

BELT DRIVE COMMERCIAL MOWER TECHNICAL MANUAL



	MODELS	· · · · · · · · · · · · · · · · · · ·
SW32-13KA SW36-13KA	SW-14KA SW-14KH	SWM-52 SWM-61
SW36-13KH SW48-14KA SW48-14KH	SW-16BV SW-18KH SW-18KHE	SWM-72
		PATENT NO. 4,885,903

© 1993 SCAG POWER EQUIPMENT DIVISION OF METALCRAFT OF MAYVILLE, INC.

PART NO. 01176 PRINTED 02/93 PRINTED IN USA

TABLE OF CONTENTS

SUBJECT

Safety Instructions	
Before Operating	2
While Operating	2
While Maintaining and Storing	3
Assembly Instructions	3-5
Adjustments	
Cutter Deck Drive	6
Drive Controls	-
Transmission Drive Belt	-
Tire Pressures	
General	
Cutter Deck	
Tapered Bearing Spindle	7-8
Initial Run-In	9
Operating Instructions	9
Illustrated Parts Listings	
32" Cutter Deck	10-11
36" Cutter Deck	
48", 52", 61" & 72" Cutter Decks	14-15
Engine Deck	16-18
Transmission	
Handle Assembly	
Wiring Diagram Electric Start	23
Wiring Diagram Manual Start	24
Replacement Decals	25
Warranty	26

SAFETY INSTRUCTIONS

Your mower is only as safe as the operator! As with any type of power equipment, carelessness or error on the part of the operator may result in serious bodily injury. In addition, improper maintenance of the machine can also result in injury. To reduce the potential for injury, please read and follow these instructions on safe operation and be certain that anyone using this mower fully understands and complies with the following instructions.

BEFORE OPERATING

1. Read and understand the contents of this Technical Manual before operating the machine. Become familiar with all controls and know how to stop quickly. A free replacement manual is available by sending complete Model and Serial Number to:

Scag Power Equipment, Inc. 1000 Metalcraft Drive Mayville, WI 53050

- 2. Do not allow children to operate the machine. Do not allow adults to operate the machine without proper instruction.
- 3. Before attempting to start engine, shift transmission into neutral, move blade clutch lever into STOP position and move neutral latches to NEUTRAL LOCK.
- 4. Remove all debris or other objects that might be picked up and thrown by the cutter blades. Keep all bystanders away from the mowing area.
- 5. Keep all shields, safety devices, and decals in place. If a shield, safety device or decal is defective or damaged, repair or replace it before operating. Also, tighten all loose nuts, bolts and screws to assure machine is in safe operating condition.
- 6. Do not operate machine while wearing sandals, tennis shoes, sneakers or shorts. Also, do not wear loose fitting clothing which could get caught in moving parts. Always wear long pants and substantial shoes. Wearing safety glasses and safety shoes is advisable and required by some local ordinances and insurance regulations.
- 7. Fill fuel tank with gasoline before starting the engine. Avoid spilling gasoline. Since gasoline is flammable, handle it carefully.
 - A. Use an approved gasoline container.
 - B. Do not fill tank while engine is hot or running.
 - C. Do not smoke while handling gasoline.
 - D. Fill fuel tank outdoors and up to about one inch (25 mm) below the bottom of the filler neck.
 - E. Wipe up any spilled gasoline.

WHILE OPERATING

- 8. Start engine when neutral latches are in neutral lock position, cutter blades are disengaged, and transmission is in neutral.
- 9. Do not run the engine in a confined area without adequate ventilation. Exhaust fumes are hazardous and could possibly be deadly.
- 10. Using the machine demands attention. To prevent loss of control:
 - A. Mow only in daylight or when there is good artificial light.
 - B. Watch for holes or other hidden hazards.
 - C. Do not drive close to a drop-off, ditch or creek bank or other hazard.
 - D. Reduce speed when making sharp turns and when turning on hillsides.
 - E. Always be sure of your footing. Keep a firm hold on the handles and walk---never run.
 - F. Do not operate where conditions are slippery.
- 11. The discharge chute must always be installed and in the down position on the side discharge cutting unit except when optional grass catcher or mulching plate are completely installed. If the cutting unit discharge should plug, shut engine off and wait for all movement to stop before removing obstruction.
- 12. Disengage the blades and wait for them to stop before crossing gravel drives, walks or roads.
- 13. Shut the engine off and wait until the blades come to a complete stop before removing the grass catcher container.
- 14. Never raise the cutting unit while the blades are rotating.
- 15. If the cutting blades should strike a solid object or the equipment should start to vibrate abnormally, stop the engine, disconnect the spark plug wire, and check immediately for the cause. Vibration is generally a warning of trouble. Check the cutting unit and traction unit for damaged or defective parts. Repair any damage before starting the engine and operating the cutter unit. Be sure blades are in good condition and blade bolts are tight.
- 16. Always park the mower and/or start the engine on a level surface. If this is not possible, block the wheels to prevent the mower from moving when you are not in the operator's position.
- 17. Cut grass slopes carefully. Do not start, stop or turn suddenly. Mow across the face of slopes; never up or down. Do not mow excessively steep slopes.

SAFETY INSTRUCTIONS CONT'D

- Do not touch engine or muffler while engine is running or soon after it is stopped. These areas could be hot enough to cause a burn.
- Before leaving the operator's position or leaving mower unattended, shift transmission into NEUTRAL, place neutral latches in NEUTRAL LOCK position, move cutter blade engagement lever to STOP and shut OFF engine.
- 20. Do not pass or stand on the grass discharge side of any mower with the engine running. Stop operation when another person approaches.

MAINTENANCE AND STORAGE

- 21. Disconnect high tension wire from spark plug to prevent accidental starting of the engine when servicing, adjusting or storing the machine.
- 22. If mower must be tipped to perform maintenance or adjustment, remove battery, drain gasoline from fuel tank and oil from crankcase.
- To reduce potential fire hazard, keep the engine free of excessive grease, grass, leaves and accumulations of dirt.
- 24. Be sure machine is in safe operating condition by keeping nuts, bolts, and screws tight. Check the blade mounting bolts and nuts frequently to be sure they are tightened.
- 25. If the engine must be running to perform a maintenance adjustment, keep hands, feet, clothing and other parts of the body away from the cutter deck blades and other moving parts.
- 26. Do not overspeed the engine by changing governor settings. To be sure of safety and accuracy, have an authorized dealer check maximum engine speed with a tachometer.
- 27. Engine must be shut off before checking oil or adding oil to the crankcase.
- 28. Allow engine to cool before storing mower in any enclosure such as a garage or storage shed. Make sure the mower fuel tank is empty if machine is to be stored in excess of 30 days. Do not store mower near any open flame or where gasoline fumes may be ignited by a spark.
- 29. Always store gasoline in a safety-approved, red container.
- 30. Keep the mower and fuel container in locked storage to prevent children from playing and tampering with them.

- 31. Perform only those maintenance instructions described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized Scag Dealer. To ensure optimum performance and safety, always purchase genuine SCAG replacment parts and accessories. NEVER USE "WILL-FIT" replacement parts and accessories made by other manufacturers. Using unapproved replacement parts and accessories may void the warranty.
- 32. Be careful when servicing the battery as it contains acid, which is corrosive and could cause burns to skin and clothing.
- 33. Batteries release explosive gases when being charged or discharged. KEEP away from any source of sparks and/or flame.

ASSEMBLY INSTRUCTIONS

ELECTRIC START UNITS ONLY!

Before proceeding with assembly, prep the battery. Fill each cell with electrolyte until the top of the plates are covered. Charge the battery at 3 to 4 amps for 4 hours (this insures a good initial charge), check and add electrolyte as needed to bring the fluid level to the bottom of the split ring. Then wash and dry off the battery.

NOTE: Once the above fill and charge procedure has been completed only distilled water should be added to the battery cells.

Set the battery into the support, connect the positive cable to the positive post, then connect the negative cable to the negative post. Put the battery cover in place (at the back of the battery), and clamp the battery into place (finger tight) using the carriage bolts and wing nuts. DO NOT OVER TIGHTEN.

WARNING: Severe chemical burns can result from improper handling of battery electrolyte. Use proper eye, skin and clothing protection to prevent contact with eyes, skin and clothing.

External contact: Flush with water.

Internal contact: Drink large quantities of water, followed by milk of magnesia, beaten egg or vegetable oil.

CALL A PHYSICIAN IMMEDIATELY!

IMPORTANT - In case of internal contact DO NOT give fluids that would induce vomiting.

Eye contact: Flush with water for at least 15 minutes and GET MEDICAL ATTENTION IMMEDIATELY!



ASSEMBLY INSTRUCTIONS CONT'D

WARNING: Explosive gases are vented from a battery when being charged or discharged which could explode if exposed to a flame or spark.

SET-UP ALL UNITS

- 1. Lay out hardware according to the "Where Used" list in the loose parts packing list.
- Install handle assembly to handle mounting frame using four 3/8-16 x 1" bolts, flat washers, and elastic stop nuts. Three different handle heights can be obtained using one of the three slotted holes in the handle mounting frame.
- Route the throttle control above the RH jackshaft and up the right side of handle. Secure to handle with 1/4-20 x
 2" hex head bolt and elastic stop nut. Secure cable about half way down the handle using a cable tie.
- **NOTE:** Check that the throttle cable moves the carburetor controls through their full range. If not, adjust as required.
- 4. Route the operator presence interlock wires up the left handle tube and attach the connector to the switch as shown. Be certain that the connector does not hit the safety lever stop tab, if it does, rotate the switch to the position shown (see figure 1).



