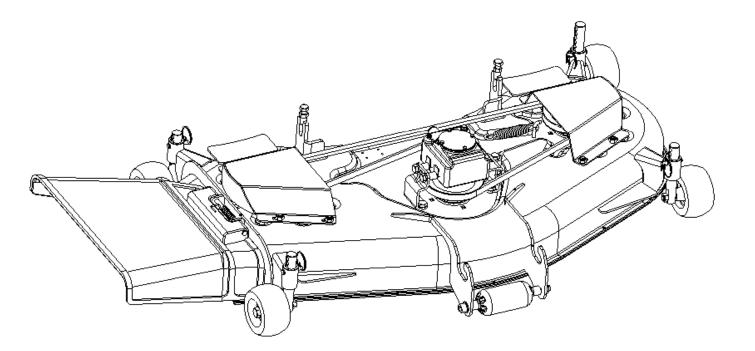
MODEL MID MOWER 48", 54" MOWER AND MOUNTING

INCLUDES OPERATOR'S MANUAL INSTALLATION INSTRUCTIONS AND PARTS CATALOG

MODEL NAME : M48, M54





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PREFACE

This manual is an integral part of the mower.

All operators must read the manual before operating the mower and must have access to this manual at any time.

The purpose of this manual is to provide information for the safe and correct use of the mower and the owner and or any operator of the mower must read this manual before operating the machine.

Every effort is made in this manual and verbally by selling Dealers to ensure the safe operation of this mower.

However as the actual operation is outside the control of TYM its Distributors or their Dealers, no liability of any kind is accepted for any injury or damage caused by incorrect operation of this mower.

Assistance in using this manual.

For any assistance in the use of this manual or issues not dealt with in this manual please contact your selling Dealer.

If additional copies of the manual are needed they can be purchased from your selling Dealer. For copies in a foreign language please ask your Dealer to make inquiry about the availability of a particular language

Machine Use

This machine is designed solely for use in customary lawn mowing operations. Use in any other way is considered as contrary to the intended use.

The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use. This machine should be operated, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times.

Setting fuel delivery beyond published factory specifications or otherwise overpowering will result in loss of warranty protection for this machine.

Any arbitrary modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

THE TRACTOR

- Read, understand and follow all instructions in the manual and on the machine before starting. Failure to do so could result in serious injury or death and equipment damage. Keep this manual in a safe place for future and regular reference and ordering service parts.
- 2. Read and understand all Safety Precautions in the Tractor Operator's Manual.
- 3. Allow only responsible operators familiar with the instructions to operate the machine. Know the controls and how to stop tractor engine and mower quickly in an emergency.
- 4. Tractor must be equipped with Rollover Protective System(ROPS) and seat belt for all mower operations foldable ROPS systems locked in the up position at all times when operating the mower. Falling off or overturning a tractor can result in death from being run over or crushed.
- 5. Always wear seat belt on Rollover protective System(ROPS)equipped tractors. Do not wear a seat belt if the tractor Rollover Protective System(ROPS) has been removed.
- 6. Wear personal protective equipment(PPE), such as, but not limited to, protection for eyes, ears, lungs, head, hair, hands and feet when operating, servicing, or repairing the equipment. Avoid wearing loose clothing or jewelry that may catch and entangle on entangle in moving parts.
- 7. Stop tractor engine, place in neutral, engage parking brake, lower mower deck to ground, stop the all moving parts, remove ignition key to prevent unauthorized person from starting tractor before servicing, repairing, or making adjustments to the equipment.
- 8. Never leave the tractor with the mower blades rotating, with the tractor in motion, or the engine running.
- 9. Use fender hand holds and steps when mounting and dismounting tractor to prevent falls. Keep steps and Operator's platform clean and free of debris.
- 10. All tractor three point hitch components and hardware must be tightened to proper specifications to avoid damage to tractor or mower prior to operation. Please review tractor Operator's Manual or consult your local dealer for proper torque and tightening specifications of tractor three point hitch components.
- 11. Move and turn tractor at low speeds. Avoid erratic operation and excessive speed.
- 12. Keep the tractor in gear when traveling down hill.
- 13. Do not mow near drop-offs, ditches, or embankments. The tractor could suddenly overturn if a wheel travels over the edge of a ditch, or if an edge caves in.
- 14. Add wheel ballast for stability when operating on slopes. Pay extreme care when operating on slopes to maintain stability.
- 15. Do not allow anyone but the operator on the tractor or mower.
- 16. Pay extreme caution when loading or unloading the tractor and mower from a trailer or truck

THE MOWER

- 1. Do not operate the mower unless it is rigidly attached to the tractor. Failure to do so could result in serious injury or death and equipment damage.
- 2. Make sure the locking spring on the shaft slides freely and make sure the balls are seated firmly in the groove of the PTO shaft.
- 3. Keep all shields and guards securely in place.
- 4. Never operate the mower with the discharge deflector in the raised position.
- 5. Stop tractor and mower immediately upon striking a foreign object. Exit tractor in proper technique and procedure. Inspect and repair any damage before continuing mowing.
- 6. Stop tractor in proper procedure and wait until the mower blades stop completely. before unclogging discharge chute, adjustments, or removing any grass or debris from mower deck.
- 7. Make sure all hardware is properly tightened before operating the tractor and mower. See torque chart specifications in this manual as well as the tractor manual. If none are available, contact your dealer for proper values.
- 8. Never adjust cutting height while tractor engine or mower is running.
- 9. Make sure all Safety Decals are attached, clean, and free of debris so they are readable. Replace if damaged or worn.
- 10. Wear gloves when installing belt. Be careful to prevent fingers from being caught between belt and pulleys.
- 11. Be careful when installing or removing belt from spring loaded idler. Springs store energy when extended and if released suddenly, can cause injury.

GENERAL OPERATION

- 1. Know your controls. Read this operator's manual and the manual provided with your tractor. Learn how to stop the tracor, the engine, and the mower quickly in an emergency.
- 2. Watch overhead clearances carefully before driving under power lines, bridges, tree branches, or when exiting or entering buildings. These situations may allow the operator to be struck or pulled from the tractor, which could result in serious injury or death.
- 3. Do not put hands or feet under the mower deck or near rotating parts.
- 4. Always wear safety glasses with side shields or safety goggles during operation.
- 5. Clear the area to be mowed of objects such as rocks, toys, wire, etc. which could be struck and thrown by the mower baldes.

A thrown object by the mower could travel in any direction and cause injury to the operator or a bystander. To help avoid injury, keep bystanders, children, and pets at least 75 feet from mower while in operation. Stop the mowing operation if anyone enters the area.

- 6. Watch for hidden hazards in the area being cut during operation.
- 7. Disengage the mower before shifting tractor into reverse and backing up. Always look down and behind before and while backing.
- 8. Stop the mower blades when crossing gravel driveways, walks or roadways.
- 9. Watch for traffic when operating near or crossing roadways.
- 10. Never directly discharge towards people, pets or property.
- 11. To avoid injury from thrown devris, never operate the mower when it is raised in the transport position.
- 12. Never allow riders on tractor.
- 13. Operate only daylight or with good artificial light.
- 14. Do not attempt to mow through unusually tall, dry grass or piles of dry leaves. Devris may build up on the mower deck or contact the tractor exhaust causing a potential fire hazard

SLOPE OPERATION

- WARNING- Slopes are a major factor leading to loss of control and tip over accidents, which can result in severe injury or death. All slopes require extra caution. If slopes are greater than 15 degrees, do not operate the mower on that area otherwise serious injury or death could result.
- 1. Add wheel ballast for stability when operating on slopes. Pay extreme care when operating on slopes to maintain stability.
- 2. Use extreme caution and reduce ground speed on slopes.
- 3. Do not stop, start, otherwise change directions suddenly on slopes. If the tractor tires lose traction, stop mower and proceed slowly straight down the slope.
- 4. To prevent loss of control and overturning the tractor and mower, always mow up and down slopes, never across.
- 5. Do not operate or transport on steep slopes.
- 6. Do not mow on wet grass. Reduced traction could cause silding on slopes.
- 7. Keep the tractor in gear when traveling down hill.

TRANSPORTATION

- 1. Always engage lift lockouts before transporting the mower.
- 2. Never allow riders on tractor.
- 3. Always use accessory lights and devices when transporting on a road or highway to warn operators of other vehicles. Check your local government regulations.
- 4. Be sure the slow moving vehicle(SMV) emblem is visible to the rear. If the SMV sign is worn, faded, or damage, replace immediately.
- 5. Use caution and reduce speed when transporting under adverse conditions, turning, or on inclines.
- 6. Do not operate PTO during transport.

OPERATION

WARING- Make sure Deflector Chute is installed and correctly functioning to prevent injury. Never operate mower with chute removed or raised out of operating position.

- **WARING**-To avoid injury never direct the discharge of material towards bystanders or allow anyone near the machine while in operation.
- **CAUTION** To avoid injury and damage, re-torque all fastening hardware, including blades end spindle retaining hardware after the first hour of operation.

