Technical Manual

SCAG'S COMMERCIAL MOWER

MODELS

ST-18-B Tractor SM-61 Cutter Deck SM-48 Cutter Deck SM-42 Cutter Deck

WARNING

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 entire manual before attempting to set up, operate, adjust or service the machine.

LIMITED WARRANTY-COMMERCIAL EQUIPMENT

This warranty extends to the original retail purchaser only and commences on the date of original retail purchase.

Any part of the Scag commercial mower manufactured by Scag and found in the reasonable judgement of Scag to be defective in material or workmanship, will be repaired or replaced by an authorized service dealer without charge for parts and labor.

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 back to the owner after repair or replacement will be paid for by the owner. Scag's responsibility in respect to claims is limited to making the required repairs or replacements, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Scag mower. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by an authorized Scag service dealer.

This warranty is limited to one year from the date of original retail purchase for any Scag mower that is used for commercial purposes, or any other incomproducing purpose (90 days for rental use).

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 so as to adversely affect the product's operation, performance or durability or that has been altered or modified so as to change the intended use of the product. 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 judgement of Scag, are either incompatible with the Scag mower or adversely affect its operation, performance or durability. This warranty does not cover engines, electric starters, batteries, belts and tires which are warranted separately by their manufacturer and for a different period of time.

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 service dealer and expense of returning it back 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 vou.

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

SPECIFICATIONS/STANDARD FEATURES

ENGINE:

Commercial 18 HP Briggs and Stratton twin cylinders, cast iron sleeves, dual element air filter, magnetron ignition, electric start.

TRANSAXLE:

Peerless 5-speed forward from 1.5 - 6 mph, 2.5 mph reverse @ 3,600 RPM, ball bearing axle support, hardened steel gears.

FUEL TANK:

3 U.S. Gallons, 11.4 Liters.

BRAKE SYSTEM:

Disc brake for stopping and parking, stainless steel cable.

INSTRUMENT PANEL:

Ammeter, hour meter, key switch, fuses, throttle and choke with stainless steel cables.

TIRES:

Drive Wheels 16 x 6.50 tubeless Turf Saver tread on 40 inch centers.

Rear Wheel 16 x 6.50 tubeless tire, taper roller bearings.

Caster Wheels 8.60 x 2.80-4, 4 ply, with inner tube, split rims, roller bearings.

STEERING:

Aircraft yoke-type steering handle, stainless steel cable.

SEAT:

Deluxe arm rests, lumbar back support, fully contoured and foam padded, adjustable fore and aft, safety belt bar.

SAFETY GROUP:

Foot actuated engine kill, transaxle neutral interlock, blade clutch safety switch.

ELECTRIC SYSTEM:

12 voit battery, 30 AH, 3 amp dc alternator.

LIFT SYSTEM:

Manual winch with automatic safety brake-clutch, stainless steel cable.

TRAVEL CONTROL:

Integrated foot pedal clutch - brake, stainless steel cable.

RIDER FRAME:

Hybrid tractor-trailer with stabilized pivot mount.

CUTTER DECK:

7 and 10 gauge steel weldment, cast aluminum greasable spindle housings with dual ball bearings, extra large cast iron pulleys, novel blade design provides constant overlap even after multiple resharpenings.

CERTIFICATION:

Meets applicable ANSI, OSHA, and European health and safety standards.

| SPECIFICS FOR MODEL | ST-18B WITH SM 48 | ST-18B WITH SM 61 |
|------------------------|-----------------------|-----------------------|
| Engine | 18 HP at 3600 RPM | 18 HP at 3600 RPM |
| True Cutting Width | 48.0 inches - 122 cm. | 61.0 inches - 155 cm. |
| | 1 to 4 inches | 1 to 4 inches |
| Overall Width | 49 inches | 62-1/8 inches |
| Overall Length | 90-1/2 inches | 98 inches |
| Weight | 650 lbs. | 700 lbs. |

WARNING

Do NOT travel straight down slopes exceeding 14 degrees (25 percent). When climbing a steep slope and the tires begin to slip, the grade is too steep for safe operation. Angle the mower to a less steep slope until tires stop slipping and traction is regained. Raising the cutter deck slightly will improve traction.

SAFETY RECOMMENDATIONS

Recommended Practices from the American Standard Safety Specifications for Power Lawn Mowers

Training

- 1. Regard your mower as a piece of power equipment and teach this regard to all who operate this unit.
- 2. Never allow children or young teenagers to operate the mower.
- **3.** Be sure you know how to stop the mowers and engine at a moment's notice.
- 4. Instruct children to keep away from the area of operation at all times.

Preparation

- 1. Before starting operation, clear the entire green area of all debris that could catch on or be thrown by the mowers.
- 2. Unless there is very good artifical light, mow only during the daylight.
- **3.** Fill gasoline-driven mowers outdoors. Avoid spilling gasoline and don't fill the tank while engine is running or while you are smoking.

Operation

- **1.** Give complete and undivided attention to the job at hand.
- 2. Keep the area of operation clear of all persons.
- 3. Don't start engine and cutter blades until you are ready to start mowing. Stop the engine whenever you leave the operator seat.
- **4.** If an object has been struck, stop machine, check for breakage and replace any damaged parts prior to continuation of operation.

5. 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

- **1.** Follow implicitly the manufacturer's recommendations for maintenance.
- 2. Never adjust the mowers or change attachments until the engine has been turned off and the spark plug wire disconnected.
- 3. If carburetor adjustment is necessary, stand to one side and keep feet and hands in the clear while making adjustments.
- **4.** Keep engine free from accumulations of grass, leaves, or excessive grease. An accumulation of these combustible materials may result in a fire.
- **5.** Store gasoline in a safe container in a cool, dry place.
- **6.** Keep the mower and fuel container in locked storage to prevent children from playing and tampering with them.
- **7.** Maximum mowing results and safety can only be expected if the mower is maintained and operated correctly.
- **8.** Gasoline powered equipment or fuel containers should not be stored in basement or any closed area where heating or heat appliances or open pilot lights are present unless fuel is completely drained from power equipment and fuel containers.

ASSEMBLY INSTRUCTIONS

- 1. Remove all crating and packing materials.
- 2. Lay out loose bolts and nuts according to the "Where Used" as listed in the loose parts packing list.
- Set the cutter deck level, about 2 inches off the floor.
- 4. Remove belt cover.
- **5.** Move tractor assembly to cutter deck so that mounting brackets clear engine deck.
- **6.** Unwind winch lift cable and tilt engine deck to horizontal position. Insert drift pins on each side to temporarily locate holes.

IMPORTANT

- 7. Use lower set of holes in brackets for mowing two inches and above (for **under** two inches use upper set of holes). Insert six 7/16-14 x 1 bolts, flat washers, lock washers and nuts. Tighten all six bolts very securely. Then go back and retorque each one.
- **8.** Raise cutter deck using lift winch and assemble front caster wheels using six 5/16 18 x 3/4 bolts, lock washers and nuts.
- **9.** Until mower engage control rod and insert into bell crank lever under engine deck at rear left side. Secure with hair pin.

