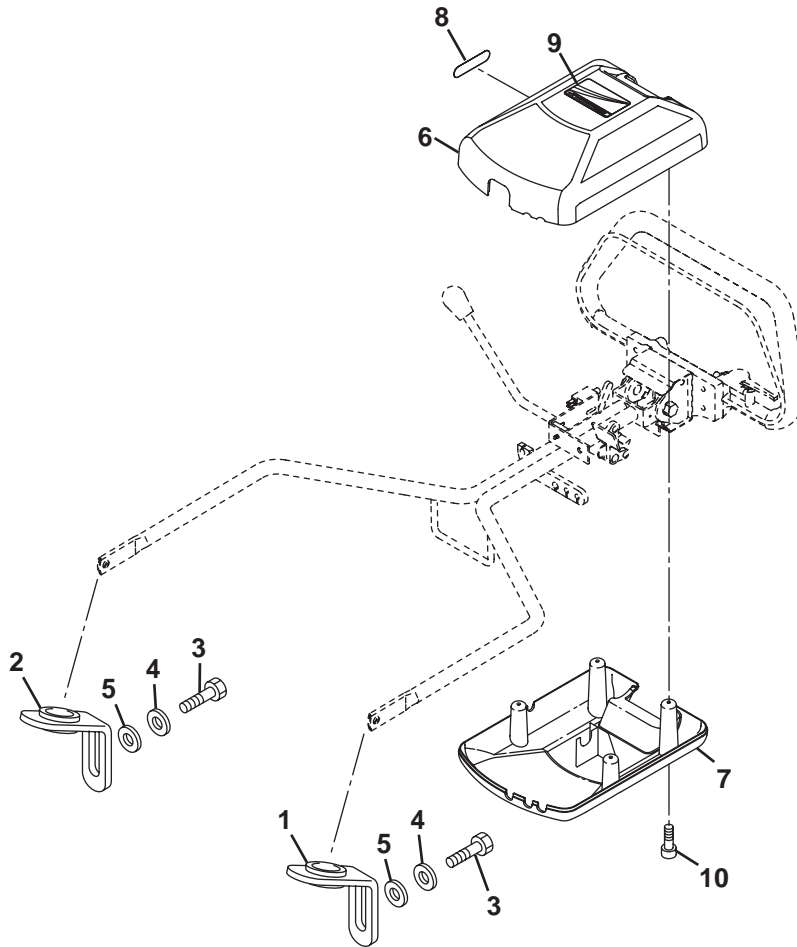
Item	Part No.	Qty.	Description	Serial Numbers/Notes
12-1	366708	2	Flanged Bearing	
12-2	4125847	1	Prawl	
12-3	443110	4	Nut, 3/8-16 Hex	
12-4	400268	2	Screw, 3/8-16 x 1-3/4" Hex Head	
12-5	4127065	1	Lever, Brake	
12-6	446142	2	Lockwasher, 3/8 Heavy	
12-7	4126028	1	Lever, Control	
12-8	4128933	4	Screw, 5/16-18 x 1-3/8" Socket Head	
12-9	4127125	1	Lever, Speed Control	
12-10	4125501	1	Handle, Molded Loop	
12-11	4127340	1	Knob, Control Lever	
12-12	444782	1	Nut, #10-24 Hex Center Lock	
12-13	452002	1	Flatwasher, #10	
12-14	4128974	2	Screw, #10-24 x 1/2" Flat Head	
12-15	4125634	1	Cover, Boot	
12-16	444718	4	Nut, 5/16-18 Hex	
12-17	3006127	1	Swivel, Magnet	
12-18	434028	5	Screw, 1/4-20 x 3/4" Socket Head	
12-19	402120	2	Screw, #10-24 x 5/8" Slotted	
12-20	446116	2	Lockwasher, #10	
12-21	4128854	1	Screw, Socket Head Cap	
12-22	444310	2	Nut, #10-24 Hex	
12-23	4125701	1	Cable, OPC Interlock	
12-24	4125703	1	Cable, Traction Clutch	
12-25	454008	AR	Washer, 1/2 Spring	
12-26	446128	1	Lockwasher, 1/4	
12-27	443102	1	Locknut, 1/4 Center	
12-28	4128732	1	Screw, Shoulder Locking Pellet	
12-29	4128707	1	Screw, 1/4-20 x 5/8" Socket Head	
12-30	453009	2	Flat Washer, 5/16	
12-31	4125560	1	Handle, OPC Interlock	
12-32	4125702	2	Cable, Brake	
12-33	461181	1	Groove Pin, 3/16 x 3/4"	
12-34	4127301	1	Plate, Tilt	
12-35	4127475	1	Spring, Torsion	
12-36	4127476	1	Wire Harness, OPC Interlock	
12-37	4127052	1	• Magnet	
12-38	4127338	1	• Switch, OPC Interlock	
12-39	4127337	1	• Bridge Rectifier	
12-40	4127227	1	Handle	

