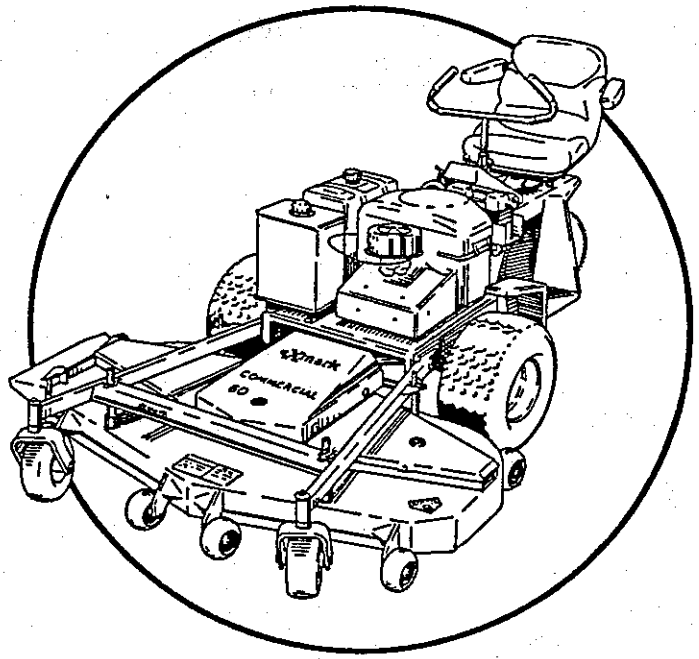
For Serial Nos.
90,000 & Higher

Exmark® MFG. CO. INC.

# Turf Ranger



## Parts Manual

CONGRATULATIONS on the purchase of your new Exmark mower. This product has been carefully designed and manufactured to give you a maximum amount of dependability and years of trouble-free operation.

If additional information is needed, or should you require trained mechanic service, contact your authorized Exmark equipment dealer or distributor.

If you need to order replacement parts from your dealer, always give the model number and serial number of your mower as well as the quantity, part number and description of the part needed.

The serial number plate of the tractor unit is located on the top right hand side of the engine frame. The serial number plate for the deck is located on the front support pin gusset on the right hand side of the deck. We suggest you record numbers for ready reference.

Tractor Model No. _____

Tractor Unit Serial No. _____

Deck Model No. _____

Deck Serial No. _____

Date Purchased _____

Purchased From _____

10. Disengage blade drive before starting.

11. Start the engine carefully with feet well away from the blades.

12. Keep hands, feet and clothing away from rotating parts while the mower is being operated.

13. Stop the engine and remove the ignition key.

    a) Before checking, cleaning or working on the mower.
    b) After striking a foreign object (inspect the mower for damage and make repairs before restarting and operating the mower).
    c) Before clearing blockages.
    d) Whenever you leave the mower.
    e) Before refueling.
    f) Before making height adjustments.

14. Return the throttle control to the idle position for 30 seconds for engine cool down before stopping the engine.

15. The fuel system is provided with a shut-off valve. The fuel shut-off valve is used to shut off the fuel when machine will not be used for a few days, when parking inside a building, or during transport to and from the job.

16. This mower was designed for one operator only. Keep all others off mower during operation.

17. Do not mow without grass deflector or entire grass collection system in place and in proper working condition.

18. Do not operate machine unless all guards, shields and covers are in place and in proper working condition.

19. If jump starting is required, connect positive (+) power cable from booster battery to positive power terminal post on starter solenoid switch. This post has the positive battery cable attached to it. Connect the ground (-) cable from booster battery to any engine deck ground, preferably the engine block.
    Disconnect cables in reverse order after starting.

20. ⚠ CAUTION: ALTHOUGH HAZARD CONTROL AND ACCIDENT PREVENTION PARTIALLY ARE DEPENDENT UPON THE DESIGN AND CONFIGURATION OF THE EQUIPMENT, THESE FACTORS ARE ALSO DEPENDENT UPON THE AWARENESS, CONCERN, PRUDENCE, AND PROPER TRAINING OF THE PERSONNEL INVOLVED IN THE OPERATION, TRANSPORT, MAINTENANCE AND STORAGE OF THE EQUIPMENT. IT IS ESSENTIAL THAT ALL OPERATOR SAFETY MECHANISMS BE CONNECTED AND IN OPERATING CONDITION PRIOR TO USE FOR MOWING.

**Maintenance and Storage**

1. Precisely follow the engine manufacturer's recommendations for maintenance.

2. If carburetor adjustment is necessary, stand to one side and keep feet and hands clear while making adjustments.

3. Keep engine free from accumulation of grass, leaves or excessive grease or oil. An accumulation of these combustible materials may result in a fire.

4. Store fuel in a container specifically designed for this purpose in a cool, dry place.

5. Keep the mower and fuel container in locked storage to prevent children from playing or tampering with them.

6. Gasoline powered equipment or fuel containers should not be stored in a basement or any closed area, where heat appliances or open pilot lights are present.

7. Maximum mowing results and safety can only be achieved if the mower is properly maintained and operated correctly.

8. Check all bolts frequently to maintain proper tightness.

9. Keep all guards, shields and other safety devices in place and in safe working condition.

10. Check for worn or deteriorating components that could create a hazard.

11. All replacement parts must be the same as or equivalent to the parts supplied as original equipment.

⚠ CAUTION: HYDRAULIC FLUID ESCAPING UNDER PRESSURE MAY HAVE SUFFICIENT FORCE TO PENETRATE SKIN AND CAUSE SERIOUS INJURY. IF FOREIGN FLUID IS INJECTED INTO THE SKIN, IT MUST BE SURGICALLY REMOVED WITHIN A FEW HOURS BY A DOCTOR FAMILIAR WITH THIS FORM OF INJURY OR GANGRENE MAY RESULT.

⚠ CAUTION: KEEP BODY AND HANDS AWAY FROM PIN HOLES OR NOZZLES THAT EJECT HYDRAULIC FLUID UNDER HIGH PRESSURE. USE PAPER OR CARDBOARD AND NOT HANDS TO SEARCH FOR LEAKS.

⚠ CAUTION: SAFELY RELIEVE ALL PRESSURE IN THE SYSTEM BEFORE DISCONNECTING THE LINES OR PERFORMING WORK ON THE SYSTEM.

⚠ CAUTION: MAKE SURE ALL HYDRAULIC FLUID CONNECTIONS ARE TIGHT AND ALL HYDRAULIC HOSES AND LINES ARE IN GOOD CONDITION BEFORE APPLYING PRESSURE TO THE SYSTEM.

**Safety Signs**

1. Keep all safety signs legible. Remove all grease, dirt and debris from safety signs.

2. Safety signs must be replaced if they are missing or illegible.

3. When new components are installed, be sure that current safety signs are affixed to the replaced components.

4. New safety signs may be obtained from your authorized Exmark equipment dealer or distributor or from Exmark Mfg. Co. Inc.

5. Safety signs may be affixed by peeling off the backing to expose the adhesive surface. Apply only to a clean, dry surface. Smooth to remove any air bubbles.

6. Familiarize yourself with the safety signs and instructional labels. They are critical to the safe operation of your Exmark commercial mower.

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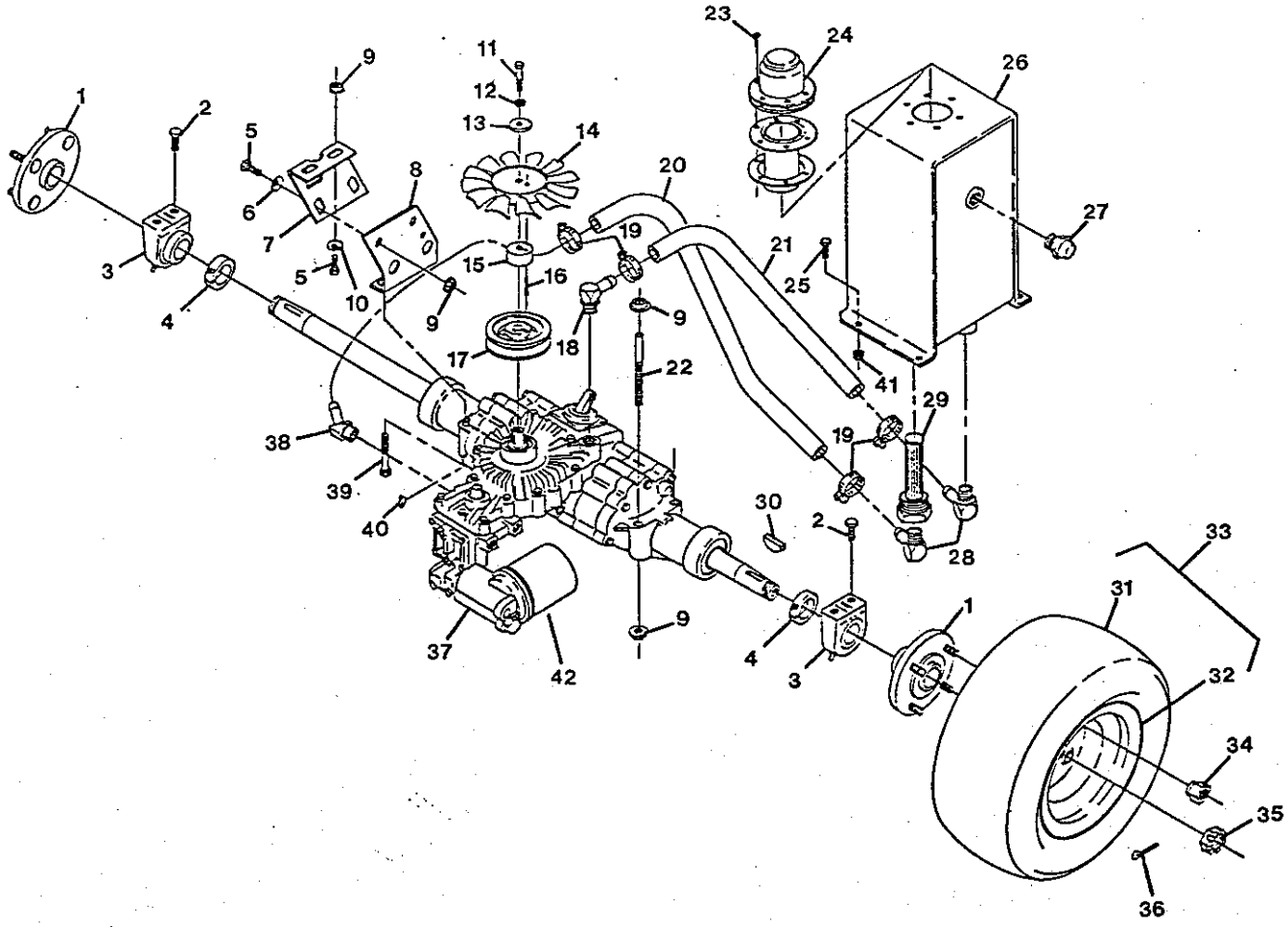
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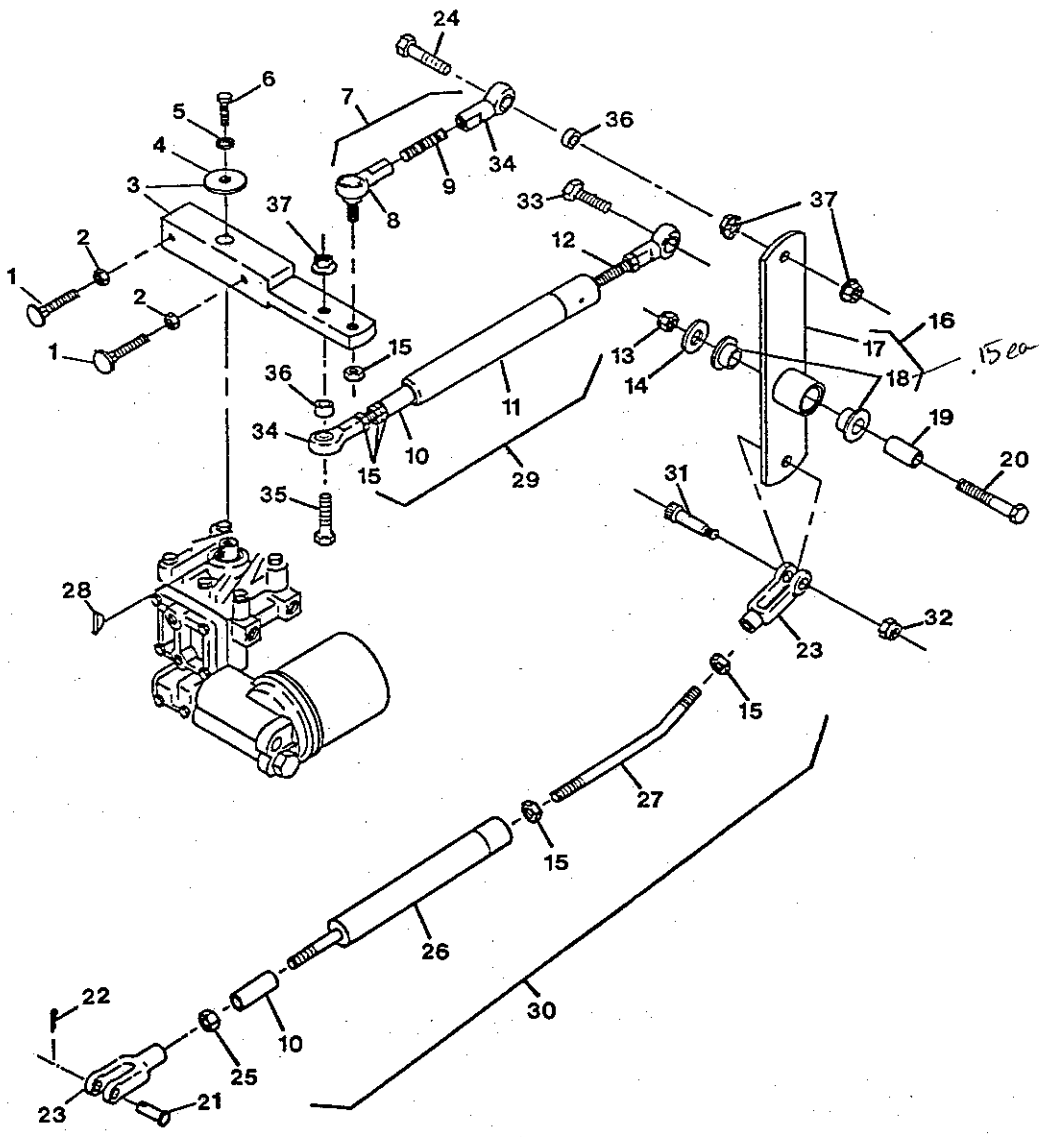