Safe operation of the tractor and mower is the responsibility of the operator. Operator must be familiar with tractor and mower controls and how they function, and all safety precautions before starting operation.

The mower is designed as a finish cut mower.

Do not allow anyone but the operator on the tracotr or mower. Never allow tiders on tractor.

The deck cutting height is set by positioning the Clevis pin at the rear three-point Hitch area and allowing the Clevis pin to rest on the draw bar. Refer to "Cutting height. Adjustment" section of this manual for proper adjustment.

The anti-scalp wheels on each side of the mower deck can serve as a guide for mowing. When mowing, position the mower deck such that the anti-scalp wheel overlaps the edge of the grass previously cut. This will assure full mower cut coverage.

Mowing should be performed with the tractor engine operating at the recommended RPM. Do not mow at high ground speed. Operating at recommended RPM will insure proper blade speed for effective cutting and discharge of grass from the deck.

For best results, it is recommended that the first two passes around the area to be mowed has the discharge chute directed towards the center. After the first two passes have been completed, reverse direction to have the discharge chute pointed outward. This will give a better appearance to the lawn.

Blade sharpness will affect the appearance of the area cut. Dull or damaged blades will cause the grass to appear torn, rather than cut cleanly.

Do not cut the grass too short. Short grass will promote weed growth and yellows in dry weather. Allow grass to grow longer in hot, dry conditions. The additional length reduces heat build-up, preserves needed moisture and protects the grass from heat damage.

Mow often. Do not allow the grass to get too tall. Mowing areas with tall grass may require primary cutting at the maximum height. After completing the mowing operation at the maximum height, the area can be recut with the mower set at the desired height.

OPERATION

WARNING- Make sure Deflector Chute is installed and correctly functioning to prevent injury. Never operate mower with chute removed or raised out of operating position.

- **WARNING**-To avoid injury never direct the discharge of material towards bystanders or allow anyone near the machine while in operation.
- **CAUTION** To avoid injury and damage, re-torque all fastening hardware, including blades end spindle retaining hardware after the first hour of operation.

At certain times of the year and under some conditions, the mower may leave streaks of uncut grass. The general cause is tall grass and weeds. With this type of condition, it may be necessary to make a second pass over the cut area to get an even cut.

Cutting off too much at one time shocks the plant's growth system and weakens the grass plants. A good guideline to follow is the 1/3 rule: cut no more than one third of the grass height, and never more than 1 inch at a time.

Mow when the grass is 3 to 4 inches tall.

The time of day and condition of the grass will affect the results you obtain when mowing. Mow at the time of day when the grass is cool and dry. Late afternoon or early evening will provide the most ideal conditions.

Do not mow when the grass is wet or heavy with dew.

Wet grass can build up on the underside of the deck, creating an imbalance through the blades and spindles, causing possible damage to the mower deck belt. Wet grass also leaves unsightly clumps on the lawn.

Should the mower deck become plugged, raise deck, shut off engine, set parking brake, and lock the deck in the transport position.

Clean the underside of the mower deck using a scraper.

Operate the mower only in daylight or with good artificial light.

MAINTENANCE

- 1. Protect your eyes- Wear Safety Glasses.
- 2. Never run the tractor and mower inside a closed area. Engine exhaust fumes can be lethal.
- 3. Always engage lift lockouts before servicing the mower.
- 4. Before performing any service work, make sure hoists, floor jacks, and jack stands are in good working order and properly rated to support the tractor and mower.
- 5. Do not work under the tractor or mower unless they are secured by a hoist and jack stands. Never place any body part underneath equipment or between moveable parts even after tractor has been turned off. Hydraulic system leak downs, hydraulic system failures, mechanical failures, or control lever movement can cause mower and tractor components to drop or rotate unexpectedly and cause serious injury or death.
- 6. Avoid injury, do not adjust, service, clean, or unclog the mower when the tractor engine is running.
- 7. Frequently check the mower blades. They must be sharp and free of nicks, cracks and securely fastened.
- 8. Do not handle mower blades with bare hands. Wear leather gloves or wrap blades in the area Where they will be handled. Improper handling may result in serious injury.
- 9. Your dealer can supply genuine replacement blades. Non-genuine blades may not meet original equipment specifications and may be dangerous if installed.
- 10. To reduce fire hazard, keep the tractor and mower free of grass, leaves, or other debris build up. Debris may build up on the mower deck or contact the tractor exhaust causing a potential fire hazard.
- 11. Never alter safety devices. Check their proper operation regularly. Use all guards as instructed in this manual.
- 12. It is not recommended to use a pressure washer to clean the mower assembly. High pressure water may cause damage to spindles, pulleys, belts, or bearings, shortening life and reducing serviceability.

MAINTENANCE

1. FILLING DIAGRAM AND SERVICE INTERVALS

Filling diagram shows the maintenances required and the intervals.

Follow this checking schedule according to each indices to the satisfactory operation of the machine

| No. | Check Point | Ne | After | Each | Each | Each | Every | Every | Referenc |
|------|---|----|----------------|------|------------|--------|-------------|-----------|----------|
| INO. | Check Point | w | first 10hrs | | 150hr | a year | start of | end of | page |
| 1 | Gear box oil leakage check | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | Gear box oil check | | 0 | 0 | 0 | 0 | 0 | | |
| 3 | Gear box oil change | | | | \bigcirc | 0 | | | |
| 4 | Gear box oil seal change | | | | | 0 | | | |
| 5 | whether blades are tightened up or not | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6 | Blade wear check | | | 0 | 0 | 0 | 0 | 0 | |
| 7 | Blade balance and appearance check | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8 | All hardware check | 0 | | 0 | 0 | 0 | 0 | | |
| 9 | whether all pins are in place or not | 0 | | 0 | 0 | 0 | 0 | 0 | |
| 10 | Greasing check | | | | | | | | |
| | ◆ Pulley holder | 0 | 0 | 0 | 0 | 0 | Ο | | |
| | Belt tension pulley | 0 | 0 | 0 | 0 | 0 | Ο | | |
| | Belt tension arm | 0 | 0 | 0 | 0 | 0 | Ο | | |
| | ♦ Rear link shafts | 0 | 0 | 0 | 0 | 0 | Ο | | |
| | ◆ Universal Joint | 0 | 0 | 0 | 0 | 0 | Ο | | |
| | | | | | | | | | |
| 11 | Front and rear wheel wear check | | | | 0 | 0 | 0 | | |
| 12 | Front roller wear check | | | | 0 | 0 | 0 | | |

IMPORTANT

◆ The schedule indicated by "©" must be done after first 50 hours previously.

SAFETY DECALS

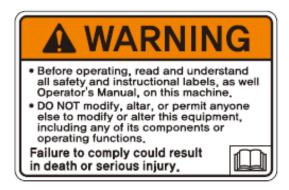
The safety of the operator was the prime consideration on the design of the mower.

Proper shielding, convenient controls, simple adjustments, and other safety features have been built into this implement.

The following decals are located on the mower deck. Keep decals clean and replace them immediately if they are missing or damaged. contact your dealer for replacements.



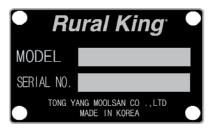
Part NO : 9400-500-001-0 Located on RH and LH Belt Shields



Part NO : 9400-500-002-0 Located on Deck Weldment



Part No : 9400-500-005-0 Located on Side Cover



Part No : 8550-500-007-0 Located on Deck Weldment



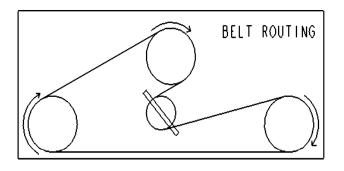
Part NO : 9400-500-007-0 Located on Front of Deck Weldment

INFORMATIONAL DECALS

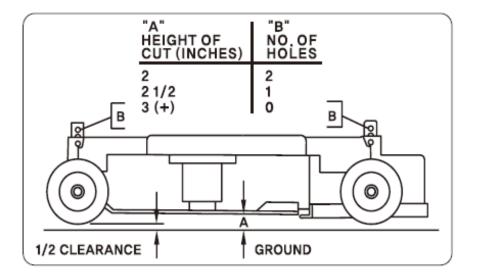




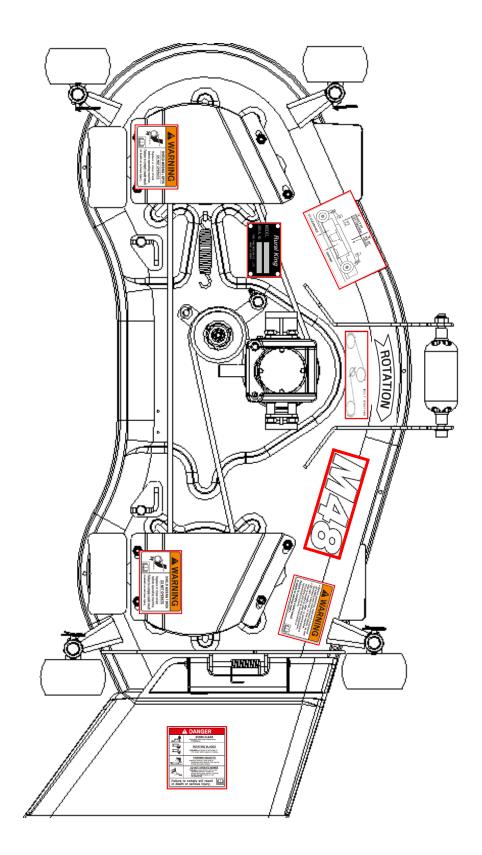
Part NO : 9380-500-011-0 Located (Located on Deck Weldment Part NO : 9385-500-008-0 Located on Deck Weldment



