



MODEL NO. 07216 – 50001 &amp; Up

OPERATOR'S  
MANUAL**WORKMAN® 4200**  
Liquid Cooled Gasoline Utility Vehicle*Helping you put quality into play.™*

To assure maximum safety, optimum performance, and to gain knowledge of the product, it is essential that you or any other operator of the machine read and understand the contents of this manual before the engine is ever started. Pay particular attention to the **SAFETY INSTRUCTIONS** highlighted by this symbol—



The safety alert symbol means **CAUTION, WARNING or DANGER** — personal safety instruction. Failure to comply with the instruction may result in personal injury or death.



# FOREWORD

The TORO WORKMAN® 4200 was developed to provide an efficient, versatile, trouble free and economical work vehicle. The latest concepts of engineering, design and safety have been incorporated into this machine, along with the highest quality parts and workmanship. Excellent service will be derived if proper operation and maintenance practices are followed. **This vehicle is not designed or manufactured for use on roads, streets or highways. It is not appropriate for such use.**

You know, since you have purchased the industry leader in maintenance excellence, that future performance and dependability are of prime importance. TORO also is concerned about future use of the machine and of safety to the user. Therefore, this manual must be read by you and those involved with the WORKMAN® 4200 to make sure that safety, proper set-up, operation and maintenance procedures are followed at all times. The major sections of the manual are:

## 1. Safety Instructions

## 2. Set-Up Instructions

## 3. Before Operating

## 4. Operating Instructions

## 5. Maintenance

Safety, mechanical and some general information in this manual are emphasized. **DANGER, WARNING** and **CAUTION** identify safety messages. Whenever the triangle safety symbol appears, it is followed by a safety message that must be read and understood. For more details concerning safety, read the safety instructions on pages 4 and 5. **IMPORTANT** identifies special mechanical information and **NOTE** identifies general information worthy of special attention.

The TORO WORKMAN® 4200 meets the requirements of ANSI B56.8a—1994.

Supervisors, operators and service persons should be familiar with the following standards and publications: (The material may be obtained from the address shown).

- Flammable and Combustible Liquids Code:  
ANSI/NFPA 30
- National Fire Protection Association:  
ANSI/NFPA #505; Powered Industrial Trucks  
ADDRESS:  
National Fire Prevention Association  
Barrymarch Park  
Quincy, Massachusetts 02269 U.S.A
- ANSI/ASME B56.8 Personal Burden Carriers  
ADDRESS:  
American National Standards Institute, Inc.  
1430 Broadway  
New York, New York 10018 U.S.A.
- ANSI/UL 558; Internal Combustion Engine Powered Industrial Trucks  
ADDRESS:  
American National Standards Institute, Inc.  
1430 Broadway  
New York, New York 10018 U.S.A.  
OR  
Underwriters Laboratories  
333 Pfingsten Road  
Northbrook, Illinois 60062 U.S.A.

## OPTIONAL SPARK ARRESTER

In some places a spark arrester muffler must be used because of local, state or federal regulations. The spark arrester available from your local Toro Distributor is approved by the United States Department of Agriculture and the United States Forest Service.

**When the machine is used or operated on any California forest, brush or grass covered land, a properly operating spark arrester must be attached to the muffler. The operator is violating state law, Section 442 Public Resources Code if a spark arrester is not used.**

If help concerning set up, operation, maintenance or safety is ever needed, contact your local Authorized TORO Distributor. In addition to genuine TORO replacement parts, the distributor also has optional equipment for the complete line of TORO turf care equipment. Keep your TORO all TORO. Buy genuine TORO parts and accessories.

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# SAFETY INSTRUCTIONS

The WORKMAN® 4200 was designed and tested to offer safe service when operated and maintained properly. Although hazard control and accident prevention partially are dependent upon the design and configuration of the machine, these factors are also dependent upon the awareness, concern, and proper training of the personnel involved in the operation, maintenance and storage of the machine. Improper use or maintenance of the machine can result in injury or death.

This is a specialized utility vehicle designed for off-road use. Its ride and handling will have a different feel than what drivers experience with passenger cars or trucks. So take time to become familiar with your WORKMAN® 4200.

Not all of the attachments that adapt to the WORKMAN® 4200 are covered in this manual. See the specific Operator's Manual provided with attachment for additional safety instructions. **READ THESE MANUALS.**

**TO REDUCE THE POTENTIAL FOR INJURY OR DEATH, COMPLY WITH THE FOLLOWING SAFETY INSTRUCTIONS.**

## SUPERVISOR'S RESPONSIBILITIES

1. Make sure operators are thoroughly trained and familiar with the Operator's Manual and all labels on the vehicle.
2. Be sure to establish your own special procedures and work rules for unusual operating conditions (e.g. slopes too steep for vehicle operation). Use the 3rd High Lockout switch if high speed could result in a safety or vehicle abuse situation.

## BEFORE OPERATING

3. Operate the machine only after reading and understanding the contents of this manual. A replacement manual is available by sending complete model and serial number to: The Toro Company, 8111 Lyndale Avenue South, Minneapolis, Minnesota 55420.

4. Never allow children to operate the vehicle. Never allow adults to operate it without proper instructions. Only trained and authorized persons should operate this vehicle. Make sure all operators are physically and mentally capable of operating the vehicle. Anyone who operates the vehicle should have a motor vehicle license.

5. This vehicle is designed to carry only you, the operator, and one passenger in the seat provided by the manufacturer. Never carry any other passengers on the vehicle.

6. Never operate the vehicle when under the influence of drugs or alcohol.

7. Become familiar with the controls and know how to stop the engine quickly.

8. Keep all shields, safety devices and decals in place. If a shield, safety device or decal is malfunctioning, illegible, or damaged, repair or replace it before operating the machine.

9. Always wear substantial shoes. Do not operate machine while wearing sandals, tennis shoes or sneakers. Do not wear loose fitting clothing or jewelry which could get caught in moving parts and cause personal injury.

10. Wearing safety glasses, safety shoes, long pants and a helmet is advisable and required by some local safety and insurance regulations.

11. Keep everyone, especially children and pets, away from the areas of operation.

12. Before operating the vehicle, always check all parts of the vehicle and any attachments. If something is wrong, stop using vehicle. Make sure problem is corrected before vehicle or attachment is operated again.

13. Since gasoline is highly flammable, handle it carefully.

A. Use an approved gasoline container.

B. Do not remove cap from fuel tank when engine is hot or running.

C. Do not smoke while handling gasoline.

D. Fill fuel tank outdoors and to about one inch below top of tank (bottom of filler neck). Do not overfill.

E. Wipe up any spilled gasoline.

14. Check the safety interlock system daily for proper operation; refer to page 22. If a switch should malfunction, replace the switch before operating machine. After every two years, replace the interlock switches in the safety system, whether they are working properly or not.

## WHILE OPERATING

**WARNING:** Engine exhaust contains carbon monoxide which is an odorless, deadly poison. Carbon monoxide is also known to the State of California to cause birth defects. Do not run engine indoors or in an enclosed area.





## SAFETY INSTRUCTIONS

**15.** Operator and passenger should remain seated whenever the vehicle is in motion. Operator should keep both hands on steering wheel, whenever possible and passenger should use hand holds provided. Keep arms and legs within the vehicle body at all times. Never carry passengers in box or on attachments. Remember your passenger may not be expecting you to brake or turn and may not be ready.

**16.** Never overload your vehicle. Name plate (located under dash on passenger side) shows load limits for vehicle. Never overfill attachments or exceed the vehicle maximum GVW.

**17.** When starting the engine:

- A.** Sit on operator's seat and engage parking brake.
- B.** Disengage PTO (if so equipped) and return hand throttle lever to OFF position (if so equipped).
- C.** Move shift lever to NEUTRAL and depress clutch pedal.
- D.** Keep foot off accelerator pedal.
- E.** Turn ignition key to START.

**18.** Using the machine demands attention. Failure to operate vehicle safely may result in a accident, tip over of vehicle and serious injury or death. Drive carefully. To prevent tipping or loss of control:

- A.** Use extreme caution, reduce speed and maintain a safe distance around sand traps, ditches, creeks, ramps, any unfamiliar areas or other hazards.
- B.** Watch for holes or other hidden hazards.
- C.** Use caution when operating vehicle on a steep slope. Normally travel straight up and down slopes. Reduce speed when making sharp turns or when turning on hillsides. Avoid turning on hillsides whenever possible.
- D.** Use extra caution when operating vehicle on wet surfaces, at higher speeds or with a full load. Stopping time will increase with a full load. Shift into a lower gear before starting up or down a hill.
- E.** When loading bed, distribute load evenly. Use extra caution if the load exceeds the dimensions of the vehicle/bed. Operate vehicle with extra caution when handling off-center loads that cannot be centered. Keep loads balanced and secure to prevent them from shifting.
- F.** Avoid sudden stops and starts. Do not go from reverse to forward or forward to reverse without first coming to a complete stop.
- G.** Do not attempt sharp turns or abrupt maneuvers or other unsafe driving actions that may cause a loss of vehicle control.

**H.** When dumping, do not let anyone stand behind vehicle and do not dump load on any one's feet. Release tailgate latches from side of box, not from behind.

**I.** Before backing up, look to the rear and assure no one is behind. Back up slowly.

**J.** Watch out for traffic when near or crossing roads. Always yield the right of way to pedestrians and other vehicles. This vehicle is not designed for use on streets or highways. Always signal your turns or stop early enough so other persons know what you plan to do. Obey all traffic rules and regulations.

**K.** Never operate vehicle in or near an area where there is dust or fumes in the air which are explosive. The electrical and exhaust systems of the vehicle can produce sparks capable of igniting explosive materials.

**L.** Always watch out for and avoid low over hangs such as tree limbs, door jambs, over head walkways, etc. Make sure there is enough room over head to easily clear the vehicle and your head.

**M.** If ever unsure about safe operation, STOP WORK and ask your supervisor.

**19.** Do not touch engine, transaxle, radiator, muffler or muffler shield while engine is running or soon after it has stopped because these areas may be hot enough to cause burns.

**20.** If the machine ever vibrates abnormally, stop immediately, turn engine off, wait for all motion to stop and inspect for damage. Repair all damage before commencing operation.

**21.** Before getting off the seat:

- A.** Stop movement of the machine.
- B.** Lower bed.
- C.** Shut engine off and wait for all movement to stop.
- D.** Set parking brake.
- E.** Remove key from ignition.
- F.** Block wheels if machine is on an incline.

## MAINTENANCE

**22.** Before servicing or making adjustments to the machine, stop engine, set parking brake and remove key from ignition to prevent accidental starting of the engine.