- 10. Route belt from engine to cutter deck over center spindle pulley. Be sure belt clears the belt guide saddle at center spindle and lies on the stamped steel guide pulley support bracket, between the pulley and its belt guide.
- 11. Push mower engage lever forward until it snaps to rest. Adjust belt tension as specified in adjustment section. Do Not Adjust Too Tight!
- **12.** Install grass discharge deflector chute using two 5/16 18 x 1 bolts and lock nuts.
- **13.** Place seat assembly on rider support channel using 2nd and 3rd hole aft from steering handle. Install two 7/16 14 x 1-1/4 bolts, lock washers and nuts. Stand back and sight straight ahead. Align seat spring parallel with frame. Tighten bolts very hard.
- **14.** Adjust arm rests to horizontal position (if necessary) by turning setscrew in rear of each arm.
- **15.** Insert steering handle on shaft and secure with one $5/16 18 \times 1-1/2$ bolt, 2 washers and locknut. Tighten very hard.
- 16. Reduce tire pressure to values specified in

maintenance section.

NOTE: Tires are over inflated for shipping purposes.

- 17. Remove battery and fill each cell with 1.265 specific gravity, battery grade electrolyte to level indicator. Do Not Fill more than 3/16" above plates. Allow battery to set for 20 minues. Refill to level. Battery may be placed on charge at 3 amperes for maximum capacity (not usually necessary).
- 18. CAUTION: Reinstall battery. Connect positive lead first.

CAUTION: Note that battery contains sulfuric acid which is poison and causes severe burns. Avoid contact with skin, eyes or clothing. Flush spills with water.

- 19. Check engine crankcase. It was filled at the factory, but may need additional oil for proper level.
- 20. Fill fuel tank.
- 21. Open shut-off under tank.
- **22.** After initial run and inspection of cutter belt, replace belt cover.

ADJUSTMENTS

- 1. Check that all belts clear their belt guides by about 1/8 to 3/16 inch. Adjust guides if necessary.
- 2. Adjust engine to cutter deck turnbuckle so that about 10 lb. pull sideways deflects belt 1/2 inch. Do Not Overtighten! Only a moderate force should be used on control lever.
- **3.** Adjust cutter deck "double B" belt by turning lock nut on "J" pull rod. About 10 lbs. pull sideways deflects belt 1/2 inch. Test belt at short section between center spindle and left hand spindle (do not test long section at rear of deck).

IMPORTANT

Readjust new belt tensions after 4 hours of operation and again after about 24 hours to take up initial stretch.

- 4. Transaxle shifter neutral may require adjustment so that starter engages at neutral stop. Rotate swivel joint if necessary to lengthen or shorten the shift rod.
- 5. Set parking brake before starting engine.
- 6. Please Remember:

To start engine, three safety switches must be activated:

- 1. The shift lever must be in neutral.
- 2. The mower engage lever must be pulled all the way back (and held there).
- 3. The left foot safety switch pedal must be depressed.
- 7. Run new engine at half speed about 5 minutes

before applying any load.

- **8.** Adjust fuel-air mixture valves according to specifications in engine manual.
- **9.** Release parking brake by depressing right hand foot pedal, lift brake lever and rotate 90 degrees.
- 10. Readjust neutral, if necessary.

BRAKE ADJUSTMENT

11. Brake must be adjusted in following sequence: With transaxle belt engaged (foot pedal in up position) move brake cable guide pulley to permit brake lever to rest against its stop. Move pulley in mounting slot to make this adjustment. Then adjust brake lever nuts to permit free movement of lever about 1/8 inch from stop by pushing lever sideways with hand. Lock jam nut securely. If brake lever is too tight, shifting may be impossible and brake wear will be excessive.

FOOT PEDAL

12. Adjust foot pedal control cable sheath by adjusting the two cable mounting nuts, so that the pedal is about 4-1/4 inches above foot rest plate.

TIRE PRESSURES

13. Recommended pressures:

Caster Wheels 25 PSI
Rear Steering Wheel 25 PSI
Drive Wheels 15 PSI

OPERATING INSTRUCTIONS

1. Read and understand the section on safety suggestions before any attempt to operate.

IMPORTANT

- 2. Always turn winch handle two additional turns counterclockwise for more slack after cutter deck is lowered, to provide floatation. To raise deck turn winch handle clockwise.
- 3. Always transport with cutter deck down and lift cable in float position.
- 4. Start engine.

- **5.** Depress foot pedal, shift out of neutral, and very gently release foot pedal.
- **6.** To stop, depress foot pedal to disengage transaxle and to apply brake.
- 7. While making turns, depress foot pedal slightly to make gentle, smooth turns.
- **8.** Engage cutter deck belt by pushing mower engage lever forward until it snaps to rest.

WARNING

Never run cutter blades with cutter deck in raised position.

ROUTINE MAINTENANCE SERVICE

EVERY DAY

- 1. Check engine oil. Do not fill above dipstick marks.
- **2.** Clean engine blower screen (more frequently in dirty, dusty conditions).
- 3. Clean debris under belt cover.
- 4. Sharpen cutter blades.

EVERY WEEK

- 1. Change engine oil.
- 2. Check battery acid level. Add distilled water if

necessary, but do not fill over 3/16 inch above plates. Excess acid will overflow while running and damage painted surfaces.

- 3. Clean carburetor air filter.
- 4. Check tire pressures.

EVERY MONTH

- 1. Grease all fittings, brake lever and winch.
- 2. Clean and gap sparkplugs.
- Adjust brake lever.

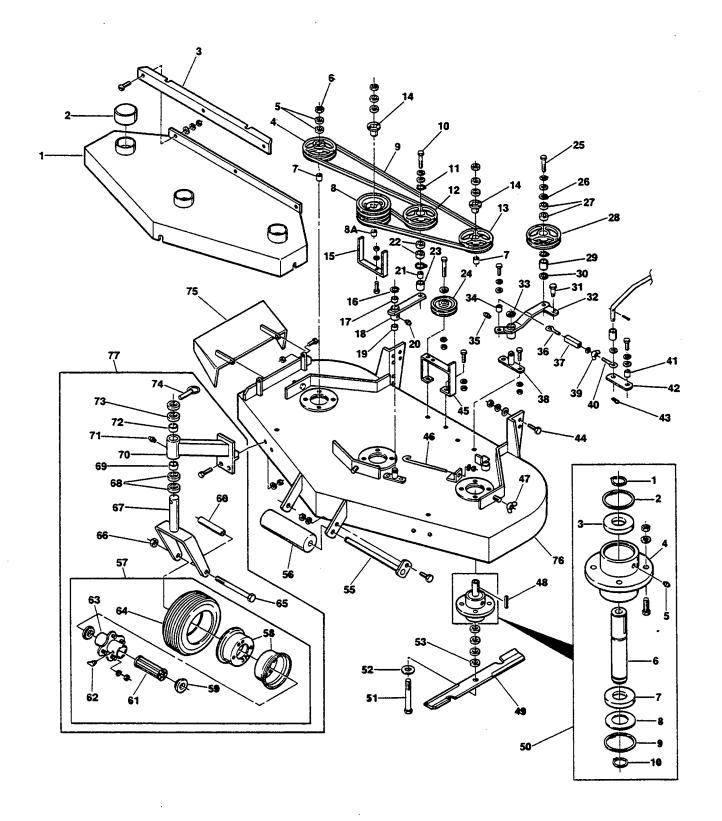
LUBRICATION

Every two hundred hours of operation lubricate all grease fittings. Periodically apply LPS to moving parts at the cutter deck idler pulley cam links.