- 5. Installing control rods.
 - a) Thread rods into the swivel joints that are attached to the idler brackets on each side of the unit.
 - Adjust the rods so that there is about a 1/4"-3/8" clearance to the bottom of the neutal latch slot when in the drive position. Secure with small hair pin cotter as shown (see figure 2)



- c) Adjust brake rods so the brakes lock when the steering levers are pulled all the way up.
 NOTE: Rods must allow neutral latches to be moved to the neutral position. (see fig.ure 2)
- Attach shift lever assembly as shown (see figure 3) on top of the short lever that is bolted to the transmission using two 5/16-18 x 1" bolts, flat washers, lock washers and hex nuts. Two heavy flat washers should be inserted above the shift lever and two inserted below.



 The shift lever should be adjusted so that the shift lever assembly is 0 to 1/8" away from the stop when the transmission is in neutral (see figure 4). Tighten nuts securely.

NOTE: Engine will not start if transmission is not in neutral.

ASSEMBLY INSTRUCTIONS CONT'D



- 8. Attach fuel tank (See figure 5) as follows:
 - a) Wrap the straps around the fuel tank to pre-form them, then set aside to be used later.
 - b) Position the four rubber pads on the gas tank with two 1/4" thick pads in the strap grooves on top and two 3/8" pads with adhesive bottoms in the strap grooves between the gas tank and handle mounting frame. Attach the adhesive side of the bottom two pads to the handle mounting frame.
 - c) Position the tank so the SCAG logo is forward. Place the straps around the tank going under the handle mounting frame, secure the strap together in front using (2) two 1/4-20 x 2" slotted machine screws and hex nuts. Tighten screws until the tank will not slide around. Over tightening will damage the tank or straps.
 - d) Attach the fuel line to the valve on the bottom of the tank.



ATTACHING SWM-52, SWM-61, SWM-72 TO ENGINE DECK

a) Before beginning, determine which mounting holes are to be used to best suit the cutting height requirements of your customer. (see figure 6).



- b) Remove belt cover by loosening the wing nuts securing it to the cutter deck.
- c) Position the cutter deck so that the engine deck is between the mounting brackets of the cutter deck. Install two bolts through the mounting holes selected, secure loosely with a flat washer, lock washer and hex nut. Tilt the engine deck up or down to align the remaining four holes and secure with remaining hardware.
- d) Torque cutter deck mounting bolts to 50 to 70 ft. lbs..
- e) Route belt around engine pulley and tighten bolt on engine belt guide. Connect lower blade clutch control rod to eyebolt and over center link with flat washer and hair pin.
- Attach discharge chute to cutter deck using two 5/16-18
 x 1" bolt and elastic stop nuts. Tighten bolts on chute until chute moves freely with some resistance.
- 11. Attach caster wheels supports to cutter deck using four 5/16-18 x 3/4" bolts, lock washers and hex nuts.
- **NOTE:** Check all hardware to be sure it is tightened properly, also check clearance and routing of drive belts.
- 12. Check engine oil level and fill as is necessary. Add oil to the engine crankcase using type specified in engine operator's manual.
- 13. Fill fuel tank to about 1" below the fill neck with gasoline as specified in engine operator's manual.

<u>SCAC</u>

ADJUSTMENTS

CUTTER DECK DRIVE ADJUSTMENTS

1. Engage blade clutch lever and check for proper over center clearance. There should be about 3/8" between rod and straight edge (see figure 7). Bend the stop tab to adjust clearance.

There are two holes drilled in to the cam link that you can use for the bolt that secures the cam link to the mounting post welded to the deck. This will allow you to lengthen or shorten the engagement linkage to compensate for belt wear.



- Adjust belt tension so that the belt moves 1/2" with 10 lbs. of pressure applied between the center and left spindle pulleys (see figure 8). Adjustment is made by loosening the jam nut and tightening/loosening the turn buckle (see figure 7). Belt driving right spindle should be checked the same way. Adjust with J-rod on RH belt tension adjustment idler.
- NOTE: Belt tension may need to be increased or decreased 1 to 2 lbs. to achieve lowest bellt vibration.



DRIVE CONTROLS

- 1. Steering control rods should have about 1/4" clearance between the bottom of the slot and the bottom of the rod when the steering levers are released (see figure 2).
- 2. The brake rods should be adjusted so that the brakes do not apply until the steering levers are pulled tight to the handles. When the steering levers are locked in the neutral position the unit may be pushed around.
- 3. The shift lever is adjustable, and can be moved right to left allowing proper positioning for neutral (See figure 4).

TRANSMISSION DRIVE BELT

Adjust the transmission drive belt so that there is about a 3/16" deflection with 10 pounds of pressure. Adjust by loosening idler pulley mounting bolt and sliding the idler left or right to change belt tension.

TIRE PRESSURES

Drive Wheel Tires	15 psi
Caster Wheels	25 psi

ADJUSTMENTS

GENERAL ADJUSTMENTS

- 1. Check that all belts clear their guides by 1/8" to 1/4".
- 2. Adjust tension of blade drive belt by rotating turnbuckle so that about 10 pounds pull sideways deflects belt about a 1/2". DO NOT OVERTIGHTEN. Only a moderate force should be required on the engagement lever.
- Check tension of transmission drive belt (under engine deck). A ten pound pull sideways should deflect belt about 3/16". Slide idler pulley if required to adjust.
- 4. The tension of the two Twin Power Wheel Drive belts is self-adjusting. However, for adequate declutching, adjust length of steering control rods on each side of handle until about a 1/4" gap is provided between rod and bottom of neutral latch slot, when neutral latch is in drive position.
- Adjust brake rods so that brakes will lock wheels while pulling machine rearward with steering levers fully squeezed. Check that machine rolls freely when neutral latches are in neutral lock position.

TAPERED BEARING SPINDLE ASSEMBLY

Adjusting the blade height can be done by moving any number of the four smaller 1/4" spacers on the blade mounting bolts to the top of the spindle shaft or below the spindle shaft. (All blades should be positioned equally). The tapered bearing spindle has a large 1/4" spacer that is installed directly below the spindle housing and is secured to the spindle with two roll pins. The blade can be adjusted all the way up to the spindle assembly if all the smaller 1/4" spacers are removed and installed above the pulley. The larger 1/4" spacer can then be removed along with the roll pins. (Do not install the larger 1/4" spacer above the pulley, store it in a convenient location away from the machine). When any 1/4" spacers are installed above the blades the larger 1/4" spacer must be installed directly below the spindle housing. If a smaller 1/4" spacer is installed directly below the spindle housing and contacts the retaining ring this will cause a spindle failure and not be warrantable. For best cut and discharge, a minimum of three spacers should be installed between the blade and spindle. (see figure 10)



CUTTER DECK ADJUSTMENTS

Due to the many cutting conditions that exist, it is difficult to suggest a setting that will work for every lawn. There are two adjustments that can be made on these decks, pitch and height.

PITCH is the angle of the blades (comparing front to rear). A *positive pitch* is when the front (leading) edge of the cutting plane is lower than the rear (trailing) edge, *level pitch* is when both front and rear are the same height, a *negative pitch* is when the leading edge is higher than the rear edge. We suggest that a postive pitch be used when cutting grass. The front of the deck should be 1/4" to 1/2" lower than the rear of the deck.

HEIGHT is the nominal distance the blade is off of the ground. This measurement is made with the blades pointed side to side and distance is measured between cutting tip and ground.

ADJUSTMENTS CONT'D

Additional range to the cutting height can be achieved by repositioning the cutter deck in relationship to the engine deck (This adjustment can also effect the pitch of the deck). There are 3 positions (see figure 6), suggested mounting is the middle holes. For cutting lower, mount the deck in the top holes. To cut higher, mount the deck in the bottom holes.

Remember to check the cutter deck belt alignment. Shimming or attaching the idler mounting bracket from underneath may be necessary to maintain belt life.

Caster spacers also can be repositioned to change cutting heights and to change the pitch of the deck (see figure 11).



LUBRICATION & MAINTENANCE



+ Grease spindle until grease comes out the relief valve

INITIAL RUN-IN

WARNING: Use extreme caution during mower's initial run-in to assure caster wheels are adequately blocked and drive wheels do not inadvertently contact ground. Keep bystanders away from machine. Never allow mower to discharge towards bystanders. Never leave the machine unattended during the initial run-in.

- 1. Lubricate all fittings as specified in Lubrication Section.
- Locate machine in a secure area, away from bystanders, and preferably facing a wall. Raise drive wheels off ground. Block caster wheels. Make sure area under cutter deck is clear of objects.
- Start engine and shift transmission into fourth gear. Engage cutter blades. Set throttle for 3/4 of full engine rpm.
- 4. Run the machine for a few minutes.
- Declutch cutter blades. Shift transmission into NEUTRAL. Stop engine.
- 6. Check tension of blade drive belt(s) and transmission drive belt. Adjust if necessary.
- 7. If necessary, readjust steering control and brake rods as indicated in the Adjustments Section.
- 8. Check function of all safety interlocks. Make sure that engine will not start unless transmission is in neutral and blade clutch is disengaged.
- 9. Check tire pressure and adjust to:

Caster Wheels	25 psi.
Drive Wheels	15 psi.

YOU ARE NOW READY TO MOW WITH CONFIDENCE!