## AXLE AND HYDRAULICS

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| *1 | 602997 | 2 | Tapered Wheel Hub |
| 2 | 803045 | 4 | Whizlock Bolt 3/8-16 x 3/4 |
| *3 | 543485 | 2 | Bearing - Pillow Base |
| | 840022 | | Pro-Lock, Nut Type (.5cc Tube) Use on Setscrews in Brgs. |
| *4 | 373021 | 2 | 1" Clamp Collar |
| 5 | 800290 | 4 | 3/8-16 x 3/4 HHCS |
| 6 | 303327 | 2 | 3/8 Disc Spring Washer |
| 7 | 543996 | 1 | Stabilizer - Axle Upper |
| 8 | 542612 | 1 | Stabilizer - Axle Lower |
| 9 | 809007 | 8 | Nut - 3/8-16 Whizlock |
| 10 | 805260 | 2 | 3/8 Std. Flat Washer |
| 11 | 800256 | 1 | 1/4-20 x 1-1/2 HHCS |
| 12 | 805004 | 1 | 1/4 Hvy Spring Lockwasher |
| 13 | 503033 | 1 | Pulley - Retainer Washer |
| 14 | 543359 | 1 | Fan - 7" O.D./10 Blade |
| 15 | 543317 | 1 | Spacer - Fan |
| 16 | 806328 | 1 | Rollpin - 7/32 x 7/8 |
| 17 | 543928 | 1 | Pulley - Cast Iron |
| 18 | 543887 | 1 | Elbow - 90° |
| | 603919 | 1 | O-Ring |
| 19 | 543892 | 4 | Hose Clamp |
| 20 | 543930 | 1 | Hose - 17.25 Push Lok |
| 21 | 543931 | 1 | Hose - 8.0 Push Lok |
| 22 | 543054 | 2 | Pin - Guide |

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 23 | 802002 | 6 | #10-32 x 1/2 Thd Cutting Scrw |
| 24 | 543541 | 1 | Breather - Filler & Cap |
| 25 | 800271 | 1 | 5/16-18 x 3/4 HHCS |
| 26 | 542913 | 1 | Tank - Hyd. Wldmnt |
| 27 | 543894 | 1 | Oil Eye - Hyd Tank |
| 28 | 543889 | 2 | Elbow 90° |
| 29 | 543864 | 1 | Suction Strainer |
| 30 | 807018 | 2 | Woodruff Key |
| 31 | 543680 | 2 | Tire - 20 x 10-8 |
| 32 | 513042 | 2 | Rim |
| 33 | 543396 | 2 | Wheel & Tire Assy |
| 34 | 513011 | 8 | 1/2-20 Wheel Nut |
| 35 | 803040 | 2 | Slotted Nut 3/4-16 |
| 36 | 806800 | 2 | Cotter Pin 9/64 x 1-1/2 |
| 37 | 543055 | 1 | Transaxle 851-114 Series |
| 38 | 543888 | 1 | Elbow - 45° |
| | 603919 | 1 | O-Ring |
| 39 | 800298 | 2 | 3/8-16 x 2-1/2 HHCS |
| | 840022 | | Pro-Lock, Nut Type (.5cc Tube) Use on Threads |
| 40 | 807006 | 1 | #61 Woodruff Key |
| 41 | 809001 | 4 | 5/16-18 Whizlock Nut |
| 42 | 513211 | 1 | Oil Filter Element |

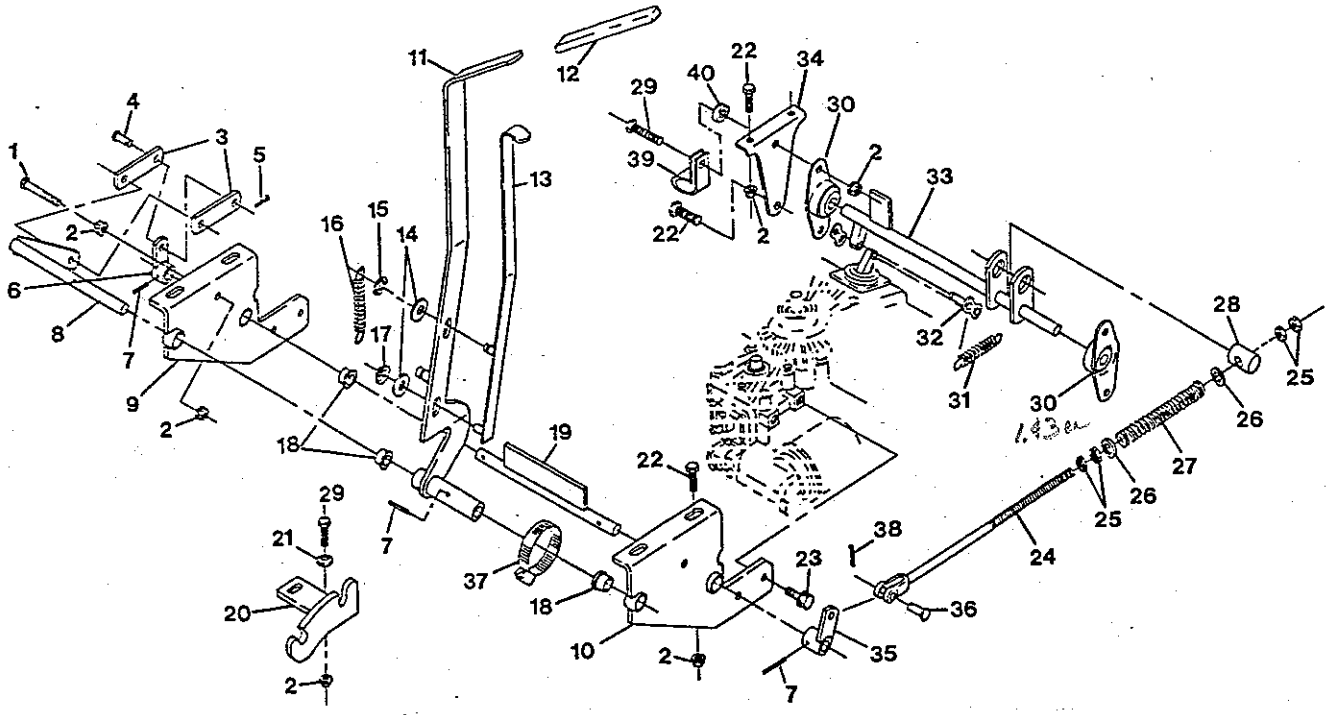
* Apply Anti-Seize Compound to Bore.