**23.** Never work under a raised bed without placing bed safety support on fully extended cylinder rod.



## SAFETY INSTRUCTIONS

**24.** Make sure all hydraulic line connectors are tight, and all hydraulic hoses and lines are in good condition before applying pressure to the system.

**25.** Keep body and hands away from pin hole leaks or nozzles that eject hydraulic fluid under high pressure. Use paper or cardboard, not hands, to search for leaks. Hydraulic fluid escaping under pressure can have sufficient force to penetrate skin and do serious damage. If 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.

**26.** Before disconnecting or performing any work on the hydraulic system, all pressure in system must be relieved by stopping engine, cycling dump valve from raise to lower and/or lowering box and attachments. Place the remote hydraulics lever in the float position. If box must be in raised position, secure with safety support.

**27.** To make sure entire machine is in good condition, keep all nuts, bolts and screws properly tightened.

**28.** To reduce potential fire hazard, keep the engine area free of excessive grease, grass, leaves and accumulation of dirt.

**29.** If the engine must be running to perform a maintenance adjustment, keep hands, feet, clothing, and any parts of the body away from the engine and any moving parts. Keep everyone away.

**30.** Do not overspeed engine by changing governor settings. Maximum engine speed is 3650 rpm. To assure safety and accuracy, have an Authorized TORO Distributor check maximum engine speed with a tachometer.

**31.** If major repairs are ever needed or assistance is required, contact an Authorized TORO Distributor.

**32.** To be sure of optimum performance and safety, always purchase genuine TORO replacement parts and accessories. Replacement parts and accessories made by other manufacturers could be dangerous. Altering this vehicle in any manner may affect the vehicle's operation, performance, durability or its use may result in injury or death. Such use could void the product warranty of The TORO Company.

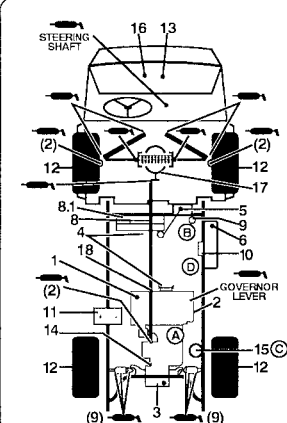
**33.** This vehicle should not be modified without the TORO Company's authorization. Direct any inquiries to:

The TORO Company  
Commercial Division  
Vehicle Engineering Dept.  
300 West 82nd St.  
Bloomington, Minnesota 55420-1196. USA



## SAFETY AND INSTRUCTION DECALS

The following safety and instruction decals are installed on the machine. If any become damaged or illegible, replace them. Decal part numbers are listed below and in the parts catalog. Order replacements from your Authorized TORO Distributor.



### WORKMAN 4200 QUICK REFERENCE AID

**CHECK/SERVICE**

1. ENGINE OIL LEVEL
2. ENGINE OIL DRAIN
3. TRANSAXLE/HYDRAULIC OIL LEVEL (DIP STICK)
4. BELTS (GOVERNOR, WATER PUMP, HYDRAULIC PUMP)
5. COOLANT LEVEL FILL
6. FUEL (UNLEADED FUEL ONLY)
7. GREASE POINTS (33) - 100 HRS.
8. RADIATOR SCREEN
- 8.1. RADIATOR CLEANOUT DOOR
9. AIR CLEANER
10. FUEL FILTER
11. BATTERY
12. TIRE PRESSURE - MAXIMUM 20 PSI FRONT, 18 PSI REAR (24" TIRE)
13. FUSES (LIGHTS 10 AMP, IGNITION 7.5 AMP, DASH ACCESSORIES 7.5 AMP)
14. HYDRAULIC STRAINER
15. HYDRAULIC OIL FILTER
16. BRAKE FLUID
17. DIFFERENTIAL FILL/CHECK
18. 4WD SHAFT

**FLUID SPECIFICATIONS/CHANGE INTERVALS**

SEE OPERATOR'S MANUAL FOR INITIAL CHANGES	FLUID TYPE	CAPACITY		CHANGE INTERVALS		FILTER PART NO.
		L	QT	FLUID	FILTER	
ENGINE OIL	SAE 10W-30 CD	3.2	3.4	100 HRS.	100 HRS.	87-4330 (A)
TRANS. HYDRAULIC OIL	DEXRON II ATF	7.1	7.5	600 HRS.	600 HRS.	54-0110 (C)
AIR CLEANER	CLEAN EVERY 50 HOURS				200 HRS.	33-1300 (B)
FUEL/FUEL FILTER	UNLEADED	26.5	7 GAL.		600 HRS.	18-1520 (D)
COOLANT 50/50 ETHYLENE GLYCOL WATER		3.3	3.5	1200 HRS.		
STRAINER				CLEAN 600 HRS.		87-3990
DIFFERENTIAL OIL	SAE 10W-30 CD	.95	1	600 HRS.		

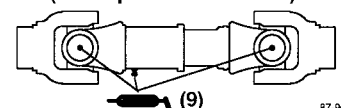
FOR HEAVY DUTY OPERATION, MAINTENANCE SHOULD BE PERFORMED TWICE AS FREQUENTLY.

**ON REAR SKIRT**  
(Part No. 87-9100)



**ON FAN SHROUD**  
(Part No. 76-8750)

**IMPORTANT!**  
GREASE DRIVE SHAFTS EVERY  
100 HOURS, MORE OFTEN FOR  
HEAVY DUTY OPERATION.  
(See Operator's Manual)



**ON REAR AXLE TUBE**  
(Part No. 87-9080)



# SAFETY AND INSTRUCTION DECALS

OPTIONAL FUSE BLOCK	OPTIONAL FUSE BLOCK	STANDARD FUSE BLOCK
		OPEN
		LIGHTS 10 AMP
		DASH 7.5 AMP
		IGNITION 7.5 AMP

UNDER DASH NEXT  
TO FUSE BLOCK  
(Part No. 87-6670)

## DANGER

FAILURE TO COMPLY WITH THE FOLLOWING SAFETY REQUIREMENTS MAY RESULT IN PERSONAL INJURY OR DEATH.

READ AND UNDERSTAND OPERATORS MANUAL BEFORE OPERATING THIS MACHINE. VEHICLE IS FOR OFF ROAD USE ONLY.

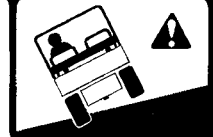
LOS OPERADORES DEBEN ESTAR MUY BIEN CAPACITADOS EN UNA OPERACION SEGURA.

### • TO AVOID TIPOVER:

- USE EXTREME CAUTION ON HILLS, SLOPES, AND ROUGH TERRAIN.
- REDUCE SPEED AND DISENGAGE DIFFERENTIAL LOCK WHEN TURNING.
- AVOID SUDDEN SHARP TURNS, STARTS AND STOPS. AVOID HOLES, DROP OFFS, OR HIDDEN HAZARDS IN TERRAIN.
- REDUCE SPEED WITH HEAVIER LOADS.

- OPERATOR MUST BE SKILLED AND TRAINED IN SAFE OPERATION.

- OPERATOR AND PASSENGER (MAXIMUM ONE) MUST REMAIN SEATED AND KEEP ARMS AND LEGS WITHIN VEHICLE BODY.
- NO ADDITIONAL PASSENGERS IN BOX OR ON ATTACHMENTS.
- KEEP BYSTANDERS AND PETS AWAY FROM MACHINE.
- STOP ENGINE BEFORE ADDING FUEL OR SERVICING MACHINE.
- CHECK OPERATION OF ALL INTERLOCKS, BRAKES AND ACCELERATOR DAILY. KEEP ALL SAFETY DEVICES IN PLACE.
- MAXIMUM ENGINE SPEED IS 3650 RPM. DO NOT EXCEED.



87-5970

ON SKIRT  
(Part No. 87-5920)

## WARNING

THIS ARM IS SPRING LOADED!

SEE OPERATORS MANUAL FOR DISASSEMBLY PROCEDURE

ON SPRING CRADLE  
(Part No. 44-0760)

## DANGER

AVOID PERSONAL INJURY. ALWAYS INSTALL BED SUPPORT CHANNEL OVER CYLINDER ROD BEFORE WORKING UNDER A RAISED BED.



SEE OPERATOR'S MANUAL FOR PROPER BED INSTALLATION AND REMOVAL PROCEDURES.

87-7930

ON LIFT CYLINDERS & BED SUPPORT  
(Part No. 87-7930)

APPROXIMATE OPERATING WEIGHT 1600 LBS.  
RATED CAPACITY 2600 LBS.  
GVW 4200 LBS MAXIMUM  
RATED CAPACITY SHOWN ABOVE MAY VARY WITH TIRE TYPE, TIRE PRESSURE, AND ATTACHMENT CONFIGURATION.  
(REFER TO OPERATORS MANUAL FOR DETAILS.)

THIS UNIT COMPLIES WITH ANSI B56.8a - 1994 - TYPE G

93-7142

UNDER RIGHT SIDE OF DASH  
(Part No. 93-7142)

## CAUTION

WATER OR DIRT IN THE AIR INLET SYSTEM CAN CAUSE SEVERE ENGINE DAMAGE. TO AVOID ENGINE DAMAGE:

- ALWAYS KEEP RADIATOR COVER INSTALLED. (IF SO EQUIPPED)
- WHEN CLEANING THE RADIATOR AREA, THE ENGINE MUST NOT BE RUNNING AND THE CLEAN OUT DOOR MUST BE OPEN.

87-9420

IN FRONT OF RADIATOR  
(Part No. 87-9420)

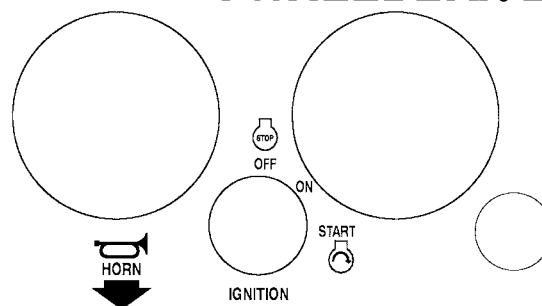


ON LEFT FRAME RAIL  
(Part No. 66-6840)



ON CONSOLE  
(Part No. 87-6000)

## AUTOMATIC ON DEMAND 4 WHEEL DRIVE



## WARNING

READ AND UNDERSTAND OPERATOR'S MANUAL BEFORE OPERATING THIS MACHINE.

### OPERATING INSTRUCTIONS

#### STARTING INSTRUCTIONS

- SIT IN OPERATOR'S SEAT.
- ENGAGE PARKING BRAKE.
- DISENGAGE PTO. (IF APPLICABLE.)
- PUT SHIFT LEVER IN NEUTRAL.
- DEPRESS CLUTCH PEDAL.
- TURN KEY TO START ENGINE.