OPERATING INSTRUCTIONS

- 1. Read and understand the instructions on safety before attempting to operate.
- 2. Before starting engine:
 - * Fuel valve must be opened.
 - * Transmission must be in NEUTRAL.
 - * Blade clutch lever must be in STOP position.
 - * Neutral latches must be in NEUTRAL LOCK position.
 - * Key switch on.
 - * Choke as required.
- 3. Start engine. Adjust throttle to achieve proper blade speed.
- 4. Engage cutter blades by pushing blade clutch lever forward until it snaps into the ON position. Pull lever back to disengage cutter blades.
- 5. Shift transmission into gear for desired mowing speed.

NOTE: Top speed is suggested only for transport!

- 6. While squeezing steering brake levers with both hands, release both neutral latches.
- 7. When steering brake levers are released, machine will travel straight. To make a right turn, squeeze RH lever to turn left squeeze LH lever.
- 8. TO STOP wheel drive, squeeze both levers, lock neutral latches, shift transmission into neutral.

WARNING: To avoid serious bodily injury and damage to transmission, machine must be at full stop before shifting from forward to reverse or from reverse to forward.

9. In reverse gear, the steering brake levers must be pushed downward for maximum traction.



56 Cut 50 Cut 50-04 Ret 50-07 Ret 50-07 Ret 58 Tap 58 Spin 14-02 Wai 52-08 Key 38 Spin 52-08 Key 38 Spin 10 Cut 11 Hep 12 Cas 137-01 Spin	scription ter Deck ter Spindle Assy. (Includes 3-9 & 81-85) aining Ring, 1" Ext-Inverted aining Ring, 2-7/16 Int.bsc ered Spindle Bearing, idle Housing asse Fitting, Str., 5/16 Serr idle Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 Nut, 5/16-18 Nur, 5/16-24 ler Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" ter Assy. (Inicudes 19-28) ck Pin cer, Caster Yoke, 1/2" long	No. 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	No. 48141 48278 48278 48278 48278 482098 45098 45098 45098 45097 46145 45037 46145 45037 46145 48269 43063 04070-02 04070-01	Description Tapered Hub Hex Hd. Bolt, 1/4-20 x 3/4 Hex Nut, 5/8-11 Belt, Blade Drive Hax Nut, 5/8-11 Belt, Blade Drive Hax Nut, 3/8-16 Hex Nut, 3/8-16 Ctr Locknut Lockwasher, Spring 3/8 Support, Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy (Includes 22 & 58) Bronze Bearing Retaining Fling, 3/4 Ext, "E" Stud Idler Pulley, Belt Clutch Spacer, Idler Eyebolt,LH
00 Cut 50-04 Ret 50-07 Ret 50-07 Ret 58 Tap 58 Span 14-02 Gree 91 Span 53-08 Key 53-08 Key 38 Span 10 Loc 10 Cut B4 C	ter Spindle Assy. (Includes 3-9 & 81-85) aining Ring, 1" ExtInverted aining Ring, 2-7/16 Int.bsc ered Spindle Bearing, whe Housing ase Fitting, Str., 5/16 Serr whe Shaft sher, 1-5/16 x 2-7/16 x 16 ga 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing t Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 t Nut, 5/16-18 Nut, 5/16-18 Nut, 5/16-24 ler Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" ter Assy. (Includes 19-28) ck Pin licer, Caster Yoke, 1/2" long	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63	48278 44004-02 45098 45098 45037 46145 48100.05 04050.02 04004.04 48269 43063 04070-02	Hex Hd. Bolt, 1/4-20 x 3/4 Hex Nut, 5/8-11 Belt, Blade Drive Hex Hd. Bolt, 3/8-16 x 5 Hex Nut, 3/8-16 Ctr Locknut Lockwasher, Spring 3/8 Support, Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext. *E* Stud Idler Pulley, Belt Clutch Spacer, Idler
50-04 Ret 50-07 Ret 58 Tap 58 Spanner 14-02 Gre 31 Spanner 31 Spanner 32-08 Key 38 Spanner 41-02 Wa 33-08 Key 38 Spanner 40-10 Fian 54 Cut 40-10 Fian 54 Cut 54 Cut 54 Cut 54 Cut 55 Cut 56 Cut 57 Cas 56 Cut 57 Cas 57 Cas 5	aining Ring, 1" ExtInverted aining Ring, 2-7/16 Int.bsc ered Spindle Bearing, idle Housing asse Fitting, Str., 5/16 Serr role Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing t Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 Nut, 5/16-18 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16-19 Nut, 5/16 Nut, 5/16-19 Nut, 5/16 Nut, 5/16-19 Nut, 5/16 Nut, 5/1	45 46 47 48 49 50 51 52 53 54 55 56 57 58 60 61 62 63	48278 48278 48278 48278 482098 45098 45037 46145 48100-05 04050-02 04050-02 0404-04 48269 43063 04070-02	Hex Nut, 5/8-11 Belt, Blade Drive Hex Hd. Bolt, 3/8-16 x 5 Hex Nut, 3/8-16 Ctr Lockmut Lockwasher, Spring 3/8 Support: Belt Cover Belt Guide Hex Hd. Bolt,7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext, "E" Stud Idler Pulley, Belt Clutch Spacer, Idler
50-07 Ret 58 Tap 58 Tap 59 Spin 14-02 Gre 31 Spin 41:02 Wa 53-08 Key 38 Spa 50 Spin 10 Spin 10 Cat 10 Cat	aining Ring, 2-7/16 Int.bsc ered Spindle Bearing, indie Housing ase Fitting, Str., 5/16 Serr idie Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing (Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 (Nut, 5/16-18 Nut, 5/16-18 Nut, 5/16-18 Nut, 5/16-24 ler Blade 16-1/2" High Lift Washer, 5/8 W (Hd. Bolt, 5/8-11 x 9-1/2 iter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	48278 	Belt, Blade Drive Hex Hd. Bolt, 3/8-16 x 5 Hex Nut, 3/8-16 Ctr Lockmut Lockwasher, Spring 3/8 Support Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext.=E= Stud Idler Pulley, Belt Clutch Spacer, Idler
58 Tap 58 Spin 14-02 Gre 31 Spin 32-06 Key 38 Space 10 Hey 10 Hey 10 Cat 10 Cat 10 Flan 01-41 Hey 79 Cat 66-01 Qui 37-01 Space	ered Spindle Bearing, idle Housing ase Fitting, Str., 5/16 Serr idle Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing ; Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 : Nut, 5/16-18 . Nut, 5/16-24 ler Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	64604-02 45098	Hex Hd. Bolt, 3/8-16 x 5 Hex Nut, 3/8-16 Ctr Lockmut Lockwasher, Spring 3/8 Support, Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext, "E" Stud Idler Pulley, Belt Clutch Spacer, Idler
D6 Spin 14-02 Gree 21 Spin 23-08 Kay 33-08 Kay 34 Spin 35-08 Kay 38 Spin 10 Loc 10 Cut 40-10 Fiant 10 Cut 79 Cass 66-01 Qui 37-01 Spin	idle Housing ase Fitting, Str., 5/16 Serr idle Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing (Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 (Nut, 5/16-18 Nur, 5/16-18 (Nur, 5/16-24 ler Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" High Lift Washer, 5/8 W Hid Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	304004-02 45098 - - - 45037 46145 48100-05 04050-02 04050-02 0404-04 48269 43063 04070-02	Hex Nut, 378-15 Hex Nut, 378-15 Ctr Lockmat Lockwasher, Spring 378 Support, Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext, -E* Stud Idler Pulley, Belt Clutch Spacer, Idler
14-02 Great 91 Spin 41-02 Wa 63-08 Key 38 Spa 01 Spa 10 Cut 10 Cut 10 Cut 10 Cut 10 Cut 10 Fiat 01-41 Hey 79 Cas 66-01 Qui 37-01 Spa	ace Fitting, Str., 5/16 Serr rdle Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 * Nut, 5/16-18 Nur, 5/16-24 ter Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" ter Assy. (Inicudes 19-28) ck Pin ter, Caster Yoke, 1/2" long	48A 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	304004-02 45098 - - - 45037 46145 48100-05 04050-02 04050-02 0404-04 48269 43063 04070-02	Hex Nut, 3/8-15 Ctr Locknut Lockwasher, Spring 3/8 Support, Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 ExtE [*] Stud Idler Pulley, Belt Ctutch Spacer, Idler
91 Spi 41-02 Wa 53-08 Kay 38 Spa 01 Spa 10 Cut 10 Cut 10 Cut 10 Cut 10 Cut 10 Cut 10 Fiat 01-41 Hey 79 Cas 56-01 Qui 37-01 Spa	Indie Shaft sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing : Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 : Nut, 5/16-18 : Nut, 5/16-18 : Nut, 5/16-24 ter Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	+ 04004-02 45098 - - - 45037 46145 48100-05 04050-02 04050-02 04004-04 48269 43063 04070-02	Lockwasher Spring 3/8 Support Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext.="E" Stud Idler Pulley, Belt Ctutch Spacer, Idler
41.02 Was 63.08 Key 38 Spa 01 Spa 10 Cut 10 Cut 10 Cut 10 Cut 10 Fiat 01.41 Hey 79 Cas 66-01 Qui 37-01 Spa	sher, 1-5/16 x 2-7/16 x 16 ga , 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 Nut, 5/16-18 Nut, 5/16-18 Nut, 5/16-24 ter Blade 16-1/2* ter Blade 16-1/2* ter Blade 16-1/2* ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2* long	50 51 52 53 54 55 56 57 58 59 60 61 62 63	45098 45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Support Belt Cover Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext.="E" Stud Idler Pulley, Belt Clutch Spacer, Idler