## MOTION CONTROLS

| PART # | QTY. | DESCRIPTION |
|---|---|---|
| 807522 | 2 | 5/16-18 x 2 Carr. Bolt |
| 804506 | 2 | 5/16-18 Reg Hex Nut |
| 542916 | 1 | Arm Wldmt - Transaxle |
| 503033 | 1 | Pulley Retainer Washer |
| 805004 | 1 | 1/4 Heavy Spring Lockwasher |
| 800751 | 1 | 1/4-20 x 1-1/2 HH Capscrew Gr. 8 |
| 544722 | 1 | Linkage - Motion Control |
| 513132 | 1 | Joint, Ball |
| 543710 | 1 | Rod End Pltd. |
| 513479 | 2 | Bushing, Spring Guide |
| 542724 | 1 | Centering Spring Weldment |
| 543148 | 1 | Rod - End |
| 804256 | 1 | 5/16-18 Nyloc Hex Nut |
| 805258 | 1 | 5/16 Std Flat washer |
| 804758 | 13 | Jam Nut RH 5/16-24 |
| 544711 | 1 | Idler - Linkage S/A |
| 542144 | 1 | Idler Wldmt - Linkage |
| 513140 | 2 | Bearing, Control |

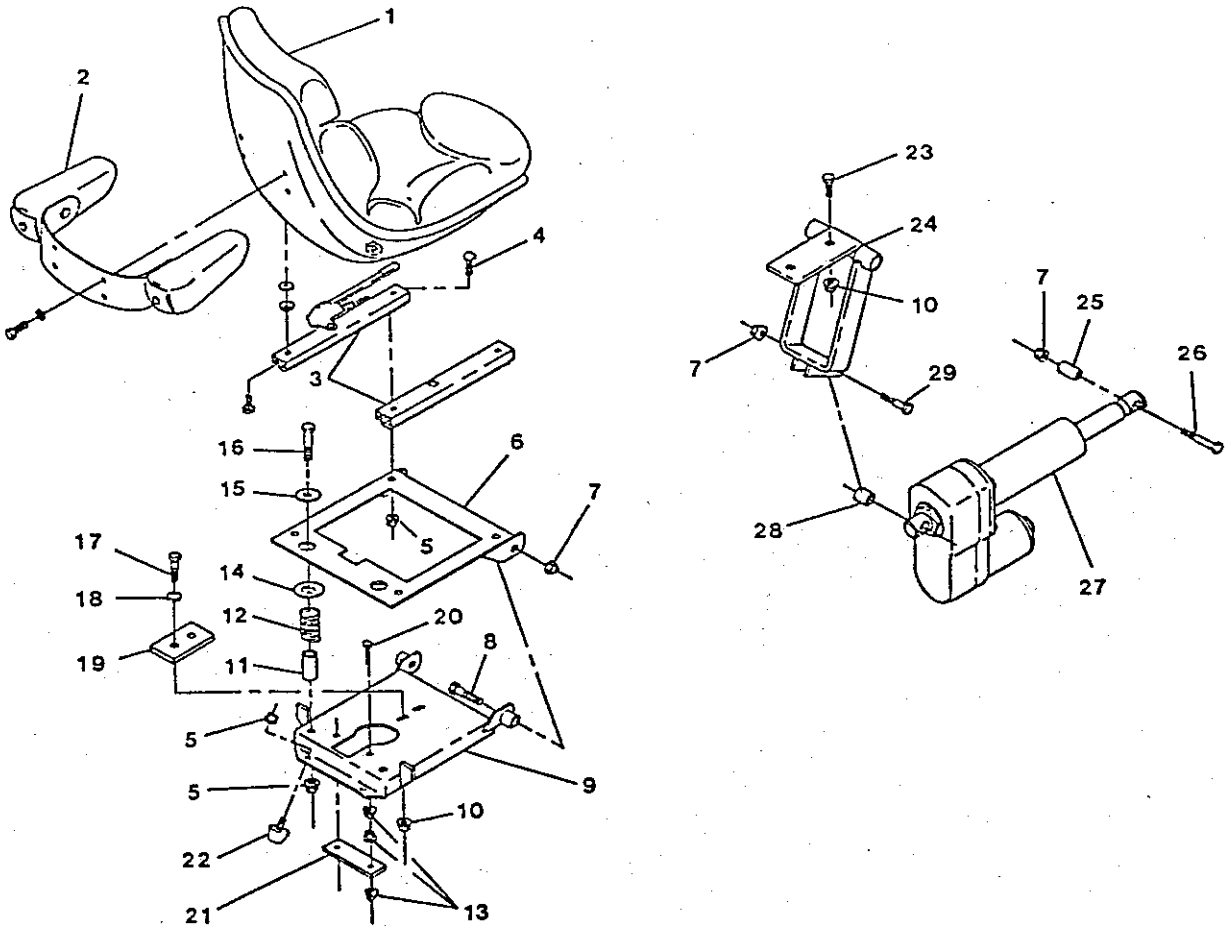
| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 19 | 543486 | 1 | Bushing |
| 20 | 800279 | 1 | 5/16-18 x 2-1/2 HH Capscrew |
| 21 | 808280 | 1 | 5/16 x 1 Clevis Pin |
| 22 | 806753 | 1 | 3/32 x 1/2 Cotter Pin |
| 23 | 303105 | 2 | Adjustable Yoke |
| 24 | 800275 | 1 | 5/16-18 x 1-1/2 HHCS |
| 25 | 804521 | 1 | 5/16-24 Reg Hex Nut |
| 26 | 512136 | 1 | Housing Wldmt, Override |
| 27 | 543052 | 1 | Rod - Link |
| 28 | 807002 | 1 | Key - 1/8 x 1/2 Wdrf #3 |
| 29 | 542725 | 1 | Center Spring Assy - Pedal |
| 30 | 542053 | 1 | Override - Pedal Spring |
| 31 | 809057 | 1 | Hx Socket Hd Shoulder Screw |
| 32 | 804255 | 1 | 1/4-20 Nyloc Nut |
| 33 | 800513 | 1 | 5/16-24 x 1 Hex Head Cpscrw |
| 34 | 543017 | 3 | Ball Joint |
| 35 | 800274 | 1 | 5/16-18 x 1-1/4 HHCS |
| 36 | 603500 | 2 | Spacer |
| 37 | 809001 | 3 | 5/16-18 Whizlock Nut |



# PARKING BRAKE

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 800278 | 1 | 5/16-18 x 2-1/4 HH Cap |
| 2 | 809001 | 13 | 5/16-18 Whizlock Nut |
| 3 | 543115 | 2 | Link - Brake |
| 4 | 808278 | 2 | 5/16 x 3/4 Clevis Pin |
| 5 | 806761 | 2 | 1/8 x 3/4 Cotter Pin |
| 6 | 542123 | 1 | Arm Wldmt - Btrfly Ctr |
| 7 | 806328 | 3 | Roll Pin - 7/32 x 7/8 |
| 8 | 542190 | 1 | Pivot Wldmt - Brake Lever |
| 9 | 542924 | 1 | Supt. Wldmt - Trans LH |
| 10 | 542926 | 1 | Supt. Wldmt - Trans RH |
| 11 | 542192 | 1 | Handle Wldmt - Brake |
| 12 | 303020 | 1 | Grip (Adj. Lever) |
| 13 | 542719 | 1 | Trigger Wldmt - Brake |
| 14 | 805257 | 2 | 5/16 SAE Washer |
| 15 | 808512 | 1 | E Ring |
| 16 | 513468 | 1 | Spring - Brake Handle |
| 17 | 543798 | 1 | Pushnut - .312 Flt Rnd |
| 18 | 513140 | 4 | Bearing Control |
| 19 | 542125 | 1 | Butterfly Wldmnt |
| 20 | 542900 | 1 | Quadrant Wldmt - Brake |

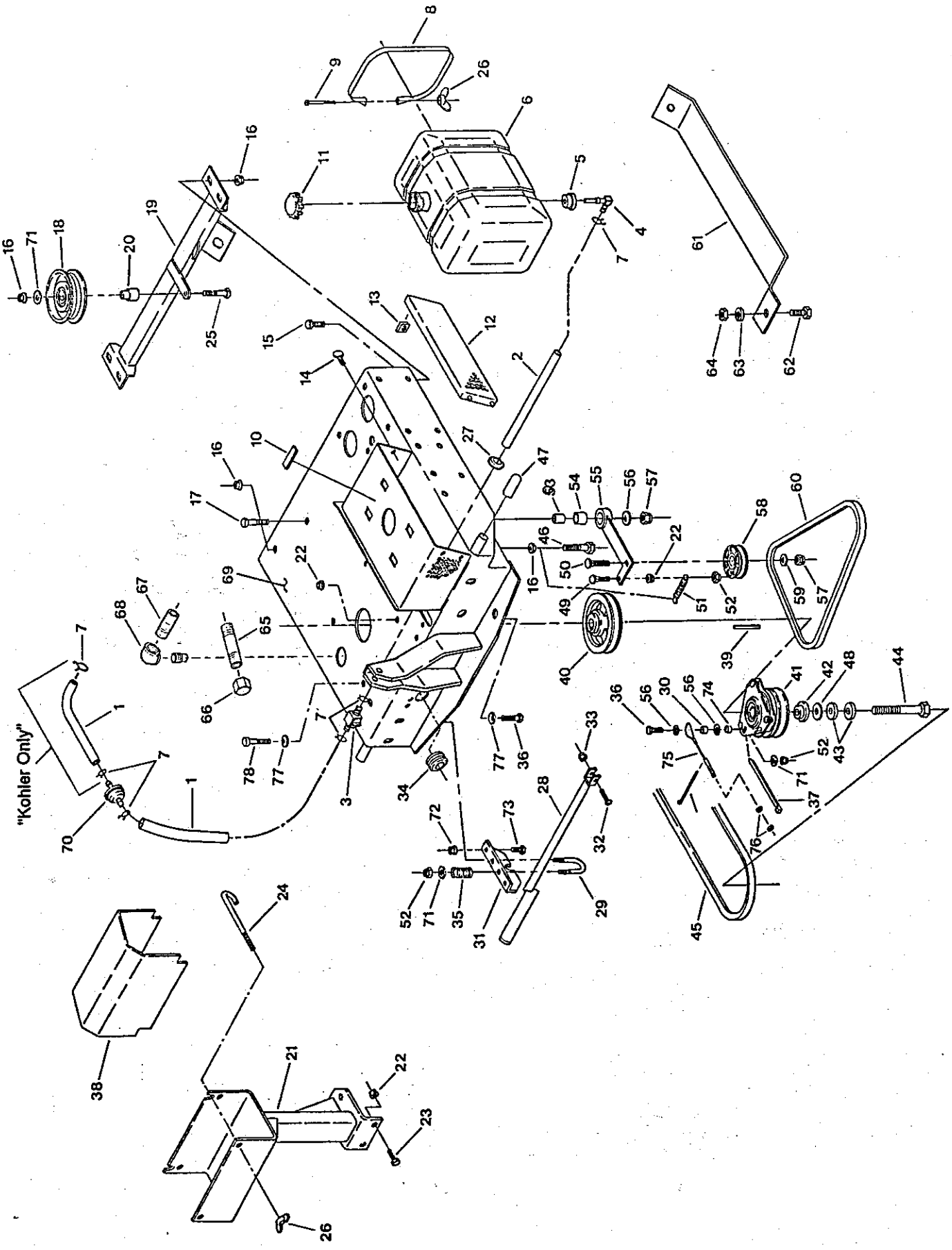
| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 21 | 303334 | 2 | 5/16 Disc Washer |
| 22 | 800271 | 9 | 5/16-18 x 3/4 HH Capscrew |
| 23 | 803032 | 4 | Bolt, Whizlock 5/16-18 x 3/4 |
| 24 | 543721 | 1 | Linkage - Brake |
| 25 | 804760 | 4 | Jam Nut 3/8-24 Pltd. |
| 26 | 805260 | 2 | Washer, Flat - 3/8 |
| 27 | 543132 | 1 | Spring, Brk Protect |
| 28 | 543129 | 1 | Pin - Trunion |
| 29 | 800273 | 2 | 5/16-18 x 1 HH Capscrew |
| 30 | 543514 | 2 | Flange Mtg, Side |
| 31 | 543543 | 1 | 3 x 1/2 Spring |
| 32 | 543745 | 1 | Link Connector #60 |
| 33 | 542748 | 1 | Jackshaft Wldmt - Brk |
| 34 | 543138 | 1 | Mount - Jackshaft Brg. |
| 35 | 542121 | 1 | Arm Wldmt - Brk Control |
| 36 | 808280 | 1 | 5/16 x 1 Clevis Pin |
| 37 | 543892 | 1 | Hose Clamp |
| 38 | 806753 | 1 | 3/32 x 1/2 Cotter Pin |
| 39 | 213148 | 1 | Clamp |
| 40 | 543007 | 1 | Spacer |




