

Kiscutter



R E N T A L

**OPERATOR'S MANUAL
MAINTENANCE MANUAL
PARTS LIST**

TURFCO[®]

Kiscutter

Sod Cutter

Product Number 85533

Patent Pending

Starting Serial Number Z05550

Manual Number 671271 Rev A



***DANGER* - 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 OR SERVICE THE MACHINE.**

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All specifications, information, illustrations or photos in this manual are based on the latest information at the time of printing. The right is reserved to make changes without notice.

Table of Contents

Product Records 2
Specifications 3
Registered Trade Marks 3
Recognizing Safety Warnings and General Safety Practices 4
Assembly 6
Description
 Intended Use and Function 7
 Description of Engine Controls 7
 Description of Operator Controls 8
 Description of Handlebar In Storage Position 8
Operation
 Moving the KisCutter To The Worksite 9
 Pre-Operation Check List 9
 Worksite Preparation 9
 KisCutter Operating Instructions 10
 Trouble Shooting Tables 11
Operator Daily Inspection 11
Storage 11
Lubrication and Tire Care 12
How To Order Parts and Service 12
Decals 13
Parts Lists 14

Product Records

IMPORTANT: Record the information from the serial number plate of your KisCutter sod cutter. It will be necessary to furnish your Model Number, Product Number, and Serial Number when ordering parts.

Model **KisCutter**

Product Number **85533**

Serial Number _____

Date Purchased _____

Purchased From _____

Specifications



Intended Use: The KisCutter is a self-propelled, walk behind sod cutter. The KisCutter is intended to be used for the cutting of sod at a properly inspected and prepared worksite. A properly inspected worksite is one that has been inspected for safety and any operational related deficiencies. Deficiencies are anything that may cause damage to the machine, anything that may cause injury to the operator, or anything that may cause injury to bystanders. A properly prepared worksite is one that has had any deficiencies completely corrected. The KisCutter is NOT intended to be used for any purpose other than the cutting of sod. The KisCutter is NOT designed for or intended to accept riders.

- Cutting Speed** Up to 45.72 Meters Per Minute (150 Feet Per Minute)
at 2.75 Km/h (1.7 MPH)
- Cutting Rate** Up to 836.13 Square Meters Per Hour (9,000 Square Feet Per Hour)
- Cutting Depth** Two Settings, Normal or Deep
- Cutting Width** 305 mm (12")
- Blades** Standard 12" Heat Treated 4130 Steel, Optional 9"
- Blade Angle** Fixed at 3-1/2° Degrees
- Engine** 4.10 kW (5.5 HP) Honda
- Drive** Clutch Driven V-Belt
- Clutch** Centrifugal Clutch
- Wheels** 10" x 4.5" Inch Pneumatic
- KisCutter Dimensions (Handlebars Stowed):**
 - Width** 58.42 cm (23") Across Handlebar
 - Height** 87.63 cm (34.5") To Top Of Depth Control Lever
 - Length** 83.82 cm (33") From Rear Tire to Frame Front
- KisCutter Dimensions (Handlebars Installed):**
 - Width** 58.42 cm (23") Across Handlebar
 - Height** 109.22 cm (43") To Top Of Throttle Lever
 - Length** 91.44 cm (36") From Frame Front to End of Handlebar
- Maximum Angle Of Operation** 15 Degrees
- Weight** 63.5 Kg (140 lbs.)

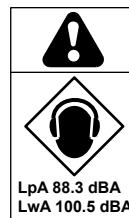
Noise and Vibration Levels

Vibration Level:

Handlebar at Operator Position
 Max. Vibration, Linear = **13.5 m/sec² rms**
 Max. Vibration, Weighted = **4.2 m/sec² rms**

Test Conditions:

Engine Full Throttle, Blade Lowered,
 Blade Operating, Traction Engaged,
 Unit Moving.



Noise Emission Level:

Operator Position
 Sound Pressure (LpA) = **88.3 dBA**
 Sound Pressure Level (LwA) = **100.5 dBA**

Test Conditions:

Engine Full Throttle, Blade Lowered,
 Blade Operating, Traction Engaged,
 Unit Moving

Patents and Registered Trade Marks

TURFCO® is a registered trademark of Turfco Manufacturing, Inc.
 Patent Pending



**The Engine Exhaust From This Product Contains Chemicals Known to the State of California to Cause Cancer, Birth Defects or Other Reproductive Harm.
 ONLY OPERATE ENGINE IN AREAS WITH ADEQUATE VENTILATION.
 DO NOT OPERATE ENGINE IN ENCLOSED AREAS.**

Recognizing Safety Warnings Used In Manual LOOK FOR THE SAFETY HAZARD WARNING SYMBOL



The symbol is used to alert the operator of safety hazards.
It is used in conjunction with the words DANGER, WARNING, and CAUTION.



“DANGER” identifies immediate hazards which will result in serious injury or death.

“WARNING” identifies potential hazards which could result in serious injury or death.

“CAUTION” identifies hazardous situations which may result in minor injury and/or could result in damage or destruction of equipment.

General Safety Practices

Safety on the job should always be a top priority. Training and experience are important factors in the safe operation of equipment. Please consider the following information and realize that safe operation is a matter of using common sense as it relates to the machine, its maintenance, the operator, the training, and the operating conditions. These are general safety instructions that apply to most turf maintenance equipment.

This list includes many general safety instructions as they relate to turf equipment. This list does not encompass all hazards. Common sense must always be used to determine the safest way to operate a machine under specific conditions.

TRAINING:

- Always read the manual before operating a machine for the first time.
- Always read the warning decals before operating a machine for the first time.
- Always check the location and use of each control before operating a machine for the first time.
- Practice operating the machine in a safe area with no obstructions until becoming familiar with the controls.
- If you have questions, ask your supervisor or call the factory.

CLOTHING:

- Clothes should be snug fit. Loose fitting clothing is hazardous because it may get caught in the mechanism during service or operation.
- Remove jewelry before operation. Jewelry may get caught in the mechanism.
- Wear shoes that will protect your feet. Sneakers do not protect and do not provide the protection of leather

shoes or boots. Steel toed safety shoes should be considered for many situations.

- **Hard Hat:** The use of a hard hat should be considered when using equipment on a golf course. The danger of being hit by a golf ball should be a major concern as well as protection while operating under trees.
- **Eye Protection:** Safety glasses and/or face shields should be considered when operating, as well as working in close proximity to high speed rotary equipment. Watch for rotary mowers, edgers, brush and string trimmers. Rotary mowers can throw debris at speeds up to 200 mph (320 Km/h).
- **Hearing:** If the noise level of the equipment is too loud, consider the use of ear protection.
- Do not use stereo headsets during operation. This is a distraction that may lead to an accident. Headsets also make it difficult to hear other people and equipment while operating the machine.
- **Respirators:** When operating in dusty, windy conditions, wear a respirator. This is also an important consideration if operating equipment while spraying chemicals and fertilizers.
- **Gloves:** Use gloves when handling sharp or hazardous objects.

THE OPERATOR:

- The operator should never use a machine while under the influence of alcohol or drugs.
- The operator should be aware of the hazards of working in the sun and should take proper precautions to avoid heat stress and dehydration. Use sun screen products when necessary.
- The operator should never attempt to ride a machine that is not designed for that purpose. Do not allow others to ride a machine that is not designed for passengers. If designed to carry passengers, do not allow more passengers to ride a machine than the machine was designed to carry.
- Do not operate any equipment at unsafe speeds.

Speeds should be reduced when turning or operating on slopes. The operator must use common sense to determine a safe speed based on the equipment, the load, the slope, the surface, and other conditions that may affect safe operation.

- The operator must be aware of the conditions around the area. Be aware of other people and machines.
- Beware of slippery conditions. Wet turf can be encountered on slopes, when turning or stopping, or at higher speeds.
- Keep hands and feet away from cutting devices and drive components. Shut off the engine and remove the key or ignition wire when servicing cutting devices or drive components.
- If required to lift, an operator should ask for help if the object is too heavy. The operator should lift with his or her legs instead of the back. Care should be taken to avoid twisting the back while lifting a heavy load.
- Never allow children to operate the machine.

THE MACHINE:

- Do not overload machinery. The components are designed for certain weights and capacities. Overloading the machine will cause unsafe conditions.
- Check to assure that all controls are in good operating condition.
- Inspect to insure that all guards are in place. Do not operate a machine without all guards in place.
- Always check the machine to make sure it is in good working order. Do not place hands or feet near moving or rotating parts.
- Shut off the engine before servicing the machine. It is best to check machines on a level area. Machines on a slope may roll when the engine is off.
- Do not modify the machine in any manner. Refer unfamiliar repairs and adjustments to mechanics that have been trained to do them properly.
- Replace decals that are damaged or unreadable.

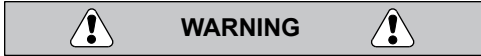
THE ENGINE:

- Prevent accidental starting by removing the spark plug wire when servicing the engine or the equipment. Disconnect the negative wire from the battery terminal if the engine is equipped with an electric starting system.
- Do not strike the flywheel with a hammer or any hard object. This may cause the flywheel to shatter in operation.
- Pull the starter cord slowly until resistance is felt. Then pull the cord rapidly to avoid kickback and to prevent hand or arm injury.
- Do not run the engine in an enclosed area. The exhaust gases contain carbon monoxide, an odorless and

deadly poison. The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

- Do not store, spill, or use gasoline near an open flame, nor near an appliance like a stove, furnace, or water heater that uses a pilot light or can create a spark.
- Do not refuel indoors or in an unventilated area. Check the fuel level. Do not over fill. Do not add fuel while the machine is hot because spilled fuel may cause a fire. Allow the engine to cool before refueling.
- Do not transport the machine with fuel in the tank.
- Do not remove the fuel tank cap or fill the fuel tank while the engine is hot or running.
- Do not operate the engine if gasoline is spilled, when the smell of gasoline is present, or when other explosive conditions exist. Move the equipment away from the spill and avoid any ignition until the gasoline has evaporated.
- Do not choke the carburetor to stop the engine. Whenever possible, gradually reduce the engine speed before stopping.
- Do not tamper with the governor springs, links or other parts to increase the engine speed. Run the engine at the speed set by the equipment manufacturer.
- Do not check for a spark with the spark plug removed. Use an approved tester. Use the correct tools to service the machine.
- Do not crank the engine with the spark plug removed. If the engine is flooded, place the throttle in fast and crank until the engine starts. Avoid damage to electric starter by cranking intermittently until engine starts.
- Do not operate the machine without a muffler. Inspect the muffler periodically and replace it if it is leaking or worn. Replace it with correct muffler. Do not touch a hot muffler, cylinder, or cooling fin.
- Do not operate the engine with an accumulation of grass, leaves, or other combustible material in the muffler area.
- Keep the cylinder cooling fins and the governor parts free of dirt, grass, and other debris.
- Do not use the engine on any forest covered, brush covered, or grass covered unimproved land unless a spark arrester is installed in the muffler. In the State of California, a spark arrester is required by law. Other states may have similar laws. Federal laws apply on federal lands.
- Do not start the engine with the air cleaner or the air cleaner cover removed.
- Use fresh gasoline. Stale fuel can gum the carburetor and can cause leakage. Check the fuel lines and fittings frequently for cracks and leaks.