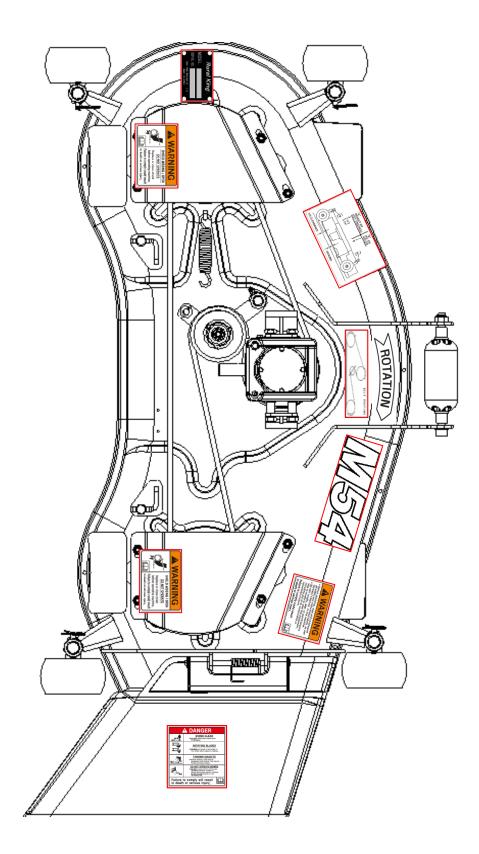
Part NO : 9380-500-003-0 Located on Front of Deck Weldment



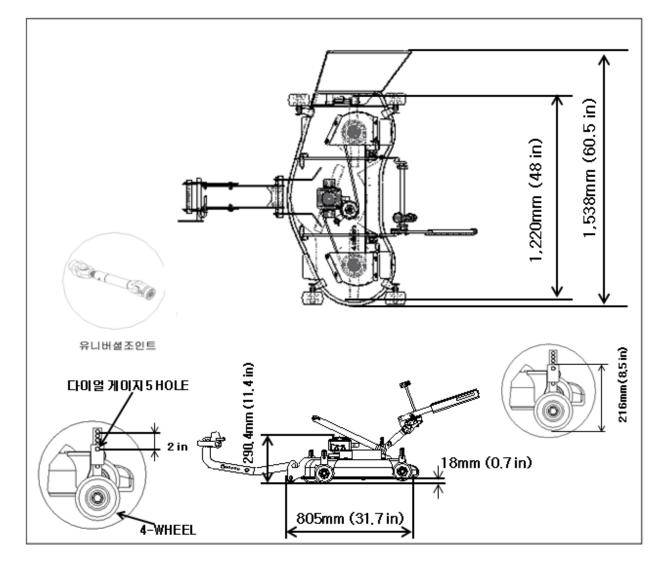
Part NO : 9400-500-004-0 Located on Right of Deck Weldment INFORMATIONAL DECALS



INFORMATIONAL DECALS

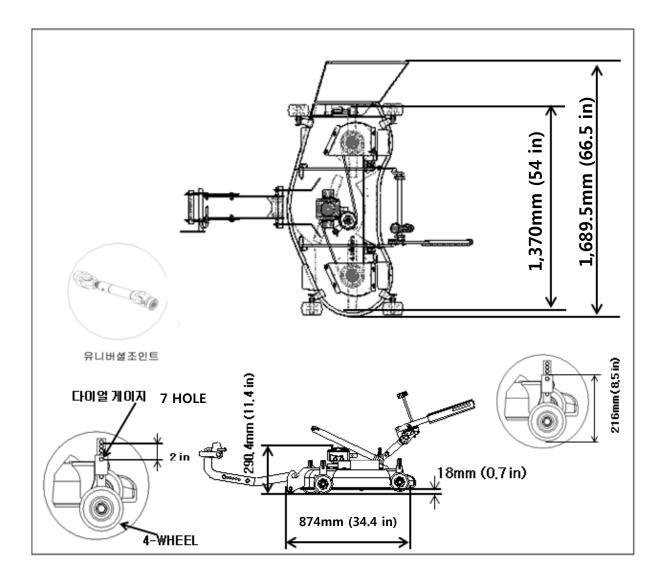


MID MOWER SPECIFICATION



| MC | DDEL | M48 | MODEL | M48 |
|--------------|----------------------|------------------|--------------------------|------------|
| T | YPE | Side Discharge | Applicable Tractor | RK19 |
| Mountin | g Method | Parallel Linkage | Number of Blades | 3 EA |
| | Length (mm) | 31.7 | Blade tip Velocity (fpm) | 14,331 |
| Dimensions | Width (mm) | 60.5 | Blade Length (in) | 16.5 |
| | Height (mm) | 11.4 | HP rating | 18~20 |
| Working | Width (in) | 48 | Deck Thickness (in) | 0.13 |
| Cutting | Height (in) | 1~4 | Weight (lb) | 176 |
| Transport | Height (in) | 5.6 | Universal Joint (mm) | Ø21.6X470L |
| Lift Link | age Type | Lower Link Lift | Wheel | 4 EA |
| Adjustment | of Increment | Dial Gauge | Assistant Wheel | 1 EA |
| | Hole | 7 EA | Belt | V-Belt |
| Wheel Height | Gab between Hole(in) | 0.5 | Color | RED |
| | Total Gab(in) | 3 | | |

MID MOWER SPECIFICATION



| MODEL | | M54 | MODEL | M54 |
|--------------|----------------------|------------------|--------------------------|------------|
| T | YPE | Side Discharge | Applicable Tractor | RK19 |
| Mountin | g Method | Parallel Linkage | Number of Blades | 3 EA |
| | Length (mm) | 34.4 | Blade tip Velocity (rpm) | 14,601 |
| Dimensions | Width (mm) | 66.5 | Blade Length (in) | 18.5 |
| | Height (mm) | 11.4 | HP rating | 18~20 |
| Working | Width (in) | 54 | Deck Thickness (in) | 0.13 |
| Cutting | Height (in) | 1~4 | Weight (lb) | 186 |
| Transport | Height (in) | 5.6 | Universal Joint (mm) | Ø21.6X470L |
| Lift Link | age Type | Lower Link Lift | Wheel | 4 EA |
| Adjustment | of Increment | Dial Gauge | Assistant Wheel | 1 EA |
| | Hole | 7 EA | Belt | V-Belt |
| Wheel Height | Gab between Hole(in) | 0.5 | Color | RED |
| | Total Gab(in) | 3 | | |

LUBRICATION

NOTICE: It is not recommended to use a preassure washer to clean the mower assembly. High pressure water may cause damage to spindles, pulleys, belts, or bearings shortening life and reducing serviceability.

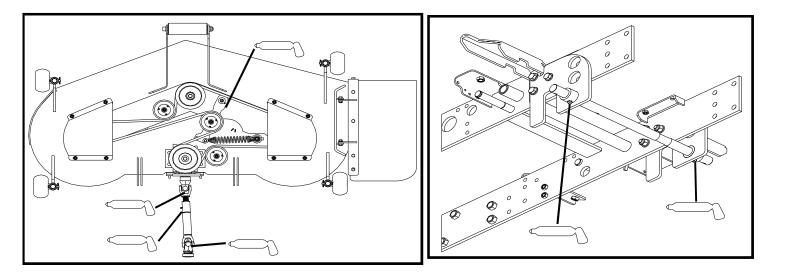
Life of the mower depends upon the maintenance given. Proper lubrication is very important. Always lubricate the deck and lift components before operation.

Always wipe the fittings to be lubricated with a clean cloth before greasing. Dirt injected into the fitting will cause damage to the machined parts.

Use SAE Multi-purpose lithium base grease on all lubrication locations shown below. Remember to wipe away excess grease, which has built up around parts.

Lubricate grease fittings after every 50 hours of operation.

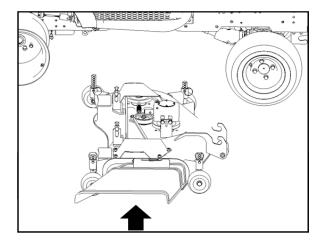
Miscellaneous working parts not porvided with lubrication fittings should be oiled daily with a good grade of lubricating ail.