## SEAT ASSEMBLY AND LIFT ACTUATOR

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 513147 | 1 | Seat |
| 2 | 513149 | 1 | Kit - Armrest (Optional) |
| 3 | 543368 | 1 | Slide, Seat Fore/Aft |
| 4 | 807503 | 4 | 5/16-18 x 3/4 Carr. SSN |
| 5 | 809001 | 8 | 5/16-18 Whizlock Nut |
| 6 | 542494 | 1 | Plate Widmt - Seat Mnt |
| 7 | 804257 | 4 | 3/8-16 Nyloc Hex Nut |
| 8 | 800296 | 2 | 3/8-16 x 2 HHCS |
| 9 | 542951 | 1 | Plate Widmt - Seat |
| 10 | 809007 | 4 | Nut - 3/8-16 Flng Hex |
| 11 | 513479 | 2 | Bushing, Spring Guide |
| 12 | 513296 | 2 | Spring, Reverse Indicator |
| 13 | 809012 | 6 | 1/4-20 Whizlock Nut |
| 14 | 805264 | 2 | 1/2 Std Flat Washer |

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 15 | 213069 | 2 | Strut - Adjustment Spacer |
| 16 | 800278 | 2 | 5/16-18 x 2-1/4 HH Capscrew |
| 17 | 800294 | 2 | 3/8-16 x 1-1/2 Capscrew |
| 18 | 303327 | 2 | 3/8 Disc Spring Washer |
| 19 | 543500 | 1 | Support, Seat Plate |
| 20 | 800007 | 2 | 1/4-20 x 1-1/4 HH Tap Screw |
| 21 | 543953 | 1 | Strap - Switch Engagement |
| 22 | 543963 | 2 | Bumper - Rubber |
| 23 | 800290 | 2 | 3/8-16 x 3/4 HH Capscrew |
| 24 | 542868 | 1 | Pivot Weldment - Actuator |
| 25 | 543186 | 1 | Spacer - Electric Lift |
| 26 | 800299 | 1 | 3/8-16 x 2-3/4 HHCS |
| 27 | 543361 | 1 | Actuator, Linear |
| 28 | 543708 | 1 | Spacer - Rear |
| 29 | 800297 | 1 | 3/8-16 x 2-1/4 HHCS |


"Kohler Only"

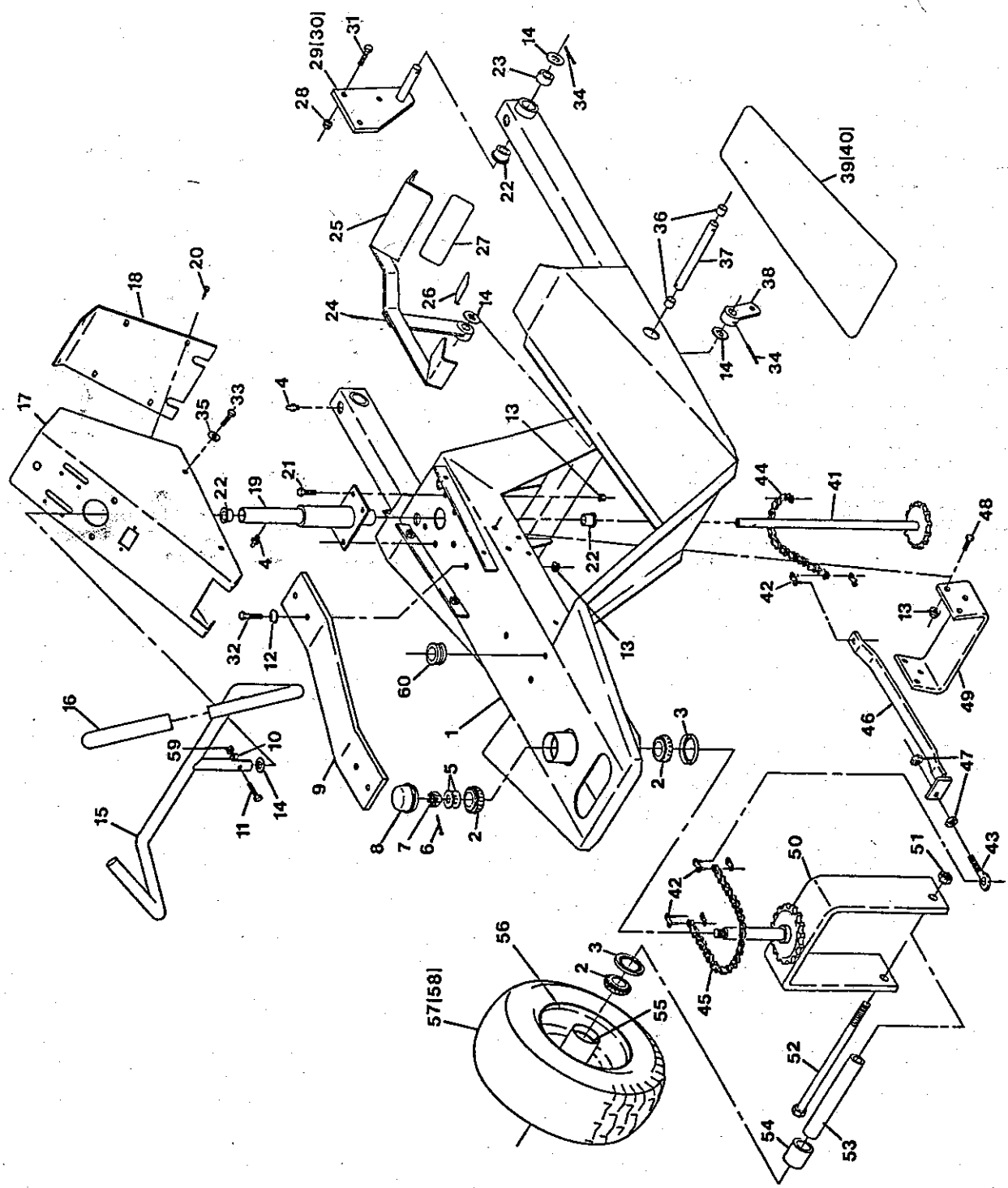
# ENGINE DECK GROUP

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 303471 | 2 | Fuel Line - (Kohler) |
| | 303307 | 1 | Fuel Line - (18 BV) |
| 2 | 303306 | 1 | Fuel Line |
| 3 | 603770 | 1 | Valve - Fuel Line |
| 4 | 543277 | 1 | Elbow - Fuel Tank w/Screen |
| 5 | 513645 | 1 | Bushing, Fuel Valve |
| 6 | 543364 | 1 | Tank, Gas |
| 7 | 303077 | 6 | Clamp - Gas Line (20 KC) |
| | | 4 | Clamp - Gas Line (18 BV) |
| 8 | 303465 | 2 | Strap, Fuel Tank |
| 9 | 801060 | 2 | Machine Screw 1/4-20 x 2 |
| 10 | 303315 | 2 | Gas Tank Pad |
| 11 | 513508 | 1 | Cap - Fuel Tank |
| 12 | 542045 | 1 | Screen - Air Intake |
| 13 | 809024 | 1 | 1/4-20 Nut Retainer |
| 14 | 543791 | 1 | Screw - Heavy Thumb |
| 15 | 800290 | 4 | 3/8-16 x 3/4 Capscrew |
| 16 | 809007 | 7 | Nut - 3/8-16 Flng Hex |
| 17 | 800296 | 1 | 3/8-16 x 2 HH Capscrew |
| 18 | 543877 | 1 | Pulley, Idler 5 3/4 OD |
| 19 | 542958 | 1 | Cross Member Wldmt |
| 20 | 543879 | 1 | Bushing, Idler |
| 21 | 542069 | 1 | Mount Wldmt - Battery |
| 22 | 809001 | 9 | 5/16-18 Whizlock Nut |
| 23 | 800271 | 4 | 5/16-18 x 3/4 HH Capscrew |
| 24 | 543882 | 2 | Bolt - Hold Down |
| 25 | 800297 | 1 | 3/8-16 x 2-1/4 Hex Hd Capscrew |
| 26 | 543792 | 4 | Wingnut - Nyloc 1/4 |
| 27 | 543296 | 1 | Grommet - Fuel Line |
| 28 | 542948 | 1 | Lever - Drive Release |
| 29 | 543935 | 1 | 5/16-18 U-Bolt |
| 30 | 543007 | 1 | Spacer - Clutch Anchor |
| 31 | 543933 | 1 | Brkt - Neut Lever |
| 32 | 801056 | 1 | Screw - 12-24 x 1.38 Slt |
| 33 | 804254 | 1 | Nut - 12-24 Nyloc Hex |
| 34 | 543286 | 1 | Grommet |
| 35 | 303160 | 2 | Compression Spring |
| 36 | 800275 | 4 | 5/16-18 x 1-1/2 HH Capscrew |
| 37 | 303335 | 1 | Plastic Tie - Large |
| 38 | 543891 | 1 | Battery Cover |
| 39 | 807266 | 1 | Key - 1/4 x 1/4 x 2-3/8 Mach |
| 40 | 543929 | 1 | Pulley - Engine |
| *41 | 543860 | 1 | Clutch, Electric (Ogura) |
| 42 | 543865 | 1 | Bushing - Clutch Keeper |
| 43 | 603610 | 2 | 7/16 Spring Disc Washer |
| 44 | 800820 | 1 | Capscrew - 7/16-20 x 3 HH |
| | 840022 | | Pro-Lock, Nut type (.5 ml Tube) Use on Threads |
| 45 | 323300 | 1 | Belt - Deck Drive (60" Deck) |
| | 543028 | 1 | Belt - Deck Drive (52" Deck) |

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 46 | 800295 | 1 | 3/8-16 x 1-3/4 HH Capscrew |
| 47 | 303021 | 2 | Grip (Drive Lever) |
| 48 | 373034 | 1 | Washer - Pivot |
| 49 | 807518 | 1 | Bolt - 5/16-18 x 1-1/4 Carr. |
| 50 | 807517 | 1 | Bolt - 3/8-16 x 1-3/4 Carr. |
| 51 | 513170 | 1 | Spring |
| 52 | 804256 | 4 | 5/16-18 Nyloc Hex Nut |
| 53 | 543274 | 1 | Bushing, Steel |
| 54 | 543502 | 1 | Bushing, Bronze |
| 55 | 542270 | 1 | Arm Wldmt - Hyd Dr Idlr |
| 56 | 213069 | 3 | Strut - Adj Spacer |
| 57 | 804257 | 2 | 3/8-16 Nyloc Hex Nut |
| 58 | 543008 | 1 | Pulley - Idler, Steel |
| 59 | 805260 | 1 | 3/8 Std Flat Washer |
| 60 | 543548 | 1 | Belt A Trans Drive |
| 61 | 543258 | 1 | Plate - Skid Painted |
| 62 | 800326 | 2 | Capscrew - 1/2-13 x 1.25 HH |
| 63 | 805008 | 2 | 1/2 Reg Sprg Lockwasher |
| 64 | 804509 | 2 | 1/2-13 Reg Hex Nut |
| **65 | 543232 | 1 | Nipple, 3/8 NPT x 4.0 (18BV) |
| 66 | 543233 | 1 | Cap, 3/8 NPT Hex (18BV) |
| **67 | 543064 | 1 | Nipple, 3/8 NPT x 1.5 (20 KC) |
| **68 | 303428 | 1 | Elbow, 3/8 NPT (20KC) |
| 69 | 542082 | 1 | Deck Wldmt - Engine |
| 70 | 303197 | 1 | Gas Filter |
| 71 | 805258 | 4 | 5/16 Standard Flatwasher |
| 72 | 809012 | 2 | Nut, 1/4-20 Whizlock |
| 73 | 800251 | 2 | 1/4-20 x 5/8 HH Capscrew |
| 74 | 323093 | 1 | Spacer |
| 75 | 542046 | 1 | Cable Assembly |
| 76 | 804255 | 2 | 1/4-20 Nyloc Hex Nut |
| 77 | 303334 | 4 | 5/16 Disc Spring Washer |
| 78 | 800276 | 1 | 5/16-18 x 1-3/4 HH Capscrew |
| 79 | 303287 | 1 | Plastic Tie - Small |

*NOTE: For units produced with the Warner 5215-14 electric clutch, replace said clutch with Kit #541003 which includes Ogura clutch and necessary parts to install to your unit.