Grease gears, shaft and handle threads on winch. Do not oil brake mechanism on winch.

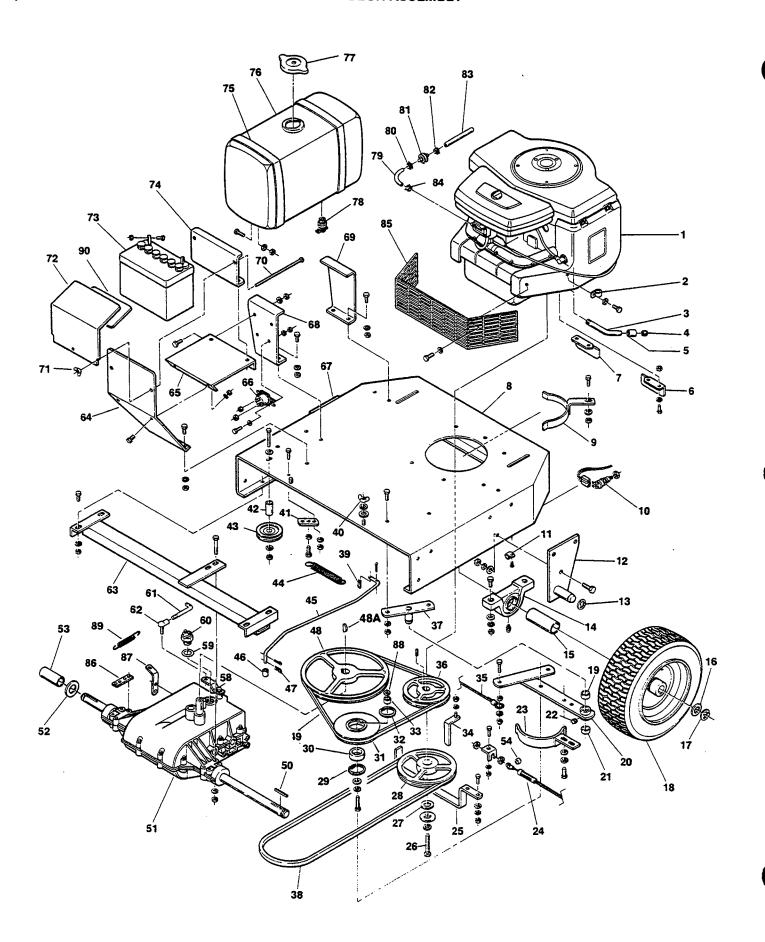
Apply grease between transaxle brake lever and brake pins.

| Location of grease fittings | Number |
|-----------------------------|--------|
| Caster Wheels | 2 |
| Caster wheel pivot shaft | 2 |
| Spindle bearings | 3 |
| Idler pulley pivots | 3 |
| Rider frame pivots | 2 |
| Controls bellcrank | 2 |
| Left hand axle bearing | 1 |
| Steering handle | 1 |
| Foot pedal | 1 |
| Rear wheel vertical pivot | 1 |
| Rear wheel bearings | 1 |
| Total Number | 19 |