Assembly
(See Figure 1 and Figure 2)



TO AVOID ACCIDENTAL ENGINE STARTING AND SERIOUS INJURY, Remove the Wire from the Engine Spark Plug.

Read and Follow All Safety Decals and Warnings. Wear The Appropriate Personal Safety Gear.

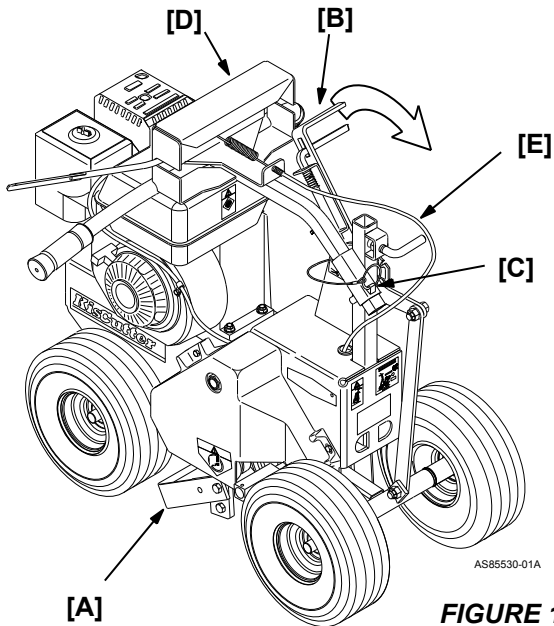


FIGURE 1

control should move easily without excessive force or binding. Throttle must return to a raised position when released. If throttle movement problems are noted, check for sharp curves in the cable, interference with other parts of the sod cutter, cable damage, or damaged throttle return spring (located on the engine, at the end of the cable).

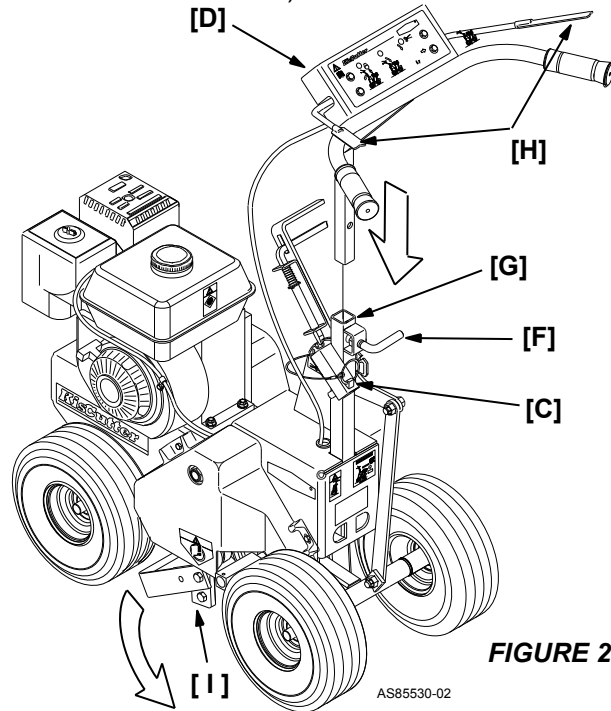


FIGURE 2

Step 1. Remove the KisCutter from the shipping container. **Caution - SHARP BLADE!!** Use caution when handling near the cutting blade assembly [A] (See Figure 1).

Step 2. Pull the Blade Depth Control Handle [B] back to the very first notch (See Figure 1).

Step 3. Pull the handlebar lynch pin [C] and remove the handlebar assembly [D] from the storage position. Take care not to twist, pinch or kink the throttle cable [E] (See Figure 1).

Step 4. Loosen the handlebar lock [F] (See Figure 2).

Step 5. Insert the handlebar assembly in the handlebar mounting tube [G] in the KisCutter frame. *Throttle cable should be on the left side of the handlebar* (See Figure 2).

Step 6. Lock the handlebar to the frame by firmly tightening the handlebar lock [F]. Replace the lynch pin [C] into the to the storage position tube (See Figure 2).

Step 7. Check movement of the throttle control [H]. **DO NOT START ENGINE.** (See Figure 2). Throttle

Step 7. Remove the hardware [I] from the lower blade mounting point. Rotate the blade [A] into position and replace the hardware. Tighten securely.

Step 8. Check air pressure in the tires. If needed, inflate to the pressure shown on the tire. Tires are equipped with a sealant. *Wear eye protection when checking tires.* Check only when the valve stem is at the top of the wheel. Inflate the tires to the pressure as shown on the tire sidewall.



DO NOT START ENGINE!! Engine May Have Been Shipped From The Factory Without Oil In The Crankcase.

Step 9. Check the oil level in the engine crankcase. If needed, lubricate the engine in accordance with the engine manufacturer's instructions. Fill the engine crankcase with the recommended oil for the expected temperature range.

Step 10. Fill the fuel tank only 3/4 full to avoid spillage during handling and operation.

Description



TO AVOID SERIOUS INJURY, Read and Understand the Entire Operator's Manual Before Operating This Machine.

INTENDED USE AND FUNCTION

The KisCutter is a self-propelled, walk behind sod cutter. The KisCutter is intended to be used for the cutting of sod at a properly inspected and prepared worksite. A properly inspected worksite is one that has been inspected for safety and any operational related deficiencies. Deficiencies are anything that may cause damage to the machine, anything that may cause injury to the operator, or anything that may cause injury to bystanders. A properly prepared worksite is one that has had any deficiencies completely corrected. The KisCutter

is NOT intended to be used for any purpose other than the cutting of sod. The KisCutter is NOT designed for or intended to accept riders.

DESCRIPTION OF ENGINE CONTROLS

The engine controls (See Figure 3) are located on the engine and the handlebar. The engine is equipped with a On/Off switch, a fuel shutoff switch, and choke. The engine throttle/clutch control is located on the handlebar at the operators position.

Ensure that all engine controls are in good operating condition. Do not alter engine controls and/or operate the KisCutter with defective or non-operational engine controls.

LOCATION OF MAJOR COMPONENTS (See Figure 3)

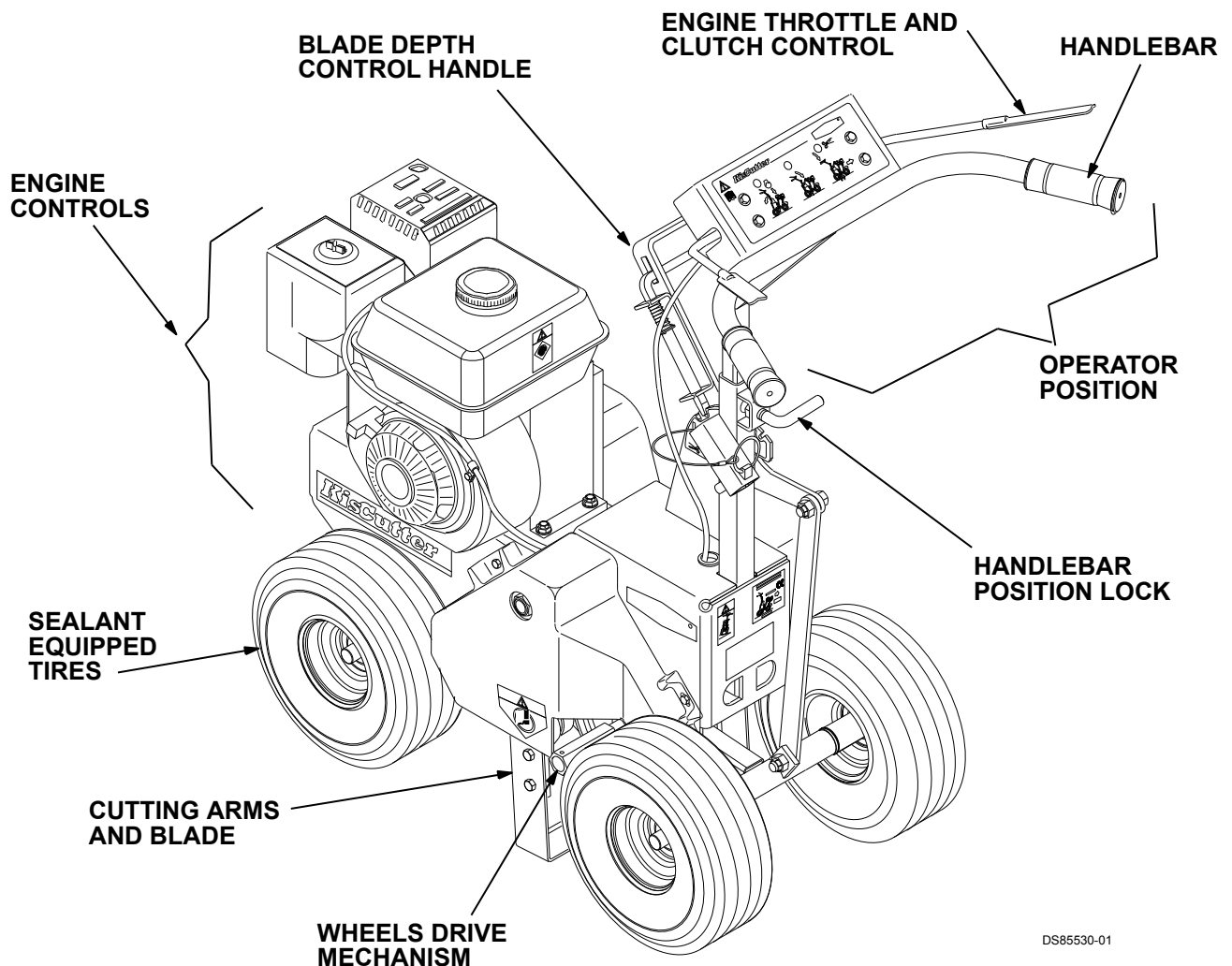


FIGURE 3

DS85530-01

DESCRIPTION OF OPERATOR CONTROLS

The operator controls (See Figure 3) are the Blade Depth Control Handle and the Engine Throttle/Clutch Control.