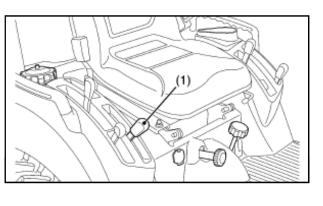


SETTING MOWERS



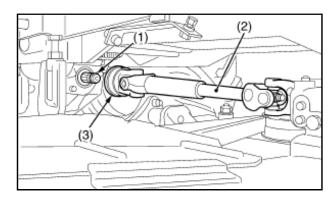
- Park the tractor on a firm, flat and level surface, set the parking brake, stop the engine and remove the key.
- 1. Start the engine and the hydraulic lever rearward to raise the mower rear link to the highest position.
- 2. Stop the engine and remove the key.
- Push the mower under the tractor from right side or ride the tractor and cross over the mower.
 (1) Hydraulic Control Lever

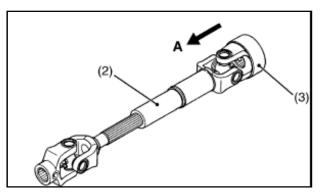




Universal Joint

- 1. Pull back the coupler (3) of the universal joint (2).
- 2. Push the universal joint (2) onto the mid-PTO shaft (1), until the coupler locks.
- 3. Slide the universal joint back and forward to make sure the universal joint is locked securely.
- IMPORTANT
- Finally, tug on the universal joint to make sure it is locked on the PTO shaft.





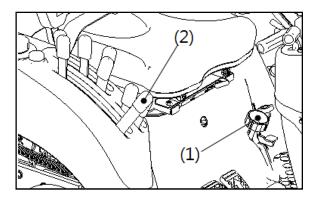
Rear Link

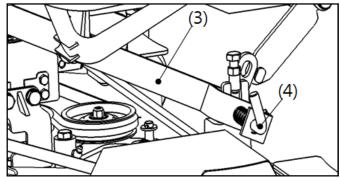
- 1. Set the cutting height control dial (1) to zero inch position.
- 2. Operate the tractor's hydraulic control lever (2) forward to lower the mower rear links (3).

Attach the rear link (3) to the mower with the L-pins (4).

- (1) Cutting Height Control Dial
- (2) Hydraulic Control Lever

(3) Rear Link(4) L-pin





Front Link

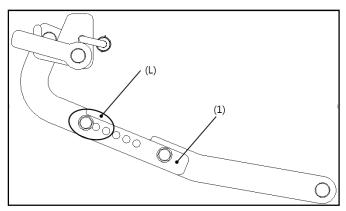
1. Hook the front link (1) to the front bracket groove (2) as shown in the figure.

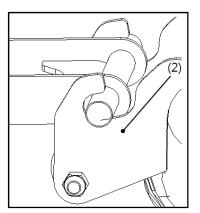
(Reference)

Make sure the position (L) of the front link (1) is 1st or 2nd hole.

(1) Front Link







Mounting Front Link

- 1. Position the front lever to the front link bracket.
- 2. Pull and lock the U pin. Then lower the front lever.
- 3. Hook the front link to the lever fulcrum, and lift the front lever.
- 4. Release the U pin to lock the front lever.
 - NOTE
- When hooking the front link to the lever fulcrum, normal position of the lever fulcrum groove is open to downward.
 IMPORTANT
- Check that the front lever is locked securely with the L pin.
 - (1) U pin

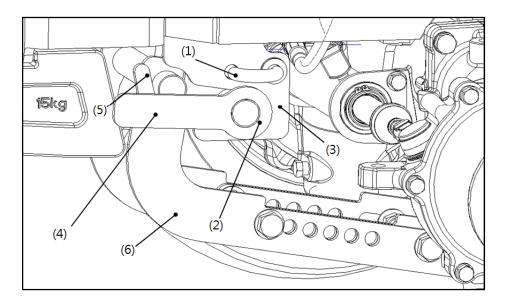
(4) Front Lever

(2) Lever Fulcrum

(5) Lever Fulcrum Groove

(3) Front Link Bracket

(6) Front Link



MOWER ADJUSTMENT



- Park the tractor on a firm, flat and level surface and set the parking brake.
- Stop the engine, remove the key, and allow the blades to stop before making adjustments.
- Wear heavy gloves or wrap end of blade with a rag when you handle blades.
- Before starting the engine, set the PTO clutch lever to off position and range gear shift lever to the neutral position.

Adjusting Mower Link

- 1. Tire pressure must be correct.
- 2. Move the hydraulic control lever rearward to raise the mower to the highest position.
- 3. Stop the engine and remove the key.
- 4. Adjust the left side links with bolt so that the clearance L is as follows.

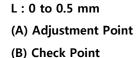
| Clearance (L) between | Factory cross | 0 to 0.5 mm |
|-----------------------|---------------|---------------|
| stopper and rear link | Factory spec. | 0 to 0.01 in. |

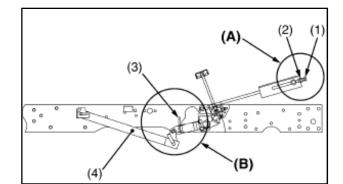
(1) Bolt

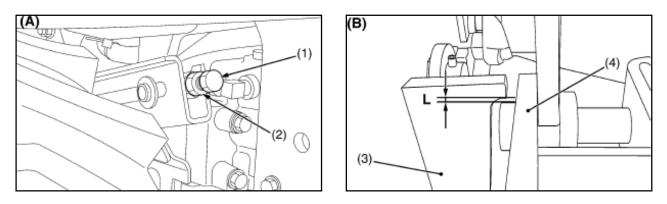
(2) Lock Nut

(3) Stopper

(4) Rear Link

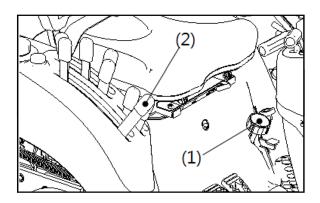


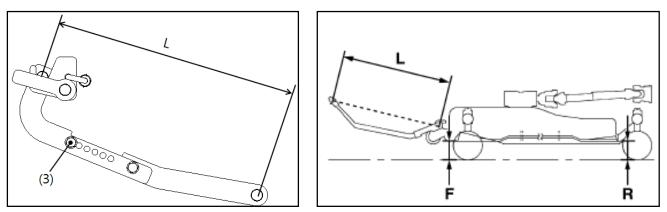




Adjusting Front and Rear Cutting Height

- 1. Tire pressure must be correct.
- 2. Make sure the level of the mower blades is adjusted as shown below. Then tighten the lock nuts securely.
- 3. Turn the cutting height control dial to "2.0" and the anti-scalp roller's height to keep clearance between rollers and ground from 6 to 13 mm (0.25 to 0.5 in.).
- 4. Turn right blade by hand parallel to direction of travel.
- 5. Adjust (L) of front links with lock nuts so that A is 0 to 5 mm (0 to 0.2 in.) A = (R)-(F).
- 6. If the difference between front tip and rear tip of blade is not within the factory specification, adjust the length L of front link with bolt (3). The height of rear blade tip R should be bigger than the front.





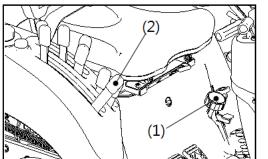
Adjusting Left and Right Cutting Height

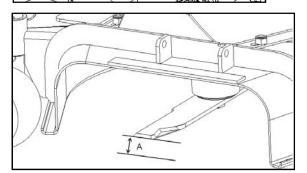
- 1. Tire pressure must be correct.
- 2. Operate the hydraulic control lever (2) rearward to raise the mower deck to the highest position.
- 3. Stop the engine and remove the key.
- 4. Turn the cutting height control dial to the desired height.
- 5. Set the anti-scalp roller's height to keep clearance between rollers and ground from 6 to 13 mm (0.2 to 0.5 in.).
- 6. Lower the mower deck by moving the hydraulic control lever forward.
- 7. Turn left blade by hand parallel to tractor axle and turn right blade parallel to axle to measure from the outside blade tip at L and R to the level surface.
- 8. The difference between measurement should be less than 3 mm (0.12in.).
- 9. If the difference between measurement is more than 3 mm (0.12 in.), loosen the lock nut of the left side.
- 10. Adjust the cutting height fine turning bolts so that the difference between measurement L and R is less than 3 mm (0.12 in.). Then lock the nut.