23-08 Key 38 Spa 01 Spa Hey Loc Hey 10 Cut 84 Cut 60-10 Fiat 01:41 Hey 79 Cas 66-01 Qui 37-01 Spa	, 1/4 x 1/4 x 2 cer, Cutter Blade cer, Tapered Bearing : Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 : Nut, 5/16-18 : Nut, 5/16-24 uer Blade 16-1/2* ter Blade 16-1/2* ter Blade 16-1/2* High Lift Washer, 5/8 W : Hd. Bolt, 5/8 11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin ucer, Caster Yoke, 1/2* long	51 52 53 54 55 56 57 58 59 60 61 62 63	45098 45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Belt Guide Hex Hd. Bolt, 7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext. "E" Stud Idler Pulley, Belt Clutch Spacer, Idler
38 Spatial 01 Spatial 01 Spatial 01 Spatial 10 Herric 10 Cut 10 Cut 10 Filari 11 Herric 12 Cut 13 Cut 14 Herric 13.41 Herric 79 Cass 66-01 Qui 37-01 Spatial	cer, Cutter Blade cer, Tapered Bearing : Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 : Nut, 5/16-18 : Nut, 5/16-24 uer Blade 16-1/2" ter Blade 16-1/2" ter Blade 16-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8 11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin ucer, Caster Yoke, 1/2" long	52 53 54 55 56 57 58 59 60 61 62 63	45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Hex Hd. Bolt,7/16-14 x 1-1/4 Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext. "E" Stud Idler Putley, Belt Clutch Spacer, Idler
01 Spa Hey Loc Hey 10 Cut 84 Cut 84 Cut 84 Cut 84 Cut 84 Cut 84 Cut 85 Cut 86 10 Fiat 91 Cas 66 - 01 Qui 37 - 01 Spa	cer, Tapered Bearing : Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 : Nut, 5/16-18 Nut, 5/16-24 uer Blade 16-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8 11 x 9-1/2 ter Assy. (inicudes 19-28) ck Pin ucer, Caster Yoke, 1/2" long	53 54 55 56 57 58 59 60 61 62 63	45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Washer, 15/32 x 59/64 x 16 ga. Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext. "E" Stud Idler Putley, Belt Clutch Spacer, Idler
Hey Loc Hey 10 Cut 84 Cut 84 Cut 84 Cut 84 Cut 85 Tel 97 Cas 66-01 Qui 37-01 Spa	: Hd. Bolt, 5/16-18 x 1-1/4 kwasher, Spring, 5/16 : Nut, 5/16-18 : Nut, 5/16-24 : ar Blade 16-1/2" : High Lift Washer, 5/8 W : Hd. Bolt, 5/8-11 x 9-1/2 : ter Assy. (Inicudes 19-28) ck Pin : cer, Caster Yoke, 1/2" long	54 55 56 57 58 59 60 61 62 63	45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Lockwasher, Spring, 7/16 Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext.="E" Stud Idler Pulley, Belt Clutch Spacer, Idler
Loc Hey 10 Cut 84 Cut 40-10 Fiat 01-41 Hey 79 Cas 66-01 Qui 37-01 Spa	kwasher, Spring, 5/16 Nut, 5/16-18 Nut, 5/16-24 Her Blade 16-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin Licer, Caster Yoke, 1/2" long	55 56 57 58 59 60 61 62 63	45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Hex Nut, 7/16-14 elastic stop Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext.="E" Stud Idler Pulley, Belt Clutch Spacer, Idler
He) He) 10 Cut 84 Cut 40 10 Fiat 01 41 He) 79 Cas 66-01 Qui 37-01 Spa	Nut, 5/16-18 Nut, 5/16-24 Her Blade 16-1/2* Her Blade 16-1/2* High Lift Washer, 5/8 W Hd. Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin Her, Caster Yoke, 1/2* long	56 57 58 59 60 61 62 63	45037 46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Idler Pivot Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext. "E" Stud Idler Pulley, Belt Clutch Spacer, Idler
Her 10 Cut 84 Cut 40-10 Flat 9 Cas 66-01 Qui 37-01 Spa	Nur, 5/16-24 ler Blade 15-1/2" ler Blade 15-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin licer, Caster Yoke, 1/2" long	57 58 59 60 61 62 63	46145 48100-05 04050-02 04004-04 48269 43063 04070-02	Idler Arm Assy. (Includes 22 & 58) Bronze Bearing Retaining Ring, 3/4 Ext. "E" Stud Idler Pulley, Belt Clutch Spacer, Idler
10 Cut 84 Cut 40-10 Filat 01-41 Heo 79 Cas 66-01 Qui 37-01 Spa	er Blade 16-1/2" ler Blade 16-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin licer, Caster Yoke, 1/2" long	58 59 60 61 62 63	48100-05 04050-02 04004-04 48269 43063 04070-02	Bronze Bearing Retaining Ring, 3/4 Ext, *E* Stud Idler Pulley, Belt Clutch Spacer, Idler
B4 Cut 40-10 Fiat 01.41 Hex 79 Cas 66-01 Qui 37-01 Spa	er Blade 16-1/2" High Lift Washer, 5/8 W Hd. Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	59 60 61 62 63	04050-02 04004-04 48269 43063 04070-02	Retaining Ring, 3/4 Ext, "E" Stud Idler Pulley, Belt Clutch Spacer, Idler
40-10 Fiat 01-41 Hex 79 Cas 66-01 Qui 37-01 Spa	Washer, 5/8 W Hd. Bolt, 5/8 11 x 9 1/2 ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	60 61 62 63	04004-04 48269 43063 04070-02	Stud Idler Pulley, Belt Clutch Spacer, Idler
01-41 Hex 79 Cas 66-01 Qui 37-01 Spa	Hd: Bolt, 5/8-11 x 9-1/2 ter Assy. (Inicudes 19-28) ck Pin icer, Caster Yoke, 1/2" long	61 62 63	48269 43063 04070-02	Idler Pulley, Belt Clutch Spacer, Idler
79 Cas 66-01 Qui 37-01 Spa	ter Assy. (Inicudes19-28) ck Pin icer, Caster Yoke, 1/2" long	62 63	43063 04070-02	Spacer, Idler
66-01 Qui 37-01 Spa	ck Pin cer, Caster Yoke, 1/2" long	63	04070-02	• •
37-01 Spa	cer, Caster Yoke, 1/2" long			Eyeboil,Lh
		04		Evolution DU
00-01 Bro	nze Bearing	65	43025	Eyeboit,RH Turnbuckie
	ase Fitting, Str. 1/4-28	66	04022-02	Wing Nut, 5/16-18
	port Assy	67	43042	Sleeve, Clutch Rod
	ter Yoke	68	+30+2	Hex Hd. Bolt, 3/8-16 x 2-3/4
	eve. Caster Wheel Brg.	69	44003	Blade Clutch Rod, Lower
	Hd. Bolt, 1/2-13 x 5-1/2	70	43043	Sleeve, Clutch Rod
	Locknut 1/2-13	71	43043	Cotter Pin, 3/32 x 1
		*********		Washer, 33/64 x 1 x 16 ga.
			04062-01	Hair Pin, Large
			•	Hex Hd. Bolt, 3/8-16 x 1
			42057	Cam Link
				Belt Guide
				Part Removed From Illustration
*******				Part Removed From Illustration
***************************************			+	Part Removed From Illustration
		80	04041-085	Washer, 3/4 x 1-1/4 x .035
*****				Washer, 3/4 x 1+1/4 x .060
		81	48681	Seal, Cutter Spindle
		82	43217	Spindle Bushing
		83	43218	Sleeve, Cutter Spindle
		84	48677	Relief Fitting, Cutter Spindle
		85	•	Roll Pin, 1/8 x 1/2"
		86	•	Flat Washer, 5/16
	7-01 Whit 7-02 Tire 6-03 Inne 7-04 Rim 6-07 Ret 6-06 Roll 4-03 Gre 6-05 Hult Par 0 Disa Hex 7 Bell Was Was	 7-01 Wheel Assy. (Includes 13-14a, 29-34) 7-02 Tire Only Caster Wheel 6-03 Inner Tube only 7-04 Rim Pair, Caster Wheel 6-07 Retainer, Bearing, Caster wheel 6-06 Roller Bearing, Caster Wheel 4-03 Grease Fitting, 45' 1/4 28 6-05 Hub Assembly Part Removed From Illustration 0 Discharge Chute Hex Nut. 5/16-18 Elastic Stop Hex Head Bolt, 5/16-18 x 1" 7 Belt Cover Assy. (Includes decals) Washer, 25/64 x 15/16 x 12 ga Washer, 13/32 x 13/16 x 16 ga. 	7-01 Wheel Assy. (Includes 13-14a, 29-34) 72 7-02 Tire Only Caster Wheel 73 6-03 Inner Tube only 74 7-04 Rim Pair, Caster Wheel 75 6-07 Retainer, Bearing, Caster wheel 76 6-08 Roller Bearing, Caster Wheel 77 4-03 Grease Fitting, 45' 1/4-28 78 6-05 Hub Assembly 79 Part Removed From Illustration 30 30 0 Discharge Chute 81 Hex Nut. 5/16:18 Elastic Stop 81 Hex Head Bolt, 5/16-18 x 1" 82 7 Belt Cover Assy. (Includes decals) 83 Washer, 25/64 x 15/16 x 12 ga 84 Washer, 13/32 x 13/16 x 16 ga. 85 9-03 Wing Nut, 3/8-16 86	7-01 Wheel Assy. (Includes 13-14a, 29-34) 72 * 7-02 Tire Only Caster Wheel 73 04062-01 6-03 Inner Tube only 74 * 7-04 Rim Pair, Caster Wheel 75 42057 6-07 Retainer, Bearing, Caster wheel 76 44009 6-06 Roller Bearing, Caster Wheel 77 + 4-03 Grease Fitting, 45 1/4 28 78 + 6-05 Hub Assembly 79 + 9 Part Removed From Illustration 80 04041-085 9 Discharge Chute 80 04041-08 Hex Nut. 5/16-18 Elastic Stop 81 48681 Hex Head Bolt, 5/16-18 x 1* 82 43217 7 Belt Cover Assy. (Includes decals) 83 43218 Washer, 25/64 x 15/16 x 12 ga 84 48677 Washer, 13/32 x 13/16 x 16 ga. 85 *

* Common hardware which should be purchased locally. All bolts are Grade 5 plated, all other fasteners are zinc plated.