Always ensure that all operator controls are in good operating condition. Do not alter operator controls and/or operate the KisCutter with defective or non-operational operator controls.



TO AVOID SERIOUS INJURY, Move To The Operator’s Position Behind The Handlebar Before Engaging Any Operator Control.

Blade Depth Control Handle: This control is located at the rear of the machine, at the base of the handlebar. The Blade Depth Control Handle locks into one “Transport - Blade Up” position notch and two “Cutting Depth” positions.

To Ease Movement of the Blade Depth Control Handle, Apply Light Pressure Down on the Handlebar While Unlocking or Moving the Handle.



TO AVOID INJURY AND TO AVOID DAMAGE TO THE KISCUTTER, Releasing The Throttle To Disengage the Engine Clutch Before Moving The Blade Depth Control Handle.

The “Transport” position is when the Blade Depth Control Handle is pulled back and locked into the notch closest to the operator. When in the transport position, the blade is lifted out of the ground and the wheel drive mechanism is not in contact with the tire. Transport position is the setting the depth control handle should be in during engine starting or during transport to the worksite.

The “Cutting Depth” positions are when the Blade Depth Control Handle is set and locked into one of the two notches farthest to the operator. When in the cutting depth positions, the blade is lowered into the turf and the wheel drive mechanism contacts the rear tires. Depth settings are referred to as “Normal” and “Deep”.



TO AVOID DAMAGE TO THE KISCUTTER, DO NOT Operate The With The Blade Depth Control Handle Unlocked Or With the Blade Out Of the Ground.

During the sod cutting process, always lock the depth control into one of the two notches. If the KisCutter is operated with the depth control unlocked, damage will occur to the cutting arms and the wheel drive mechanism.

The depth control should not be moved past either the first or last notch.

Engine Throttle/Clutch Control: The throttle is located on the handlebar, at the operator’s right hand. The engine is equipped with a centrifugal clutch that automatically engages when the engine speed is increased (at approximately 1800 to 2000 RPM). During operation, slowly push down on the throttle to allow the clutch to engage and to allow the blade to dig into the turf. When cutting sod, operate the engine at full throttle. Decrease throttle speed when operating in an area of close obstacles. Adjusting throttle speed can correct some operating problems associated with poor wheel traction or excess vibration.

Forward ground speed is controlled by the engine speed.

DESCRIPTION OF HANDLEBAR IN STORAGE POSITION (See Figure 4)

The handlebar can be relocated in a storage position. Figure 4 shows the handlebar in this position. The handlebar has been unlocked, removed from the normal operating position, turned and reinstalled into a storage pocket on the handlebar strut. When in this position, the handlebar should not be used as a lifting point. Reinstall the handlebar in the normal operating position before attempting to lift the KisCutter.

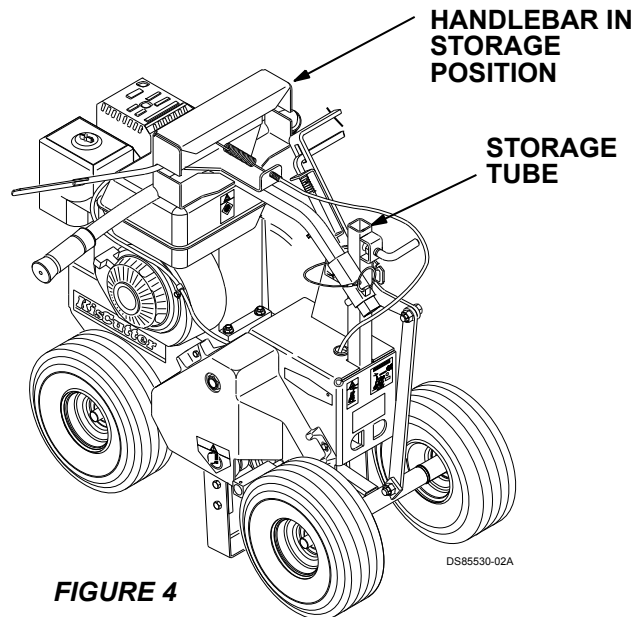


FIGURE 4



TO AVOID INJURY AND TO AVOID DAMAGE TO THE KISCUTTER, Do Not Start the Engine Or Attempt To Operate the KisCutter When the Handlebar Is In the Storage Position.

Operation



WARNING



**TO AVOID SERIOUS INJURY,
Follow All Safety Precautions And Wear the
Appropriate Personal Safety Gear.
Hearing Protection, Eye Protection, Gloves and
Safety Shoes are Strongly Recommended.
Read and Understand the Entire Operator's Manual
Before Operating This Machine.**

MOVING THE SOD CUTTER TO THE WORKSITE

When moving the sod cutter in a vehicle or on a trailer, the machine must be securely tied down. Relying solely on the sod cutter's drive train to prevent movement of the sod cutter may cause damage to the blade, cutting arms and the wheel drive mechanism. Use wheel chocks and chains to secure the sod cutter to the truck or trailer.



CAUTION



**When Being Moved By Vehicle Or Trailer,
Securely Tie Down The Sod Cutter To Avoid
Damage To The KisCutter Blade, Cutting Arms, and
Wheel Drive Mechanism.**

Do not tip the KisCutter on its nose during transportation, operation, service or cleaning. If tipped on its nose, engine oil from the crankcase will enter the piston cylinder and foul the spark plug.

PRE-OPERATION CHECK LIST

Safety First – Wear the appropriate personal safety gear. Hearing protection, gloves, safety shoes and eye protection are strongly recommended when operating the KisCutter.

Check – The oil level in the engine crankcase. If necessary, fill the engine crankcase in accordance with the engine manufacturer's instructions.

Check – The gasoline level in the fuel tank. Use fresh gasoline of a type and grade recommended by the engine manufacturer. To avoid gasoline spillage, fill the tank only 3/4 full.

Check – The air pressure in the tires. Tires are equipped with a sealant. Always wear eye protection when checking tires. Check only when the valve stem is at the top of the wheel. Inflate to the pressure indicated on the tires. Do Not Over Inflate the Tires.

Grease – The fittings in the wheels. Grease the wheels after every 8 hours of operation.

Check – Blade for loose screws. Sharpen blade if needed.

Check – Handlebar lock is tight enough to secure the handlebar into position.

Inspect – The sod cutter for damaged or non-operational parts. Check the operation of the engine throttle/clutch control handle. The throttle lever should move freely without binding or rubbing.

Check – Retighten any loose nuts and screws to ensure safe operation.

Check – All guards are in place.

Check – The work site for above and below ground obstructions and/or dangerous areas.

Clear - The work site of bystanders, especially children. Keep others well away from the sod cutting operation.

WORK SITE PREPARATION

Inspect the worksite for safety and any operational related deficiencies. Deficiencies are anything that may cause damage to the machine, cause injury to the operator, or cause injury to bystanders. Prepare the worksite by correcting any deficiencies found during the inspection.

The KisCutter blade operates under the ground at depths up to 38 mm (1-1/2"). Under certain conditions, the blade can exceed the 38 mm (1-1/2") depth. Damage will occur to the blade and to any buried object that the blade may come in contact with. Plan your path. Know and mark the location of any objects below ground, as well as above ground, that could be damaged by the sod cutting process:

Locate and mark all shallow buried electric service, cable TV, telephone, outdoor lighting, and any other buried cable that may be damaged by the sod cutting process.

Locate and mark all irrigation heads, above and below ground irrigation control boxes, and any shallow buried irrigation lines that may be damaged by the sod cutting process.

Locate and mark any shallow buried natural gas, propane gas, or other gas or fuel line that may be damaged by the sod cutting process.

Locate and mark any shallow buried roof drain pipes, drain tiling, drain catch basins, or any other buried drainage items that may be damaged in the sod cutting process.

Locate and mark any shallow buried sewer pipes, drain field tiling pipes, sewer collector boxes, sewer access covers, sewer vent pipes, or any other buried sewer items that may be damaged in the sod cutting process.

KISCUTTER OPERATING INSTRUCTIONS



**TO AVOID SERIOUS INJURY,
Do Not Operate the KisCutter On Steep Slopes.
MAXIMUM SLOPE ANGLE IS 15° DEGREES.
The KisCutter Can Tip, Roll Over, Or Roll Back Onto
Operator.**

Do not operate the KisCutter on steep slopes. Serious injury can occur if the operator slips and gets feet or hands caught in the cutting arms or the blade. If operated on a steep slope or when operated in an unsafe manner, the KisCutter can tip, roll over, or roll back on to the operator or bystanders. When on a slope of 15° degrees or less, never operate straight up or down the slope, operate moving back and forth across the slope.

Note: Some models of Honda engines are equipped with an “Oil Alert System” that detects insufficient oil levels in the engine crankcase. If the KisCutter is operated on a slope, the “Oil Alert System” may cause the engine to shut down.

Do not tip the KisCutter on its nose during transportation, operation, service or cleaning. If tipped on its nose, engine oil from the crankcase will enter the piston cylinder and foul the spark plug.