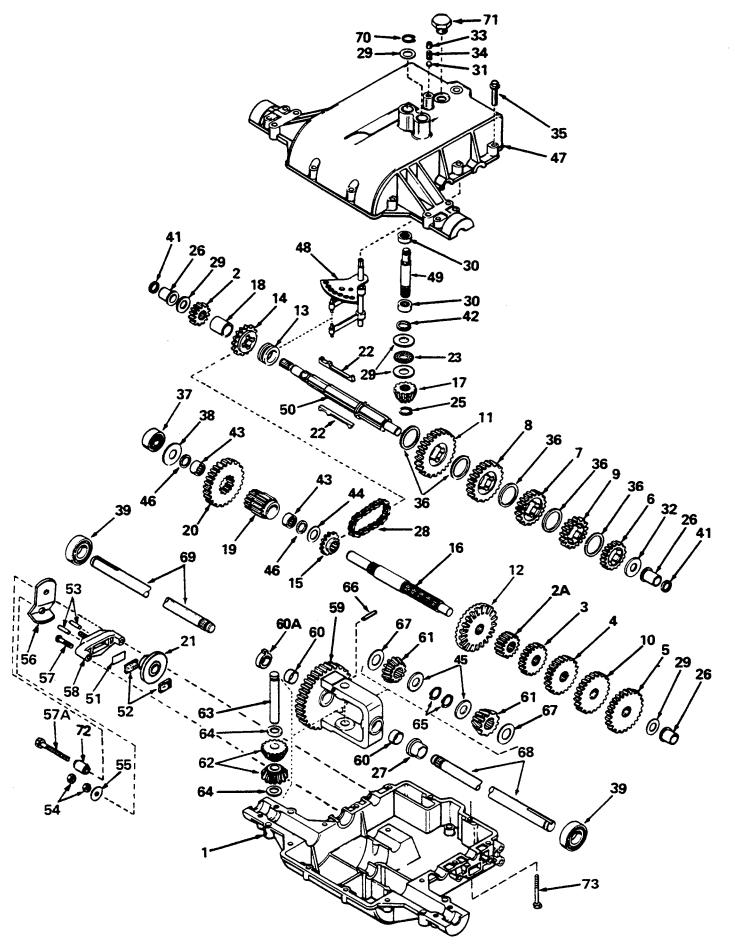


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| 7 42057- 8 48128 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | No. | Part No. | Description | Ref. No. | Part No. | Description |
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| 2 48098 3 42045 4 48127 5 43038 6 04020- 7 42057- 8 48128 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 1 . | 45005 | Belt Cover Weldment | 44 | 04001-27 | Bolt, Hex Head 7/16-14 x 1 |
| 2 48098 3 42045 4 48127 5 43038 6 04020- 7 42057- 8 48128 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | 48" Cutter Deck | 45 | 45012 | Idier Pulley Support |
| 3 42045 4 48127 5 43038 6 04020- 7 42057- 8 48128 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 1 | 45048 | Belt Cover Weldment | 46 | 43028 | J Pull Rod |
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| 4 48127 5 43038 6 04020-7 7 42057-8 8 48129 8A 42057-9 9 48084 9 48082 10 04001-11 04050-12 48062 13 48127 14 48141 15 42063 15 42004 16 04050-17 48100-18 45016 19 48100-20 48114-21 43045 22 48102 23 43040 24 48068 25 04001 26 04050-27 48102 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 2 | 48098 | Spindle Shield | 48 | 04063-01 | Key 1/4 x 1/4 x 1-1/4 |
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| 6 04020- 7 42057- 8 48128 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 4 | 48127 | Pulley - Cutter Spindle | 49 | 48110 | Cutter Blade - 48" Cutter Deck |
| 7 42057-8 48128 8 48129 8A 42057-9 48084 9 48082 10 04001-11 04050-12 48062 13 48127 14 48141 15 42063 15 42004 16 04050-17 48100-20 48114-21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | 43038 | Spacer - Cutter Blade | 50 | 46020 | Cutter Spindle Assy. |
| 8 48128 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | 04020-09 | Nut, Hex Head 5/8-11 | 50-1 | 04050-04 | Retaining Ring |
| 8 48129 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | 42057-01 | Spacer - Spindle Shaft | 50 - 2 | 04050-07 | Retaining Ring |
| 8A 42057- 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 8 | 48128 | Pulley - 61" Cutter Deck | 50-3 | 48101 | Bearing |
| 9 48084 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 8 | 48129 | Pulley - 48" Cutter Deck | 50-4 | 41001 | Spindle Housing |
| 9 48082 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 3A | 42057-02 | Spacer - Spindle Shaft | 50- 5 | 48114-02 | Grease Fitting |
| 10 04001- 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | 48084 | Belt - 61" Cutter Deck | 50-6 | 43001-02 | Spindle, Cutter Blade |
| 11 04050- 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 9 | 48082 | Belt - 48" Cutter Deck | 50-7 | 48101 | Bearing |
| 12 48062 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 10 | 04001-35 | Bolt, Hex Head 1/2-20 x 2-1/2 | 50-8 | 04041-02 | Washer |
| 13 48127 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 11 | 04050-06 | Retaining Ring | 50 - 9 | 04050-07 | Retaining Ring |
| 14 48141 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 12 | 48062 | Pulley - Idler | 50-10 | 04050-04 | Retaining Ring |
| 15 42063 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 13 | 48127 | Pulley - Cutter Spindle | 51 | 04001-41 | Bolt, Hex Head 5/8-13 x 9-1/2 |
| 15 42004 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 14 | 48141 | Pulley, Taper Cone | 52 | 04040-10 | Washer |
| 16 04050- 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 15 | 42063 | Belt Guide - 61" Cutter Deck | 53 | 43038 | Spacer - Cutter Blade |
| 17 48100- 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 15 | 42004 | Belt Guide - 48" Cutter Deck | 55 | 45046 | Guide Roller Shaft Weldment |
| 18 45016 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 16 | 04050-02 | Retaining Ring | 56 | 48038 | Guide Roller |
| 19 48100- 20 48114- 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 17 | 48100-05 | Bearing | 57 | 48006-01 | |
| 20 48114 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | Idler Arm Weidment | 58 | 48006-04 | |
| 21 43045 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 19 | 48100-05 | Bearing | 59 | 48006-07 | Retainer |
| 22 48102 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | 48114-01 | Grease Fitting | 60 | 43022 | Sleeve |
| 23 43040 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | Sleeve | 61 | 48006-06 | |
| 24 48068 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | = | Bearing | 62 | | Grease Fitting |
| 25 04001 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | Spacer | 63 | | Hub Assy. |
| 26 04050 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | Pulley - Belt Guide | 64 | 48006-02 | |
| 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | 25 | 04001-34 | | | 48006-03 | · |
| 27 48102 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | (Thin Head) | 65 66 | 04001-37 04021-07 | |
| 28 48062 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | 04050-06 | Retaining Ring | 66 67 | 45006 | Caster Yoke Weldment |
| 29 43045 30 43041 31 43054 32 45017 33 04050 34 43042 | | | Bearing | 68 | 43037 | Spacer - Caster Wheel |
| 30 43041 31 43054 32 45017 33 04050 34 43042 | | | Pulley - Idler | | | |
| 31 43054 32 45017 33 04050 34 43042 | | | Sleeve | 69 70 | 48100-01 45007 | Bearing Caster Support Weldment |
| 32 45017 33 04050 34 43042 | | | Spacer Set | 70 71 | 48114-01 | * * |
| 33 04050 34 43042 | | | Shoulder Bolt | 71 72 | 48100-01 | |
| 34 43042 | | | Idler Arm Weldment | 73 | 43037 | Spacer - Caster Wheel |
| | | 04050-02 | <u> </u> | 73 74 | 04066-01 | • |
| 35 48114 | | | Sleeve | 74 75 | 45029 | Discharge Chute Weldment |
| | | 48114-01 | Grease Fitting | 75 76 | 4502 9 45031 | Cutter Deck Weldment - 61" |
| | | 04070-02 | Eyebolt - Left Hand Thread Turnbuckle | 76 76 | 45001 | Cutter Deck Weldment - 48" |
| | | 43025 | I urnbuckie Idler Pivot Weldment | 76 76 | 45047 | Cutter Deck Weldment - 42" |
| | | 45037 | | 76 77 | 46011 | Caster Wheel and Support Assy. |
| | | 04022-02 | _ | 11 | 70011 | Casto. Triloti and Capport Nooy. |
| | | 04070-01 43042 | Sleeve | | | |