Ref.				. Part	
No.	Number	Description	No.	Number	Description
	!ATTENTI	ON LINES IN BOLD LETTERS INDICATE	40A	*	Washer, 13/32 x 13/16 x 16 ga.
	EXT	TRA IDENTIFICATION IS NEEDED!	41	04029-03	Wing Nut, 3/8-16
1	46087	Cutter Deck (Includes Decals)	42	48127	Pulley (Includes Items 43-44)
2	46400 -	Cutter Spindle Assy.	43	48141	Tapered Hub
3	04050-04	Retaining Ring, 1" ExtInverted	44	•	Hex Hd. Bolt, 1/4-20 x 3/4"
4	04050-07	Retaining Ring, 2-7/16 Int.bsc	45	•	Hex Nut; 5/8-11
5	48668	Tapered Bearing	46	48204	Belt, Blade Drive
6	41008	Spindle Housing	47	•	Hex Hd: Bolt, 3/8-16 x 5*
7	48114-02	Grease Fitting, Str., 5/16 Serrated	48	•	Hex Nut, 3/8-16
8	45391	Spindle Shaft	48A	*	Hex Nut, 3/8-16 Ctr Locknut
9	04041-02	Washer, 1-5/16 x 2-7/16 x 16 ga.	49		Lockwasher, Spring 3/8"
10	04063-08	Key, 1/4 x 1/4 x 2"	50	04004-02	Support, Belt Cover
11	43038 43201	Spacer, Cutter Blade - Small	51 52	45098	Belt Guide
12	43201	Spacer, Cutter Blade - Large	52 53	*	Hex Hd. Bolt, 7/16-14 x 1-1/4"
12		Hex Hd. Bolt, 5/16-18 x 1-1/4"	53 54	*	Washer, 15/32 x 59/64 x 16 ga.
14	•	Lockwasher, Spring, 5/16* Hex Nut, 5/16-18	55	•	Lockwasher, Spring, 7/16" Hex Nut, 7/16:14 Elastic Stop
14A	•	Hex Nut, 5/16-24	56	45423	Idler Prot
15	48108	Cutter Blade 18"	57	46434	Idler Arm Assy. (Includes Items 82 & 58)
	48185	Cutter Blade 18" Hi Litt	58	48100-02	Bronze Bearing
16	04040-10	Flatwasher, 5/8 W	59	04050-05	Retaining Ring, 1-1/8" Ext"E"
17	04001-41	Hex Hd. Bolt, 5/8-11 x 9-1/2"	60	04004-04	Stud
18	46079	Caster Assembly (Includes Items 19-28)	61	48269	Idler Pulley, Belt Clutch
19	04066-01	Quick Pin	62	*	Flatwasher, 3/8"
20	43037-01	Spacer, Caster Yoke, 1/2" long	63	48544	Rod End - L.H. Thd (Silver)
21	48100-01	Bronze Bearing	64	48464	Rod End - R H. Tha (Gold)
23	46082	Support Assembly (Includes Items 21, 82)	65	48590	Link, Turnbuckle
24	45006	Caster Yoke	66	•	Hex Nut, 3/8-24
25	43022	Sleeve, Caster Wheel Brg.	67	43042	Sleeve, Clutch Rod
26	04001-37	Hex Hd. Bolt, 1/2-13 x 5-1/2"	68	•	Hex Hd. Bolt, 3/8-16 x 2-3/4"
27	•	Hex Locknut, 1/2-13	69	44064	Blade Clutch Rod, Lower
28	48307	Wheel Assy. (Includes 13-14a, 29-34)	70	43043	Sleeve, Clutch Rod
29	48307-02	Tire Only Caster Wheel	71	•	Cotter Pin, 3/32 x 1"
NS	48006-03	Inner Tube only	72	•	Washer. 33/64 x 1 x 16 ga.
30	48307-04	Rim Pair, Caster Wheel	73	04062-01	Hair Pin, Large
31	48006-07	Retainer, Bearing, Caster Wheel	74	404407	Hex Hd. Bolt. 3/8-16 x 1*
32	48006-06	Roller Bearing, Caster Wheel	75	421107	Cam Link
33 34	48114-03 48006-05	Grease Fitting, 45' 1/4-28	76	44009	Belt Guide
-34 35	******	Hub Assembly	77 78	49694	Hex Head Bolt, 3/8-16 x 1-1/2"
36	45100	Hex Hd Bolt, 5/16-18 x 1*	79	48681	Seal, Cutter Spindle
30	+3100	Discharge Chute	80	43217 43218	Spindle Bushing
38	•	Hex Nut, 5/16-18 Elastic Stop	81	43218 48677	Sleeve, Cutter Spindle Relief Fitting, Cutter Spindle
30 39	46085	Hex Hd Bolt, 5/16-18 x 1" Belt Cover Assembly (Includes Decel)	81	400// *	Relief Fitting, Cutter Spindle
40	*	Belt Cover Assembly (Includes Decal) Washer, 25/64 x 15/16 x 12 ga.	83	•	Flatwasher, 5/16" Roll Pin, 1/8 x 1/2"
		Trasher, 25/04 X 15/10 X 12 ya.			Roll Pin, 1/8 x 1/2"

* Common hardware which should be purchased locally. All bolts are Grade 5 plated, all other fasteners are zinc plated.