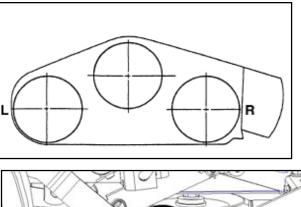
| Difference (L-R) between left tip and right tip of blade | Factory spec. | Less than 3 mm 0.12 in. |
|--|---------------|----------------------------|
|--|---------------|----------------------------|

- (1) Cutting Height Control Dial
- (2) Hydraulic Control Lever
- (3) Cutting Height Fine Turning Bolt
- R : Right Blade Measurement Position A : Blade Height

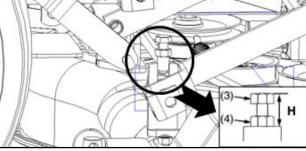
(4) Lock Nut







L : Left Blade Measurement Position

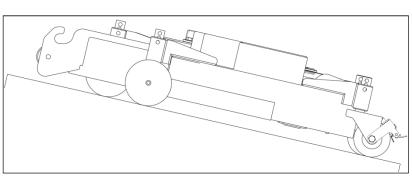


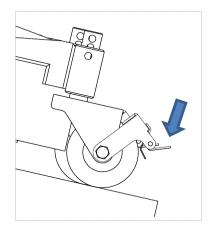
LONG TERM STORAGE

The correct way of storing the mower on the slope

Please use the mower wheel brake.

※ Do not use the wheel brake during operation





WINTER STORAGE

After the grass cutting season it is recommended that you perform the following procedures.

- 1. Remove the mower belt covers.
- 2. Slack the mower drive belt.
- 3, Clean all pulleys and wipe oil with a dry cloth.
- 4. Clean all grass and dirt from the mower deck.

IMPORTANT

Clean pulleys and reinstall the drive belt just prior to the grass cutting season.

METRIC FASTENER(ISO) TORQUE CHART

Note: Use these torques. Unless special torques are specified. Values are for UNF thread fastener. plated or un-plated as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite. moly-disulphide or other extreme pressure lubricant is used.

| ISO Class No. | | 8. | 8 | | | | 10.9 12.9 | | | | | | |
|--|------|------|------|------|------|------|-----------|------|--|-------------------------|------|-----|--|
| Bolt head identification (see note 1) | | | | | | | | | | | | | |
| Bolt size | LB | FT | N | м | LB | FT | N | м | LE | FT | N | M | |
| Boit <i>s</i> ize | Min | Maz | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | |
| M4 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 5 | | | | | |
| M5 | 5 | б | 6.5 | 8 | 7 | 8 | 9.5 | 11 |] | | | | |
| M6 | 8 | 9 | 10.5 | 12 | 11 | 13 | 15 | 17.5 | 1 | | | | |
| M8 | 19 | 23 | 26 | 31 | 27 | 32 | 37 | 43 | Because of the low ductil | | | - | |
| M10 | 38 | 45 | 52 | 61 | 54 | 64 | 73 | 87 | these fasteners, the torque rais to be determined individu | | | | |
| M12 | 66 | 79 | 90 | 75 | 93 | 112 | 125 | 150 | for eac applica | | | | |
| * M11 4 | 106 | 127 | 144 | 172 | 149 | 179 | 200 | 245 | Asag | eneral rub specified | | | |
| M16 | 160 | 200 | 217 | 271 | 230 | 280 | 310 | 380 | fastene | us can be | used | | |
| M20 | 320 | 380 | 434 | 515 | 450 | 540 | 610 | 730 | satisfactorily on 12.9 fastene *M14 is not a preferred Size | | | | |
| M24 | 500 | 600 | 675 | 815 | 780 | 940 | 1050 | 1275 | | | | | |
| M30 | 920 | 1100 | 1250 | 1500 | 1470 | 1770 | 2000 | 2400 | 1 | | | | |
| M36 | 1600 | 1950 | 2175 | 2600 | 2580 | 3090 | 3500 | 1200 | 1 | | | | |

REPLACEMET

DANGER Avoid Injury - A worn or demaged blade can break, and a piece of the mower blade could be throw into the operator's or bystander's area, resulting in serious injury or death

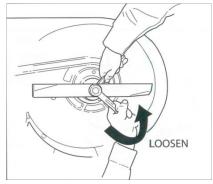
1. BLADE REMOVAL

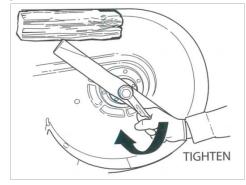
Warning - Do not work under a raised mower deck unless it is securely supported by a hoist or jack stands.

Warning - Avoid injury when handing blades as they are sharp, wear leather gloves or protective wrap the blades.

Remove the blades using a wrench to loosen bolt securing the blade.

A block of wood must be placed between the deck housing and the blade to assist in removal of the bolt.





2. BLADE INSTALLATION

When reinstalling the blade note orientation, the "wing" must be pointing upward the top of the deck.

3. BELT REPLACEMENT

The mower deck belts should be replaced every 200 hours of mower operation, or anytime the belts shows sign of wear, cracking, or other damage.

Remove hardware securing the Left/Right Hand Belt cover to the deck.

Caution - The Idler Arm with Idler Pulley are under spring tension. To prevent possible injury, use caution we handling the Idler Arm assmbly.

Place a "Breaker Bar" in the square hole provided in the Idler Arm. Carefully push the Idler Arm towards the left hand side, away from discharge opening to relieve tension from the belt. Slip the belt off of the Right has Spindle Pulley, then carefully release the Idler Arm.

Remove the belt from the Center Spindle Pulley. Remove the belt from the first fixed Idler Pulley. Remove the belt from the Left Hand Spindle Pulley. Remove the belt from the Idler Arm Pulley. Remove the belt from the Gear Box Pulley. Remove the belt from the Second Idler Pulley. Remove the belt from the deck and discard.

REPLACEMET

4. BELT REPLACEMENT

Route the "bakcside" of the belt around the fixed Idler Pulley near Gear Box.

Route belt around Gear Box Pulley

Route the belt around the Idler Arm Pulley. The "backside" of the belt will be marking contact with the Arm Pulley.

Route belt around the Left Hand Spindle Pulley.

Route the "bakcside" of the belt around the fixed Idler Pulley near Center Spindle.

Route belt around the Center Spindle Pulley.

Make certain the belt is properly engaged in each pulley, then place a "Breaker Bar" in the square hole prov in the Idler Arm. Carefully push the Idler Arm towards the left hand side, away from discharge openig th relik tension. Slip the belt over the Right Hand Spindle Pulley, then carefully release the Idler Arm. Reinstall Right Hand and Left Hand Belt covers to the deck

5. GEAR BOX

Caution - Prior to operation, make sure the gear box contains the correct amount of oil

If under filled or overfilled, damage to the gear box or personnel injury may result.

The lubricant level should be checked each 24 hours of operation. After the first intial 50 hours of operation, drain the oil and refill to the proper level, Thereafter, oil changes should take place after every 250 hours of operation.

Removed plug located on side of gear box located on the side opposite of the fixed Indler Pulley

Correct oil level is to the center line of th drive shaft

PART ILLUSTRATIONS

GENERAL INFORMATION

Illustrations

The individual parts in their normal relationship to each other. Reference numbers are used in the Illustrations. These numbers correspond to those in the "Number" column and are followed by the quantity required and description.

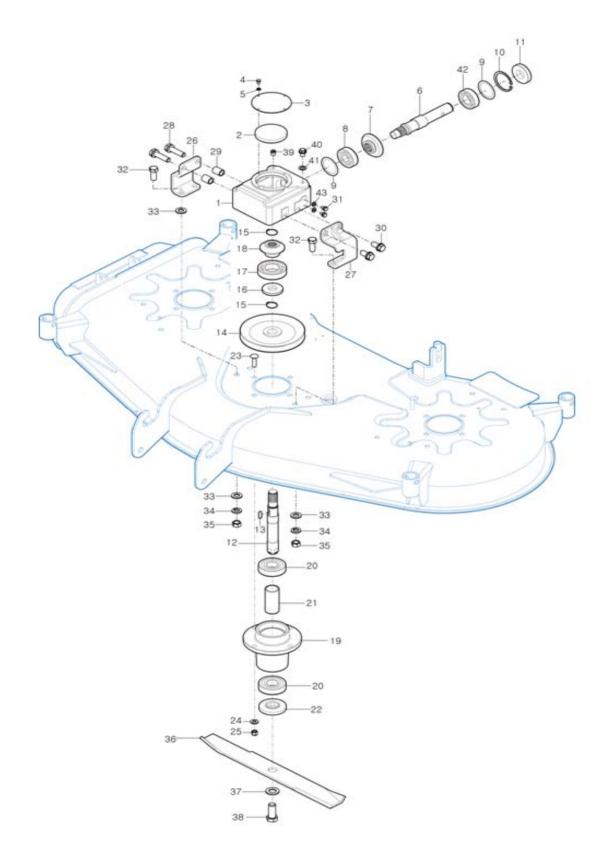
Directional Reference

"Right hand" and "left hand" sides are determined by standing at the rear of the unit and facing in the direction of forward travel.

Part Order

Orders must give the complete description, correct part number, the total amount required, the product model, all the necessary serial numbers, the method of shipment and the shipping address.