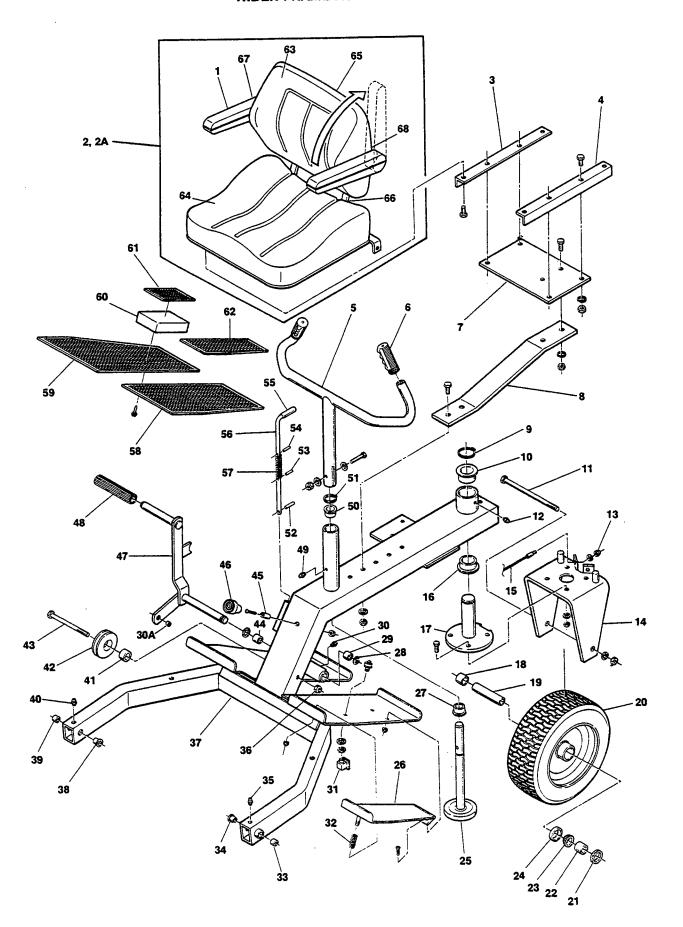


| Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
|--------------|----------|---------------------------------|----------|----------|---------------------------|
| 1 | 48002 | Engine, 18 HP Briggs & Stratton | 44 | 48051 | Spring, Belt Clutch |
| 2 | 48030 | Clamp | 45 | 43031 | Beit Clutch Rod |
| 3 | 48115 | Oil Drain Extension | 46 | 43043 | Sleeve |
| 4 | 48117 | Oil Drain Plug | 47 | 04062-01 | Hairpin |
| 5 | 48116 | Pipe Coupler | 48 | 48064 | Pulley, Transaxie |
| 6 | 42068 | Heat Shield - LH | 48A | 04063-07 | Woodruff Key #9 |
| 7 | 42067 | Heat Shield - RH | 49 | 48080 | Belt, A Section |
| 8 | 45003 | Engine Deck Weldment | 50 | 04063-04 | Key, 3/16 x 3/16 x 3-1/2 |
| 9 | 45013 | Belt Guide - Engine | 51 | 48003 | Transaxle |
| 10 | 48019 | Safety Switch - Blade Clutch | 52 | 04041-09 | Thrust Washer |
| 11 | 48030 | Clamp | 53 | 43019-01 | Drive Axle Spacer - RH |
| 12 | 45027-02 | Hitch Bracket Weldment-LH | 54 | 43049 | Foot Cable Sleeve |
| 13 | 04050-02 | Retaining Ring | 58 | 42061 | Shift Lever |
| 14 | 48104 | Bearing, Pillow Block | 59 | 48122-01 | Fiber Washer010 |
| 15 | 43019-02 | | 59 | 48122-02 | Fiber Washer020 |
| 16 | | Thrust Spacer | 60 | 48021 | Neutral Safety Switch |
| 17 | 04050-02 | | 61 | 43029 | Shift Connector Rod |
| 18 | 48004-01 | Drive Wheel Assy., Tire & Rim | 62 | 48118 | Ball Joint |
| - | 48004-02 | | 63 | 45034 | Transaxie Support |
| _ | 48004-03 | | 64 | 42052 | Battery Support |
| 19 | 48100-05 | • | 65 | 42051 | Battery Shelf |
| 20 | 45018 | Idler Arm Weldment | 66 | 48016 | Starter Solenoid |
| 21 | 48100-05 | | 67 | 45027-01 | Hitch Bracket Weldment-RH |
| 22 | 48114-01 | — | 68 | 42042 | Fuel Tank Bracket, Front |
| 23 | 45014 | Belt Guide, Idler Pulley | 69 | 42044 | Fuel Tank Bracket Rear |
| 24 | 48047 | Foot Clutch Cable Assy. | 70 | 04003-01 | Bolt, Carriage 1/4-20 x 6 |
| 25 | 42064 | Belt Guide - Engine | 71 | 04022-01 | Wing Nut |
| 26 | 04001-29 | | 72 | 42024 | Battery Cover |
| 27 | 43048 | Spacer, Crankshaft | 73 | 48015 | Battery |
| 28 | 48070 | Pulley, Engine | 74 | 42055 | Battery Clamp |
| 29 | 04050-06 | | 75 | 42048 | Fuel Tank Strap |
| 30 | 48102 | Bearing, Idler Pulley | 76 | 48054 | Fuel Tank, 3 Gailon |
| 31 | 48065 | Pulley, Idler | 77 | 48055 | Fuel Tank Cap |
| 32 | 04050-06 | | 78 | 48056 | Fuel Shut-off Valve |
| 33 | 43044 | Sleeve | 79 | 48058-01 | |
| 34 | 45036 | Belt Guide - Engine | 80 | 48059 | Hose Clamp |
| 35 | 48046 | Brake Cable Assy. | 81 | 48057 | Fuel Filter |
| 36 | 48063 | Pulley, Engine | 82 | 48059 | Hose Clamp |
| 37 | 45015 | Idler Pivot Weldment | 83 | 48058-02 | |
| 38 | 48083 | Belt, B Section - 61" Deck | 84 | 48059 | Hose Clamp |
| 38 | 48081 | Belt, B Section - 48" Deck | 85 | 42125 | Muffler Guard |
| 39 | 04062-01 | · | 86 | 42075 | Spacer, Transaxle Mtg. |
| 40 | 04022-04 | * | 87 | 42076 | Rear Brace, Transaxle |
| 41 | 42060 | Spring Mounting Bracket | 88 | 43039 | Spacer, Idler Pulley |
| 42 | 43024 | Spacer, Brake Cable Pulley | 89 | 48052 | Spring, Brake Return |
| 43 | 48066 | Pulley, Brake Cable | 90 | 48099 | Battery Cover Insulation |