48, 52, 61, & 72" CUTTER DECK



48, 52, 61, & 72" CUTTER DECKS

	. Part	Deservintion	40 50 0	4 70		. Part	Description	
No.	No.	Description	48 52 6	1 72	No.	No.	Description	48 52 61 72
1	46088	Cutter Deck (Includes decals)	x		47	48087	Belt, RH Blade Drive	x
1 1	46163 46119	Cutter Deck (includes decals) Cutter Deck (includes decals)	x	,	47 47	48285 48265	Belt, RH Blade Drive	x
1	46194	Cutter Deck (Includes decals)	^	x	47	48295	Belt, RH Blade Drive Belt, RH Blade Drive	x x
2	46400	Spindle Assembly, Tapered Bearing	g x x x		48	48089	Belt, Blade Drive	x
	04050-04	Retaining Ring, 1" Ext. Inverted		· ×	48	48286	Belt, Blade Drive	x
4 5	04050-07 48668	Retaining Ring, 2-7/16* Int basic		× .	48	48264	Belt, Blade Drive	×
	41008	Tapered Bearing Spindle Housing, Tapered Bearing		×	48 49	48296	Belt, Blade Drive Hex Hd. Bolt, 3/8-16 x 5"	x
7	48114-02	Grease Fitting Str. 5/16 Serr	× × ×		49	45098	Bell Guide	× × × ×
8	45391	Spindle Shaft, Taper Bearing	x x x	X	50	*	Hex Nut, 3/8-16	x
	04041-02	Washer, 1-5/16 x 2-7/16 x 16 ga.	x x x		50A	*	Hex Nut, 3/8-16, Centerlock	x x x x
10 11	04063-08 43038	Key, 1/4 x 1/4 x 2" Spacer, Cutter Blade - Small		c x c x	51 52	- 04004-02	Lockwasher, Spring, 3/8"	xxxx
	43201	Spacer, Cutter Blade - Large			52	45098	Support, Belt Cover Belt Guide	x x x x x x x x
12		Hex Hd Bolt, 5/16-18 x 1-1/4*			54		Hex Hd Bolt, 7/16-14 x 1-1/2*	ŶŶŶŶ
13		Lockwasher, Spring, 5/16"	X X X		55		Washer, 15/32 x 59/64 x 16 ga	x
14 14A	:	Hex Nut, 5/16-18 Hex Nut, 5/16-24	x x x		56		Lockwasher, Spring, 7/16*	* * * *
	48110	Cutter Blade 16-1/2"	x x x x		57 58	48181	Hex Nut, 7/16-14 Idler Pulley "V" Groove	x x x x x x x x
15	48108	Cutter Blade 18"	X	***********	59	04050-02	Retaining Ring, 3/4" Ext."E"	x x x x x x x x
	48111	Cutter Blade 21"	X		60	46081	Idler Arm Assy. (Includes 82 & 61)	xxxx
	48112 48184	Cutter Blade 24"	~	x	61	48100-05	Bronze Bearing	x x x x
	48185	Cutter Blade 16-1/2" Hi Lift Cutter Blade 18" Hi Lift	x x		62 63	43028 43077	J Rod, Idler Pull Spacer, J Pull Rod	XXXX
	48304	Cutter Blade 21" Hi Lift			64	04041-12	Washer, 3/8 x 1-1/2 x 16 ga	x x x x x x x x
16	04040-10	Flatwasher, 5/8" W	x x x	: x	65	•	Hex Hd. Boll, 3/8-16 x 2-1/4"	x
	04001-41	Hex Hd. Boit, 5/8-11 x 9-1/2"	x x x		· · · · · · · · · · · · · · · · · · ·	04004-04	Stud	x
18 19	46079 04066-01	Caster Assy, Comp. (incl. 19-28) Quick Pin	x x x x x x		66 67	46434	Hex Nut, 3/8-16 Elastic Stop	x x x x
*****	43037-01	Spacer, Caster Yoke, 1/2" thick	x x x	***********	68	40424	Idler Arm (Includes Items 97, 90) Flatwasher, 3/8"	× × × × × × × ×
21	48100-01	Bronze Bearing	x x x		69	48544	Rod End L.H. THD. (Silver)	× × × ×
	46082	Support Assy. (incl. 21-90)	x x x		70	48464	Rod End R.H. THD. (Gold)	x
24 25	45006 43022	Caster Yoke	XXX		71	48590	Link, Turnbuckle	x x x x
26	43022 04001-37	Sleeve, Caster Wheel Bearing Hex Hd Bolt, 1/2-13 x 5-1/2	× × × × × ×		72 73	43042	3/8"-24 Hex Nut Sleeve, Cam Clutch	× × × × × ×
27	•	Hex Locknut, 1/2-13	xxx		74		Hex Hd Bolt, 3/8-16 x 2-3/4*	× × × ×
28	48307	Wheel Assy (incl. 13-14, 29-34)	x x x		75	45329	Idler Pivot	x
29	48307-02	Tire only, Caster Wheel Inner Tube only, Caster Wheel	x x x		76	48269	Idler Pulley, Belt Clutch	x
30	48307-04	Rim Pair, Caster Wheel	× × × × × ×		77 78	44064 43043	Blade Clutch Rod, Lower Sleeve, Clutch Rod	xxxx
31	48006-07	Retainer, Bearing, Caster Wheel	xxx		79	*	Cotter Pin, 3/32 x 1"	x x x x x x x x
32	48006-06	Roller Bearing, Caster Wheel	x x x	(X	80	•	Washer, 33/64 x 1 x 16 ga.	xxxx
	48114-03	Grease Fitting 45 deg., 1/4-28		(X	81	04062-01	Hair Pin Large	x x x x
34 35	48006-05	Hub Assy. (incl. bolts) Hex Hd. Bolt, 5/16-18 x 3/4*	× × × * * *		82	-	Hex Hd Bolt, 3/8-16 x 1"	x x x x
	45029	Discharge Chute	× × ×		83 84	421107 45046	Cam Link Roller Shaft	×
36A	45100	Discharge Chute	x x		85	48038	Guide Roller	
37		Hex Nut, 5/16-18 Elastic Stop	* * *		86	*	Flat Washer, 11/32 x 11/16 x 16 ga.	
38	*	Hex Hd. Bolt. 5/16-18 x 1*	× × ×	. x	87	44008	Belt Guide	x x x x
	46086	Belt Cover (Includes decals) Belt Cover (Includes decals)	x x		88 89	*	Flatwasher, 3/4 x 1-1/4 x .035	x x x x
	46121	Belt Cover (Includes decals)	× ×	(90	48114-04	Hex Head Bolt, 3/8-16 x 1-1/2" Grease Fitting	x x x x x x x x
39	46312	Beit Cover (Includes decals)		x	91	48681	Seal	x x x x
40	*	Washer 25/64 x 15/16 x 12 ga.		(X	92	43217	Spindle Bushing	x x x x
	04029-03	Wing Nut, 3/8-16 Pulley (includes 43-44)	x x x		93	43218	Sleeve, Cutter Spindle	* * * *
	46127 48299	Pulley (includes 43-44) Pulley (includes 43-44)	x x x	x x	94 95	48677	Relief Fitting, Cutter Spindle	x x x x
43	48141	Tapered Hub	x x x		85 96	•	Roll Pin, 1/8 x 1/2" Flatwasher, 5/16"	x x x x x x x x
44	•	Hex Hd. Bolt, 1/4-20 x 3/4"	x x x		97	48100-02	Bronze Bearing	$\hat{\mathbf{x}} \hat{\mathbf{x}} \hat{\mathbf{x}} \hat{\mathbf{x}}$
45	40.446	Hex Nut, 5/8-11	x x x		98	04050-05	Retaining Ring 1-1/8 Ext. "E"	x
	48412 48302	Pulley, Double (Includes 43-44)	x x x		99	45037	Idler Pivot	x x x x
40	40302	Pulley, Double (Includes 43-44)		x				

* Common hardware which should be purchased locally. All bolt Grade 5 plated, all other fasteners zinc plated.

<u>SCAG</u>

ENGINE DECK



<u>SCAG</u>

ENGINE DECK

REF. NO.	PART NO.	DESCRIPTION	13KH 14KH	13KA 14KA	16BV	18KH	18KHE
1A	48674	Engine12.5HP Kohler (PS-1256)	x				
1A 1A	48357 48190	Engine 14HP Kohler (CV12.5T PS-1413)	x				
1A	48528	Engine 12.5HP Kawasaki (FB460-ES05) Engine 14HP Kawasaki (FC420V)		X X			
1B	48863	Engine 16HP Briggs Vanguard (303772 0345 02)		•	x		
18	48268	Engine 18HP Kohler (MV18 PS-58511)				x	
18	48862	Engine 18HP Kohler El. St. (MV18 PS-58558)					*
2 3	48059-01 48331	Cable Clamp. Transmission 5 speed (Peerless 700-026)				×	*
4	48231	Neutral Safety Switch	×	×	×	×	*
5	48122-01	Fibre Washer, thin	×	×	X	X X	X X
5A	48122-02	Fibre Washer, thick	x	x	x	x	x
6	48851	Coupler, Jackshaft	x	x	x	x	x
7 8	48114-01 48225	Grease Fitting, straight 1/4-28	x	x	×	x	x
8	48242	Jackshaft (fits SW32, 36, & 48) Jackshaft (fits SW52, 61, & 72)	X	X	x		
9	04063-09	Key, Hi-Pro #9	x	x	x	X X	X X
10	•	Hex Head Bolt, 5/16-18 x 3/4*	X	Ŷ	Ŷ	Ŷ	Ŷ
11	•	Lockwasher, Spring 5/16"	x	x	x	x	×
12	48305	Switch, Clutch Satety	×	x	×	×	×
13 14	•	Phillips Head Machine Screw, 10-32 x 1/2" Washer .219 x .500 x .049	X	X	×	×	X
15	•	Lockwasher, #10 Ext. Tooth	X X	X X	x x	x x	X
16	*	Hex Nut #10-32	x	Ŷ	x	x	x x
17	45090	Engine Deck (fits SW36, & 48)	x	x	A	~	Ŷ
17	45116	Engine Deck (fits SW52, 61, 72)	X		x	x	x
17 18	45128 42199	Engine Deck (fits SW32)		×			
10 19	42138	Rear Belt Guide, Engine Hex Nut, 5/16-18	×	×	×	×	×
20		Hex Head Bolt, 3/6-16 x 3-3/4*	×	×	×	×	x x
21	*	Hex Head Bolt, 5/16-18 x 1"	×		X	X	X
21A	*	Carriage Head Bolt, 5/16-18 x 1"	x	x	x	x	x
22	•	Washer, 25/64 x 15/16 x 12 ga.	x	x	x	х	x
23 24	48197 04063-07	Pulley, Transmission Input Key, Woodruff #9	x	x	x	х	x
2 4 25	04050-09	Retaining Ring, 5/8 Ext. Basic	×	X	× ×	X	X
26	48203	Belt, Transmission Drive	X	x X	×	x x	x x
27	48201	Idier Pulley, Transmission	, î	Ŷ	Ŷ	Ŷ	Ŷ
28	48196	Pulley, Traction Drive	x	×	×	x	
29	04063-03	Key, 1/4 x 1/4 x 2-1/2*	×	*	x	×	X
31 32	48127 48141	Pulley, Blade Drive, (Incl. 32-33) Taper Hub (for 48127)	x	x	×	x	X
33	+0141	Hex Hd Bolt, 1/4-20 x 3/4"	X X	x	x	x	
34	•	Lockwasher, Spring, 3/8"	x	x x	x x	X X	x x
35	*	Hex Nut, 3/8-16	x	x	x	x	^
36	42268	Belt Guide, Saddle (fits SW32, & 36)	X	x			
36A	42265	Belt Guide, Saddle (fits SW48, 52, 61, & 72)	x	x	X	x	x
37 37	•	Hex Head Bolt, Metric 8 x 30 (8 x 25 on SW32)		× .			
38 38	48192-01	Hex Head Bolt, 5/16-18 x 1-3/4 (1-1/4 on SW32-14BV) Wheel Asey (Incl. 38A-38B) (Itts SW36, 48, 52, 61, 72)	×		X	×	×
38	48253	Wheel Assy (Incl. 38A-38B) (fits SW32)		X X	X	×	X
38A	48192-01	Tire, 13 x 6.50-6, 2-Ply (fits SW36,48,52,61,&72)	x	x	x	x	x
38B	48192-03	Rim & Bearing Assy (Incl.39) (fits SW36,48,52,61,&72)	x	x	x	x	x
38C 38D	48253-02	Tire, 13 x 5.00-ply (fits SW32 only)		x			
38D 39	48253-03 48193-02	Rim & Bearing Assy (Incl 39) (fits SW32 only) Wheel Bearing NWC (OD 1.984 - 1.980)		X		00000000000000000	
39 39	48193-01	Wheel Bearing (OD 2.000 + 2.005)	×	X	×	×	x
40	04042-05	Washer, 1-1/16 x 1-3/4 x 12 ga	X X	x x	x x	×	X
40A	04041-14	Washer, 1-1/16 x 1-1/2 x 18 ga.	x	x	×	X X	X X
						<u>utan tan</u> ing sa	

* Common hardware which should be purchased locally. All bolts Grade 5 plated, all other fasteners zinc plated.