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13 Handle Mount

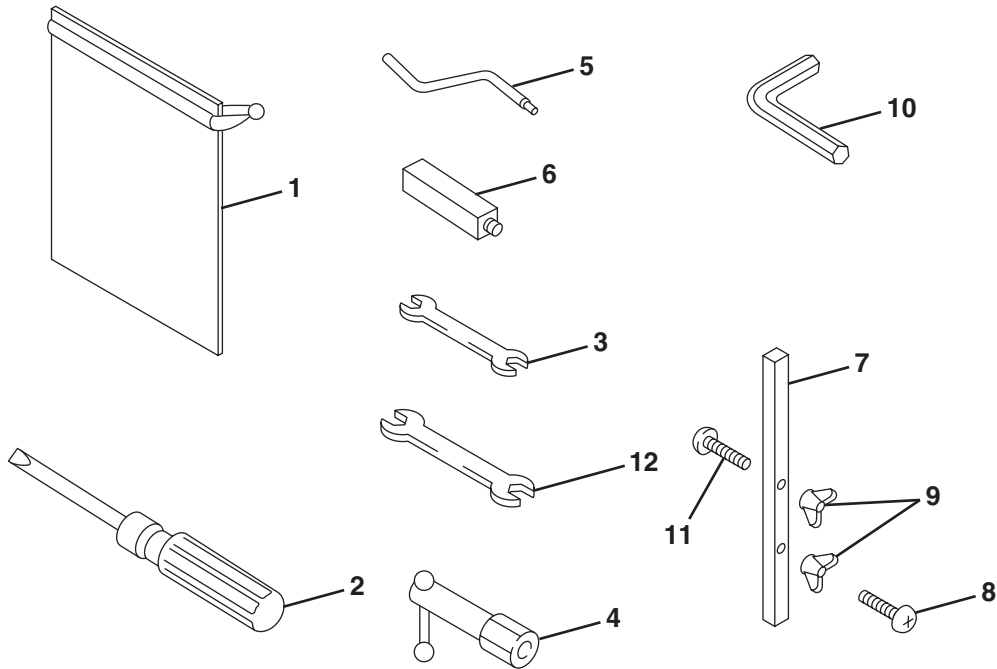
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
13-1	4127848	1	Left-hand Handle Adjuster	
13-2	4127849	1	Right-hand Handle Adjuster	
13-3	4127850	2	M10 Adjustment Bolt 25	
13-4	4127851	2	M10 Conical Spring Washer 1H	
13-5	4127854	2	2.3SPCC Metal Washer 1025	
13-6	4127050	1	Cover, Front Handle	
13-7	4127051	1	Cover, Back Handle	
13-8	4125904	1	Decal, Control Lever	
13-9	4124759	1	Decal, Jacobsen	
13-10	4128662	4	Screw, Socket Head Cap	