#### STOPPING INSTRUCTIONS

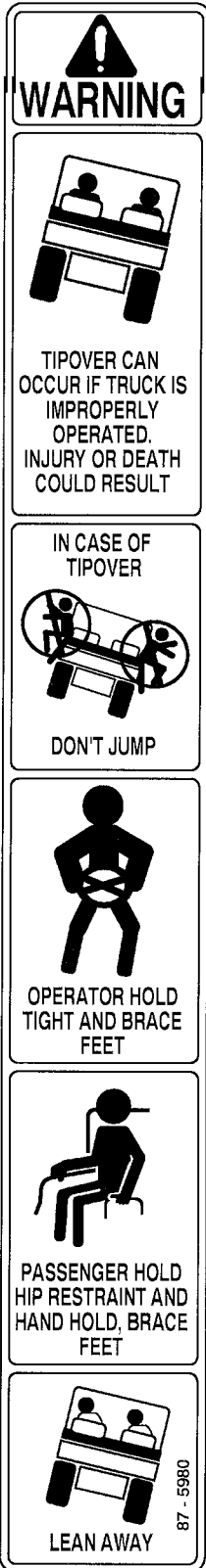
- TURN KEY TO "OFF" POSITION.
- REMOVE KEY.
- ENGAGE PARKING BRAKE.

87-9880

ON DASH  
(Part No. 87-9880)



# SAFETY AND INSTRUCTION DECALS



**ON ROPS**  
(Part No. 87-5980)

## PARKING BRAKE



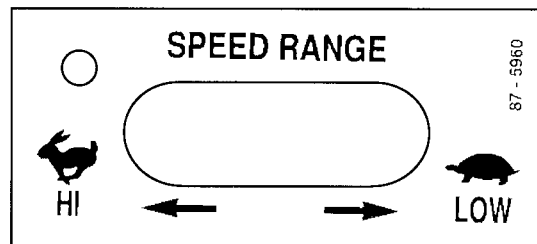
87-6020

**ON CONSOLE**  
(Part No. 87-6020)

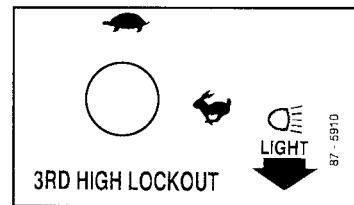
**HITCH RATING:**  
MAXIMUM TONGUE  
WEIGHT 200 LBS.  
MAXIMUM  
TRAILER WEIGHT;  
1500 LBS.

**TRANSMISSION  
FLUID  
USE DEXRON II  
AUTOMATIC  
TRANSMISSION  
FLUID OR  
EQUIVALENT**

**ON AXLE TUBE**  
(Part No. 87-6060)



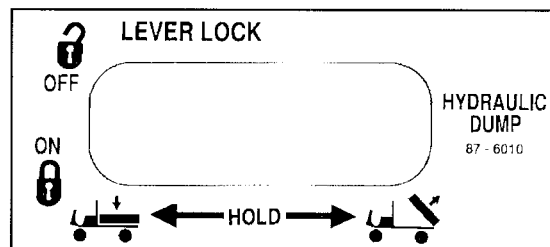
**ON CONSOLE**  
(Part No. 87-5960)



**ON DASH**  
(Part No. 87-5910)

## DO NOT STEP

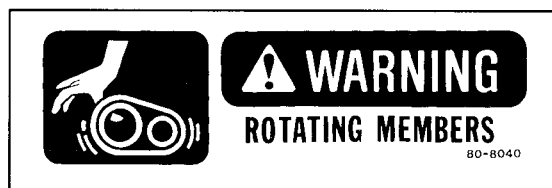
**ON BATTERY COVER**  
(Part No. 36-3400)



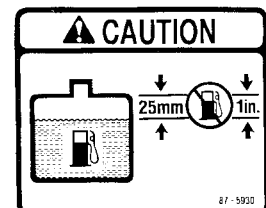
**ON CONSOLE**  
(Part No. 87-6010)

**ROLL-OVER  
PROTECTIVE  
STRUCTURE  
TO MAINTAIN  
OPERATOR  
PROTECTION AND  
TORO ROPS  
CERTIFICATION:**  
• REPLACE DAMAGED  
ROPS, DO NOT REPAIR  
OR REVISE.  
• ANY ALTERATIONS  
OF ROPS MUST BE  
APPROVED BY  
MANUFACTURER.  
87-5940

**ON ROPS**  
(Part No. 87-5940)



**ON FAN SUPPORT**  
(Part No. 80-8040)



**ON SKIRT**  
(Part No. 87-5930)

# SPECIFICATIONS

**Type:** 4 wheel step through, out front operator style, two person vehicle. Certified to meet ANSI Specifications B56.8a–1994.

**Engine:** Mitsubishi three cylinder, liquid cooled, counterbalanced, gasoline engine. Rated at 27 hp, governed to a maximum speed of 3650 rpm by a mechanical governor. 40 cu. in. (657 cc) displacement. Forced lubrication by gear pump. 40 amp alternator with I/C regulator. Spin–on oil filter.

**Air Cleaner:** Heavy duty, 2-stage, remote mounted air cleaner.

**Battery:** 12 volt with 370 cold cranking Amps @ 0 degrees F.

**Cooling System:** Mid mounted radiator with removable screen and lower clean out access. Cooling system capacity is approximately 4 qts. of 50/50 mixture of ethylene glycol anti–freeze.

**Fuel System:** Gasoline tank capacity is 7 gallons. 12 volt, electric fuel pump.

**Transmission:** Rear transaxle configuration, twin axle drive. 3 speed synchromesh, H–shift pattern with high–low range providing 6 forward and 2 reverse speeds. 4 wheel drive output shaft. Manual engage differential lock.

**Clutch:** 7.5" clutch and pressure plate.

**Front Differential:** 5.0 to 1 ratio

**Center Differential:** Bi–directional overrunning clutch

**Frame:** Welded, high strength steel channels and tubes.

**Front Suspension:** Independent "A" frame control arm, dual coil springs and dual shock absorbers with anti–sway bar.

**Rear Suspension:** DeDion axle (weight carrying axle is independent of transaxle), leaf spring and dual shock absorbers.

**Steering System:** Power assist, 3 position tilt steering wheel, 3–3/4 turns lock–to–lock. 17.5 to 1 ratio, 14" diameter steering wheel.

**Tires:** Front tires: 20" x 10"-10, 4-ply rating, rib tread.  
Rear tires: 24" x 13"-12, 4-ply rating, turf tread.

**Brakes:** 4 wheel hydraulic, dual safety circuit self adjusting drum: 7" diameter front, 8" diameter rear. Hand actuated parking brake actuates rear brake shoes.

**ROPS:** 2 post roll over protection structure with shoulder restraint.

**Specifications and design subject to change without notice.**

**Hydraulics:** 4 gpm pressure balanced gear pump provides hydraulic flow for power steering, lift and optional remote hydraulics. Lift control valve and dual cylinders for lifting dump box. Transaxle is used for reservoir for hydraulic system. 8 quart total capacity. Spin–on 25 micron hydraulic oil filter. 100 mesh strainer in transaxle.

**Seat:** Twin molded cushions and backrests, with shoulder and hip restraints.

**Controls:** Foot operated accelerator, clutch and brake pedals. Hand operated shifter, differential lock, parking brake, high–low range shifter, hydraulic lift and tilt steering levers. Ignition switch, light switch, horn button and 3rd high lockout switch.

**Gauges:** Hour meter, fuel gauge, coolant temperature gauge. Warning light cluster includes engine low oil pressure and charge indicator. Tachometer optional.

**Lights:** Twin halogen headlights and single taillight. Rear stop light.

**Tow Hitch:** Hitch has hole for ball or pin.

**Interlocks:** Clutch pedal must be depressed to start engine.

## Ground Speed:

### Forward Speeds w/24" Rear Tires

High range: 7.6/11.5/19.8 mph

Low range: 2.9/4.5/7.7 mph

### Reverse Speeds w/24" Tires

High range: 7.2 mph

Low range: 2.8 mph

## General Specifications (approx.):

Base Weight: Dry w/o flatbed 1600 lbs.

Rated Capacity: \*2,600 lbs.  
\*includes 200 lb. operator and 200 lb. passenger and loaded attachment.

Maximum. Gross Vehicle Weight: 4,200 lbs.

Tow Capacity Tongue weight 200 lbs.  
Maximum trailer weight 1,500 lbs.

Overall Width: 63"

Overall Length: 124.5" w/o bed  
127" w/full bed  
133" w/2/3 bed  
in rear mounting location

Height: 75" to top of ROPS

Ground Clearance: 7" w/ no load

Wheel Base: 70"

Wheel Tread: (center line to center line) 46" Front  
49.7" Rear

# LOOSE PARTS CHART

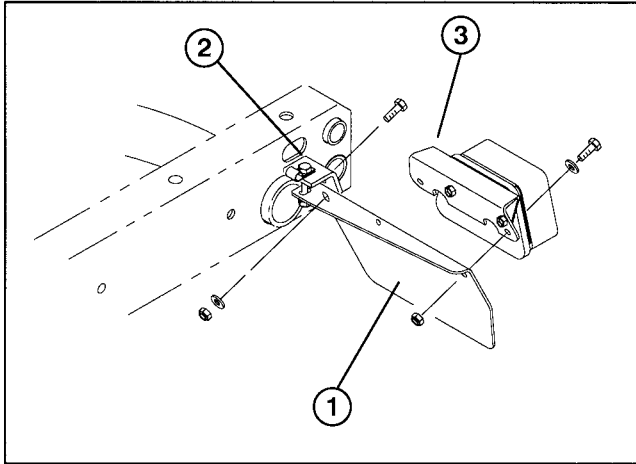
**Note:** Use this chart as a checklist to assure all parts necessary for assembly have been received. Without these parts, total set-up cannot be completed. Some parts may have already been assembled at factory.