MOWER DECK SERVICE PARTS



MOWER KIT SERVICE PARTS BREAKDOWN

| 001 | 001 | 93802001100 | GEAR CASE | | 1 | |
|-----|-----|---------------|---------------------|---------|-----|--|
| 001 | 002 | 14254330180 | CAP , 72 | | 1 | |
| 001 | 003 | 93802001800GB | CAP , PLATE | | 1 | |
| 001 | 004 | V2004605008 | BOLT , HEX | M5X8 | 4 | |
| 001 | 005 | V4011600050 | WASHER , SPRING | M5 | 4 | |
| 001 | 006 | 93802001400 | SHAFT , IN | | 1 | |
| 001 | 007 | 93802001200 | SP BEVEL GEAR , 19T | 19T | 1 | |
| 001 | 800 | V6001106304 | BEARING , BALL | 6304 | 1 | |
| 001 | 009 | 93802001900 | SHIM | | 1~2 | |
| 001 | 010 | V7051400520 | C-RING , HOLE | 52 | 1 | |
| 001 | 011 | V7441255210 | SEAL , OIL/D | D255210 | 1 | |
| 001 | 012 | 93802001500 | SHAFT , OUT | | 1 | |
| 001 | 013 | 93802001600 | KEY , 5X5X20 | 5X5X20 | 1 | |
| 001 | 014 | 94002000100 | BLADE PULLEY | | 1 | |
| 001 | 015 | V7041400220 | C-RING , SHAFT | 22 | 2 | |
| 001 | 016 | V7441204707 | SEAL , OIL/D | D20477 | 1 | |
| 001 | 017 | V6001162032 | BEARING , BALL | 62/32 | 1 | |
| 001 | 018 | 93802001300 | SP BEVEL GEAR , 16T | 16T | 1 | |
| 001 | 019 | 94002000320 | HOUSING | | 1 | |
| 001 | 020 | V6001506305 | BEARING , BALL | 6305 | 2 | |
| 001 | 021 | 94002000330 | BUSH , HOUSING | | 1 | |

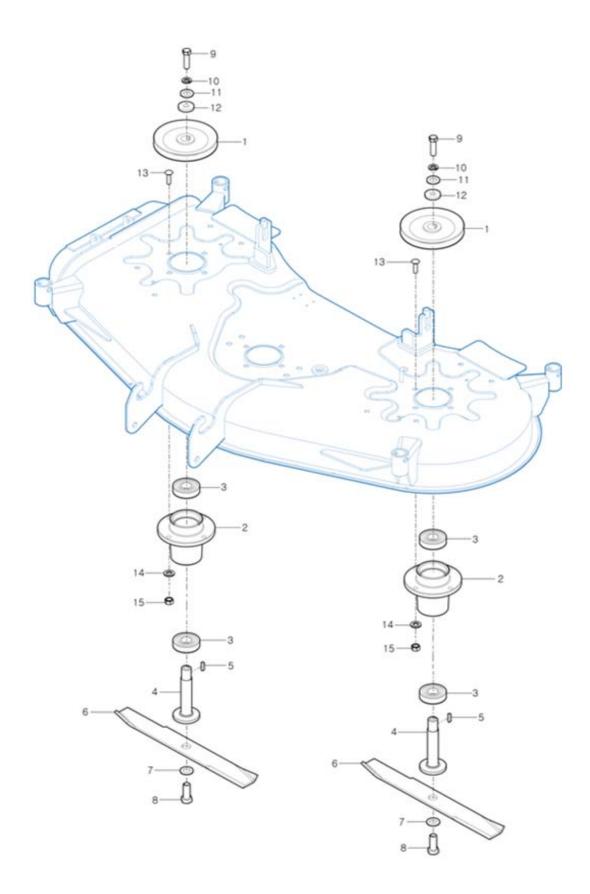
MOWER KIT SERVICE PARTS BREAKDOWN (48")

| | | - | | | - | | - |
|-----|-----|---------------|-------------------------|--------|---|---------|---------------|
| 001 | 022 | 93802001700 | COLLAR , BLADE | | 1 | | |
| 001 | 023 | 94002000150 | CARRIAGE BOLT | 3/8X38 | 4 | | |
| 001 | 024 | V4111600100 | WASHER , PLAIN | M10 | 4 | | |
| 001 | 025 | 94002000190 | NYLON NUT, 3/8 | 3/8 | 4 | | |
| 001 | 026 | 93802007100GB | PLATE COMP , GEAR BOX | | 1 | | |
| 001 | 027 | 93802007200GB | BRACKET COMP , GEAR BOX | ζ | 1 | | |
| 001 | 028 | V2114612045 | BOLT , HEX/S | M12X45 | 2 | | |
| 001 | 029 | 93802007300 | COLLAR , GEAR BOX | | 2 | | |
| 001 | 030 | V2114612025 | BOLT , HEX/S | M12X25 | 2 | | |
| 001 | 031 | V2014608010 | BOLT , HEX | M8X10 | 2 | | |
| 001 | 032 | V2004612030 | BOLT , HEX | M12X30 | 4 | | |
| 001 | 033 | V4111600120 | WASHER , PLAIN | M12 | 8 | | |
| 001 | 034 | V4011600120 | WASHER , SPRING | M12 | 4 | | |
| 001 | 035 | V3013600120 | NUT , HEX/2 | M12 | 4 | | |
| 001 | 036 | 93802000080 | BLADE | | 1 | | |
| 001 | 037 | V4111600160 | WASHER , PLAIN | M16 | 1 | | |
| 001 | 038 | V2034616035 | BOLT , HEX FINE | M16X35 | 1 | | |
| 001 | 039 | 93802000100 | PLUG , DRAIN | | 1 | | |
| 001 | 040 | 84200033800 | PLUG | | 1 | Changed | (Flange Bolt) |
| 001 | 041 | 84200133900 | PACKING | | 1 | Unused | (Liquid bond) |
| 001 | 042 | V6001106205 | BEARING , BALL | 6205 | 1 | | |
| 001 | 043 | 93802000150 | WASHER , OIL PLUG | M8 | 2 | | |

MOWER KIT SERVICE PARTS BREAKDOWN (54")

| | 1 | | | | 1 | 1 | |
|-----|-----|---------------|-------------------------|--------|---|---------|---------------|
| 001 | 022 | 93802001700 | COLLAR , BLADE | | 1 | | |
| 001 | 023 | 94002000150 | CARRIAGE BOLT | 3/8X38 | 4 | | |
| 001 | 024 | V4111600100 | WASHER , PLAIN | M10 | 4 | | |
| 001 | 025 | 94002000190 | NYLON NUT, 3/8 | 3/8 | 4 | | |
| 001 | 026 | 93802007100GB | PLATE COMP , GEAR BOX | | 1 | | |
| 001 | 027 | 93802007200GB | BRACKET COMP , GEAR BO> | < | 1 | | |
| 001 | 028 | V2114612045 | BOLT , HEX/S | M12X45 | 2 | | |
| 001 | 029 | 93802007300 | COLLAR , GEAR BOX | | 2 | | |
| 001 | 030 | V2114612025 | BOLT , HEX/S | M12X25 | 2 | | |
| 001 | 031 | V2014608010 | BOLT , HEX | M8X10 | 2 | | |
| 001 | 032 | V2004612030 | BOLT , HEX | M12X30 | 4 | | |
| 001 | 033 | V4111600120 | WASHER , PLAIN | M12 | 8 | | |
| 001 | 034 | V4011600120 | WASHER , SPRING | M12 | 4 | | |
| 001 | 035 | V3013600120 | NUT , HEX/2 | M12 | 4 | | |
| 001 | 036 | 93902000080 | BLADE | | 1 | | |
| 001 | 037 | V4111600160 | WASHER , PLAIN | M16 | 1 | | |
| 001 | 038 | V2034616035 | BOLT , HEX FINE | M16X35 | 1 | | |
| 001 | 039 | 93802000100 | PLUG , DRAIN | | 1 | | |
| 001 | 040 | 84200033800 | PLUG | | 1 | Changed | (Flange Bolt) |
| 001 | 041 | 84200133900 | PACKING | | 1 | Unused | (Liquid bond) |
| 001 | 042 | V6001106205 | BEARING , BALL | 6205 | 1 | | |
| 001 | 043 | 93802000150 | WASHER , OIL PLUG | M8 | 2 | | |