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14 Tools



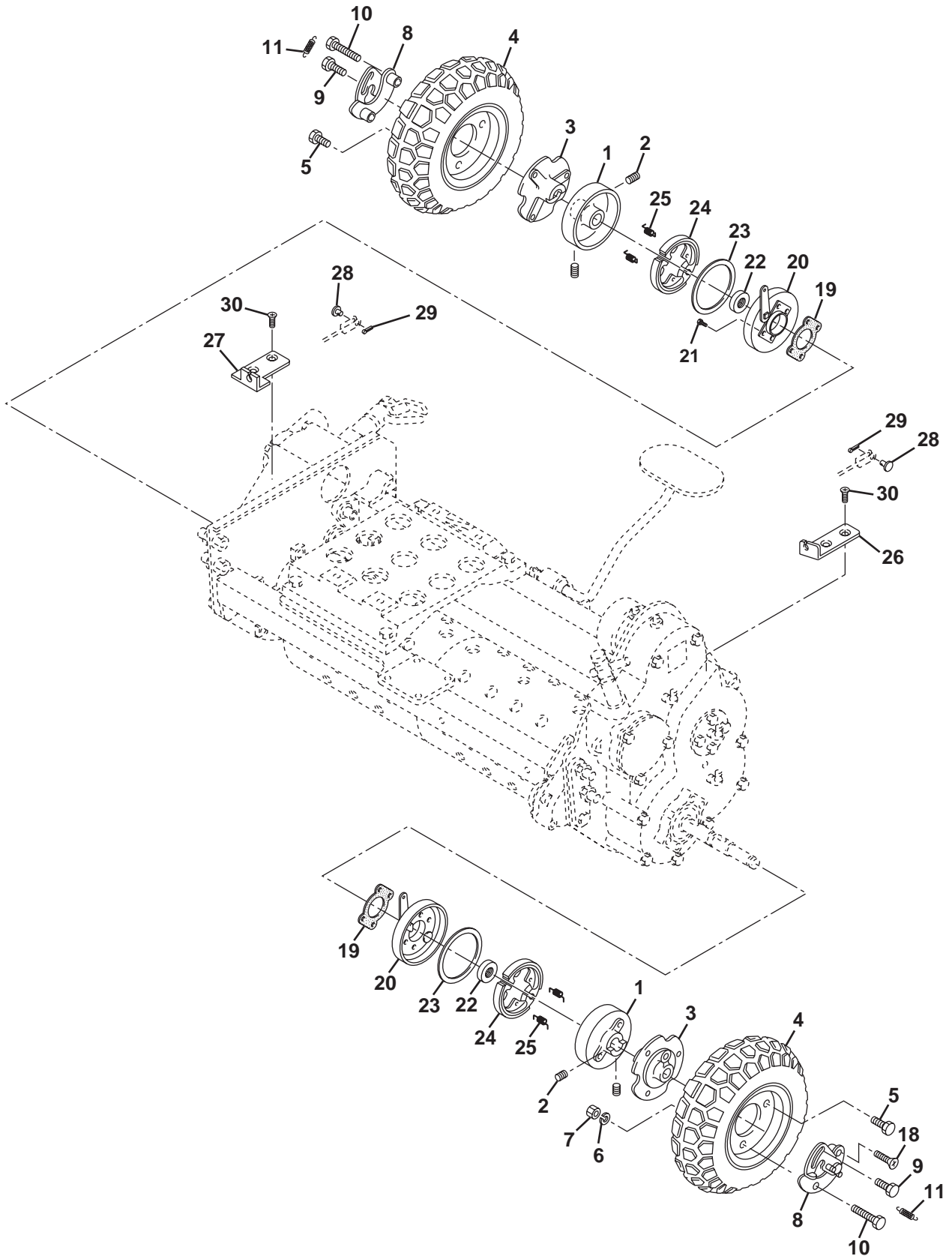
Item	Part No.	Qty.	Description	Serial Numbers/Notes
14-1	4127889	1	Tool Bag	
14-2	4127890	1	Bladed Screwdriver N200	
14-3	4127891	1	Spanner 8x10	
14-4	4127892	1	Box Spanner 7	
14-5	4127893	1	Cylinder Grinding Handle	
14-6	4127894	1	Cylinder Grinding Shaft	
14-7	4127895	1	Cutting Height Gauge 3	
14-8	4127896	1	M6 Cross-pan-head Tap Screw C-1 30	
14-9	4127897	2	M6 Wing Nut	
14-10	4128284	1	Hexagon Spanner 4	
14-11	4127899	1	M6 Cross-pan-head Tap Screw C-1 50	
14-12	4128583	1	Spanner 13x17	