DESCRIPTION	QTY.	USE
Fenders – Rear Capscrew 5/16–18 x 1" lg. Flatwasher .344" I.D. Locknut 5/16–18 Capscrew 1/4–20 x 1" lg. Flatwasher .281" I.D. Locknut 1/4–20 Trusshead Screw Locknut 3/8–16	2 4 4 4 12 12 12 6 6	Mount rear fenders
Wheel Nut Wheel – Front Wheel Nut Wheel – Rear	10 2 10 2	Mount wheels.
Steering wheel Foam Seal Washer Nut Cap	1 1 1 1 1	Install steering wheel
Fenders – Front Phillips Screw 10–24 Washer Locknut 10–24	2 14 14 14	Install front fenders
Seat Frame Seat Frame Bracket Carriage Bolts 3/8–16 x 3/4" lg. Flange Locknut 3/8–16 Capscrew 1/2–13 x 1" lg. Locknut 1/2–13 Capscrew 3/8–16 x 1" lg. Lockwasher 3/8–16	1 2 4 4 2 2 2 2	Install seat frame
Seat Back Cushion Seat Back Bracket Capscrew 1/4–20 x 3/4" lg. Washer 1/4" Carriage Bolts 5/16–18 x 5/8" lg. Flange Locknuts 5/16–18 Manual Tube R – Clamp	2 4 8 8 8 8 1 2	Install seat back cushion and manual tube
ROPS Capscrew 1/2–13 x 3" lg. Locknuts 1/2–13	1 4 4	Mount ROPS
Rear Pivot Bracket Pivot Tube Capscrew 3/8–16 x 3–3/4" lg. Locknut 3/8–16 Spacer Block Machine Screw Locknut	4 2 2 2 2 4 4	Use with optional bed kits <b>Note:</b> Use these bed mounting parts with the Workman 4200 (Gas) & 4300D (Diesel) to avoid interference with radiator cover.
Operator's Manual (Vehicle) Parts Catalog	2 1	Read before operating machine.
Registration Card	1	Fill out and return to Toro

# SET-UP INSTRUCTIONS

## INSTALL REAR FENDERS (Fig. 1 –2)

1. Loosen the locknuts and capscrews securing tail light plates to right and left frame brackets.
2. Pivot tail light plates rearward and tighten capscrews and locknuts.

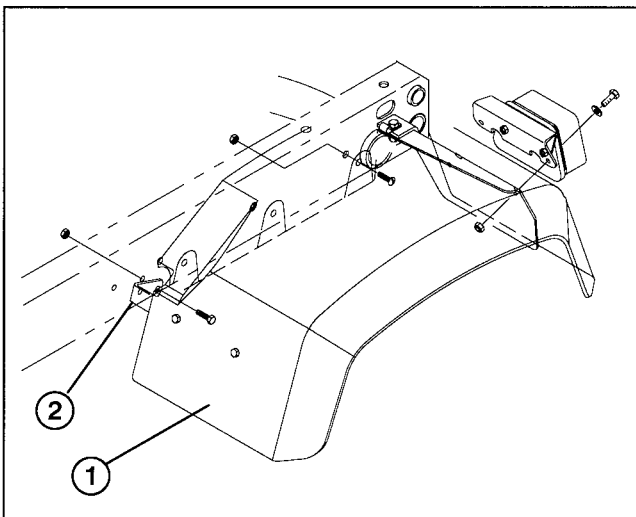


**Figure 1**

1. Tail light plate
2. Frame bracket
3. Tail light mounting bracket

3. Secure rear of each tail light plate to rear of frame brackets with a 5/16–18 x 1" lg. capscrew, .281" I.D. flatwasher and nut, as shown in figure 1.

4. On left side, remove (2) capscrews, washers and nuts securing tail light mounting bracket to tail light plate.



**Figure 2**

1. Fender
2. Fender mounting bracket

5. Position a fender over each tail light plate, aligning mounting holes.

6. On left side, loosely secure tail light mounting bracket, rear of fender and tail light plate together with (2) capscrews, washers and nuts, previously removed.

7. On right side, secure rear of fender to tail light plate with (2) 1/4–20 x 1" lg. capscrews, .281" I.D. flatwashers and nuts

8. Loosely secure front of each fender mounting bracket to frame with a 1/4–20 x 1" lg. capscrew and locknut.

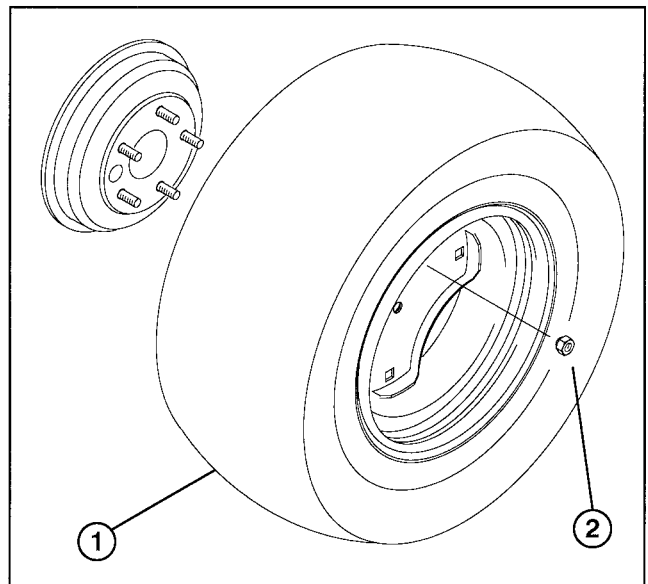
9. Loosely secure side of each fender to frame (3) 3/8–16 x 1" lg. truss head screws and locknuts.

**Note:** Capscrews securing fronts of fenders to mounting brackets may have to be loosened to align all mounting holes.

10. Tighten all fasteners.

## INSTALL WHEELS (Fig. 3)

1. Remove and discard fasteners securing wheels.
2. Mount wheels and torque nuts to 45-55 ft-lb.



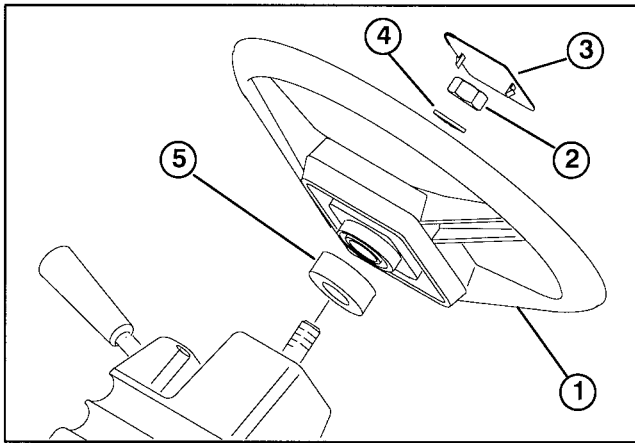
**Figure 3**

1. Wheel
2. Wheel Nut

## INSTALL STEERING WHEEL (Fig. 4)

1. Remove jam nut from steering shaft. Slide foam seal, steering wheel and washer onto steering shaft.
2. Secure steering wheel to shaft with jam nut and tighten it to 10–15 ft-lb.
3. Install cap to steering wheel.

# SET-UP INSTRUCTIONS

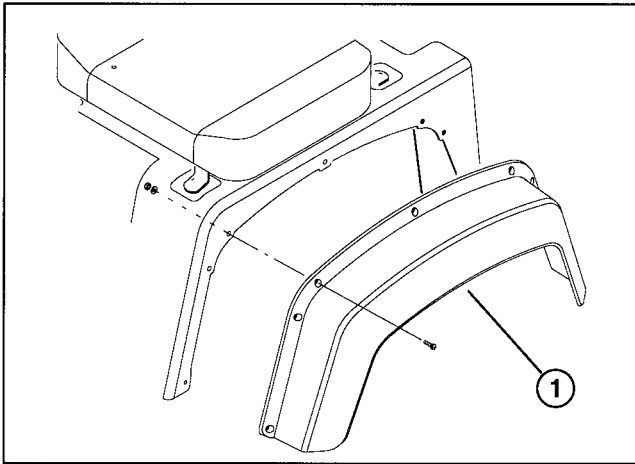


**Figure 4**

- |                   |              |
|-------------------|--------------|
| 1. Steering Wheel | 4. Washer    |
| 2. Jam Nut        | 5. Foam Seal |
| 3. Cap            |              |

## INSTALL FRONT FENDERS (Fig. 5)

1. Mount a fender to each side of skirt with (7) 10–24 Phillips screws, flat washers and locknuts.

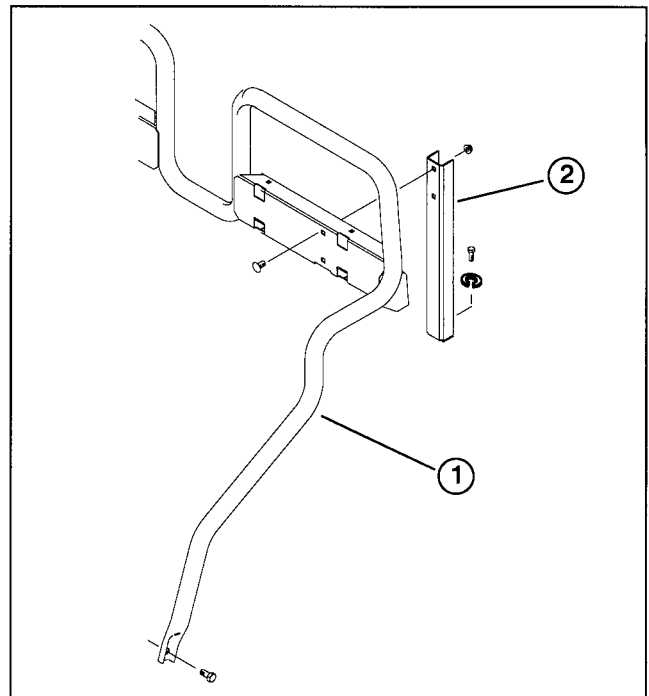


**Figure 5**

1. Fender

## INSTALL SEAT FRAME (Fig. 6)

1. Mount a seat frame bracket to each end of seat frame with (2) 3/8–16 x 3/4" carriage bolts and flange locknuts.
2. Position seat frame on vehicle, aligning mounting holes in frame with holes in vehicle.
3. Secure front legs of seat frame to sides of vehicle floor with (2) 1/2–13 x 1" lg. capscrews and locknuts.
4. Secure bottom of each seat frame bracket to vehicle frame with a 3/8–16 x 1" capscrew and lockwasher.