Move the KisCutter to the turf before lowering the blade and cutting arms. To prevent damage to the blade, cutting arms and bearings, do not operate the KisCutter across rock covered areas or over obstacles. Do not move from turf to pavement with the cutting arms and blade down. Do not operate the KisCutter when the grass is wet or when it is raining. Wet turf can be very slippery.

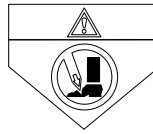
To Start Engine:

- Set and Lock Blade Depth Control Handle Into the “Transport” Position Notch (notch closest to the handlebar/operator position).
- Place Fuel Shutoff in ON Position.
- Place Engine ON/OFF Switch in ON Position.
- Set Choke and Throttle As Needed.
- Pull Starter Rope To Start Engine.
- Release Throttle and Allow Engine To Warm Up At Idle Speed.

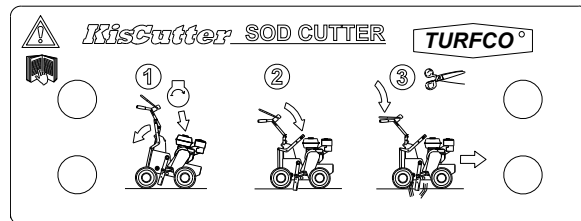
To Stop Engine:

- Release Throttle and Allow Engine to Return to Idle Speed.
- Set and Lock Blade Depth Control Handle Into the “Transport” Position Notch (Notch closest to the operator).

- Place Engine ON/OFF Switch to OFF Position.
Do Not Use The Choke To Stop The Engine!!
- Place Engine Fuel Shutoff To OFF Position.



**TO AVOID SERIOUS INJURY,
Do Not Operate Without Guards In
Place. Keep Hands and Feet Away
From the Blade and Cutting Arms.
Move To Operators Position Behind
the Handlebar Before Engaging Any
Control.**



To Start Sod Cutting Operations:

- ① Start Engine.
- ② Move Blade Depth Control Handle Into One Of the Two Cutting Depth Notches. Handle Must Lock In One Of the Notches. To Ease Movement of the Handle, Apply Light Pressure Down on the Handlebar While Unlocking or Moving.
- ③ Increase Throttle Speed and Cut Sod - Follow Planned Path. **TIP:** Apply downward pressure on the handlebars during operation to increase wheel traction and assist in forward movement.

Avoid Allowing Side Of Blade To Rub Against Sidewalks Or Driveways. Avoid Excessive Side Pressure Against Blade And Cutting Arms.

Stop If Machine Experiences Excess Vibration.

To Stop Sod Cutting Operations:

- Slowly Tip KisCutter Forward. Allow Blade To Come Out Of the Sod.
- Release Throttle and Allow Engine To Return To Idle Speed.
- Set and Lock Blade Depth Adjustment Handle Into the “Transport” Position Notch (notch closest to the handlebar/operator position).
- Stop Engine By Placing Engine ON/OFF Switch to OFF Position. **Do Not Use The Choke To Stop The Engine!!**

Trouble Shooting Tables

PROBLEM	POSSIBLE CAUSE
Excessive Vibration or Noise	Forward Speed/Engine Speed Too Fast.
	Worn Cutting Arm Bearings.
	Worn or Damaged Cutting Arm.
	Dull or Loose Blade.
	Bent or Broken Blade.
	Cutting Too Deep For Soil Conditions.
	Slipping V-Belt At Clutch.
Engine Guard Loose. Guard Rubbing on Tire or Rotating Parts.	
Poor Sod Cutting Results	Cutting Too Deep For Soil Conditions.
	Dull or Loose Blade.
	Bent or Broken Blade.
	Forward Speed/Engine Speed Too Fast.
	Flat Tire or Low Tire Pressure Low On One or More Tires. Refer to Tire Care Section In This Manual.
	Loose or Slipping V-Belt.
	Buildup of Dirt or Grass Roots on Blade.
	Blade Depth Handle Not Locked Into a Notch.
Traction Problems	Worn Tire Tread or Tire Tread Clogged With Dirt.
	Cutting Too Deep For Soil Conditions.
	Cutting On Too Steep Of A Slope.
	Insufficient Pressure Exerted Down On Handlebar By Operator During Cutting Operation.
	Flat Tire or Low Tire Pressure Low On One or More Tires. Refer to Tire Care Section in This Manual.
	Loose or Slipping V-Belt.
Clutch Control Inoperative	Engine Speed Too Slow To Engage Clutch.
	Engine Throttle Cable Broken or Loose At Carburetor.
	Broken or Worn V-Belt.
	Worn or Damaged Clutch.

Operator Daily Inspection



TO AVOID SERIOUS INJURY, Never Perform Any Inspection With the KisCutter Engine Running. Wear the appropriate safety gear when inspecting the KisCutter.

Before each use, check the following items. Refer any repairs to service personnel.

- Inspect fuel levels. Do not fill fuel tank over 3/4 full.
- Check for proper lubrication of the entire machine.
- Check for proper oil levels in the engine.
- Check for proper air pressure in tires. Tires must be checked with the valve stem at the top of the wheel. **WEAR EYE PROTECTION.**
- Check condition and sharpness of blade.
- Inspect all controls for proper operation.
- Inspect the entire machine for loose fasteners.
- Inspect for damaged, inoperable, or missing guards and components. Do not operate any machine with missing, inoperable, or damaged guards and components.
- Check for a buildup of dirt or debris on the machine. Clean machine before use. Do not high pressure wash. Do not tip the machine on its nose during cleaning, inspection or service.

Storage

To store the KisCutter over an extended period, clean all surfaces and remove any remaining dirt or debris from the machine and the cutting blade. Do not power wash around the bearings. High pressure wash will force water into the bearings and will remove the needed lubricating grease. Apply a film of light machine oil to the blade to control rust. See the lubrication directions and follow the procedures for lubrication of components and grease fittings. Prepare engine in accordance with engine manufacturer's directions. Place the handlebar in the storage position and secure. Place blade depth control handle in the "Transport" position. Do not store with the wheel drive mechanism touching the tires.

Before returning the KisCutter to service after extended storage, carefully inspect the entire machine for loose hardware and components. Tighten and adjust as required. Inspect for any damage that may have occurred during storage. Perform a complete lubrication procedure to the wheel hubs and the engine. Fill engine fuel tank 3/4 full with the proper grade of fresh fuel.

Lubrication and Tire Care

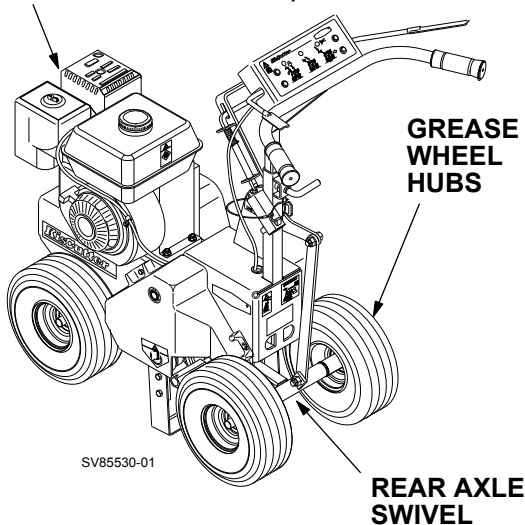
**WARNING**

**TO AVOID SERIOUS INJURY,
Do Not Lubricate the KisCutter
With the Engine Running.**

**All of the Following Lubrication Procedures Involve
or Are Near Rotating Parts and Moving Parts.**

**Always Follow All Safety Precautions and Wear the
Appropriate Safety Gear. WEAR EYE PROTECTION.**

**ENGINE CRANKCASE OIL LEVEL
(REFER TO ENGINE MANUAL)**



GREASE FITTINGS: After Every 8 Hours of Operation -

- Wheel Hubs (4)
- Rear Axel Swivel (1 - under machine)

Periodically clean the entire machine of dirt, grease and grass build-up and lubricate all pivot points with light oil. *Do not over oil, excess oil will attract and collect dust and dirt.*

ENGINE:

CHECK OIL LEVELS DAILY: Follow the engine manufacturer's manual for intervals of oil change, proper oil types, and fill levels for the engine and the engine gear reducer unit.

TIRE AIR PRESSURE: Check air pressure in tires before and after each use.

Tires are equipped with a sealant. To avoid leakage of sealant, check pressure or correct pressure only when the valve stem is at the top of the wheel. **WEAR EYE PROTECTION.**

TIRE ROTATION: The rear drive wheels and tires can be rotated with the front tires to extend both the life of the tire and the bearings in the wheel hubs.

How To Obtain Parts and Service

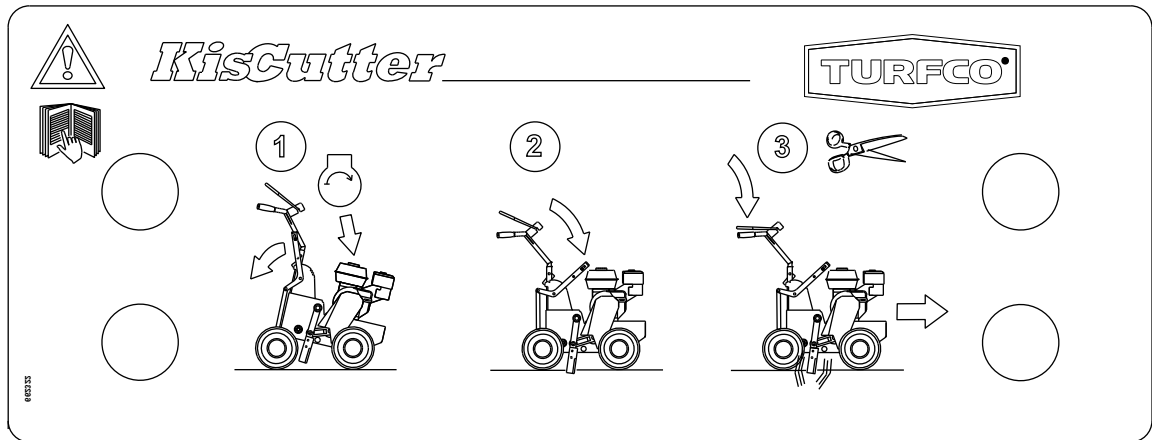
To order parts, or to arrange repair service, contact the nearest authorized TURFCO dealer. For a list of authorized TURFCO dealers in your area, or for additional information regarding the KisCutter, direct inquiries to:

TURFCO Mfg. Inc.
1655 101st. Avenue North East
Minneapolis, MN. 55449-4420 USA
Telephone: (763) 785-1000
FAX: (763) 785-0556
E-Mail: service@turfco.com
Internet: www.turfco.com

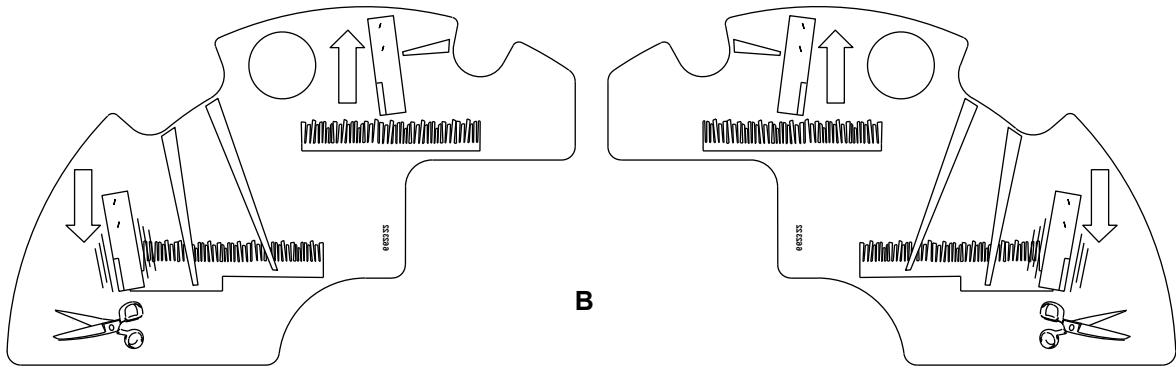
To ensure safety and proper operation, always purchase genuine TURFCO replacement parts from an authorized TURFCO dealer. Replacement parts from other sources may damage the KisCutter and/or create a safety hazard. Always refer repairs to properly trained service personnel.

DO NOT ALTER the KisCutter in any manner. Unauthorized alterations may affect its operation, performance, and may result in injury or death to the operator as well as other individuals in the work area.

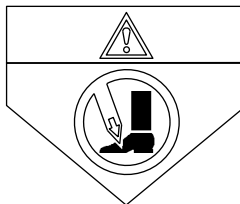
Decals



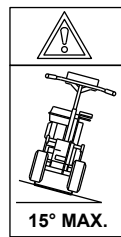
A



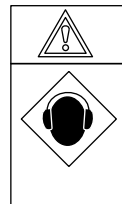
B



C



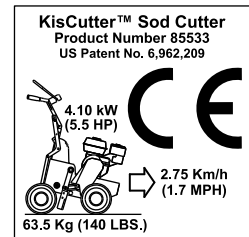
D



E

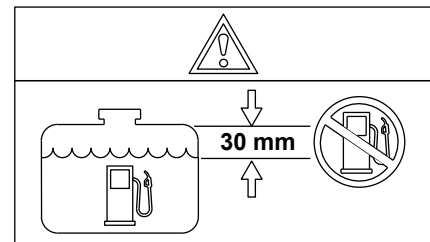


F



G

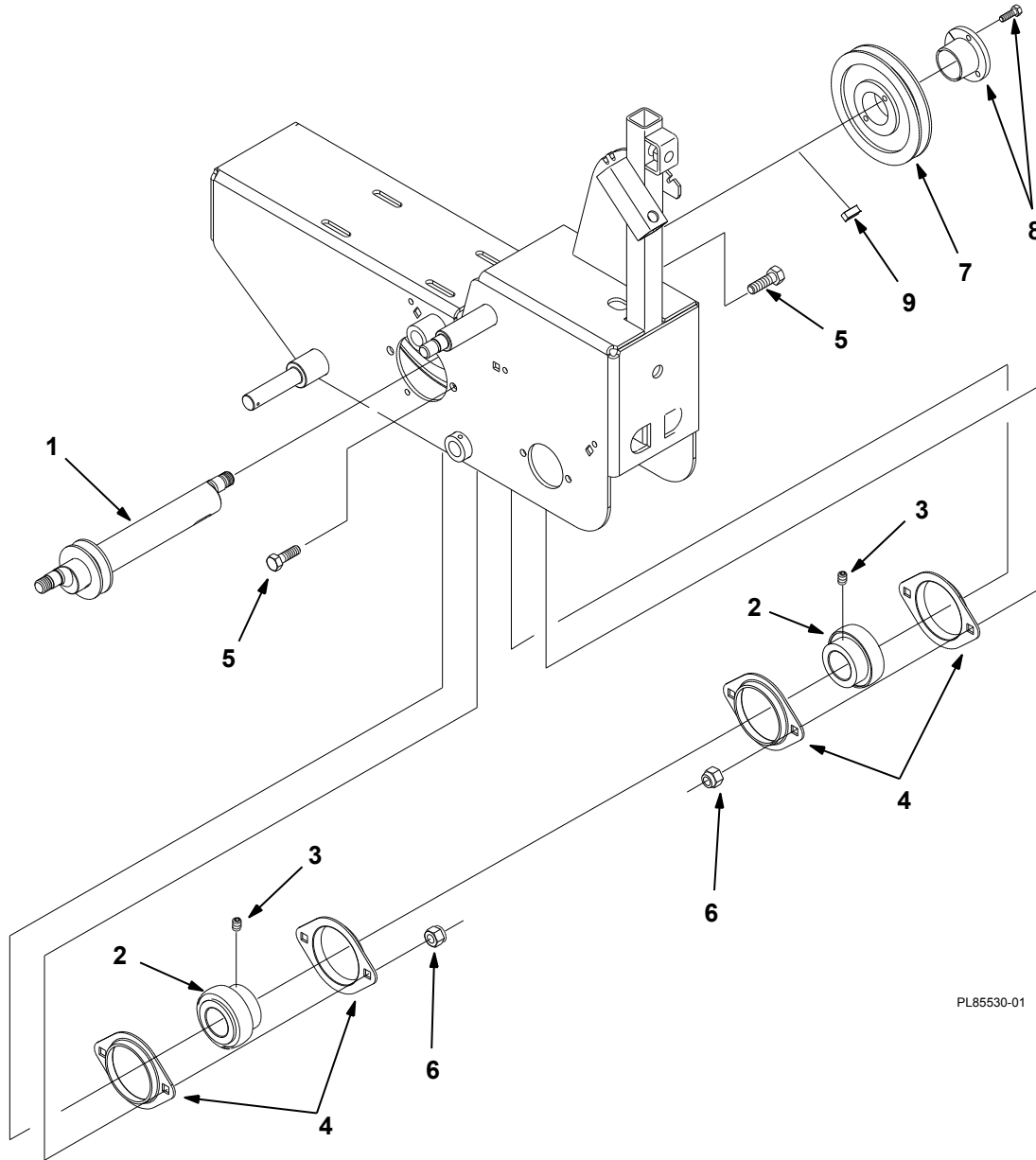
- A DASHBOARD**
- B DEPTH ADJUSTER, RIGHT AND LEFT HAND**
- C FOOT HAZARD WARNING**
- D MAXIMUM ANGLE OF OPERATION WARNING**
- E EAR PROTECTION WARNING**
- F HAND HAZARD WARNING**
- G PRODUCT IDENTIFICATION**
- H FUEL LEVEL WARNING**