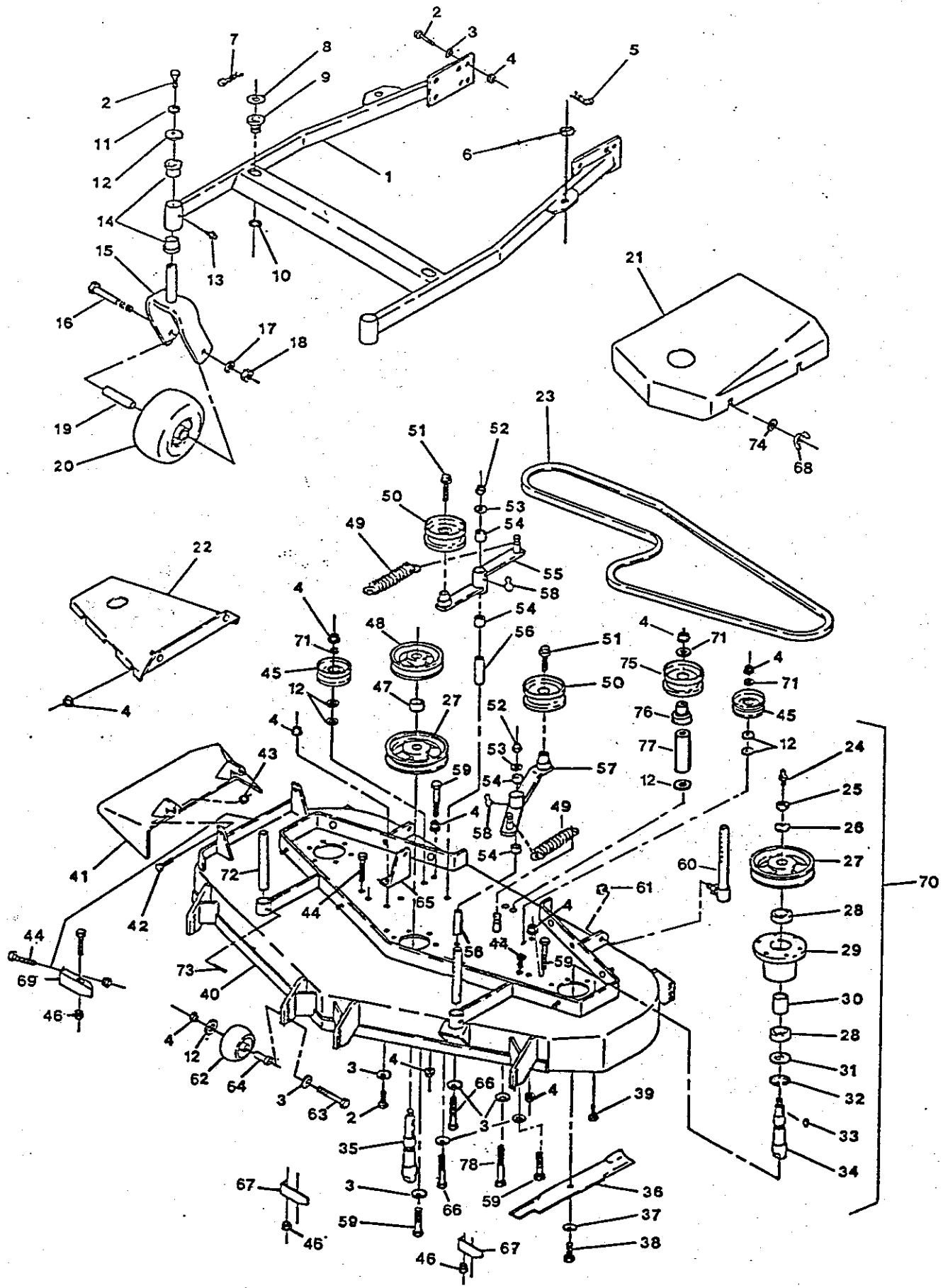
** Use Teflon Pipe Sealant or equivalent on threads


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# RIDER FRAME & STEERING

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 542920 | 1 | Frame Wldmt - Rider |
| 2 | 543509 | 4 | Bearing, Taprd Roller |
| 3 | 543511 | 3 | Seal, Grease |
| 4 | 811006 | 3 | Zerk, 1/4-28 Strt |
| 5 | 805269 | 2 | 3/4 S.A.E. Flat Washer |
| 6 | 806770 | 1 | Cotter Pin - 5/32 x 1.25 |
| 7 | 803040 | 1 | Nut Hex Sltd 3/4-16 |
| 8 | 543513 | 1 | Cap - Grease |
| 9 | 543498 | 1 | Seat Spring |
| 10 | 805259 | 1 | Washer, Flat 3/8 |
| 11 | 800294 | 1 | 3/8-16 x 1-1/2 Capscrew |
| 12 | 303327 | 2 | 3/8 Disc Spring Washer |
| 13 | 809007 | 13 | Nut - 3/8-16 Flng Hex |
| 14 | 303007 | 5 | Washer - 6" Caster Pivot |
| 15 | 542428 | 1 | Handle Bar - Painted |
| 16 | 543575 | 2 | Grip, handle Bar |
| 17 | 542939 | 1 | Console |
| 18 | 543716 | 1 | Cover - Console Painted |
| 19 | 542854 | 1 | Steering Post |
| 20 | 802006 | 6 | #10-24 x 10-24 x 1/2 Slt. Hd. Hx. Thrd. Cut Screw |
| 21 | 800290 | 4 | 3/8-16 x 3/4 Capscrew |
| 22 | 303199 | 4 | 6" Caster Flange |
| 23 | 303200 | 2 | 6" Caster Sleeve |
| 24 | 806331 | 2 | Roll Pin - 1/4 x 1-1/4 |
| 25 | 542183 | 1 | Pedal Wldmt - Foot, Ptd |
| 26 | 543161 | 1 | Pad - Rev Cntrl Pedal |
| 27 | 543160 | 1 | Pad - Forwd Control Pedal |
| 28 | 809001 | 9 | 5/16-18 Whizlock Nut |
| 29 | 542196 | 1 | Brkt Wldmt Pivot RH |
| 30 | 542194 | 1 | Bracket, Pivot LH (Not Shown) |

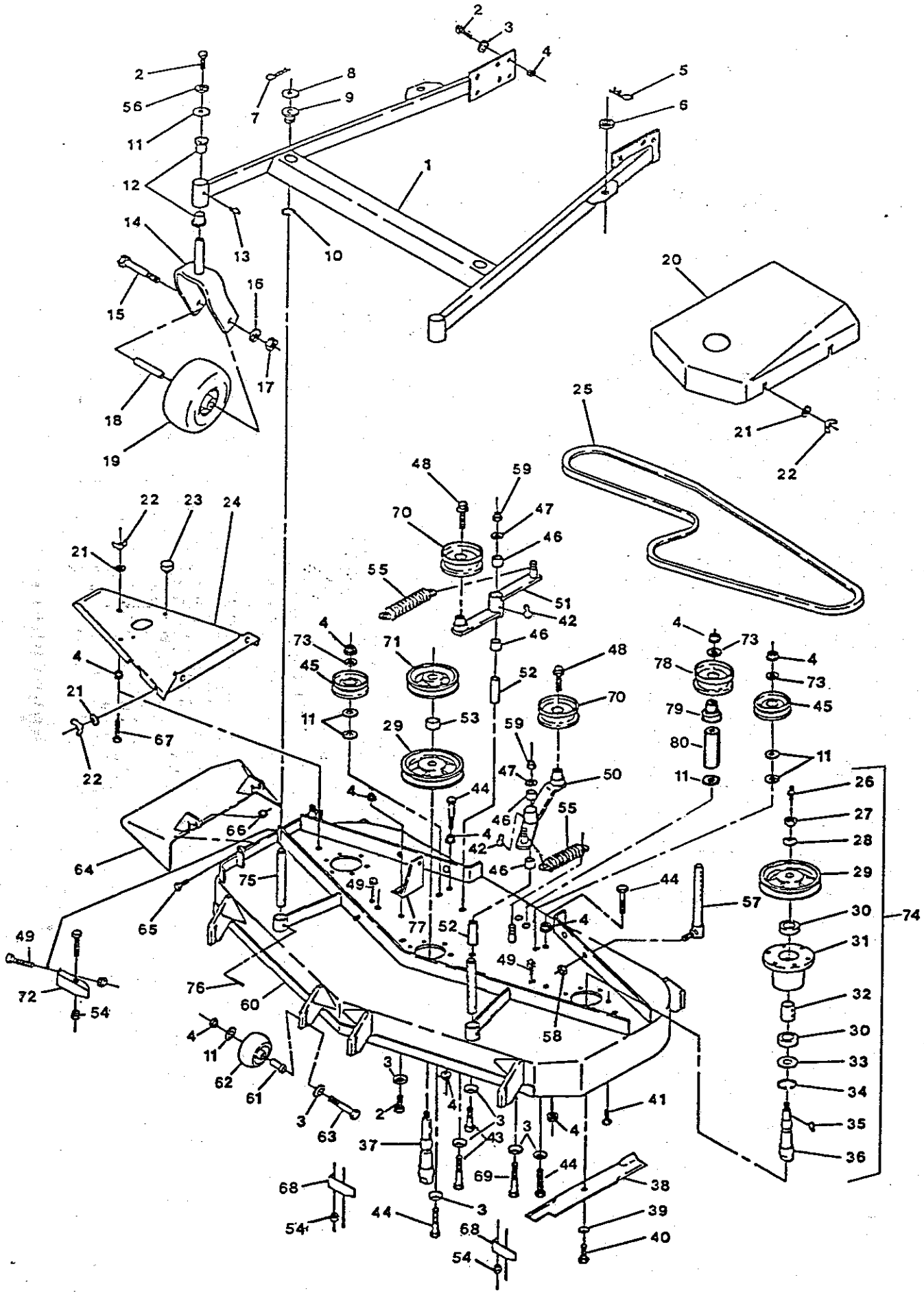
| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 31 | 800273 | 5 | 5/16-18 x 1 HH Capscrew |
| 32 | 800293 | 2 | 3/8-16 x 1-1/4 Capscrew |
| 33 | 800251 | 4 | 1/4-20 x 5/8 HH Capscrew |
| 34 | 806332 | 2 | Rollpin - 1/4 x 1-1/2 |
| 35 | 805255 | 4 | 1/4 SAE Flatwasher |
| 36 | 513588 | 2 | Bearing, DU |
| 37 | 543172 | 1 | Shaft - Foot Pedal |
| 38 | 542140 | 1 | Lever Wldmt - Foot Pedal |
| 39 | 543159 | 1 | R Pad, Rider Anti-Sk |
| 40 | 543158 | 1 | L Pad, Rider Anti-Sk (Not Shown) |
| 41 | 542850 | 1 | Shaft, Steer Wldmt |
| 42 | 543573 | 4 | Link - Connector, #40 |
| 43 | 543579 | 2 | Eyebolt |
| 44 | 543885 | 1 | Chain - #40-29 Pitch |
| 45 | 543886 | 1 | Chain - #40-33 Pitch |
| 46 | 542870 | 2 | Link |
| 47 | 804751 | 4 | Jam Nut - 5/16-18 |
| 48 | 800292 | 6 | 3/8-16 x 1 HH Capscrew |
| 49 | 553007 | 1 | Stop - Actuator |
| 50 | 542872 | 1 | Steering Wheel Mnt. |
| 51 | 803042 | 1 | Nut - 5/8-11 Torq Ptd |
| 52 | 800346 | 1 | HHCS 5/8-11 x 10-1/2 |
| 53 | 543552 | 1 | Bushing, Wheel Plt |
| 54 | 543556 | 2 | Spacer - Wheel Short Plt |
| 55 | 543508 | 2 | Bearing Cup |
| 56 | 543674 | 1 | Rim |
| 57 | 543397 | 1 | T/W Assy 18.0 x 6.50-8 |
| 58 | 543679 | 1 | Tire - 18 x 6.50-8 |
| 59 | 804257 | 1 | 3/8-16 Nyloc Nut |
| 60 | 543296 | 1 | Grommet |