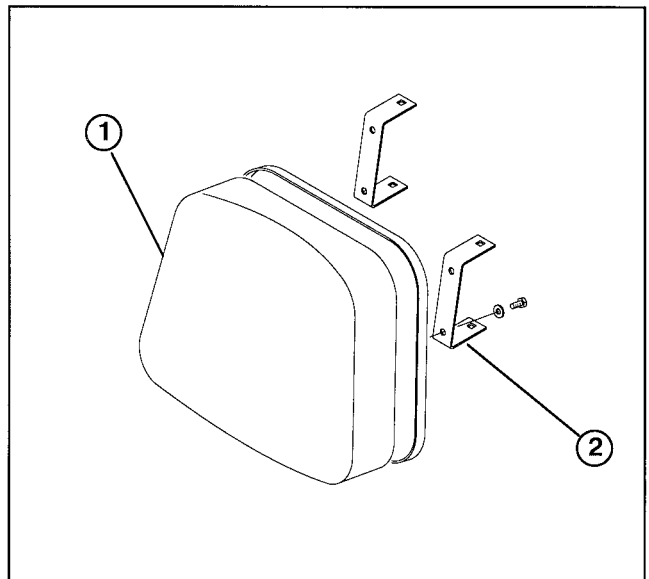


**Figure 6**

1. Seat frame
2. Seat frame bracket

## INSTALL SEAT BACK CUSHIONS, MANUAL TUBE AND BED SUPPORT (Fig. 7 – 9)

1. Mount (2) seat back brackets to each seat back cushion with (4) 1/4–20 x 3/4" lg. capscrews and 1/4" flat washers. Position brackets on seat back cushions as shown in figure 7.



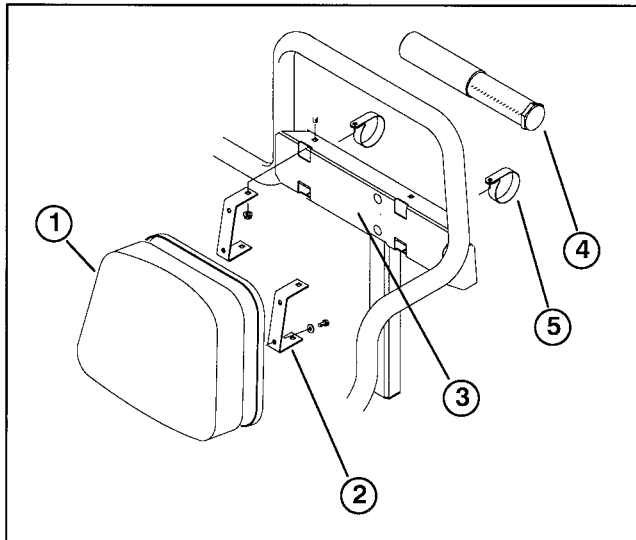
**Figure 7**

1. Cushion seat back
2. Seat back bracket



# SET-UP INSTRUCTIONS

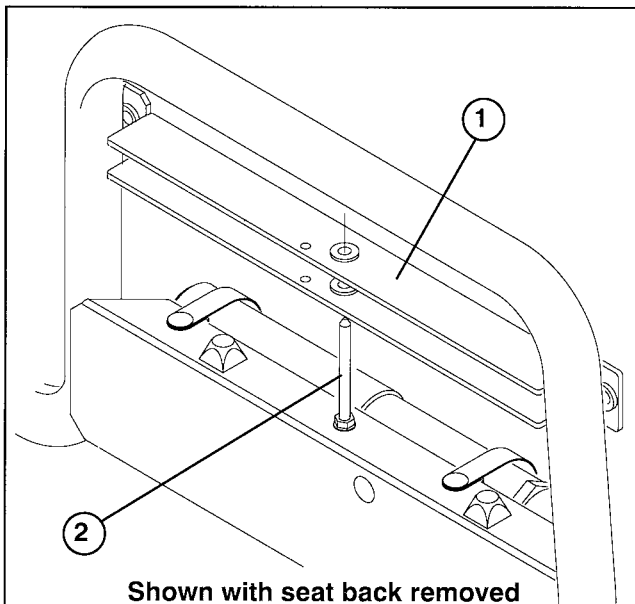
2. Mount cushion with seat back brackets to right side of seat back with (4) 5/16-18 x 5/8" lg. carriage bolts and flange locknuts.
3. Slide manual tube into (2) R-clamps.



**Figure 8**

- |                      |                |
|----------------------|----------------|
| 1. Cushion seat back | 4. Manual tube |
| 2. Seat back bracket | 5. R-clamp     |
| 3. Seat back         |                |

4. Mount cushion with seat back brackets and manual tube R-clamps to left seat back with (4) 5/16-18 x 5/8" lg. carriage bolts and flange locknuts.
5. Slide bed support onto storage stud (Fig. 9).



Shown with seat back removed

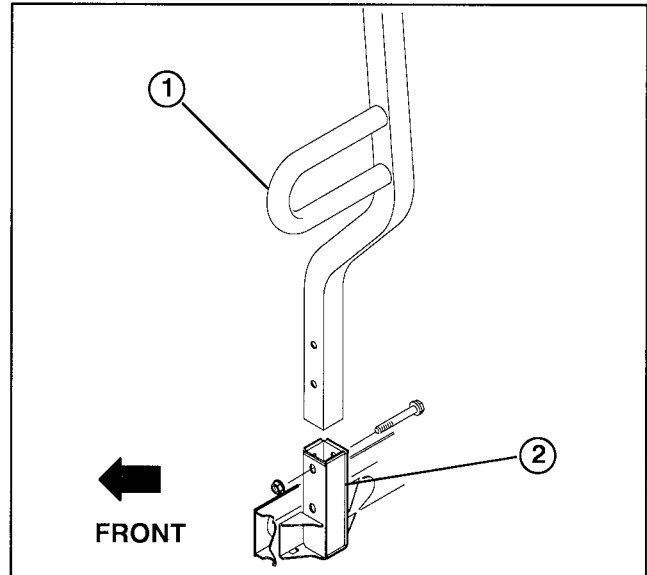
**Figure 9**

1. Bed support
2. Storage stud

## INSTALL ROPS (Fig. 10)

1. Insert each side of ROPS into mounting bracket on each side of vehicle frame, positioning ROPS as shown in figure 10.

2. Secure each side of ROPS to mounting brackets with (2) 1/2-13 x 3" lg. capscrews and locknuts.



**Figure 10**

1. ROPS
2. Mounting brackets

## ACTIVATE AND CHARGE BATTERY

(Fig. 11 & 12)

If Battery is not filled with electrolyte or activated, it must be removed from vehicle, filled with electrolyte and charged. Bulk electrolyte with 1.260 specific gravity can be purchased from a local battery supply outlet.



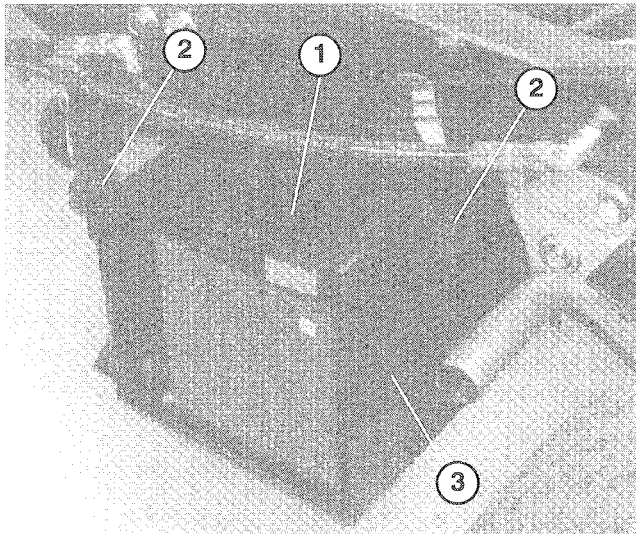
## CAUTION

Electrolyte gases are explosive and can cause serious injury to eyes, lungs and skin. Wear safety goggles and rubber gloves when working with electrolyte or battery. Charge the battery in a well ventilated place so gasses produced while charging can dissipate. Since the gases are explosive, keep open flames and electrical spark away from the battery; do not smoke. Nausea may result if the gases are inhaled. Unplug charger from electrical outlet before connecting to or disconnecting charger leads from battery posts.

1. Loosen knobs securing battery cover to battery base and slide cover off.

2. Remove capscrew, washers and locknut securing battery hold down to battery base. Remove hold down and slide battery out of battery base.

# SET-UP INSTRUCTIONS



**Figure 11**

- 1. Battery cover
- 2. Knob
- 3. Battery base

3. Remove filler caps from battery and slowly fill each cell until electrolyte is just above the plates.

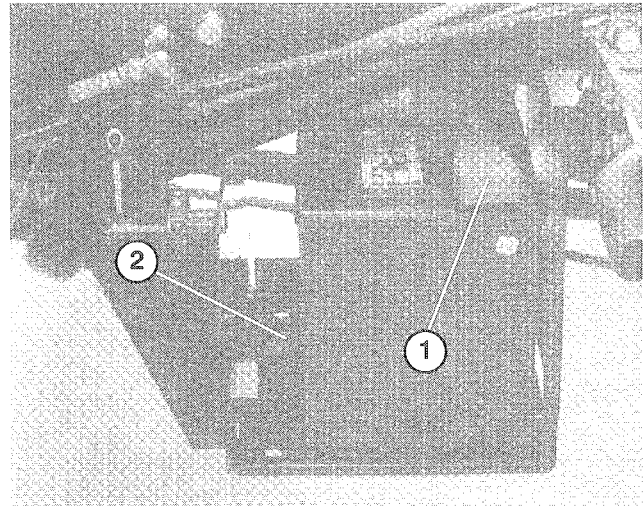
4. Replace filler caps and connect a 3 to 4 amp battery charger to the battery posts. Charge the battery at a rate of 3 to 4 amperes for 4 to 8 hours.

5. When battery is charged, disconnect charger from electrical outlet and battery posts.

6. Remove filler caps. Slowly add electrolyte to each cell until level is up to fill ring. Install filler caps.

**IMPORTANT: Do not overfill battery. Electrolyte will overflow onto other parts of the vehicle and severe corrosion and deterioration will result.**

7. Slide battery into battery base so battery terminals are toward the rear of the vehicle.



**Figure 12**

- 1. Positive (+) cable
- 2. Hold down

8. Install the positive cable (red) to the positive (+) terminal and the negative cable (black) to the negative (—) terminal of the battery and secure with capscrews and nuts. Slide the rubber boot over the positive terminal to prevent possible short—out from occurring.



## WARNING

**Connecting cables to the wrong post could result in personal injury and/or damage to the electrical system. Make sure battery or cables do not interfere or rub on any moving or hot parts.**

9. Install battery hold down and secure to base with capscrew, washers and locknut.

10. Reinstall battery cover to battery base and tighten knobs.

# BEFORE OPERATING



## CAUTION

Before servicing or making adjustments to the machine, stop engine, set parking brake and remove key from the switch. Any load material must be removed from bed or other attachment before working under raised bed. Always rotate safety support to the down position before working under raised bed.

### CHECK CRANKCASE OIL (Fig. 13)

The engine is shipped with approximately 3 quarts (w/ filter) of oil in the crankcase; however, level of oil must be checked before and after the engine is first started.