H

OP85533-02

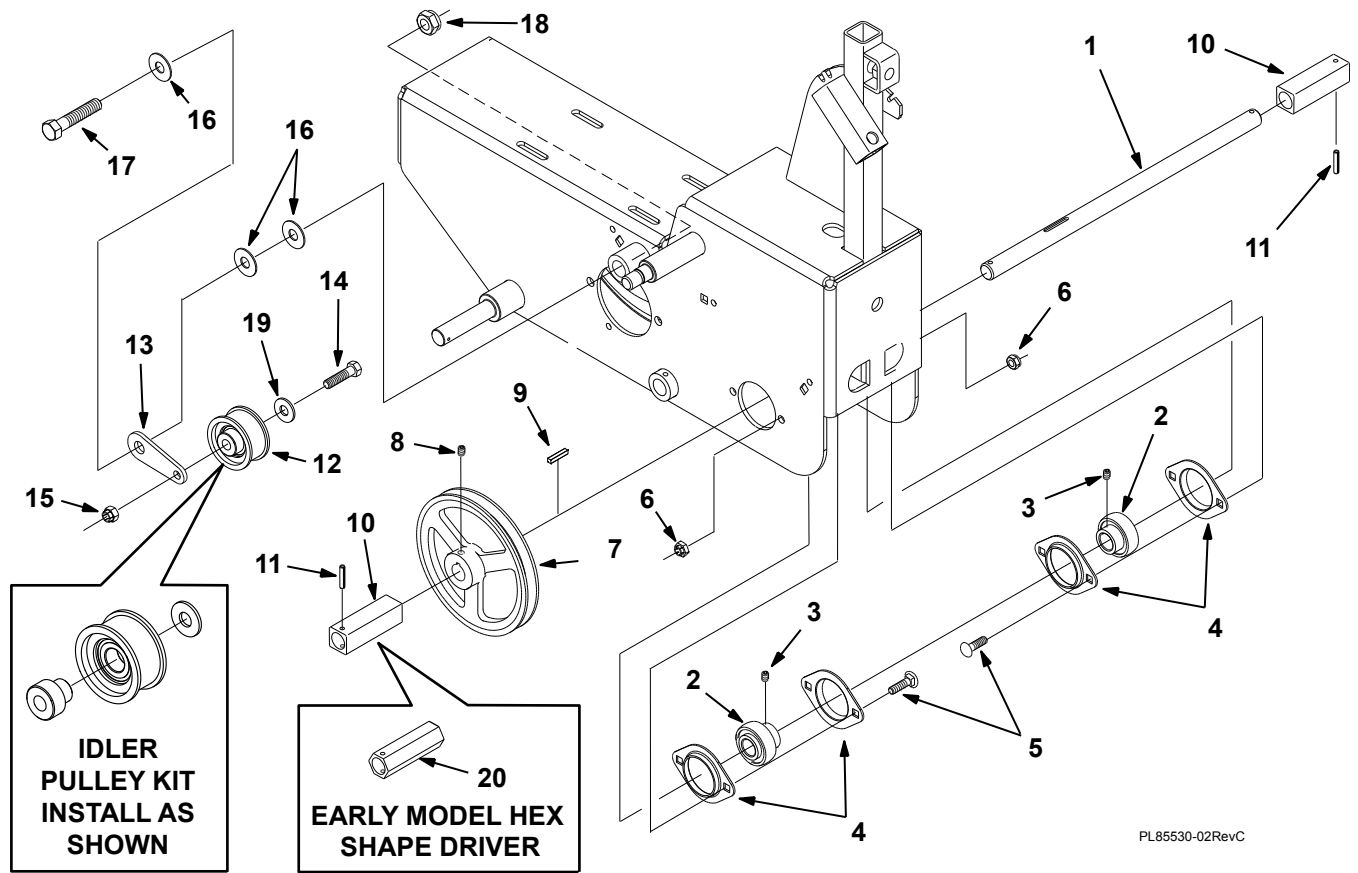
Eccentric Shaft



PL85530-01

Item No.	Part No.	Description	Qty.
1	662272	Shaft, Eccentric.....	1
2	668725	Bearing, Replacement Kit (Replaces 662296 Bearing)	2
3	415561	Screw, Set, 5/16"-24 x 5/16"	4
4	662299	Flangette, Bearing Retainer.....	4
5	400262	Screw, Hex Head, 3/8"-16 x 1".....	4
6	444810	Nut, Hex, 3/8"-16 Flexloc Full	4
7	662302	Sheave (Pulley), 5"	1
8	662301	Bushing, Includes Locking Screws	1
9	662454	Key, 5/16" x 3/16" x 1-1/4" Long.....	1

Wheel Drive and V-Belt Tensioner

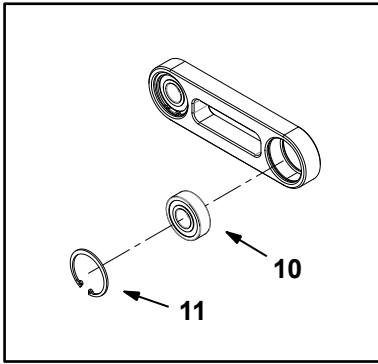


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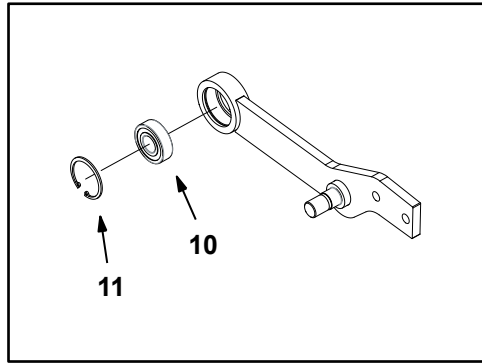
Item No.	Part No.	Description	Qty.
1	662281	Shaft, Drive Axle, Wheel	1
2	662295	Bearing, Includes Set Screws	2
3	499051	Screw, Set, 1/4"-28 x 1/4"	4
4	661179	Flangette, Bearing Retainer (Set of 2)	4
5	658240	Bolt, Carriage, 5/16"-18 x 3/4"	4
6	658600	Nut, Hex, 5/16"-18 Nylock	4
7	662303	Sheave (V-Belt Pulley), Includes Set Screws	1
8	415517	Set Screw, 5/16"-18 x 1/4"	2
9	499086	Key, 3/16" x 1"	1
10	662282	Driver, Square Shape	2
11	662453	Pin, Spring. 3/16" x 1"	2
12	658399	Kit, Pulley, Idler (See Note A)	1
13	662264	Plate, Idler Arm	1
14	400268	Screw, Hex Head, 3/8"-16 x 1-3/4"	1
15	444810	Nut, Hex, 3/8"-16, Flexloc Full	1
16	452010	Washer, Flat, 1/2" ID x 1-1/4" OD x 5/64" Thick	3
17	400450	Screw, Hex Head, 1/2"-20 x 2-1/2"	1
18	444816	Nut, Hex, 1/2"-20 Flexloc	1
19	452006	Washer, Flat, 3/8" ID x 7/8" OD x 5/64" Thick	1
20	662727	Driver, Hex Shape (Early Models Only)	2

Note A: 658399 Idler Pulley Kit contains Plastic Idler Pulley, Pulley Hub and Washer. Kit Replaces Old Metal Style Pulley. Install Hub and Washer As Shown.

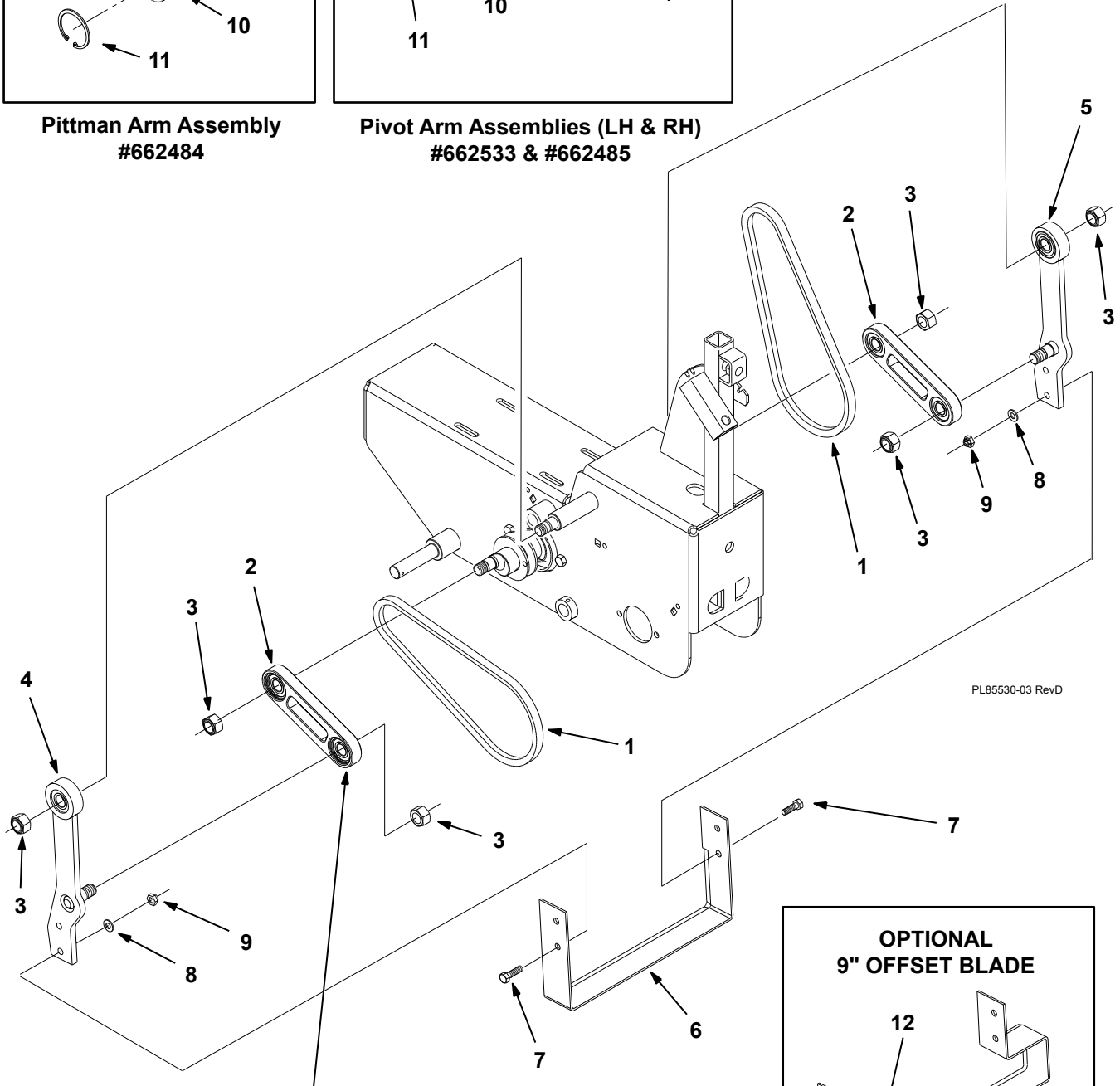
Pitman Arms, Cutting Arms, V-Belt and Blade