ENGINE DECK CONTINUED ON FOLLOWING PAGE

.

ENGINE DECK CONT'D

REF. NO.	PART NO.	DESCRIPTION	13KH	13KA	1001		
41	04050-08	Retaining Ring, 1" Ext"E"	<u>14NN</u> X	<u>14NA</u> X	<u>100 v</u>	<u>18KH</u>	18KHE
42	48200	Pulley, Wheel Drive	x	x	x	x	x
43	43088	Spacer, Wheel Pulley				x	x
44	48209	Brake Drum	X	x x	x	X	x
45	+0200	Hex Hd. Bolt, 5/16-18 x 1-1/2"	x x	x	X X	x	X
45 46 47	04003-03	Short Square Neck Crg. Bolt 3/8 16 x 2"		x x	×	×	×
47		Hex Nut, 5/16-18 Elastic Stop	Ŷ	×		*******	
	04003-05	Short Sq. Neck Crg. Bolt. 3/8-18 x 1-1/2"	•	· · · · · ·	×	×	××
	45145	Battery Box				×	×
50	42330	Bracket, Idler Pulley				×	
51 51	43063	Spacer			×	×	×
52	04041-11	Washer, 13/32 x 1-1/2 x 7 ga.			X	x	X
	42361	Battery Clamp			x	x	X
	42024	Battery Cover				x	X
	48099	Battery Cover Pad				X	X
	40033					×	X
50	•	Carnage Hd Bolt, 1/4-20 x 6* Hex Hd Bolt, 3/8-16 x 2*				x	x
55 56 63 64 65	48030				*	× .	×
04 CE	48030	Clamp, Fuel Hose			×	×	x
00 00		Pipe Cap			×	×	x
66 68 69	48254	Pipe 4" Nipple			×	×	×
00	04029-01	Plastic Wing Nut, 1/4-20				x	x
	48015	Battery				x	x
70 71	*	Hex Hd. Bolt, 3/8-16 x 1-1/4"				x	x
71	•	Hex Nut, 5/16-18	x	х	x	x	x
72 73		Lockwasher, 5/16"	X	X	X	<u> </u>	X
	44037	Belt Scraper	x	x	x	x	x
74	04012-04	SetScrew	*	×	×	x	x

* Common hardware which should be purchased locally. All bolts Grade 5 plated, all other fasteners zinc plated.

PEERLESS 700 4a Spacers on 17a 4 speed 606 Ø Ø et e

PEERLESS TRANSMISSION MODEL 700-026

REF.	PART		REF	. PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	770061	Case, Transmisson	20	778240	Gear, Spur (18 teeth)
2	772083	Cover, Transmission	23	780071	Bearing, Thrust
3	776217	Shaft, Output & Brake	27	780105A	Bushing, Flanged
4	778123A	Gear, Spur (25 teeth)	28	786081	Chain, Roller (No.41 chain,24 links)
	778124A	Gear, Spur (30 teeth)		780072	Washer, Thrust
6	778239	Gear, Spur (32 teeth)	30	780086	Bearing, Needle
7	778125	Gear, Spur (35 teeth)	31	780142	Bearing, Needle
8	778146A	Gear, Spur (37 teeth)	32	792035	Ring, Retaining
9	784266	Collar, Shift	33	780139	Washer, Thrust
10	786083	Sprocket (18 teeth)	34	788040	Ring, Retaining
11	786082	Sprocket (9 teeth)	35	784267	Rod & Fork Assy., Shift
12	776134	Shaft, Counter	36	792073	Screw, Flanged Hex Head, thrd fmg,1/4-20 x 1-1/4"
13	778154	Gear, Bevel (42 teeth)	37	792089A	Key
14	778145	Gear, Spur (12 teeth)	40	792077	Ball, Steel, 5/16"
15	778151	Gear, Spur (15 teeth)	41	792078	Screw, Set 3/8-16 x 3/8"
16	778126A	Gear, Spur (20 teeth)	42	792079	Spring
17	778127A	Gear, Spur (25 teeth)	43	780108	Washer, Thrust
18	776135	Shaft, Input	44	792001	"O" Ring
19	779176	Bevel Pinion, Input	46	788069	Seal, Square cut

HANDLE ASSEMBLY



HANDLE ASSEMBLY

REF.	PART		13KH	13KA			
NO.	NO.	DESCRIPTION			16BV	18KH	18KHE
		! ATTENTION LINES IN BOLD LETTERS INDICATE EXTRA IDENTIFI	CATION	IS NEE	DED !		
1	46084	Handle Assy. Fits SW 32, 36, 48	x	x			
1	46179	Handle Assy. Fits SW 52, 61, 72	x	x	x	x	x
2	+	Part Removed Form Illustration					
3 4	+	Hex Head Bolt, 3/8-16 x 1" Washer, 25/64 x 15/16 x 12 ga.	x	x	x	x	x
5	•	Hex Nut, 3/8-16 Etastic Stop	×	×	X	X X	×
6	48016	Solenoid					x
7		Hex Head Bolt 5/16-18 1-1/4*	×	×	x	X	x
8 9		Hex Nut 5/16-18 Elastic Stop Bolt, Hex Hd. 1/4-20 x 1/2*	×	×	×	X	×
10	44004	Control Rod, Steering	x	×	×	X X	× ×
11	04062-02	Hair Pin, Small	x	x	x	x	x
12	*	Cotter Pin, 3/32 x 3/4"	x	x	x	x	x
13 14	43032 04062-01	Swivel Joint	X	X	x	x	x
14	45091-01	Hair Pin, Large Killer Bracket, RH	X X	×	×	×	×
15A	45091-02	idler Bracket, LH	Ŷ	Ŷ	Ŷ	Ŷ	Ŷ
16	43092	tdier Sleeve	x	×	×	x	X
17	42283	Belt Guard	×	×	×	×	×
18 19	04004-01	Support Bell Guard Hex Nut, 3/8-16	×	×	×	x	××
20	*	Lockwasher, 3/8 Spring	x	x	x	x	x
21	-	Hex Head Bolt, 3/8-16 x 2-3/4"	x	x	x	x	x
22	*	Flat Washer, 1/4"	x	x	х	x	x
23 24	48309 48292	Bushing Rubber Pads, (upper)	x	x x	X X	x	x
25	40232	Hex Head Bolt 5/16-18 x 1-1/4*	X	× 	X	×	×
26	•	Hex Nut, 5/16-18	x	x	x	Ŷ	X
27	48051	Spring, Idler Tension	*	x	x	×	×
28		Washer, 5/16 - 3/8x7/8x 083	×	×	×	×	×
29 30		Her Nut: 5/16-18 Elastic Stop Lockwasher, 5/16 Spring	×	×	X X	x x	X X
31	*	Hex Hd. Bolt, 5/16-18 x 1"	x	x	x	x	x
32	44005	Brake Rod	x	x	x	x	x
33 34	45092 45093	Brake Lever	x	x	x	x	x
34 35	45093	Brake Link Brake Link Plate	×	×	×	X X	×
36	04024-01	Nut. 3/8 Push-on	X	Ŷ	Ŷ	. Ŷ	Ŷ
37	48114-01	Grease Fitting, Straight, 1/4-28	x	x	×	x	x
38	04050-01	Retaining Ring, 5/8 Ext-"E"	*	x	x	x	×
39 40	48210	Brake Band Hex Head Bolt, 3/8-16 x 2"	×	X	×	X	×
41	45094	Bell Crank Pivot Wid.	X	x x	x x	x x	×
42	*	Hex Hd. Bolt, 1/4-20 x 1"	x	x	x	x	x x
43	•	Lockwasher, 1/4 Spring	x	x	x	x	x
44	*	Hex Nut, 1/4-20	×	×	X	X	X
45 46	45277 44064	Bell Crank, Clutch Blade Clutch Rod, Lower	×	×	×	×	×
47	48202A	Bett, Wheel Drive	Ŷ	× ×	×	x x	X X
48	48198	Idler Pulley, Wheel Drive	×	×	x	Ŷ	x
49	48199	Pulley, Jackshalt (Incl. 50)	x	x	x	x	x
50	*	Setscrew, Hex Socket Knurl Cup Pt. 5/16-18 (nylock)	×	X	x	×	X
51 52	43098 48223	Spacer, Jackshaft Pulley Flange, Jackshaft Bearing	x	x	x	x	x
53	48223	Bearing, Jackshaft	x x	x x	x x	x x	x x
54	04050-09	Retaining Ring, 5/8 ExtBasic	x	x	×	x	x
55	•	Hex Head Bolt, 1/4-20 x 3/4"	x	×	×	x	x
56		Hex Head Bolt, 3/8-16 x 4"	x	×	×	x	x
57 58	48030-01	Clamp Part Removed From Illustration	×	x	×	×	x
		Farr menitivet Fight Hussialitt					

* Common hardware which should be purchased locally. All bolts grade 5 plated, all other fasteners zinc plate.