1. Position machine on a level surface.
2. Remove dipstick and wipe it with a clean rag. Insert dipstick into tube and make sure it is seated fully. Remove dipstick and check level of oil. If oil level is low, remove filler cap and add enough oil to raise level to FULL mark on dipstick.

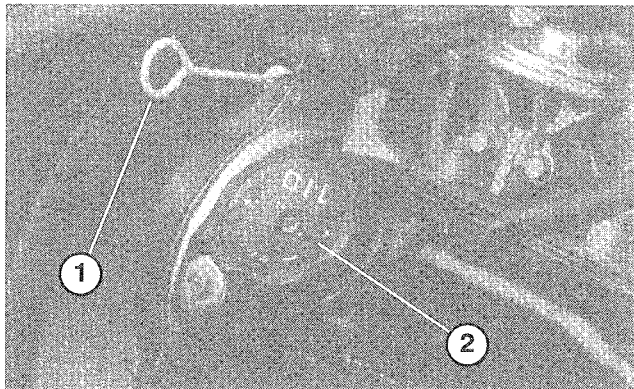


Figure 13

1. Dipstick
2. Filler cap

3. The engine uses any high-quality detergent oil having the American Petroleum Institute -API- "service classification" SG or SG/CD. See viscosity chart for recommended weight to use.

4. Pour oil into fill opening until the oil level is up to the "FULL" mark on the dipstick. Add the oil slowly and check the level often during this process. DO NOT OVERFILL.

**IMPORTANT:** Check level of oil every 8 operating hours or daily. Change oil and filter initially after the first 50 hours of operation, thereafter, change oil and filter every 100 hours. However, change oil more frequently when engine is operated in extremely dusty or dirty conditions.

5. Install the dipstick firmly in place.

Anticipated atmospheric temperature range		SAE viscosity No.
C°	F°	
49	120	
38	100	
27	80	20w20 20w40 20w50
16	60	10w30 10w40 10w50
0	32	*5w20 5w30 5w40
-12	10	
-23	-10	
-29	-20	

\* SAE 5W-20 Not recommended for sustained high speed vehicle operation.

### FILL FUEL TANK (Fig. 14)

Fuel tank capacity is approximately 7 gallons.

THE TORO COMPANY STRONGLY RECOMMENDS THE USE OF FRESH, CLEAN, **UNLEADED** REGULAR GRADE GASOLINE IN TORO GASOLINE POWERED PRODUCTS. UNLEADED GASOLINE BURNS CLEANER, EXTENDS ENGINE LIFE, AND PROMOTES GOOD STARTING BY REDUCING THE BUILD-UP OF COMBUSTION CHAMBER DEPOSITS. LEADED GASOLINE CAN BE USED IF UNLEADED IS NOT AVAILABLE. MINIMUM OCTANE RATING OF 87.

**NOTE: NEVER USE METHANOL, GASOLINE CONTAINING METHANOL, GASOLINE CONTAINING MORE THAN 10% ETHANOL, GASOLINE ADDITIVES, OR WHITE GAS BECAUSE ENGINE FUEL SYSTEM DAMAGE COULD RESULT.**

1. Clean area around fuel tank cap.

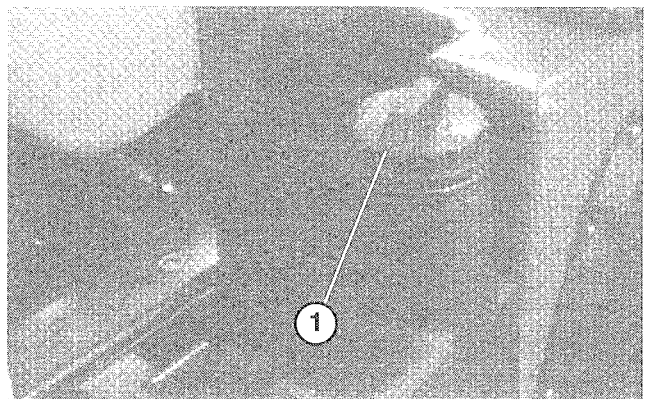


Figure 14

1. Fuel tank cap

## BEFORE OPERATING

2. Remove fuel tank cap.
3. Fill tank to about one inch below top of tank, (bottom of filler neck). **DO NOT OVERFILL.** Then install cap.
4. Wipe up any fuel that may have spilled to prevent a fire hazard.



### DANGER

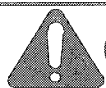
Because gasoline is flammable, caution must be used when storing or handling it. Do not fill fuel tank while engine is running, hot or when machine is in an enclosed area. Vapors may build up and be ignited by a spark or flame source many feet away. **DO NOT SMOKE** while filling the fuel tank to prevent the possibility of an explosion. Always fill fuel tank outside and wipe up any spilled gasoline before starting engine. Use a funnel or spout to prevent spilling gasoline, and fill tank no higher than one inch below top of tank, (bottom of filler neck). **DO NOT OVER FILL.** Store gasoline in a clean safety approved container and keep the cap on the container. Keep gasoline in a cool, well-ventilated place; never in an enclosed area such as a hot storage shed. To assure volatility, do not buy more than a 30 day supply of gasoline. Gasoline is a fuel for internal combustion engines; therefore do not use it for any other purpose. Since many children like the smell of gas, keep it out of their reach because the fumes are explosive and dangerous to inhale.

### CHECK COOLING SYSTEM (Fig. 15)

Capacity of cooling system is approximately 4 qts.

The cooling system is filled with a 50/50 solution of water and permanent ethylene glycol anti-freeze. Check level of coolant at beginning of each day before starting the engine.

1. Park machine on a level surface.



### CAUTION

If engine has been running, pressurized hot coolant can escape if radiator cap is removed and cause burns. Allow engine to cool at least 15 minutes or until the radiator cap is cool enough to touch without burning hand.

2. Check coolant level. Coolant should be up to COLD line on reserve tank, when engine is cold.

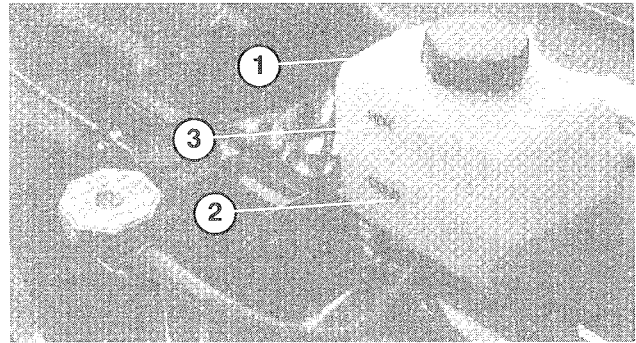


Figure 15

1. Reserve tank 2. Cold line 3. Hot line

3. If coolant is low, remove reserve tank cap and add a 50/50 mixture of water and permanent ethylene glycol anti-freeze. **DO NOT OVERFILL.**
4. Install reserve tank cap.

### CHECK TRANSAXLE / HYDRAULIC FLUID (Fig. 16)

The transaxle reservoir is filled with Dexron II ATF. Check level before engine is first started and every 8 hours or daily, thereafter. Capacity of system is 7.5 qt.

1. Position the vehicle on a level surface.
2. Clean area around dipstick.
3. Unscrew dipstick from top of transaxle and wipe it with a clean rag.

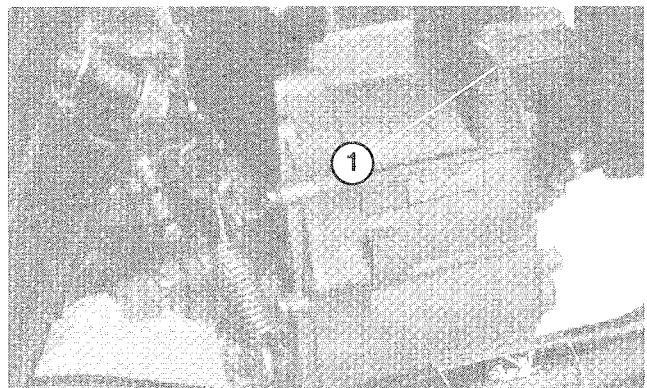


Figure 16

1. Dipstick

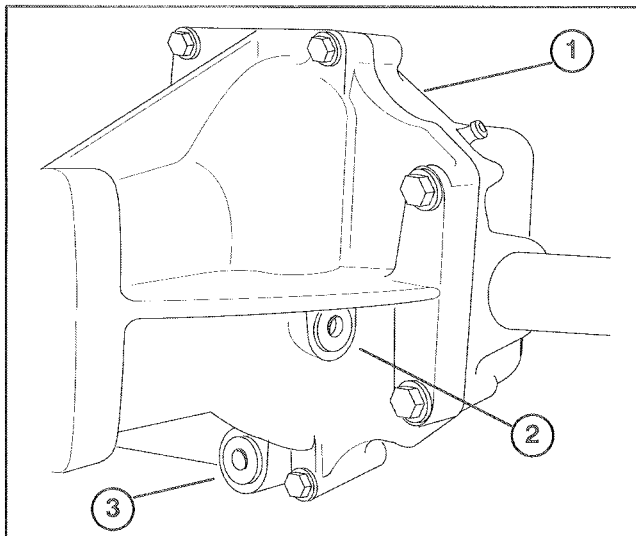
4. Screw dipstick into transaxle and make sure it is seated fully. Unscrew dipstick and check fluid level. Fluid should be up to top of flat portion of dipstick. If level is low, add enough fluid to achieve the proper level.

### CHECK FRONT DIFFERENTIAL OIL (Fig. 17)

The differential is filled with 10W30 oil. Check level of oil every 100 hours or monthly. Capacity of system is 1 qt.

1. Position the vehicle on a level surface.
2. Clean area around fill/check plug on side of differential.

# BEFORE OPERATING



**Figure 17**

1. Front differential
2. Fill/check plug
3. Drain plug

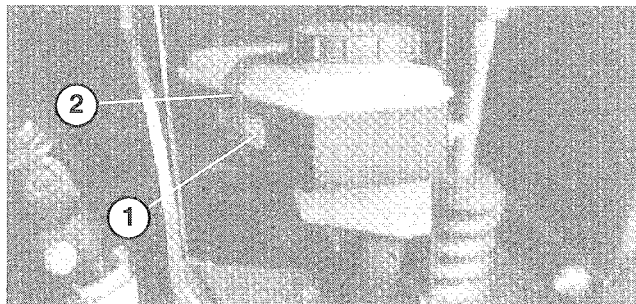
3. Remove fill/check plug and check level of oil. Oil should be up to hole. If oil is low, add 10W30 oil.