MOWER DECK SERVICE PARTS



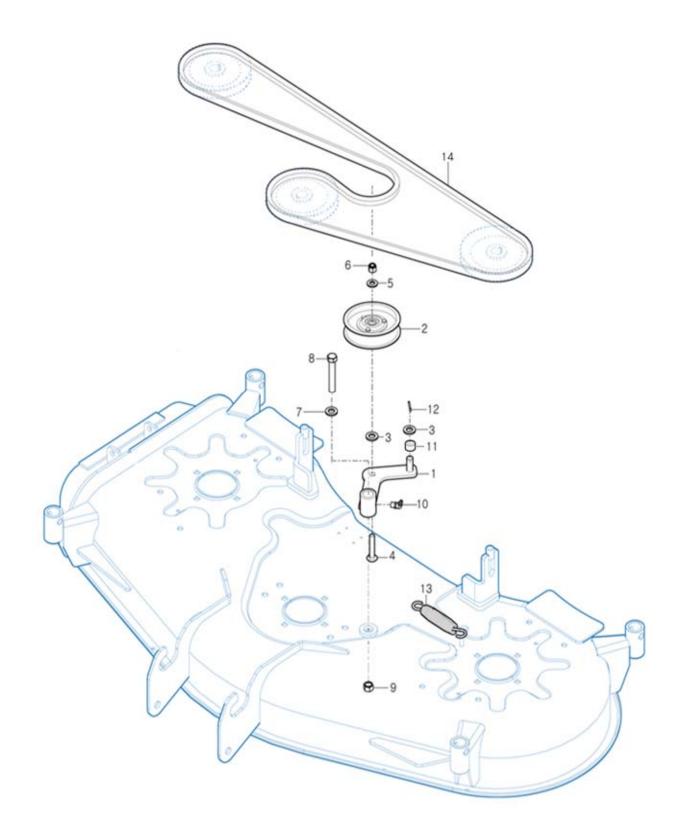
MOWER KIT SERVICE PARTS BREAKDOWN (48")

| 002 | 001 | 94002000100 | BLADE PULLEY | | 2 | |
|-----|-----|-------------|-----------------|--------|---|--|
| 002 | 002 | 94002000320 | HOUSING | | 2 | |
| 002 | 003 | V6001506305 | BEARING , BALL | 6305 | 4 | |
| 002 | 004 | 94002000310 | SHAFT | | 2 | |
| 002 | 005 | 94002000240 | KEY , 5X5 | 5X5 | 2 | |
| 002 | 006 | 93802000080 | BLADE | | 2 | |
| 002 | 007 | V4111600160 | WASHER , PLAIN | M16 | 2 | |
| 002 | 800 | V2034616035 | BOLT , HEX FINE | M16X35 | 2 | |
| 002 | 009 | V2034612040 | BOLT , HEX FINE | M12X40 | 2 | |
| 002 | 010 | V4011600120 | WASHER , SPRING | M12 | 2 | |
| 002 | 011 | V4111600120 | WASHER , PLAIN | M12 | 2 | |
| 002 | 012 | 94002000210 | WASHER , PLAIN | 36 | 2 | |
| 002 | 013 | 94002000150 | CARRIAGE BOLT | 3/8X38 | 8 | |
| 002 | 014 | V4111600100 | WASHER , PLAIN | M10 | 8 | |
| 002 | 015 | 94002000190 | NYLON NUT, 3/8 | 3/8 | 8 | |

MOWER KIT SERVICE PARTS BREAKDOWN (54")

| | 0.0.1 | 0.4000000400 | | | | |
|-----|-------|--------------|-----------------|--------|---|--|
| 002 | 001 | 94002000100 | BLADE PULLEY | | 2 | |
| 002 | 002 | 94002000320 | HOUSING | | 2 | |
| 002 | 003 | V6001506305 | BEARING , BALL | 6305 | 4 | |
| 002 | 004 | 94002000310 | SHAFT | | 2 | |
| 002 | 005 | 94002000240 | KEY , 5X5 | 5X5 | 2 | |
| 002 | 006 | 93902000080 | BLADE | | 2 | |
| 002 | 007 | V4111600160 | WASHER , PLAIN | M16 | 2 | |
| 002 | 800 | V2034616035 | BOLT , HEX FINE | M16X35 | 2 | |
| 002 | 009 | V2034612040 | BOLT , HEX FINE | M12X40 | 2 | |
| 002 | 010 | V4011600120 | WASHER , SPRING | M12 | 2 | |
| 002 | 011 | V4111600120 | WASHER , PLAIN | M12 | 2 | |
| 002 | 012 | 94002000210 | WASHER , PLAIN | 36 | 2 | |
| 002 | 013 | 94002000150 | CARRIAGE BOLT | 3/8X38 | 8 | |
| 002 | 014 | V4111600100 | WASHER , PLAIN | M10 | 8 | |
| 002 | 015 | 94002000190 | NYLON NUT, 3/8 | 3/8 | 8 | |

MOWER DECK SERVICE PARTS



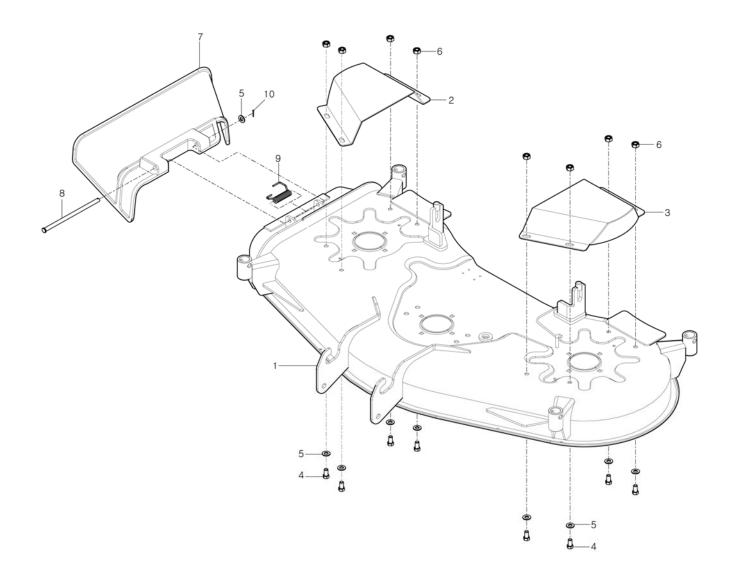
MOWER KIT SERVICE PARTS BREAKDOWN (48")

| KEY | ' NO. | PART NO. | DESCRIPSTION | SPEC. | QTY. | REPAIR | EFFECTIVE DATE |
|-----|-------|---------------|----------------------|---------|------|--------|----------------|
| 003 | 001 | 93802006100GB | ARM COMP | | 1 | | |
| 003 | 002 | 94002000400 | TENSION PULLEY ASS'Y | | 1 | | |
| 003 | 003 | V4111600120 | WASHER , PLAIN | M12 | 3 | | |
| 003 | 004 | 94002000170 | CARRIAGE BOLT | 3/8X50 | 1 | | |
| 003 | 005 | V4111600100 | WASHER , PLAIN | M10 | 1 | | |
| 003 | 006 | 94002000190 | NYLON NUT | 3/8 | 1 | | |
| 003 | 007 | V4111600160 | WASHER , PLAIN | M16 | 1 | | |
| 003 | 800 | V2004612070 | BOLT , HEX | M12X70 | 1 | | |
| 003 | 009 | V3013600120 | NUT , HEX/2 | M12 | 1 | | |
| 003 | 010 | V7632000000 | NIPPLE , GREASE/B-PT | B-PT1/8 | 1 | | |
| 003 | 011 | 93802006400 | COLLAR | | 1 | | |
| 003 | 012 | V5001930020 | SPLIT PIN | 3X20 | 1 | | |
| 003 | 013 | 93802000500 | TENSION SPRING ASS'Y | | 1 | | |
| 003 | 014 | 93802000050 | V-BELT | LB-103 | 1 | | |

MOWER KIT SERVICE PARTS BREAKDOWN (54")

| KEY | ' NO. | PART NO. | DESCRIPSTION | SPEC. | ΟΤΥ. | REPAIR | EFFECTIVE DATE |
|-----|-------|---------------|----------------------|---------|------|--------|----------------|
| 003 | 001 | 93802006100GB | ARM COMP | | 1 | | |
| 003 | 002 | 94002000400 | TENSION PULLEY ASS'Y | | 1 | | |
| 003 | 003 | V4111600120 | WASHER , PLAIN | M12 | 3 | | |
| 003 | 004 | 94002000170 | CARRIAGE BOLT | 3/8X50 | 1 | | |
| 003 | 005 | V4111600100 | WASHER , PLAIN | M10 | 1 | | |
| 003 | 006 | 94002000190 | NYLON NUT | 3/8 | 1 | | |
| 003 | 007 | V4111600160 | WASHER , PLAIN | M16 | 1 | | |
| 003 | 800 | V2004612070 | BOLT , HEX | M12X70 | 1 | | |
| 003 | 009 | V3013600120 | NUT , HEX/2 | M12 | 1 | | |
| 003 | 010 | V7632000000 | NIPPLE , GREASE/B-PT | B-PT1/8 | 1 | | |
| 003 | 011 | 93802006400 | COLLAR | | 1 | | |
| 003 | 012 | V5001930020 | SPLIT PIN | 3X20 | 1 | | |
| 003 | 013 | 93802000500 | TENSION SPRING ASS'Y | | 1 | | |
| 003 | 014 | 93902000050 | V-BELT | LB-110 | 1 | | |