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15 Drum Wheel Parts

Serial No. All



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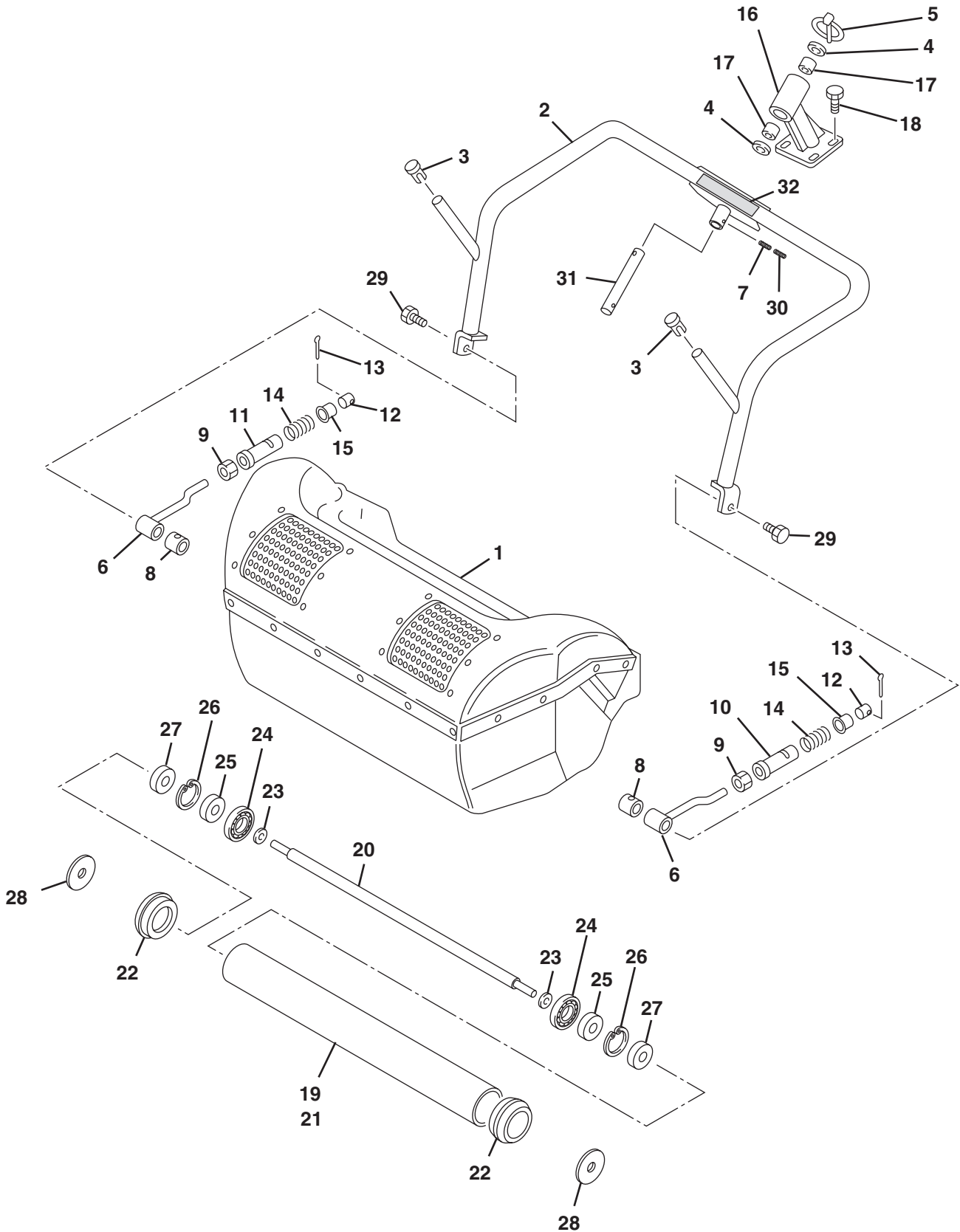
Item	Part No.	Qty.	Description	Serial Numbers/Notes
15-1	4127693	2	Brake Drum	
15-2	4127694	4	M8 Hollow Set Screw 10	
15-3	4127696	2	Wheel Clamping Seat	
15-4	4127697	2	Tyre 4.10/3.50-6 Assembly	
	4127704	2	• Tyre 4.10/3.50-6	
	4127705	2	• Wheel 3SP-6	
	4127706	2	• Wheel 3SP-6 with hole for valve	
	4127707	2	• Tube 4.10/3.50-6	
	4127708	2	• Valve Core NO9000	
	4127709	2	• Valve Cap	
15-5	4127698	6	M8 Bolt 12	
15-6	4127527	6	M8S Washer	
15-7	4127699	6	M8 Nut	
15-8	4127700	2	Wheel Clamping Plate	
15-9	4127701	2	M8 Lock Bolt 10	
15-10	4127702	2	M8 Bolt 40S	
15-11	4127703	2	1.5U Hook Spring 8.5 35.5	
15-12	4127704	2	Tyre 4.10/3.50-6	
15-13	4127705	2	Wheel 3SP-6	
15-14	4127706	2	Wheel 3SP-6 With Hole For Valve	
15-15	4127707	2	Tube 4.10/3.50-6	
15-16	4127708	2	Valve Core No9000	
15-17	4127709	2	Valve Cap	
15-18	4128278	2	M8 Cross-head Countersunk Screw 35	
15-19	4127855	2	Gasket	
15-20	4127856	2	Brake Mounting Plate	
15-21	4127857	8	M6 Bolt 20S	
15-22	4127858	2	Oil Seal PJN20428	
15-23	4127859	2	M1 Felt 96110	
15-24	4127860	2	Brake Shoe 100 Assembly	
15-25	4127861	4	1.6 Hooked Spring 845	
15-26	4127862	1	Left-hand Brake Cable Mount	
15-27	4127863	1	Right-hand Brake Cable Mount	
15-28	4127865	2	M5 Flat-head Pin 12	
15-29	4127866	2	M2 Split Pin 162	
15-30	4127867	4	M6 Cross-head Countersunk Screw 15	