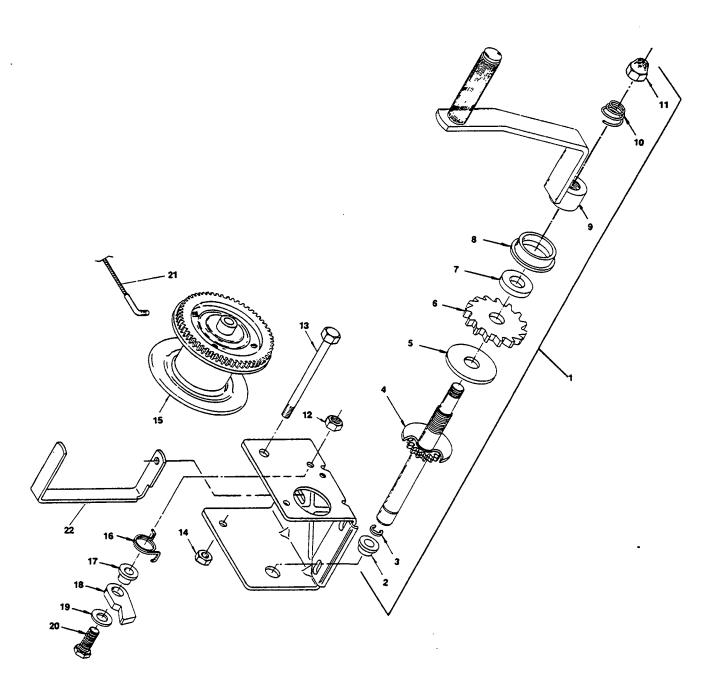


| Ref. No. Part No. Description 1 770071A Case, Transaxle 39 780119 Bearing, Ball 2 778136 Gear, Spur (15 Teeth) 41 788051 Ring, Square Cut 2A 778145 Gear, Spur (12 Teeth) 42 788057 Ring, Square Cut 3 778151 Gear, Spur (15 Teeth) 43 780112 Bearing, Needle 4 778126A Gear, Spur (20 Teeth) 44 780114 Washer, Flat 5 778128A Gear, Spur (28 Teeth) 45 780114 Washer 6 778122A Gear, Spur (22 Teeth) 46 788053 Ring, Square Cut 7 778124A Gear, Spur (30 Teeth) 47 772084 Cover, Transaxle 8 778125 Gear, Spur (35 Teeth) 48 784290 Rod & Fork Assy., Shift 9 778123A Gear, Spur (25 Teeth) 49 776135 Shaft, Input 10 778127A Gear, Spur (25 Teeth) 50 776183A Shaft, Brake | |
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| 2 778136 Gear, Spur (15 Teeth) 41 788051 Ring, Square Cut 2A 778145 Gear, Spur (12 Teeth) 42 788057 Ring, Square Cut 3 778151 Gear, Spur (15 Teeth) 43 780112 Bearing, Needle 4 778126A Gear, Spur (20 Teeth) 44 780114 Washer, Flat 5 778128A Gear, Spur (28 Teeth) 45 780114 Washer 6 778122A Gear, Spur (22 Teeth) 46 788053 Ring, Square Cut 7 778124A Gear, Spur (30 Teeth) 47 772084 Cover, Transaxle 8 778125 Gear, Spur (35 Teeth) 48 784290 Rod & Fork Assy., Shift 9 778123A Gear, Spur (25 Teeth) 49 776135 Shaft, Input 10 778127A Gear, Spur (25 Teeth) 50 776183A Shaft, Brake | |
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| 7 778124A Gear, Spur (30 Teeth) 47 772084 Cover, Transaxle 8 778125 Gear, Spur (35 Teeth) 48 784290 Rod & Fork Assy., Shift 9 778123A Gear, Spur (25 Teeth) 49 776135 Shaft, Input 10 778127A Gear, Spur (25 Teeth) 50 776183A Shaft, Brake | |
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| 10 778127A Gear, Spur (25 Teeth) 50 776183A Shaft, Brake | |
| | |
| 11 778146A Gear, Spur (37 Teeth) 51 790007 Plate, Brake Pad | |
| 12 778154 Gear, Bevel (42 Teeth) 52 790006 Pad, Brake | |
| 13 784266 Collar, Shift 53 786026 Pin, Dowel | |
| 14 786083 Sprocket (18 Teeth) 54 792075 Locknut, 5/16-24 | |
| 15 786082 Sprocket (9 Teeth) 55 792076 Washer, Flat | |
| 16 776204 Shaft, Counter 56 790016 Lever, Brake | |
| 17 778176 Bevel Pinion, Input 57 792073 Screw, Hex Hd., Thread | |
| 18 786074 Spacer Forming, 1/4-20 x 1/-1/4 | |
| 19 778138 Pinion, Output 57A 792085 Screw, Hex Hd. Thread | |
| 20 778139 Gear, Output Forming, 1/4-20 x 2-1/4 | |
| 21 790003 Disk, Brake 58 790005 Holder, Brake Pad | |
| 22 792089A Key 59 778175 Gear Assy., Differential | |
| 23 780071 Bearing, Thrust (Incl. 2 of No. 60) | |
| 25 788040 Ring, Retaining 60 780064 Bushing | |
| 26 780105A Bushing, Flanged 60A 780120 Bushing | |
| 27 780118A Bushing, Flanged 61 778166 Gear, Bevel | |
| 28 786081 Chain, Roller (No. 41 Chain, 62 778131 Pinion, Bevel | |
| 24 Links) 63 786034 Pin, Drive | |
| 29 780072 Washer, Thrust 64 780065 Washer, Thrust | |
| 30 780122 Bearing, Needle 65 792109 Ring, Retaining | |
| 31 792077 Ball, Steel 66 792040 Pin, Roll | |
| 32 780109 Washer, Thrust 67 780001 Washer, Thrust | |
| 33 792078 Screw, Set, 3/8-16 x 3/8 68 774558 Axle (25-1/4" Long) | |
| 34 792079 Spring 69 774506 Axle (13-1/4" Long) | |
| 35 792073 Screw, Hex Hd. Thread 70 792035 Ring, Retaining | |
| Forming, 1/4-20 x 1-1/4 71 792074 Plug, Hex Hd., 9/16-18 Three | ead |
| 36 780108 Washer, Thrust 72 786092 Spacer | |
| 37 780121 Bearing, Ball 73 04007 Special Bolt | |
| 38 780113 Washer, Flat 788067 Gear Grease, Bentonite | |