HANDLE ASSEMBLY CONTINUED ON NEXT PAGE

HANDLE ASSEMBLY CONT'D

REF.	PART		13KH	13KA			
NO.	NO.	DESCRIPTION	14KH	14KA 1	6BV	18KH	18KHE
		I ATTENTION LINES IN BOLD LETTERS INDICATE EXTRA IDENTIFICA	TION IS	NEEDEC	D !		
5 9	•	Carriage Bolt, 1/4-20 x 1"	x .	x	x	x	x
60	48205	Rubber Pad (lower)	· X	х.	x	x	x
61	48609	Key Switch	x	x	x	x	x
61 62	48017 48017-03	Key Switch Lockwasher, 5/8 Internal Tooth	x	×	×	×	× ×
94 63	48017-04	Hex Nut, 5/8-32	Ŷ.	2	Ŷ	x	ŷ
64	48017-02	Key, Ignition	x	x	×	x	x
65	48058-02	Fuel Hose (KH only) 1/4 ID x 14-1/8"			x	x	x
66	48059-01	Clamp, Fuel Hose	×		x	x	x
66A 67	48059-02 48057-02	Clamp, Fuel Hose (Kawasaki Only) Fuel Filter		x x			
67 68	48057-02	Fuel Hose, 1/4 ID x 17"	x	X .	x	x	x
69	48308	Valve, Fuel Shut Off	x	x	x	x	x
70	46174	Fuel Tank Assy. (Incl. Decals 23, 69)	×	x	¥	×	X
71	48311	Fuel Tank Cap	×	*	x	×	x
72 73	421239	Strap, Fuel Tank Machine Screw, 1/4-20 x 2 Round Hd, Slotted	×	x	×	×	×
73 74	42388	Nachano Sciew, 14-20 X 2 Houris Ho. Stoned Shifter Lever	x	x x	x x	x x	× ×
75	421241	Shifter Lever Assy.	X	X	×****	X	X
76	+	Part Removed From Illustration					
77	04043-01	Washer, 17/64 x 7/8 x 1/8 HT	x	x	x	x	x
78 79	04001-55 48028-01	Hex Head Bolt, 1/4-28 x 3/4 Grade 8	×	×	X	×	×
79 80	48394	Cable Tie Throttle Control	×	×	×	*	
80	48266	Throttle Control	•	•	x	x	x
81	•	Hex Head Bolt_1/4-20 x 2"	x	x	x	x	x
82		Hex Nut: 1/4-20 Elastic Stop	x	×	×	x	X
83 84	46090 48326	Blade Clutch Lever Assy. (Incl. 104)	x x	x	x	x	x
85	40320	Grip, Lever Hex Head Bolt, 3/8-16 x 1-3/4"	x	x x	X X	x x	x x
86	04041-10	Washer, 3/8 x 2 x 16 ga.	x	x	x	x	x
87	44002	Belt Clutch Rod, Upper	×	x	X	×	×
88	•	Hex Head Bolt, 5/16-18 x 2-1/4*	*	×	χ	×	×
89 50		Hex Head Bolt, 5/16-18 x 2"	×	*	X	X	×
90 91	48159 42257-01	Grip, Handle Neutral Latch, RH	×	x x	×	××	x x
91A	42257-02	Neutral Latch. LH	X	X		X	X
92	+	Part Removed From Illustration	x	x	x	x	x
93	04032-01	Curved Spring Washer	x	x	х	x	х
94	46089	Steering Lever Assy. (Incl. 84)	X			X	X
95 96	48050 48091	Spring, Compression Chake Control	×	×	×	××	X
97	•	Set Screw, 1/4-28 x 1/4" Knurled cup point	×	×	Ŷ	Ŷ	×
98	45141	Satety Interlock Hand Grip - RH	×	×.	x	x	x
99	45417	Operator Presence Hand Grip L.H. & Rod (For 16")	x	x			
99	45142	Operator Presence Hand Grip L.H. & Rod (For 20")	x		x	x	x
100	48021	Switch Interlock (gold colored)	x	x	x	x	x
101 102	04026-01 48313	Hex Nut, 9/16-18 spring steel Spring, Grip Return	x x	x x	x x	x x	x x
102	48312	Bushings	ŵ	ŵ	ŵ	ŵ	Ŷ
104	48144	Grip, Steering Lever	x	x	¥	x	×
NS	48611	Wire Hamess, electric start					×
NS	48610	Wire Harness, manual start	×	x	×	×	
NS NS	48527 48578	Wire Hamess, Kawasaki adapter Wire Hamess, Briggs Vanguard adapter		×	in series in the series of the		
		מוויביא אוויבא, אוויאא זמויאמט מעלוכו			X		

* Common hardware which should be purchased locally. All bolts grade 5 plated, all other fasteners zinc plate.



Ref.	Part		SW
No.	Number	Description	18KHE
1	48017	Key Switch	×
2	48297	Fuse Holder	×
2A	48298	Fuse 20 Amps	×
3	48016	Solenoid	×
4	48015	Battery may be purchased locally (U9-LM)	×
5 6	48611 48029-03	Wiring Harness Complete Battery Cable - 13-3/4" Red	x x
7 8	48029-10 48126	Battery Cable - 20* Black Rubber Boot	x x
9	48021	Switch, Handle Interlock N.C.	×
10	48305	Switch, Cutter Drive Interlock N.C.	X
11	48231	Switch, Neutral Interlock N.O.	x
12	48029-03	Battery Cable - 13.75" Red	x

WIRING DIAGRAM FOR MANUAL START



Ref. No.	Part Number	Description
1	48609	Switch, Ignition
2	48231	Switch, Neutrall Interlock, Normally Open
3	48305	Switch, Cutter Drive Interlock, Normally Closed
4	48021	Switch, Operator Presence, Normally Closed
5	48610	Wire Harness

REPLACEMENT DECALS



<u>SCAG</u>

If incorrectly used, this machine can cause severe injury. Those who use and maintain the 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.

LIMITED WARRANTY-COMMERCIAL EQUIPMENT

Any part of the Scag commercial mower manufactured by Scag and found, in the reasonable judgment of Scag, to be defective in materials or workmanship, will be repaired or replaced by an Authorized Scag Service Dealer without charge for parts and labor. This warranty is limited to the original purchaser and is not transferable. Proof of purchase will be required by the dealer to substantiate any warranty claims. All warranty work must be performed by an Authorized Scag Service Dealer.

This warranty is limited to the following specified periods from the date of the original retail purchase for defects in materials or workmanship:

- * Frame, deck and structural components including oil reservoirs 1 year
- * Wear items including drive belts, blades, hoses and tires are warranted for 90 days
- * Engines and electric starters are covered by the manufacturer's warranty period.
- * Drive system components are covered by the manufacturer's warranty period. (Excluding fittings, hoses, cooling system, oil reservoir, drive belts.) Drive systems are warranted by Scag Power Equipment in conjunction with the component manufacturer.
- * Batteries are covered for 1 year.
- * Any Scag product used for rental purposes is covered for 90 days.

The Scag mower, including any defective part must be returned to an Authorized Scag Service Dealer within the warranty period. The expense of delivering the mower to the dealer for warranty work and the expense of returning it to the owner after repair will be paid for by the owner. Scag's responsibility is limited to making the required repairs and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Scag mower.

This warranty does not cover any mower that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Technical Manual. The warranty does not apply to any damage to the mower that is the result of improper maintenance, or to any mower or parts that have not been assembled or installed as specified in the Technical Manual. The warranty does not cover any mower that has been altered or modified changing performance or durability. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which, in the reasonable judgment of Scag, are either incompatible with the Scag mower or adversely affect its operation, performance or durability.

Scag Power Equipment reserves the right to change or improve the design of any mower without assuming any obligation to modify any mower previously manufactured.

All other implied warranties are limited in duration to the one (1) year warranty period or ninety (90) days for mowers used for rental purpose. Accordingly, any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the appropriate one year or ninety day warranty period. Scag's obligation under this warranty is strictly and exclusively limited to the repair or replacement of defective parts and Scag does not assume or authorize anyone to assume for them any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Scag assumes no responsibility for incidental, consequential or other damages including, but not limited to, expense for gasoline, expense of delivering the mower to an Authorized Scag Service Dealer and expense of returning it to the owner, mechanic's travel time, telephone or telegram charges, rental of a like product during the time warranty repairs are being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the mower, loss of time or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages. So the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

PLEASE BE CAREFUL

1. Keep all shields in place, especially grass discharge.

2. Stop machine and remove spark plug wire to adjust or service.

3. When mechanism becomes clogged, stop engine before cleaning.

4. Keep hands, feet and clothing away from power-drive parts.

5. Keep off implement unless seat or platform is provided.

6. Keep others off.

FAILURE TO FOLLOW CAUTIOUS OPERATING PRACTICES MAY RESULT IN SERIOUS BODILY INJURY. WE WANT YOU TO CONTINUE TO ENJOY AND PROFIT BY USING OUR PRODUCTS.

OWNER REFERENCE				
MODEL NUMBER				
SERIAL NUMBER				
ENGINE MODEL	·····			
SERIAL NUMBER				