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16 Grass Catcher

Serial No. All



TOURNAMENT CUT™ 22

Item	Part No.	Qty.	Description	Serial Numbers/Notes
16-1	4127868	1	Grass Catcher 54 Comp	
16-2	4127869	1	Grass Catcher Attachment Piece	
16-3	4127870	2	Stopped Cap 12.7	
16-4	4127871	2	1C5191P Metal Washer 1728	
16-5	4127872	1	M6 Clip Pin	
16-6	4127873	2	Mower Attachment Piece Comp	
16-7	4128282	1	M5 Spring Pin 25	
16-8	4127874	2	• M15 Bush With Holes 2029	
16-9	4127623	2	M10 Nut 3P10H1	
16-10	4127875	1	Left-hand Tube	
16-11	4127876	1	Right-hand Tube	
16-12	4127877	2	Set Screw	
16-13	4127878	2	2.5 Split Pin 25	
16-14	4127879	2	M1 Compression Spring 1843	
16-15	4127880	2	Stopper	
16-16	4127881	1	Arm Attachment Hitch	
16-17	4127882	2	M17 Bush 2019	
16-18	4127664	4	M8 Bolt 15SW	
16-19	4127883	1	60 Roller 590 Assembly	Includes 16-20~27
16-20	4127884	1	• Roller Sharft 651	
16-21	4127885	1	• 54.5 Roller Tube 60560A	
16-22	4127886	2	• Roller Housing 60	
16-23	4127567	2	• 1C5191P Metal Washer 1528	
16-24	4127568	2	• Bearing 62022RDC	
16-25	4127569	2	• Oil Seal 6202	
16-26	4127570	2	• Stop Ring R42	
16-27	4127571	2	• Oil Seal TA1542.38	
16-28	4127572	2	1C5191P Metal Washer 1547	
16-29	4127887	2	M10 Bolt 30SW	
16-30	4128283	1	M3.5 Spring Pin 25	
16-31	4128281	1	Arm Shaft	
16-32	4125684	1	Decal, Independent Floating Reel	

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