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# 52" MOWER DECK

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 604160 | 1 | Support Weldment 602939 w/ Bushings & Decals |
| 2 | 800292 | 12 | 3/8-16 x 1 HH Capscrew |
| 3 | 303327 | 20 | 3/8 Disc Spring Washer |
| 4 | 809007 | 29 | Nut - 3/8-16 Whizlock |
| 5 | 806006 | 2 | 5/8 Hairpin |
| 6 | 303164 | 2 | Spacer - Blade Driver |
| 7 | 806007 | 2 | 7/8 Hairpin |
| 8 | 513338 | 2 | Washer |
| 9 | 513336 | 2 | Bushing - Deck Support |
| 10 | 808507 | 2 | Ring - Ext. Retaining |
| 11 | 805006 | 2 | 3/8 Hvy. Spring Lockwasher |
| 12 | 373034 | 13 | Washer - Pivot |
| 13 | 811001 | 2 | 1/8 NPT Straight Zerk |
| 14 | 303514 | 4 | Flange Thrust Bearing |
| 15 | 522143 | 2 | Weld Assy - Caster Fork |
| 16 | 800334 | 2 | 1/2-13 x 6 HH Capscrew |
| 17 | 805008 | 2 | 1/2 Reg Spring Lockwasher |
| 18 | 804509 | 2 | 1/2-13 Reg Hex Nut |
| 19 | 513547 | 2 | Spacer - Front Caster |
| 20 | 513648 | 2 | Wheel & Tire Assy - 9 x 3.50-4 |
| | 513807 | 2 | Wheel |
| | 513808 | 2 | Tire 9 x 3.50-4 |
| | 513809 | 2 | Bearing |
| | 513810 | 4 | Bushing |
| 21 | 613021 | 1 | Cover - Deck Drive Belt |
| 22 | 602545 | 2 | Cover - Deck Weldment |
| 23 | 603576 | 1 | Belt - Blade Drive |
| 24 | 811006 | 3 | Zerk - 1/4-28 Straight |
| 25 | 804510 | 3 | 5/8-18 UNF Hex Nut |
| 26 | 513208 | 3 | Spring - Disk |
| 27 | 513207 | 3 | Sheave - Blade Drive |
| 28 | 303057 | 6 | Bearing - Ball 305K |
| 29 | 513186 | 3 | Housing - Bearing |
| 30 | 513188 | 3 | Spacer - Bearing |
| 31 | 513193 | 3 | Seal - Mech. Dust |
| 32 | 808506 | 3 | Snap Ring - 2.59 x 08TK |
| 33 | 807006 | 4 | #61 Woodruff Key |
| 34 | 603031 | 2 | Spindle - Outer Blade |
| 35 | 603022 | 1 | Spindle - Center Blade |
| 36 | 603637 | 3 | Blade - 18.0 Diameter |
| | 603844 | 3 | Blade - Low Lift |
| | 603873 | 3 | Blade - Mulching* |
| 37 | 513435 | 3 | 1/2 Disc Spring Washer |
| 38 | 800531 | 3 | 1/2-20 x 1 HH Capscrew RH |
| 39 | 809035 | 18 | 3/8-16 x 1.0 Taptite Hex Washer Hd Bolt |
| 40 | 602961 | 1 | Weld Assy 612007 w/ Support Rods & Baffles |
| 41 | 602571 | 1 | Chute Weldment - Discharge |
| 42 | 800273 | 2 | 5/16-18 x 1 HH Capscrew |
| 43 | 804256 | 2 | 5/16-18 Nyloc Hex Nut |
| 44 | 800270 | 17 | 5/16-18 x 5/8 HHCS |
| 45 | 303516 | 2 | Pulley - V-Idler |
| 46 | 809001 | 17 | 5/16-18 Whizlock Nut |
| 47 | 603504 | 1 | Spacer - Tube |
| 48 | 603581 | 1 | Sheave - Mower Drive |
| 49 | 603413 | 2 | Spring - Extension |
| 50 | 603497 | 2 | Idler Pulley |
| 51 | 803016 | 2 | 3/8-16 x 1 Whizlock Bolt Gr. 5 |
| 52 | 804257 | 2 | 3/8-16 Hex Nyloc Nut |
| 53 | 805260 | 2 | 3/8 Std. Flatwasher |
| 54 | 513034 | 4 | Bearing - Pivot |
| 55 | 602604 | 1 | Idler Arm Assy w/Bearings |
| | 602591 | 1 | Arm Weldment - Deck Idler |
| 56 | 603384 | 2 | Bushing - Idler Pivot |
| 57 | 602865 | 1 | Idler Arm Assy Deck Drive w/Bearings |
| | 602867 | 1 | Arm Weldment Deck Drive Idler |
| 58 | 811008 | 2 | Zerk - 1/4-28 x 90° |
| 59 | 800297 | 4 | 3/8-16 x 2-1/4 Hx Hd Cpscrw Gr. 5 |
| 60 | 603540 | 2 | Link - Rear Deck Support |
| 61 | 803031 | 2 | 3/8-24 Torque Nut |
| 62 | 603299 | 6 | Roller - Anti Scalp |
| 63 | 800807 | 6 | 3/8-16 x 4.00 HHCS Gr. 8 |
| 64 | 603602 | 6 | Bushing - Roller |
| 65 | 603620 | 1 | Bracket - Spring Anchor |
| 66 | 800805 | 2 | 3/8-16 x 3.5 Gr. 8 HH Cpscrew |
| 67 | 602911 | 2 | Baffle Weldment |
| 68 | 543678 | 4 | Wingnut - Nylon Insert |
| 69 | 602913 | 1 | Baffle Weldment |
| 70 | 604621 | 1 | Center Cutter Housing-Complete |
| | 604262 | 2 | Outer Cutter Housing-Complete |
| 71 | 805258 | 5 | 5/16 Std. Flat washer |
| 72 | 603001 | 2 | Rod - Deck Support |
| 73 | 806332 | 2 | Roll Pin 1/4 x 1-1/2 |
| 74 | 805259 | 4 | Washer - Flat |
| 75 | 603805 | 1 | Idler |
| 76 | 513791 | 1 | Bushing |
| 77 | 603494 | 1 | Spacer |
| 78 | 800302 | 1 | 3/8-16 x 4.0 HHCS Gr. 5 |

*Requires installation of Micro-Mulch accessory for proper mulching.