4. Re-install fill/check plug.

## CHECK BRAKE FLUID (Fig. 18)

The brake fluid reservoir is shipped from the factory filled with "DOT 3" brake fluid. Check level before engine is first started and every 8 hours or daily, thereafter.

1. Park machine on a level surface.
2. Fluid level should be up to FULL line on reservoir.
3. If fluid level is low, clean area around cap, remove reservoir cap and fill to proper level. **DO NOT OVERFILL.**



**Figure 18**

1. Brake fluid reservoir
2. Full line

## CHECK TORQUE OF WHEEL NUTS



### WARNING

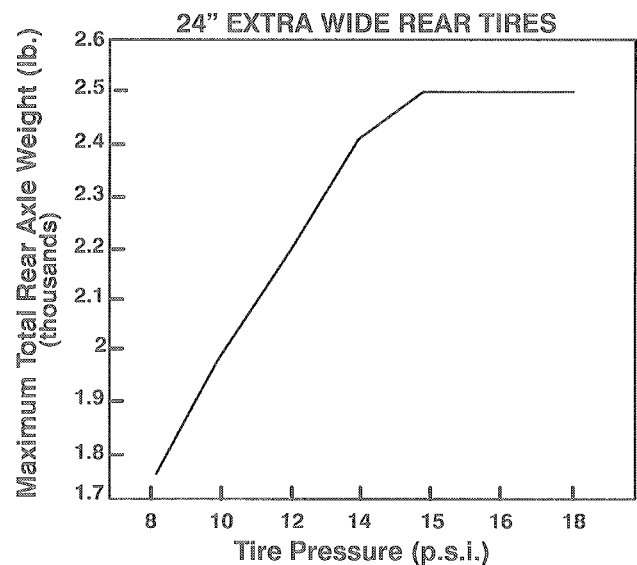
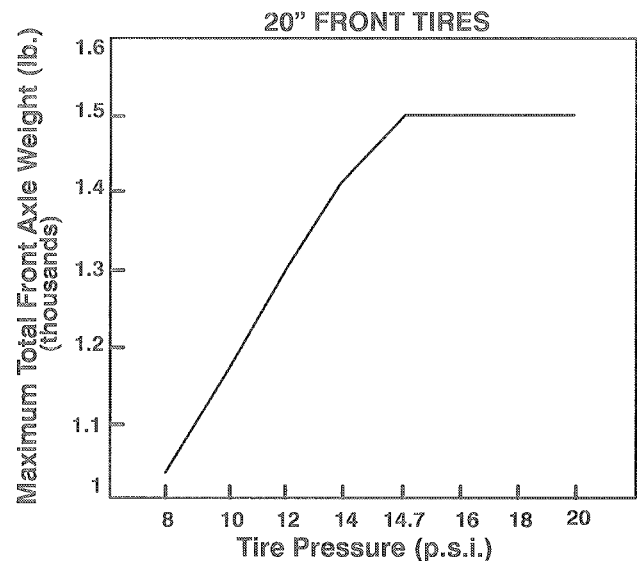
Failure to maintain proper torque could result in failure or loss of wheel and may result in personal injury. Torque front and rear wheel nuts to 45-65 ft-lb after 1-4 hours of operation and again after 10 hours of operation and every 200 hours thereafter.

## CHECK TIRE PRESSURE

Check tire pressure every 8 hours or daily to assure proper levels.

Maximum air pressure in front tires is 20 psi and rear (24") tires is 18 psi.

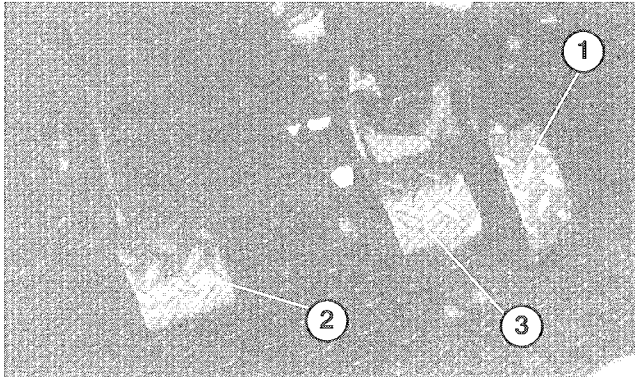
1. The air pressure needed is determined by the payload carried.
2. The lower the air pressure, the less the compaction and tire marks are minimized. Lower pressure should not be used for heavy payloads at high speeds. Tire damage may result.
3. Higher pressures should be used for heavier payloads at higher speeds. Do not exceed the maximum pressure. Use the following charts to determine correct tire pressures for tire size and payload of vehicle.





# CONTROLS

**Accelerator Pedal** (Fig. 19) – The accelerator pedal gives the operator the ability to vary engine and ground speed of the vehicle, when the transmission is in gear. Depressing the pedal increases engine RPM and ground speed. Releasing pedal will decrease engine RPM and ground speed of the machine.



**Figure 19**

1. Accelerator pedal
2. Clutch pedal
3. Brake pedal

**Clutch Pedal** (Fig. 19) – The clutch pedal must be fully depressed to disengage clutch when starting engine or shifting transmission gears. Release pedal smoothly when transmission is in gear to prevent unnecessary wear on transmission and other related parts.

**IMPORTANT:** Do not ride clutch pedal during operation. Clutch pedal must be fully out or clutch will slip causing friction and wear. Never hold the vehicle stopped on a hill using the clutch pedal. Damage to the clutch may occur.

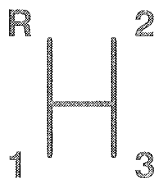
**Brake Pedal** (Fig. 19)) – The brake pedal is used to apply service brakes to stop or slow vehicle.

## CAUTION

Worn or misadjusted brakes may result in personal injury. If brake pedal travels to within 1–1/2" of the vehicle floor board, the brakes must be adjusted or repaired.

**Gear Shift Lever** (Fig. 20) – Fully depress clutch pedal and move shift lever into desired gear selection. A diagram of the shift pattern is indicated below.

## Shift Pattern



**IMPORTANT:** Do not shift the transaxle to the reverse or forward gear unless the vehicle is standing still. Damage to transaxle may occur.

## CAUTION

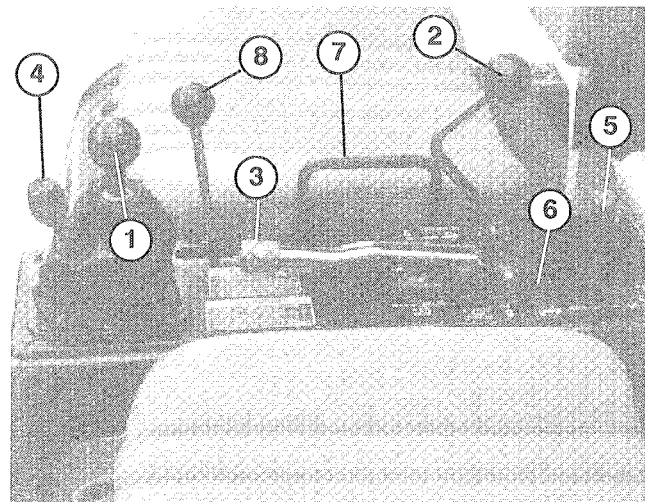
Down shifting from too high a speed can cause the rear wheels to skid resulting in loss of vehicle control as well as clutch and/or transmission damage. Shift smoothly to avoid grinding gears.

**Differential Lock** (Fig. 20) – Allows rear axle to be locked for increased traction. Differential lock may be engaged with vehicle in motion. Move lever forward and to the right to engage lock.

**Note:** Vehicle motion plus a slight turn is required to engage or disengage differential lock.

## WARNING

Turning with the differential lock on can result in loss of vehicle control. Do not operate with differential lock on when making sharp turns or at high speeds. Refer to using the differential lock, page 25.



**Figure 20**

- |                           |                         |
|---------------------------|-------------------------|
| 1. Gear shift lever       | 5. Hydraulic lift       |
| 2. Differential lock      | 6. Hydraulic lift lock  |
| 3. Parking brake          | 7. Passenger hand hold  |
| 4. High-low range shifter | 8. PTO lever (optional) |

# CONTROLS

**Parking Brake** (Fig. 20) – Whenever the engine is shut off, the parking brake must be engaged to prevent accidental movement of the vehicle. To engage the parking brake, pull back on lever. To disengage, push lever forward. Make sure parking brake is released before moving vehicle. If vehicle is parked on a steep grade, make sure parking brake is applied. Also, shift the transmission into 1st gear on a uphill grade or reverse on a down hill grade. Place chocks at the down hill side of wheels.

**Hydraulic Lift** (Fig. 20) – Raises and lowers bed. Move rearward to raise, forward to lower.

**IMPORTANT:** When lowering bed, hold lever in forward position for 1 or 2 seconds after bed contacts frame to secure it in lowered position. Do not hold the hydraulic lift in either the raise or lower position, for more than 5 seconds, once the cylinders have reached the end of their travel. The hydraulic pump may over heat, resulting in pump damage.

**Hydraulic Lift Lock** (Fig. 20) – Locks lift lever so hydraulic cylinders do not operate when vehicle is not equipped with a bed.

**Passenger Hand Hold** (Fig. 20) – Left side of passenger seat.

**High–Low Range Shifter** (Fig. 20) – Adds three additional speeds for precise speed control.

- A. Vehicle must be completely stopped before shifting between High and Low range.
- B. Shift only on level ground.
- C. Depress clutch pedal fully.
- D. Move lever fully forward for High and fully rearward for Low.

HIGH is for higher speed driving on level, dry surfaces with light loads.

LOW is for low speed driving. Use this range when greater than normal power or control is required. For example, steep grades, difficult terrain, heavy loads, slow speed but high engine speed (spraying).

**NOTE:** There is a location between HIGH and LOW in which the transaxle is in neither range. This should not be used as a neutral position because the vehicle could move unexpectedly if the HIGH–LOW shifter is bumped and the gear shift lever is in gear.

**Tilt Steering Lever** (Fig. 21) – Lever on right side of console allows steering wheel to be adjusted for operator comfort.