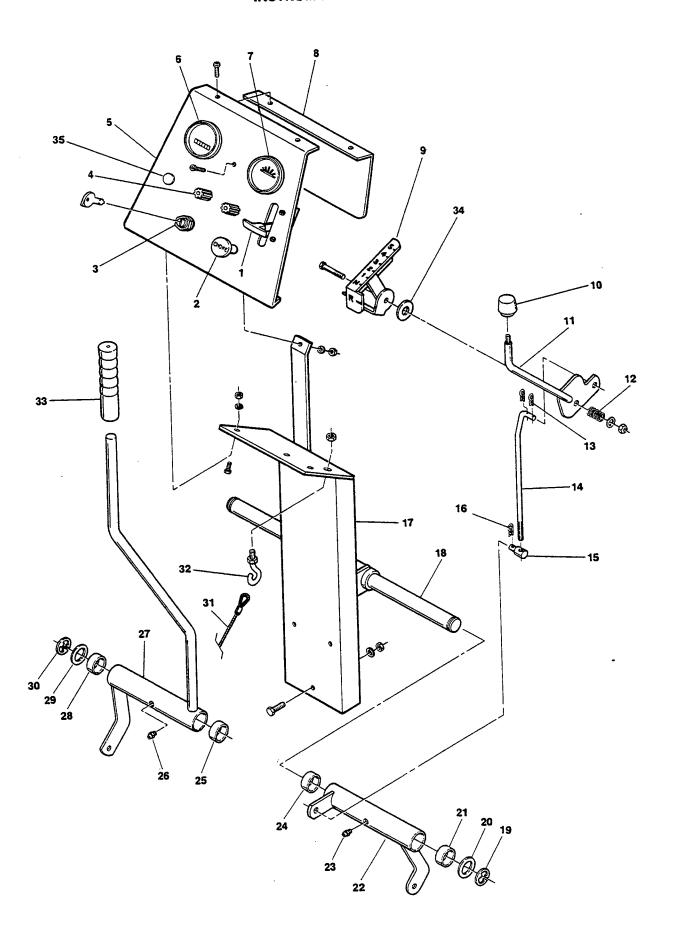
RIDER FRAME ASSEMBLY



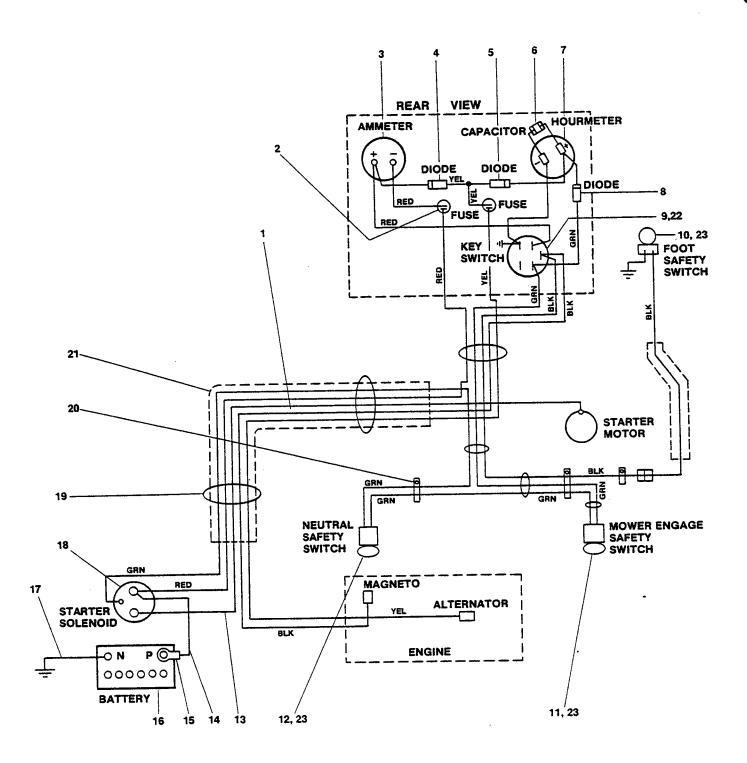
| Ref. No. Part No. Description Ref. No. Part No. Description | | | | | | |
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| 2A 48013-01 Seat Assy., Complete 34 48100-03 Bronze Bearing 2A 48014 Seat (No Arm Rests) 35 48114-01 Grease Fitting 3 42056 Seat Mounting Bracket 36 40021-07 Lock Nut, Hex Head 1/2-13 4 42056 Seat Mounting Bracket 37 45004 Steering Frame Weldment 5 45010 Steering Handle Weldment 38 48100-03 Bronze Bearing 6 48094 Handle Grip 39 48100-03 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 94050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 < | Ref. No. | Part No. | Description | Ref. No. | Part No. | Description |
| 2A 48013-01 Seat Assy., Complete 34 48100-03 Bronze Bearing 2A 48014 Seat (No Arm Rests) 35 48114-01 Grease Fitting 3 42056 Seat Mounting Bracket 36 04021-07 Lock Nut, Hex Head 1/2-13 4 42056 Seat Mounting Bracket 37 45004 Steering Frame Weldment 5 45010 Steering Handle Weldment 38 48100-03 Bronze Bearing 6 48094 Handle Grip 39 48100-03 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bott, Hex Head, 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 | 1 | 48013-02 | Arm Rest | 33 | 48100-06 | Bronze Bearing |
| 2A 48014 Seat (No Arm Rests) 35 48114-01 Grease Fitting 3 42056 Seat Mounting Bracket 36 04021-07 Lock Nut, Hex Head 1/2-13 5 45010 Steering Handle Weldment 38 48100-03 Bronze Bearing 6 48094 Handle Grip 39 48100-03 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 12 48114-01 Grease Fitting 45 43046 Bumper Stop 12 48114-01 Grease Fitting | | | | 34 | 48100-03 | Bronze Bearing |
| 3 42056 Seat Mounting Bracket 36 04021-07 Lock Nut, Hex Head 1/2-13 4 42056 Seat Mounting Bracket 37 45004 Steering Frame Weldment 5 45010 Steering Handle Weldment 38 48100-03 Bronze Bearing 6 48094 Handle Grip 39 48100-06 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-40 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bronze Bearing 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Sleeve 15 4802-0 Steering Cable Assem | | | | | 48114-01 | Grease Fitting |
| 4 42056 Seat Mounting Bracket 37 45004 Steering Frame Weldment 5 45010 Steering Handled Weldment 38 48100-03 Bronze Bearing 6 48094 Handle Grip 39 48100-06 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head. 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Sleeve 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 | | 42056 | | 36 | 04021-07 | Lock Nut, Hex Head 1/2-13 |
| 5 45010 Steering Handle Weldment 38 48100-03 Bronze Bearing 6 48094 Handle Grip 39 48100-06 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head. 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Weldment 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Weldment 16 48100-02 Rear Wheel | | | | 37 | 45004 | Steering Frame Weldment |
| 6 48094 Handle Grip 39 48100-06 Bronze Bearing 7 42025 Seat Mounting Plate 40 48114-01 Grease Fitting 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head, 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Weldment 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot | | | | 38 | 48100-03 | Bronze Bearing |
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| 8 42026 Seat Support Spring 41 48100-04 Bronze Bearing 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head, 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Weldment 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 48005-01 | | | • | 40 | 48114-01 | Grease Fitting |
| 9 04050-05 Retaining Ring 42 48067 Pulley, Winch Cable 10 48100-02 Bronze Bearing 43 04001-36 Bolt, Hex Head, 1/2-13 x 5 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Weldment 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin 20 48004-02 Tire Only 55 48095 Grip 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 4804 Rubber Pad, LH 23 4805-05 Bearing Cone 59 48039 Rubber Pad, LH 24 48005-04 Bearing Cup 50 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, He 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, He 26 45033 Foot Safety Switch Weldment 62 48013-04 Seat Cushion 28 04050-02 Retaining Ring 64 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Fram Assy. 31 48026 Foot Safety Switch 68 48013-06 Arm Mounting Bracket, LH | | | | 41 | 48100-04 | Bronze Bearing |
| 10 | | | | 42 | 48067 | Pulley, Winch Cable |
| 11 04001-40 Bolt, Hex Head 5/8-11 x 9 44 48100-06 Bronze Bearing 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Weldment 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Grease Fitting 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-01 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin - 48004-02 Tire Only 55 48095 Grip - 48004-03 Rim Only < | | | • • | | 04001-36 | Bolt, Hex Head, 1/2-13 x 5 |
| 12 48114-01 Grease Fitting 45 43046 Bumper Stop 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Sleeve 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin | · - | | | 44 | 48100-06 | Bronze Bearing |
| 13 04021-03 Lock Nut, Hex Head 1/4-28 46 48097 Bumper Stop Cover Foot Pedal Weldment 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin | | | | 45 | 43046 | Bumper Stop |
| 14 45035 Rear Wheel Yoke Weldment 47 45019 Foot Pedal Weldment 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin 20 48005-02 Tire Only 55 48095 Grip 21 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-05 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 <td></td> <td></td> <td></td> <td>46</td> <td>48097</td> <td>Bumper Stop Cover</td> | | | | 46 | 48097 | Bumper Stop Cover |
| 15 48042 Steering Cable Assembly 48 48096 Foot Pedal Sleeve 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin 20 48005-03 Rim Only 55 48095 Grip 21 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-06 Bearing Cup 60 48036 | | | ··· | 47 | 45019 | Foot Pedal Weldment |
| 16 48100-02 Bronze Bearing 49 48114-01 Grease Fitting 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin | | | Steering Cable Assembly | 48 | 48096 | Foot Pedal Sleeve |
| 17 45008 Rear Wheel Pivot Weldment 50 48100-01 Bronze Bearing 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin 20 48004-02 Tire Only 55 48095 Grip 21 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45039 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 </td <td></td> <td></td> <td>•</td> <td>49</td> <td>48114-01</td> <td>Grease Fitting</td> | | | • | 49 | 48114-01 | Grease Fitting |
| 18 43020-02 Rear Wheel Spacer, Long 51 04050-03 Retaining Ring 19 43021 Rear Wheel Sleeve 52 04060-02 Roll Pin 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin - 48004-02 Tire Only 55 48095 Grip - 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, Heel Rest 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring <td></td> <td></td> <td></td> <td>50</td> <td>48100-01</td> <td>Bronze Bearing</td> | | | | 50 | 48100-01 | Bronze Bearing |
| 19 | | | | 51 | 04050-03 | Retaining Ring |
| 20 48005-01 Rear Wheel Tire & Rim Assy. 53 04060-01 Roll Pin - 48004-02 Tire Only 55 48095 Grip - 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 </td <td></td> <td></td> <td>•</td> <td>52</td> <td>04060-02</td> <td>Roll Pin</td> | | | • | 52 | 04060-02 | Roll Pin |
| w/Bearings 54 04060-01 Roll Pin — 48004-02 Tire Only 55 48095 Grip — 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30< | | | Rear Wheel Tire & Rim Assy. | 53 | 04060-01 | Roll Pin |
| — 48004-02 Tire Only 55 48095 Grip — 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 | | | • | 54 | 04060-01 | Roll Pin |
| — 48005-03 Rim Only 56 43027 Parking Brake Lever 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-08 Arm Mounting Bracket, LH 31 48026 Foot Safety Switc | | 48004-02 | | 55 | 48095 | Grip |
| 21 48005-06 Grease Seal 57 48053 Spring 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-08 Arm Mounting Bracket, LH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | _ | | - | 56 | 43027 | Parking Brake Lever |
| 22 43020-01 Rear Wheel Spacer, Short 58 48040 Rubber Pad, LH 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-08 Arm Mounting Bracket, LH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | 21 | | | 57 | 48053 | Spring |
| 23 48005-05 Bearing Cone 59 48039 Rubber Pad, RH 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | | 58 | 48040 | Rubber Pad, LH |
| 24 48005-04 Bearing Cup 60 48036 Heel Rest 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | • | 59 | 48039 | Rubber Pad, RH |
| 25 45009 Steering Shaft Weldment 61 48037 Rubber Pad, Heel Rest 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | 48005-04 | | 60 | 48036 | Heel Rest |
| 26 45033 Foot Safety Switch Weldment 62 48041 Rubber Pad, Safety Pedal 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | _ | | | 61 | 48037 | Rubber Pad, Heel Rest |
| 27 48100-01 Bronze Bearing 63 48013-03 Backrest Cushion 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | | 62 | 48041 | Rubber Pad, Safety Pedal |
| 28 04050-02 Retaining Ring 64 48013-04 Seat Cushion 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | • | 63 | 48013-03 | Backrest Cushion |
| 29 48100-06 Bronze Bearing 65 48013-05 Rear Cover 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | - | 64 | 48013-04 | Seat Cushion |
| 30 48114-01 Grease Fitting 66 48013-06 Frame Assy. 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | | 65 | 48013-05 | Rear Cover |
| 30A 43049 Foot Cable Sleeve 67 48013-07 Arm Mounting Bracket, RH 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | • | 66 | 48013-06 | Frame Assy. |
| 31 48026 Foot Safety Switch 68 48013-08 Arm Mounting Bracket, LH | | | | | | |
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| Ref. No. | Part No. | Description |
|----------|----------|--------------------|
| 1 | 48043 | Winch Assy. |
| 2 | 204009 | Shaft Bushing |
| 3 | 205116 | E-Ring |
| 4 | 304228 | Drive Shaft |
| 5 | 204362 | Pressure Plate |
| 6 | 404164 | Ratchet Wheel |
| 7 | 404163 | Pressure Washer |
| 8 | 204359 | Shaft Bushing |
| 9 | 304381 | Winch Handle |
| 10 | 204364 | Handle Spring |
| 11 | 205015 | Handle Nut |
| 12 | 205011 | Hex Locknut 3/8-16 |
| 13 | 205008 | Reel Shaft |
| 14 | 205155 | Lock Nut 7/16-14 |
| 15 | 304227 | Winch Reel |
| 16 | 204363 | Ratchet Spring |
| 17 | 404166 | Ratchet Spacer |
| 18 | 404409 | Ratchet Pawl |
| 19 | 205024 | Flat Washer |
| 20 | 205167 | Ratchet Bolt |
| 21 | 48045 | Winch Cable Assy. |
| 22 | 42127 | Cable Guide |