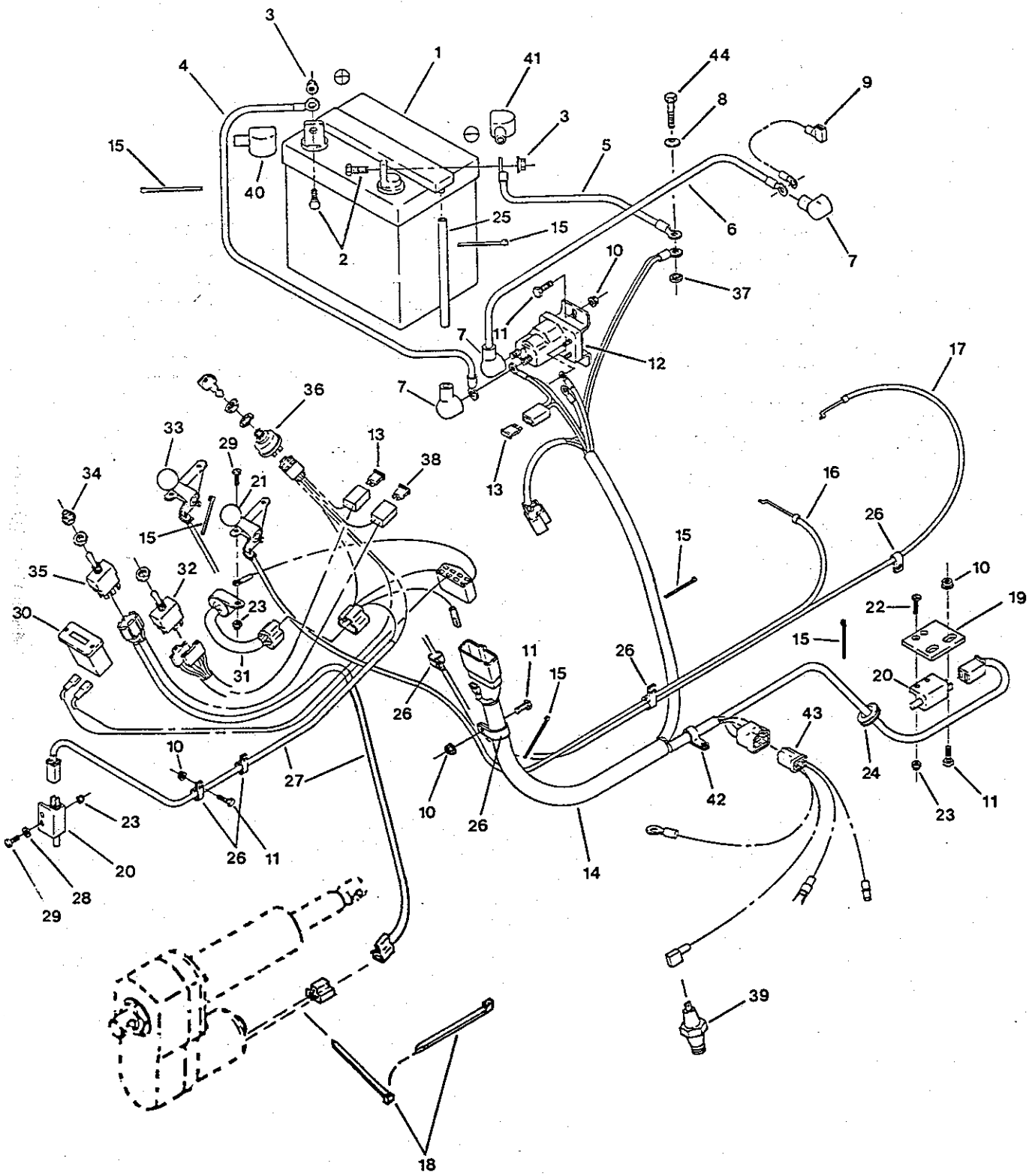


# 60" MOWER DECK

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 604847 | 1 | Support Wldmt 602593 w/ Bushings and Decals |
| 2 | 800292 | 12 | 3/8-16 x 1 HH Capscrew |
| 3 | 303327 | 19 | 3/8 Disc Spring Washer |
| 4 | 809007 | 23 | 3/8-16 Flng. Hex Nut |
| 5 | 806006 | 2 | 5/8" Hairpin |
| 6 | 303164 | 2 | Blade Driver Spacer |
| 7 | 806007 | 2 | 7/8" Hairpin |
| 8 | 513338 | 2 | Washer |
| 9 | 513336 | 2 | Bushing, Deck Support |
| 10 | 808507 | 2 | Ring, Ext. Retaining |
| 11 | 373034 | 13 | Washer, Pivot |
| 12 | 303514 | 12 | Flange Thrust Bearing |
| 13 | 811001 | 2 | 1/8 NPT Straight Zerk |
| 14 | 522143 | 2 | Weld Assy - Caster Front |
| 15 | 800334 | 2 | Screw - 1/2-13 x 6 HHCS |
| 16 | 805008 | 2 | 1/2 Reg Spring Lockwasher |
| 17 | 804509 | 2 | 1/2-13 Reg Hex Nut |
| 18 | 513547 | 2 | Spacer, Front Caster |
| 19 | 513648 | 2 | 9 x 3.50-4 W & T Assy. |
| | 513807 | 2 | Wheel |
| | 513808 | 2 | Tire 9 x 3.50-4 |
| | 513809 | 2 | Bearing |
| | 513810 | 4 | Bushing |
| 20 | 543087 | 1 | Cover, Deck Drive Belt |
| 21 | 805259 | 10 | Washer, Flat - 3/8 |
| 22 | 543678 | 10 | Wingnut - Nylon Insert |
| 23 | 513291 | 2 | Bumper, Seat |
| 24 | 542588 | 2 | Cover, Deck Wldmt. - Pltd. |
| 25 | 603045 | 1 | Belt - Blade Drive |
| 26 | 811006 | 3 | Zerk, 1/4-28 Strt. |
| 27 | 804510 | 3 | 5/8-18 UNF Hex Nut |
| 28 | 513208 | 3 | Spring, Disk |
| 29 | 513207 | 3 | Sheave, Blade Drive |
| 30 | 303057 | 6 | Bearing, Ball 305K |
| 31 | 513186 | 3 | Housing, Bearing |
| 32 | 513188 | 3 | Spacer, Bearing |
| 33 | 513193 | 3 | Seal, Mech. Dust |
| 34 | 808506 | 3 | Snap Ring, 2.59 x 08 TK |
| 35 | 807006 | 4 | #61 Woodruff Key |
| 36 | 603031 | 2 | Spindle - Outer Blade |
| 37 | 603022 | 1 | Spindle - Center Blade |
| 38 | 603283 | 3 | Blade - 20.5 Diameter |
| | 603661 | 3 | Blade - Low Lift |
| | 603874 | 3 | Blade - Mulching* |
| 39 | 513435 | 3 | Washer, Spring Disc 1/2 |
| 40 | 800531 | 3 | 1/2-20 x 1 HHCS RH |

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 41 | 809035 | 18 | Bolt - 3/8-16 x 1.0 Tap |
| 42 | 811008 | 2 | Zerk - 1/4-28 x 90° |
| 43 | 800805 | 2 | 3/8-16 x 3.5 Hx Hd Capscrew |
| 44 | 800297 | 4 | 3/8-16 x 2-1/4 Hx Hd Capscrew |
| 45 | 303516 | 2 | Pulley - V-Idler |
| 46 | 513034 | 4 | Bearing Pivot |
| 47 | 805260 | 2 | 3/8 Standard Flat washer |
| 48 | 803016 | 2 | Bolt - 3/8-16 x 1 Whizlock |
| 49 | 800270 | 17 | 5/16-18 x 5/8 HHCS |
| 50 | 602867 | 1 | Arm Weld - Dk. Dr. Idler |
| | 602865 | 1 | Idler Arm Assy w/Bearings |
| 51 | 602591 | 1 | Arm Weld - Dk. Idler Arm |
| | 602604 | 1 | Idler Arm Assy w/Bearings |
| 52 | 603384 | 2 | Bushing - Idler Pivot |
| 53 | 603504 | 1 | Spacer - Tube |
| 54 | 809001 | 17 | 5/16-18 Whizlock Nut |
| 55 | 603413 | 2 | Spring |
| 56 | 805006 | 2 | 3/8 Heavy Spring Lockwasher |
| 57 | 603540 | 2 | Link, Rear Deck Support |
| 58 | 803031 | 2 | 3/8-24 Torque Nut |
| 59 | 804257 | 2 | 3/8-16 Hex Nyloc Nut |
| 60 | 602962 | 1 | Weld Assy 612003 w/ Support Rods & Baffles |
| 61 | 603602 | 6 | Bushing - Roller |
| 62 | 603299 | 6 | Roller - Anti Scalp |
| 63 | 800807 | 6 | Capscrew 3/8-16 x 4.00 Gr. 8 |
| 64 | 542606 | 1 | Chute Wldmt., Discharge |
| 65 | 800273 | 2 | 5/16-18 x 1 HH Capscrew |
| 66 | 804256 | 2 | 5/16-18 Nyloc Hex Nut |
| 67 | 800031 | 2 | 3/8-16 x 2-3/4 HHTB |
| 68 | 602911 | 2 | Baffle Weldment |
| 69 | 800302 | 1 | 3/8-16 x 4.0 HHCS Gr. 5 |
| 70 | 603497 | 2 | Idler - 4" Flat |
| 71 | 613024 | 1 | Sheave - Mower Drive |
| 72 | 602913 | 1 | Baffle Weldment |
| 73 | 805258 | 5 | 5/16 Std Flat Washer |
| 74 | 604262 | 2 | Outer Cutter Housing-Complete |
| | 614025 | 1 | Center Cutter Housing-Complete |
| 75 | 603001 | 2 | Rod - Deck Support |
| 76 | 806332 | 2 | Roll Pin 1/4 x 1-1/2 |
| 77 | 603620 | 1 | Bracket - Spring Anchor |
| 78 | 603805 | 1 | Idler |
| 79 | 513791 | 1 | Bushing |
| 80 | 603494 | 1 | Spacer |

*Requires installation of Micro-Mulch accessory for proper mulching.

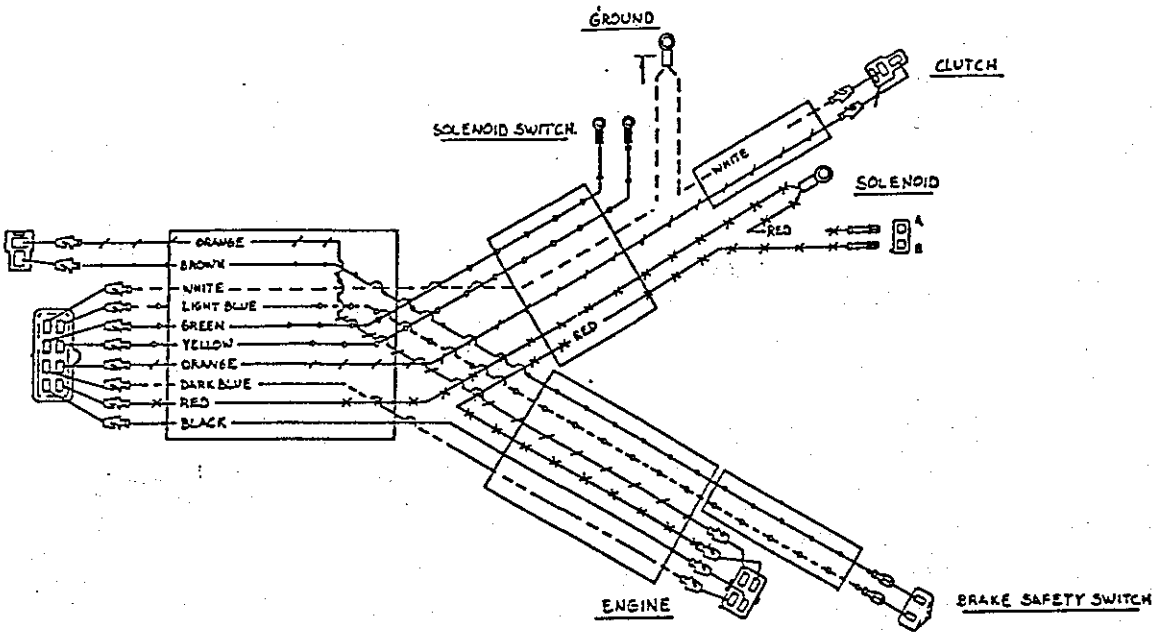

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# ELECTRICAL GROUP

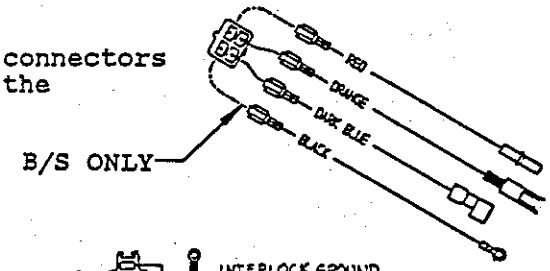
| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 603479 | 1 | 12 Volt Battery |
| 2 | 800271 | 2 | 5/16-18 x 3/4 HH Capscrew |
| 3 | 809001 | 2 | 5/16-18 Whizlock Nut |
| 4 | 513053 | 1 | Wire - (+) Battery |
| 5 | 543767 | 1 | Wire - Ground |
| 6 | 513582 | 1 | Starter Wire (18 BV) |
| 7 | 543393 | 3 | Insulator, Solenoid + |
| 8 | 303334 | 1 | 5/16 Disc Spring Washer |
| 9 | 543084 | 1 | Wire, Starter Solednoid (20 KC) |
| 10 | 809012 | 10 | 1/4-20 Whizlock Nut |
| 11 | 800251 | 10 | 1/4-20 x 5/8 HH Capscrew |
| 12 | 513075 | 1 | Switch 12 V Solenoid |
| 13 | 816001 | 2 | Fuse - Blade 20 AMP |
| 14 | 543065 | 1 | Harness - Wire Engine |
| 15 | 303287 | 6 | Plastic Tie 5.5 x .044 x .1 (Small) |
| 16 | 543697 | 1 | Cable, Throttle (18 BV & 20 KC) |
| 17 | 543072 | 1 | Cable, Choke (20 KC) |
| | 543697 | 1 | Cable, Choke (18 BV) |
| 18 | 303335 | 2 | Large Tie |
| 19 | 323128 | 1 | Brkt - Safety Switch |
| 20 | 513051 | 2 | Switch, Neutral Lockout |
| 21 | 513592 | 1 | Knob - Red Ball |
| 22 | 803017 | 2 | Machine Screw - 10-24 x .63 Ctr. |
| 23 | 804252 | 8 | #10-24 Nyloc Hex Nut |
| 24 | 543296 | 1 | Grommet |
| 25 | 809040 | 1 | 23".Hose-Battery Mnifld. |