Pitman Arm Assembly
#662484

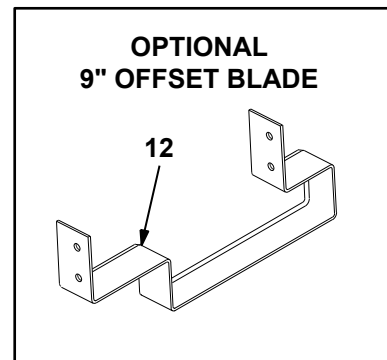


Pivot Arm Assemblies (LH & RH)
#662533 & #662485



PL85530-03 RevD

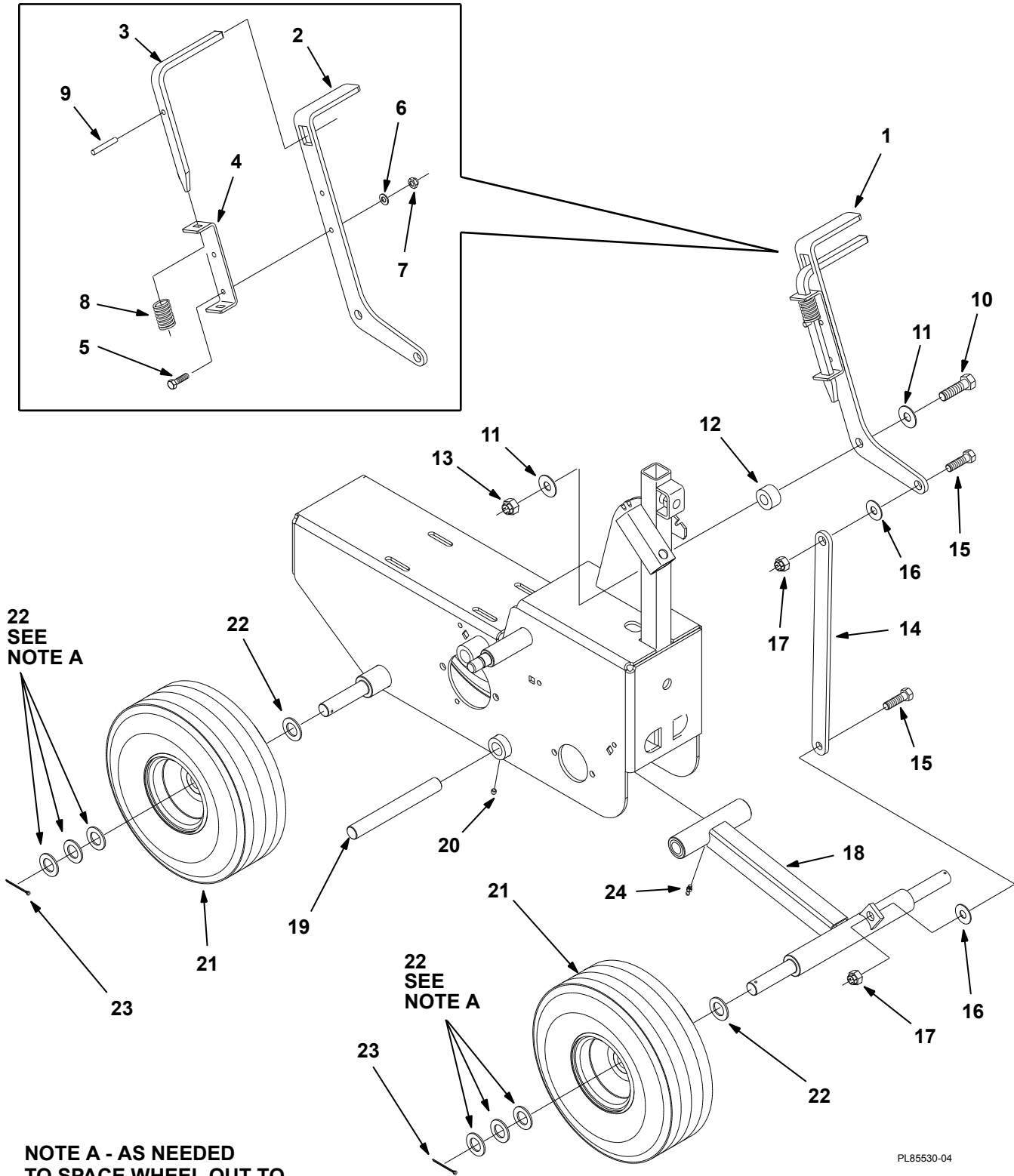
**INSTALL WITH RETAINING
RINGS TOWARDS OUTSIDE
(BOTH RIGHT AND LEFT HAND
PITMAN ARMS)**



Pitman Arms, Cutting Arms, V-Belt and Blade

Item No.	Part No.	Description	Qty.
1	662300	V-Belt	2
2	662484	Pitman Arm Assembly, Right or Left Hand (Includes Arm, Bearings and Retaining Rings)	2
3	660858	Nut, Hex, 5/8"-11 Nylock	6
4	662533	Pivot Arm Assembly, Left Hand (Includes Arm, Bearing and Retaining Ring).....	1
5	662485	Pivot Arm Assembly, Right Hand (Includes Arm, Bearing and Retaining Ring).....	1
6	87279	Blade, Cutting	1
7	400264	Screw, Hex Head, 3/8"-16 x 1-1/4"	4
8	452006	Washer, Flat, 3/8" ID x 7/8" OD x 5/64" Thick	4
9	444810	Nut, Hex, 3/8"-16 Flexloc Full	4
10	662297	Bearing, Deep Groove Ball, Sealed	6
11	662311	Retaining Ring, Internal	6
12	87398	Blade, 9" Inch Offset	1

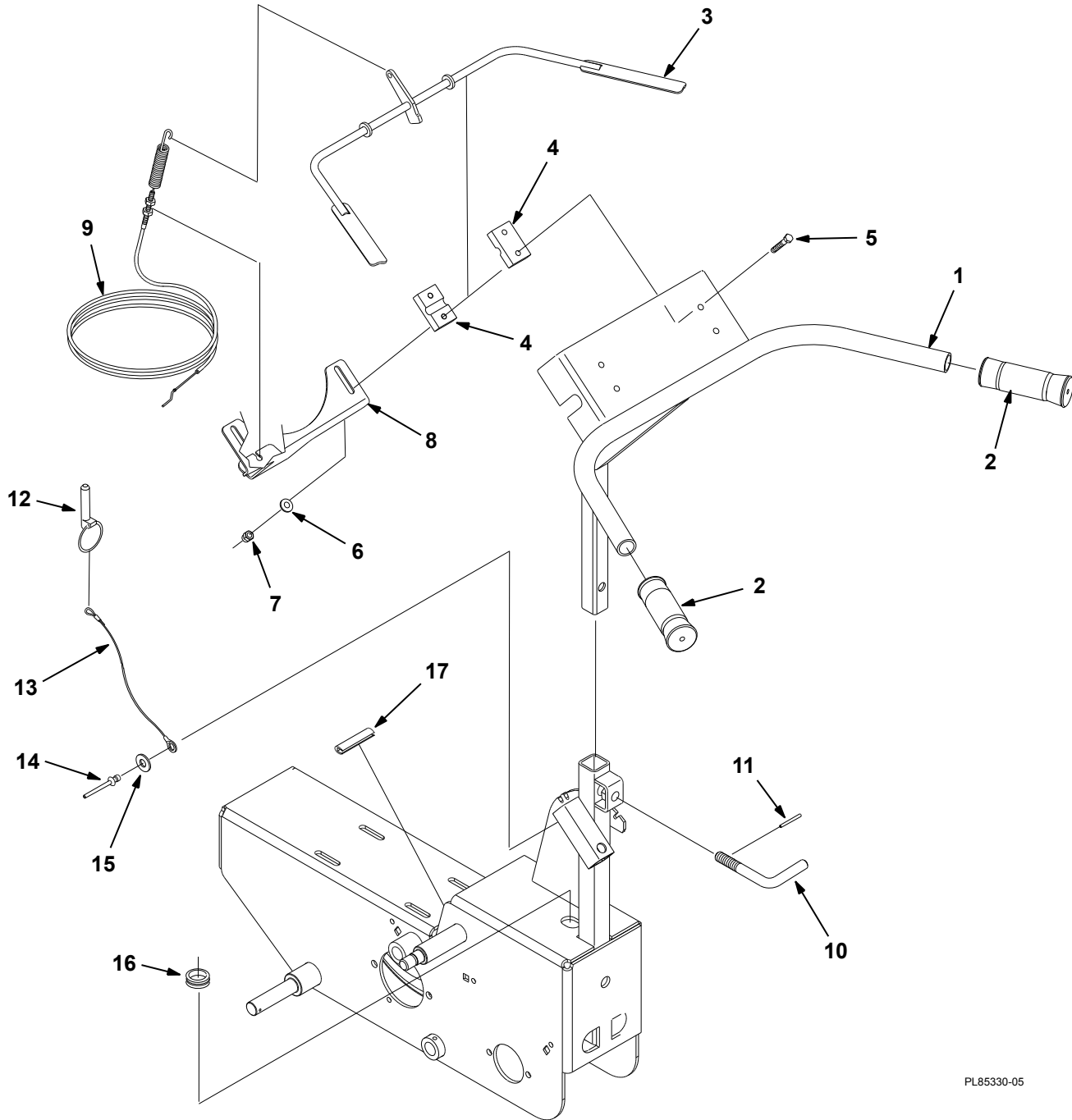
Depth Adjuster and Wheels



Depth Adjuster and Wheels

Item No.	Part No.	Description	Qty.
1	662312	Assembly, Depth Adjuster, Includes Items 2 thru 9	1
2	662316	Lever, Depth Adjuster.....	1
3	662314	Trigger, Depth Adjuster	1
4	662313	Bracket, Trigger Slide.....	1
5	400108	Screw, Hex Head, 1/4"-20 x 3/4".....	2
6	452002	Washer, Flat, 1/4" ID x 9/16" OD x 3/64" Thick	2
7	444830	Nut, Hex, 1/4-20 Flexloc	2
8	651381	Spring, Trigger	1
9	461359	Pin, Spring, 1/8" x 3/4"	1
10	400446	Screw, Hex Head, 1/2"-20 x 2".....	1
11	452010	Washer, Flat, 1/2" ID x 1-1/4" OD x 5/64" Thick	2
12	662315	Bushing, Depth Adjuster	1
13	444816	Nut, Hex, 1/2"-20, Flexloc	1
14	662343	Bar, Depth Adjuster.....	1
15	400264	Screw, Hex Head, 3/8"-16 x 1-1/4".....	2
16	452006	Washer, Flat, 3/8" x 7/8" x 5/64" Thick	2
17	444810	Nut, Hex, 3/8"-16 Flexloc Full	2
18	662275	Axle Pivot Weldment, Includes Oilite Bearings and Grease Fitting	1
19	662279	Shaft, Pivot, Depth Adjuster	1
20	415509	Screw, Set, 1/4"-20 x 1/4"	2
21	661300	Wheel and Tire Assembly, 410/350-4 x 10"	4
22	660836	Washer, Flat, 49/64" ID x 1-5/16" OD x 3/32", SEE NOTE A	16
23	460028	Pin, Cotter, 1/8" x 1"	4
24	471214	Fitting, Grease, 1/4"-28 Straight.....	1