| Ref. No. | Part No. | Description |
|----------|----------|----------------------------------|
| 1 | 48090 | Throttle Control |
| 2 | 48091 | Choke Control |
| 3 | 48017 | Starter Key Switch |
| 4 | 48024 | Fuse Holder |
| _ | 48025 | Fuse, 20 Ampere |
| 5 | 42049 | Instrument Panel |
| 6 | 48023 | Hourmeter |
| 7 | 48022 | Ammeter |
| 8 | 42050 | Instrument Panel Cover |
| 9 | 45024 | Shift Quadrant Weldment |
| 10 | 48092 | Shifter Knob |
| 11 | 45023 | Shifter Handle Weldment |
| 12 | 48050 | Spring - Shifter Lever |
| 13 | 04062-01 | Hairpin |
| 14 | 43030 | Shift Adjust Rod |
| 15 | 43032 | Swivel Joint |
| 16 | 04062-01 | Hairpin |
| 17 | 45025 | Console Support Weldment |
| 18 | 43017 | Bell Crank Shaft |
| 19 | 04050-02 | Retainer Ring |
| 20 | 04041-08 | Spacer Washer |
| 21 | 48100-06 | Bronze Bearing |
| 22 | 45021 | Shifter Bell Crank Weldment |
| 23 | 48114-01 | Grease Fitting |
| 24 | 48100-06 | Bronze Bearing |
| 25 | 48100-06 | Bronze Bearing |
| 26 | 48114-01 | Grease Fitting |
| 27 | 45022 | Mower Engage Bell Crank Weldment |
| 28 | 48100-06 | Bronze Bearing |
| 29 | 04041-08 | Spacer Washer |
| 30 | 04050-02 | Retainer Ring |
| 31 | 48045 | Winch Cable Assy. |
| 32 | 04070-03 | Eyebolt, 3/8-16 |
| 33 | 48093 | Grip, Mower Lever |
| 34 | 04041-10 | Washer 2 x 3/8 x 16 Ga. |
| 35 | 48035 | Snap-in Plug |
| | | |



| Ref. No. | Part No. | Description |
|----------|----------|----------------------------|
| | | White Discussion |
| 1 | 48031 | Wiring Harness |
| 2 | 48024 | Fuse Holder |
| | 48025 | Fuse |
| 3 | 48022 | Ammeter |
| 4 | 48123 | Diode |
| 5 | 48123 | Diode |
| 6 | 48124 | Capacitor |
| 7 | 48023 | Hour Meter |
| 8 | 48123 | Diode |
| 9 | 48017 | Key Switch |
| 10 | 48026 | Foot Safety Switch |
| 11 | 48019 | Mower Engage Safety Switch |
| 12 | 48021 | Neutral Safety Switch |
| 13 | 48029-02 | Battery Cable |
| 14 | 48029-03 | Battery Cable |
| 15 | 48126 | Rubber Boot |
| 16 | 48015 | Battery |
| 17 | 48029-01 | Battery Cable |
| 18 | 48016 | Starter Solenoid |
| 19 | 48028 | Cable Tie |
| 20 | 48030 | Cable Clamp |
| 21 | 48033 | Plastic Conduit |
| 22 | 48018 | Connector, Starter Switch |
| 23 | 48020 | Connector, Safety Switch |
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DECALS

| 48071 | OPEI Danger |
|-------|--------------------------|
| 48072 | Heavy Duty Commercial |
| 48073 | Danger - Rotating Blades |
| 48074 | Shifter Index |
| 48076 | Throttle |
| 48077 | Scag's Logo |
| 48078 | Mower Engage |
| 48079 | Key Switch |
| 48088 | Brake System |
| 48089 | Maintenance |
| | |

TOUCH-UP PAINT

48008 Scag's Gold - Aerosol

And finally:

PLEASE BE CAREFUL

- 1. Keep all shields in place, especially grass discharge guard.
- 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-driven parts.
- 5. Keep off implement unless seat or platform is provided.
- 6. Keep others off.

FAILURE TO FOLLOW CAUTIOUS OPERATING PRACTICES CAN RESULT IN SERIOUS OPERATOR INJURY. BESIDES, WE WOULD LIKE YOU TO CONTINUE TO ENJOY AND PROFIT BY USING OUR PRODUCTS.