MOWER DECK SERVICE PARTS



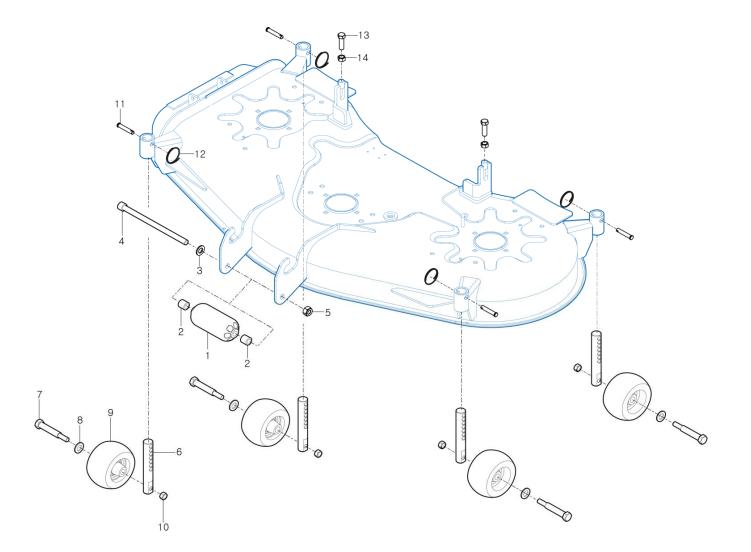
MOWER KIT SERVICE PARTS BREAKDOWN (48")

| KEY | 'NO. | PART NO. | DESCRIPSTION | SPEC. | QTY. | REPAIR | EFFECTIVE DATE |
|-----|------|---------------|----------------------|--------|------|--------|----------------|
| 004 | 001 | 93802002000KR | DECK COMP , M48 | | 1 | | |
| 004 | 002 | 93802004000KR | COVER COMP , BELT RH | | 1 | | |
| 004 | 003 | 93802003000KR | COVER COMP , BELT LH | | 1 | | |
| 004 | 004 | V2004610020 | BOLT , HEX | M10X20 | 8 | | |
| 004 | 005 | V4111600100 | WASHER , PLAIN | M10 | 9 | | |
| 004 | 006 | 85402003130 | NYLON NUT | M10 | 8 | | |
| 004 | 007 | 93802005101 | SIDE COVER | | 1 | | |
| 004 | 800 | 93802005200 | PIN , SIDE COVER | | 1 | | |
| 004 | 009 | 93802005300 | SPRING , SIDE COVER | | 1 | | |
| 004 | 010 | V5001920015 | SPLIT PIN | 2X15 | 1 | | |

MOWER KIT SERVICE PARTS BREAKDOWN (54")

| KEY | 'NO. | PART NO. | DESCRIPSTION | SPEC. | QTY. | REPAIR | EFFECTIVE DATE |
|-----|------|---------------|----------------------|--------|------|--------|----------------|
| 004 | 001 | 93902002000KR | DECK COMP , M54 | | 1 | | |
| 004 | 002 | 93802004000KR | COVER COMP , BELT RH | | 1 | | |
| 004 | 003 | 93802003000KR | COVER COMP , BELT LH | | 1 | | |
| 004 | 004 | V2004610020 | BOLT , HEX | M10X20 | 8 | | |
| 004 | 005 | V4111600100 | WASHER , PLAIN | M10 | 9 | | |
| 004 | 006 | 85402003130 | NYLON NUT | M10 | 8 | | |
| 004 | 007 | 93802005101 | SIDE COVER | | 1 | | |
| 004 | 800 | 93802005200 | PIN , SIDE COVER | | 1 | | |
| 004 | 009 | 93802005300 | SPRING , SIDE COVER | | 1 | | |
| 004 | 010 | V5001920015 | SPLIT PIN | 2X15 | 1 | | |

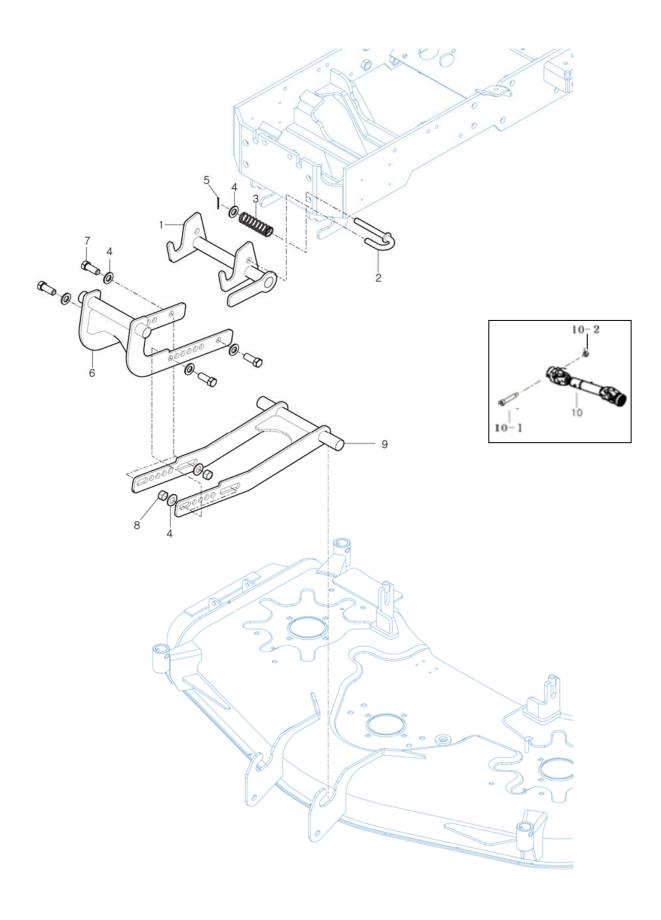
MOWER DECK SERVICE PARTS



MOWER KIT SERVICE PARTS BREAKDOWN

| KEY | 'NO. | PART NO. | DESCRIPSTION | SPEC. | QTY. | REPAIR | EFFECTIVE DATE |
|-----|------|-------------|----------------------|---------|------|--------|----------------|
| 005 | 001 | 94002000011 | FRONT WHEEL | | 1 | | |
| 005 | 002 | 94002000030 | COLLAR , FRONT WHEEL | | 1 | | |
| 005 | 003 | V4111600140 | WASHER , PLAIN | M14 | 1 | | |
| 005 | 004 | 94002000130 | WRENCH BOLT | M14X230 | 1 | | |
| 005 | 005 | 86402000140 | NYLON NUT , M14 | M14 | 1 | | |
| 005 | 006 | 94002000060 | SHAFT , WHEEL | | 4 | | |
| 005 | 007 | 94002000220 | M16 BOLT | M16 | 4 | | |
| 005 | 800 | V4111600160 | WASHER , PLAIN | M16 | 4 | | |
| 005 | 009 | 94002000070 | WHEEL | | 4 | | |
| 005 | 010 | V3013600120 | NUT , HEX/2 | M12 | 4 | | |
| 005 | 011 | 94002000110 | PIN | | 4 | | |
| 005 | 012 | 16735240060 | SPRING 45 | | 4 | | |

MOWER DECK SERVICE PARTS



MOWER KIT SERVICE PARTS BREAKDOWN

| KEY | 'NO. | PART NO. | DESCRIPSTION | SPEC. | QTY. | REPAIR | EFFECTIVE DATE |
|-----|-------|---------------|-----------------------|--------|------|--------|----------------|
| 006 | 001 | 93801006300GB | LOCK COMP | | 1 | | |
| 006 | 002 | 94001006600 | PIN COMP | | 1 | | |
| 006 | 003 | 36714930020 | SPRING , HC113 | | 1 | | |
| 006 | 004 | V4111600140 | WASHER , PLAIN | M14 | 9 | | |
| 006 | 005 | V5001920025 | SPLIT PIN | 2X25 | 1 | | |
| 006 | 006 | 93801006400GB | MOVING COMP A | | 1 | | |
| 006 | 007 | V2004614035 | BOLT , HEX | M14X35 | 4 | | |
| 006 | 800 | V3013600140 | NUT , HEX/2 | M14 | 4 | | |
| 006 | 009 | 93801006501GB | MOVING COMP B | | 1 | | |
| 006 | 010 | 93801009990 | UNIVERSAL JOINT ASS'Y | | 1 | | |
| 006 | 010-1 | V2205408050 | BOLT , HEX-SOCKET | M8X50 | 1 | | |
| 006 | 010-2 | 84200000230 | NYLON NUT | M8 | 1 | | |

M48, M54

OPERATOR'S MANUAL FOR MID MOWER CODE NO.

9385-800-100-2

Printed on Aug. 2018

3rd EDITION



TYM Corporate name and address, website Replace with: Rural King Supply, Inc. 4126 Dewitt Avenue Mattoon, IL 61938 www.ruralking.com