Handlebar and Throttle Control

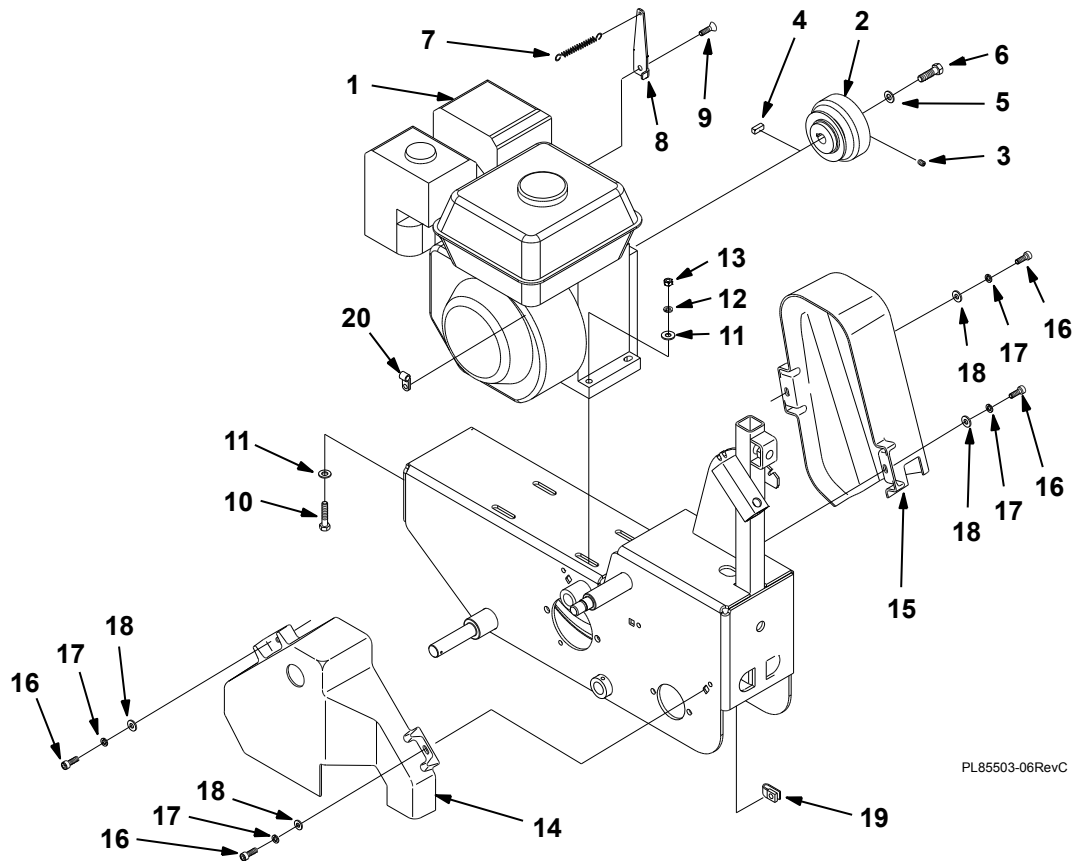


PL85330-05

Handlebar and Throttle Control

Item No.	Part No.	Description	Qty.
1	662418	Handlebar, KisCutter.....	1
2	659274	Grip, Handlebar.....	2
3	662423	Throttle Control	1
4	659294	Block, Bearing, Polyethylene	4
5	400118	Screw, Hex Head, 1/4"-20 x 1-3/4".....	4
6	452002	Washer, Flat, 1/4" ID x 9/16" OD x 3/64" Thick	5
7	444830	Nut, Hex, 1/4"-20 Flexloc	4
8	664205	Plate, Throttle Cable Extension	1
9	664206	Cable, Throttle, Jacketed (Includes Wire, Nuts and Spring).....	1
10	662345	Lock, Handlebar.....	1
11	461359	Pin, Spring, 1/8" x 3/4"	1
12	658297	Pin, Lynch, 7/16"	1
13	658327	Lanyard.....	1
14	657218	Rivet, Blind, 1/4".....	1
15	452004	Washer, Flat, 5/16" ID x 3/4" OD x 1/16" Thick	1
16	658049	Grommet, Rubber, 9/16"	1
17	663969	Trim, Edge, Rubber.....	1

Engine and Guards



PL85503-06RevC

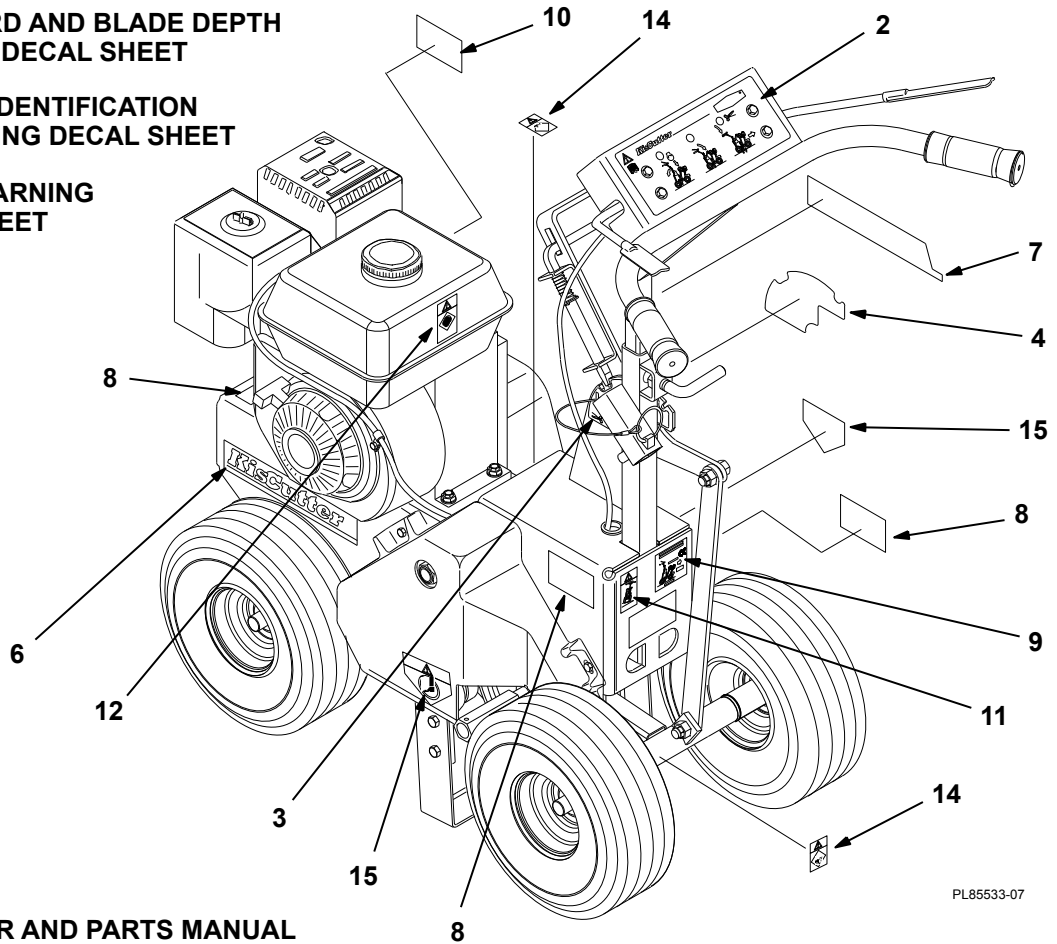
Item No.	Part No.	Description	Qty.
1	671231	Engine, Honda GX-160-UT2QX2, 5.5 HP.....	1
2	662304	Clutch, Centrifugal	1
3	499048	Screw, Set, 1/4"-28 x 5/16"	1
4	499209	Key, Square, 3/16" x 1-1/2"	1
5	499427	Washer, Flat, 21/64" ID x 7/8" OD x 3/32" Thick	1
6	400222	Screw, Hex Head, 5/16"-24 x 3/4"	1
7	662429	Spring, Extension (Throttle Cable).....	1
8	662701	Bracket, Throttle Spring	1
9	662702	Screw, Flt Cap Head, 5/16"-24 x 3/4"	1
10	400194	Screw, Hex Head, 5/16"-18 x 1-3/4"	4
11	452004	Washer, Flat, 5/16" ID x 3/4" OD x 1/16" Thick	8
12	446134	Washer, Lock, 5/16"	4
13	443106	Nut, Hex, 5/16"-18.....	4
14	662703	Guard, Plastic, Left Hand.....	1
15	662704	Guard, Plastic, Right Hand	1
16	657123	Screw, Socket Head, 1/4"-20 x 1"	4
17	446128	Washer, Lock, 1/4"	4
18	452002	Washer, Flat, 1/4" ID x 9/16" OD x 3/64" Thick	4
19	662620	Nut, U-Type, 1/4"-20 Multi-Thread	4
20	650185	Clip, Throttle Cable	1

Decals and Manual

1 - DASHBOARD AND BLADE DEPTH ADJUSTER DECAL SHEET

5 - PRODUCT IDENTIFICATION AND WARNING DECAL SHEET

13 - GUARD WARNING DECAL SHEET



PL85533-07

16 - OPERATOR AND PARTS MANUAL

Item No.	Part No.	Description	Qty.
1	662322	Decal Sheet, Dashboard and Depth Adjuster, Includes Items 2, 3 and 4.....	1
2		Decal, Dashboard	1
3		Decal, Blade Depth Adjuster, Left Hand.....	1
4		Decal, Blade Depth Adjuster, Right Hand	1
5	671272	Decal Set, KisCutter, Includes Items 6 Thru 12	1
6		Decal, KisCutter Logo, Left Hand	1
7		Decal, KisCutter Logo, Right Hand	1
8		Decal, Turfco Rental Logo, 4"	3
9		Decal, Product Identification	1
10		Decal, Warning, Fuel Level.....	1
11		Decal, Maximum Angle of Operation Warning	1
12		Decal, Ear Protection Warning.....	1
13	662749	Decal Sheet, Guard Warnings, Includes Items 14 and 15	1
14		Decal, Warning, Hand Hazard	2
15		Decal, Warning, Foot Hazard.....	2
16	671271	Manual, KisCutter, Operator and Parts, Rev A.....	1



R E N T A L

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