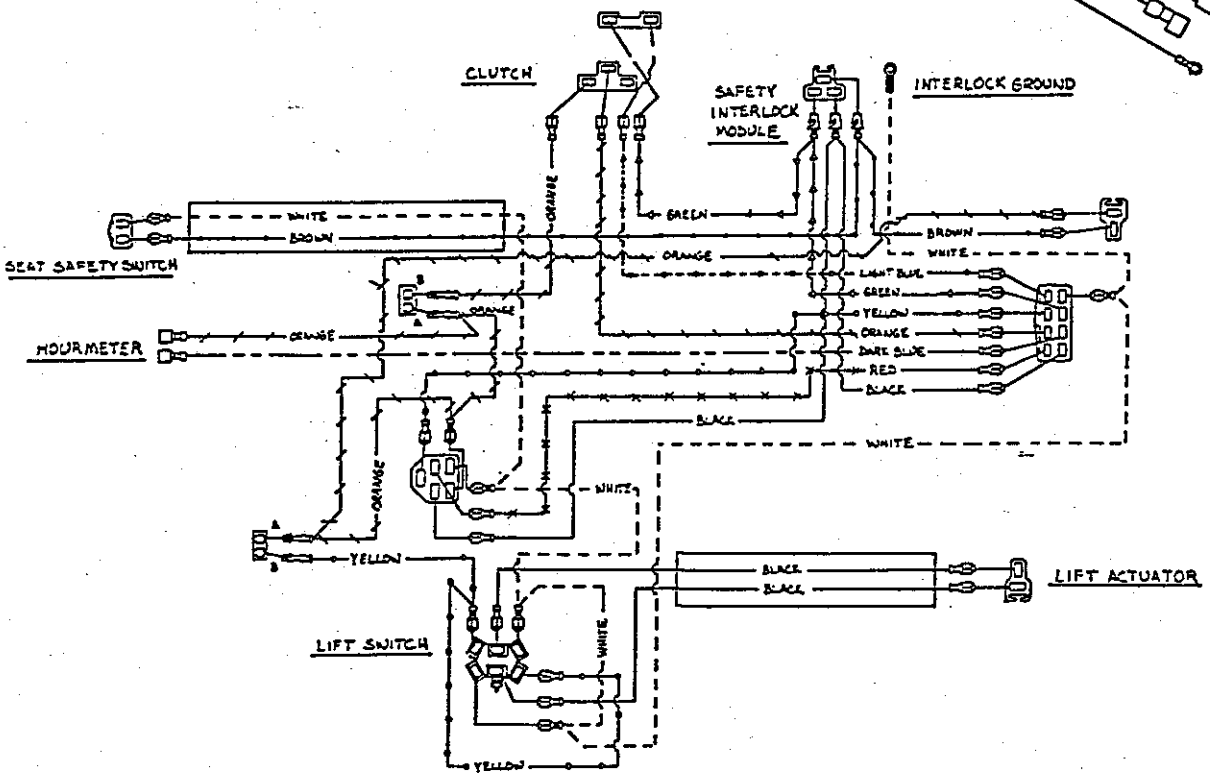
| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 26 | 513762 | 6 | Clip - .50" Loom (20 KC) |
| | 513762 | 7 | Clip - .50" Loom (18 BV) |
| 27 | 543071 | 1 | Harness - Wire Rider |
| 28 | 805252 | 2 | Standard Flat Washer .219 |
| 29 | 801039 | 6 | #10-24 x 5/8 Sltd. Machine |
| 30 | 513374 | 1 | Meter, Engine Hours |
| 31 | 513579 | 1 | Module - Safety Interlock |
| 32 | 543018 | 1 | Switch, Toggle w/Clipped Terminal |
| 33 | 513593 | 1 | Knob - Black Ball |
| 34 | 543386 | 1 | Boot, Toggle Switch |
| 35 | 543385 | 1 | Switch, Toggle DPDT |
| 36 | 543070 | 1 | Ignition Switch |
| | 603511 | 2 | Ignition Key |
| 37 | 805506 | 1 | 5/16 Internal Tooth Lockwasher |
| 38 | 816003 | 1 | Fuse - Blade 30 AMP |
| 39 | 603645 | 1 | Switch, Oil Pressure (18 BV) |
| 40 | 543391 | 1 | Insulator - Battery Positive |
| 41 | 543390 | 1 | Insulator - Battery Negative |
| 42 | 603727 | 1 | Clip - .56 Loom (Kaw.) |
| 43 | 543225 | 1 | Harness, Engine Adapter (18 BV) |
| 44 | 800276 | 1 | 5/16-18 x 1-3/4 HH Capscrew (Left Rear Engine Bolt) |

# ELECTRICAL DIAGRAM

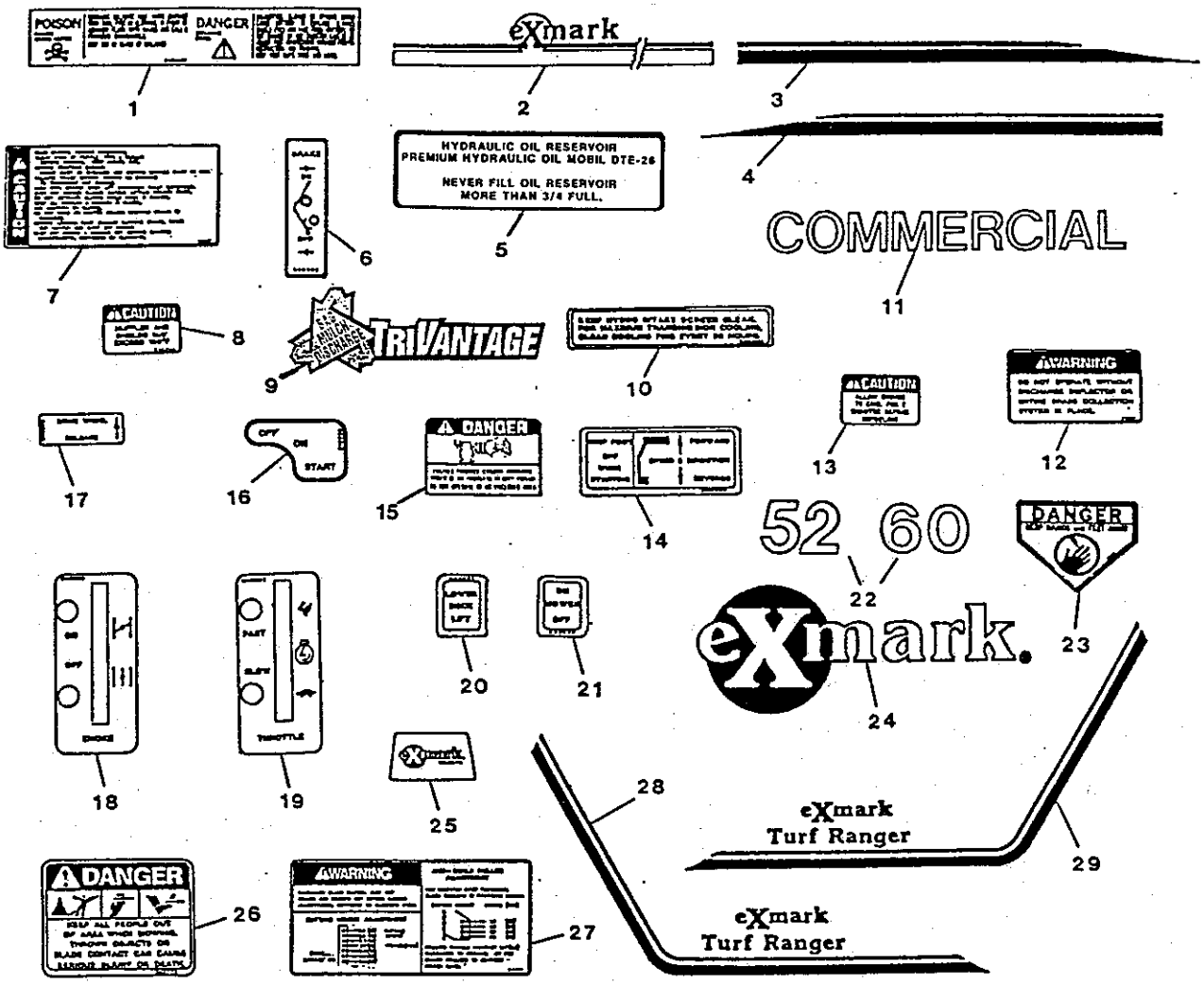



Engine Deck Wiring Diagram (NOTE: All connectors are viewed from the wire input side of the connectors).




Console Wiring Diagram (NOTE: All Connectors are viewed from the wire input side of the connectors).




## DECALS

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 1 | 513747 | 1 | Decal - Battery |
| 2 | 543782 | 1 | Center Exmark Stripe - 60" |
| | 603623 | 1 | Center Exmark Stripe - 52" |
| 3 | 543781 | 1 | RH Exmark Stripe |
| 4 | 543780 | 1 | LH Exmark Stripe |
| 5 | 543949 | 1 | Decal - Hydro Tank |
| 6 | 543622 | 1 | Decal - Brake Lever |
| 7 | 543628 | 1 | Decal - Instructional |
| 8 | 513746 | 1 | Decal - Muffler |
| 9 | 303520 | 1 | Decal - Tri-Vantage |
| 10 | 543620 | 1 | Decal - Intake |
| 11 | 543663 | 1 | Decal - Commercial |
| 12 | 303508 | 1 | Decal - Discharge Warning |
| 13 | 303293 | 1 | Decal - 2 Minute Warning |
| 14 | 543624 | 1 | Decal - Foot Pedal |
| 15 | 303481 | 1 | Decal - Carbon Monoxide |

| KEY | PART # | QTY. | DESCRIPTION |
|---|---|---|---|
| 16 | 513739 | 1 | Ignition Decal |
| 17 | 513743 | 1 | Decal - Release |
| 18 | 543630 | 1 | Decal - Choke |
| 19 | 543631 | 1 | Decal - Throttle |
| 20 | 543627 | 1 | Decal - Deck Lift |
| 21 | 543626 | 1 | Decal - Mower Switch |
| 22 | 543664 | 1 | Decal - 60 |
| | 603622 | 1 | Decal - 52 |
| 23 | 403005 | 2 | Danger Label |
| 24 | 543788 | 1 | Decal - Exmark Large |
| 25 | 513756 | 1 | Decal - Steering Column |
| 26 | 543774 | 1 | Decal - Danger |
| 27 | 543660 | 1 | Decal - Mower Deck |
| 28 | 543632 | 1 | Decal - LH Console |
| 29 | 543633 | 1 | Decal - RH Console |

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LINE OF PRODUCTS FOR TURF CARE

EXPLORER

EXPLORER II

TURF RANGER

TURF TRACER

TURF TRACER HYDRO

VIKING

VIKING HYDRO

METRO

SELF STEERING SULKY

TURF RAKE

GRASS CATCHER

MICRO-MULCHING ACCESSORY

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