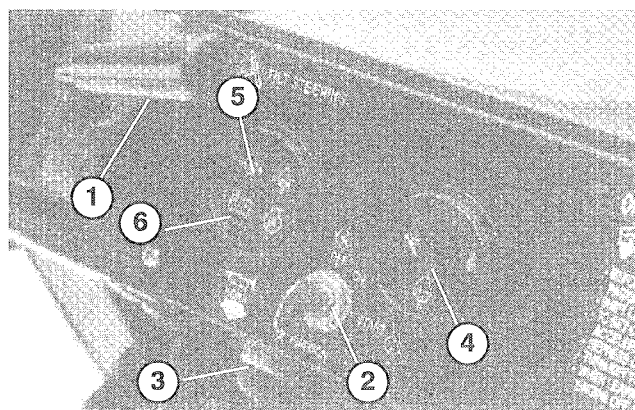


Figure 21

- |                        |                                  |
|------------------------|----------------------------------|
| 1. Tilt steering lever | 4. Coolant temp. gauge           |
| 2. Ignition switch     | 5. Engine low oil pressure light |
| 3. Horn button         | 6. Charge indicator              |

**Horn Button** (Fig. 21) – Pressing button activates horn.

**Coolant Temperature Gauge** (Fig. 21) – Registers coolant temperature in engine. Operates only when ignition switch is in On position.

**Engine Low Oil Pressure Light** (Fig. 21) – Light glows if engine oil pressure drops below a safe level while engine is running. If light flickers or remains ON, stop vehicle, turn off engine and check oil level. If oil level was low, but adding oil does not cause light to go out when engine is restarted, turn engine off immediately and contact your local TORO distributor for assistance.

**IMPORTANT:** Do not operate vehicle until repair is complete. Failure to observe this precaution may result in damage to the engine.

**Ignition Switch** (Fig. 21) – The ignition switch, used to start and stop the engine, has three positions: OFF, RUN and START. Rotate key clockwise — START position — to engage starter motor. Release key when engine starts. The key will move automatically to the ON position. To shut engine off, rotate key counterclockwise to OFF position.

**Charge Indicator** (Fig. 21) – Illuminates when battery is being discharged. If light illuminates during operation, stop vehicle, turn Off engine and check for possible causes, such as alternator belt.

**IMPORTANT:** If alternator belt is loose or broken, do not operate vehicle until adjustment or repair is complete. Failure to observe this precaution may result in damage to the engine.

**To check operation of warning lights:**

1. Apply parking brake.

# CONTROLS


2. Turn ignition key to "ON", but do not start engine. The charge indicator and oil pressure lights should glow. If any light does not function, either a bulb is burned out or there is a malfunction in the system which must be repaired.

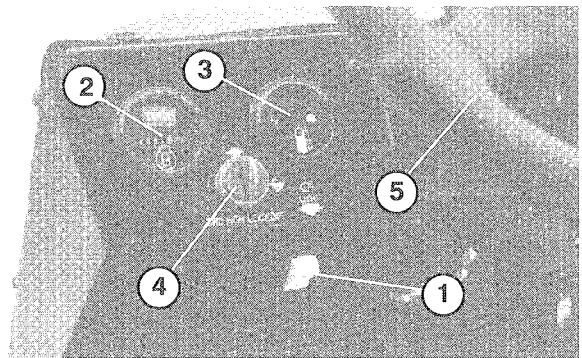
**Note:** Two functions of warning light cluster are not used: glow plug and high water temperature.

**Hour Meter** (Fig. 22) – Indicates the total hours of machine operation. The hour meter starts to function whenever the key switch is rotated to "ON" position.

**Light Switch** (Fig.22) – Toggle switch to activate headlights. Push to turn lights "ON".

**Fuel Gauge** (Fig.22) – Shows amount of fuel in tank. Operates only when ignition switch is in "ON" position.

**3rd High Lockout Switch** (Fig.22) – Moving switch to slow—  — position and removing key will prevent use of third gear when in the High range. Engine will shut off if shift lever is moved to third gear when in High range. Key is installed with teeth pointing downward. Push key in to turn. Key is removable in either position.



**Figure 22**

- |                 |                            |
|-----------------|----------------------------|
| 1. Light switch | 4. 3rd High lockout switch |
| 2. Hour meter   | 5. Steering wheel          |
| 3. Fuel gauge   |                            |

**Steering Wheel** (Fig. 22) – Turns vehicle. If engine stalls or power assist fails due to a malfunction, vehicle steering will require greater effort.

**Tachometer** (optional—not shown) – Indicates engine RPM. Gear selection graphics indicates speed.

**Remote Hydraulic Lever** (optional—not shown) – Controls hydraulic flow to optional quick rear couplers.



# OPERATING INSTRUCTIONS

## PRE—STARTING CHECKS

Safe operation begins before taking the vehicle out for a day's work. You should check these items each time:

1. Check tire pressure.

**Note:** These tires are different than car tires, they require less pressure to minimize turf compaction and damage.

2. Check all fluid levels and add the appropriate amount of Toro specified fluids, if any are found to be low.
3. Check brake pedal operation.
4. Check to see that the lights and horn are working.
5. Turn steering wheel to the left and right to check steering response.
6. Check for oil leaks, loose parts and any other noticeable malfunctions. Make sure engine is off and all moving parts have stopped before checking for oil leaks, loose parts and other malfunctions.

If any of the above items are not correct, notify your mechanic or check with your supervisor before taking the vehicle out for the day. Your supervisor may want you to check other items on a daily basis, so ask what your responsibilities are.

## STARTING ENGINE

1. Sit on operator's seat and engage parking brake.
2. Disengage PTO (if so equipped) and return hand throttle lever to OFF position (if so equipped).
3. Move shift lever to NEUTRAL position and depress clutch pedal.
4. Keep foot off accelerator pedal.

**A. In extremely cold weather (below 0° F)** — fully depress and release the accelerator pedal several times before trying to start engine.

**B. If engine is hot** — depress and hold the accelerator pedal about half way down while cranking engine.

**C. If engine is flooded** — fully depress accelerator pedal and hold it to the floor until the engine starts. Never pump the accelerator pedal.

5. Insert key into ignition switch and rotate it clockwise to start the engine. Release key when engine starts.

**IMPORTANT: To prevent overheating of the starter motor, do not engage starter longer than 15 seconds. After 15 seconds of continuous cranking, wait 60 seconds before engaging starter motor again.**

## DRIVING VEHICLE

1. Release parking brake.
2. Fully depress clutch pedal.
3. Move gear shift lever to 1st gear.
4. Release clutch pedal smoothly while depressing accelerator pedal.
5. When vehicle gains enough speed, remove foot from accelerator pedal, fully depress clutch pedal, move gear shift lever to next gear and release clutch pedal while depressing accelerator pedal. Repeat procedure until desired speed is attained. Stop vehicle before shifting to reverse and forward.

**Note:** Avoid long periods of engine idling.

**Note:** Leaving ignition switch in "ON" position for long periods of time without running engine will discharge battery.

**IMPORTANT: Do not hold front wheels turned against the right or left stops for longer than 5 seconds. The hydraulic pump may over heat, resulting in pump or steering gear damage.**

6. Do not attempt to push or tow vehicle to get it started. Damage to drive train could result.

## STOPPING VEHICLE

1. To stop machine, remove foot from accelerator pedal, depress clutch pedal, then depress brake pedal.

## STOPPING ENGINE

1. To stop engine, rotate ignition key to OFF and engage parking brake. Remove key from switch to prevent accidental starting.

## NEW VEHICLE BREAK—IN

Your Workman 4200® is ready for work. To provide proper performance and long vehicle life, follow these guidelines for the first 100 operating hours.

- Check the fluid and engine oil levels regularly and be alert for indications of overheating in any component of the vehicle.
- After starting a cold engine, let it warm up for about 15 seconds before shifting into gear.
- Avoid racing the engine.
- Avoid situations requiring hard stops, especially when hauling heavy loads or pulling a trailer. It is necessary to fully break—in a new set of brake linings to achieve full braking performance. Follow this guideline whenever new linings are installed.
- Vary vehicle speeds during operation. Avoid excessive idling. Avoid fast starts and quick stops.
- A break—in oil for engine is not required. Original engine oil is the same type specified for regular oil changes.
- Refer to Maintenance section of Operator's Manual for any special low hour checks.

# OPERATING INSTRUCTIONS

## CHECK INTERLOCK SYSTEM

The purpose of the interlock system is to prevent the engine from cranking or starting unless the clutch pedal is depressed.



### CAUTION

**The interlock switches are for the operator's protection, so do not bypass them. Check operation of the switches daily to assure interlock system is operating. If a switch is malfunctioning replace it before operating. Regardless whether switches are operating properly or not, replace them every two years to assure maximum safety. Do not rely entirely on safety switches – use common sense!**

### To verify clutch interlock switch operation:

1. Sit on operator's seat and engage parking brake. Move shift lever to NEUTRAL position.
2. Without depressing clutch pedal, rotate key clockwise to start position.
3. If engine cranks or starts, there is a malfunction in the interlock system that must be repaired before operating vehicle.

**Refer to Attachment Operator's Manual for procedure on checking attachment interlock system.**

## OPERATING CHARACTERISTICS

The vehicle is designed with safety in mind. It has four wheels for added stability. It uses familiar automotive style controls, including the steering wheel, brake pedal, clutch pedal, accelerator pedal, and gear shifter. It is important to remember, however, that this vehicle is not a passenger car. It is a work vehicle and not designed for use on roadways.

The vehicle has special tires, low gear ratios, a locking differential, and other features that give it extra traction. These features add to the versatility of the vehicle but, they can also get you into dangerous situations. You must keep in mind that the vehicle is not a recreation vehicle. It is not an all terrain vehicle. And, it is definitely not meant for "stunt driving" or "horsing around". It is a work vehicle, not a play vehicle. Children should not be allowed to operate the vehicle. Anyone who operates the vehicle should have a motor vehicle license.

If you are not experienced at driving the vehicle, practice driving it in a safe area away from other people. Be sure you are familiar with all the vehicle's controls, particularly those used for braking, steering and transmission shifting. Learn how your vehicle handles on different surfaces. Your operating skills will improve with experience, but as in operating any vehicle, take it easy as you begin. Be sure you know how to stop quickly in an emergency. If you need help, ask your supervisor for assistance.

Many factors contribute to accidents. You have control over several of the most important. Your actions, such as driving too fast for conditions, braking too fast, turning too sharp, and combinations of these, are frequent cause of accidents.

One of the major causes of accidents is fatigue. Be sure to take occasional breaks. It is very important that you stay alert at all times.

Never operate the vehicle, or any equipment, if you are under the influence of alcohol or other drugs. Even prescription drugs and cold medicines can cause drowsiness. Read the label on the medicine or check with your doctor or pharmacist if you are unsure about a certain medication.

One of the most important rules to follow is to go slower in unfamiliar areas. It is surprising how much damage and injury common things can cause. Tree branches, fences, wires, other vehicles, tree stumps, ditches, sand traps, streams, and other things found in most parks and golf courses can be hazardous to the operator and passenger.

Avoid driving when it is dark, especially in unfamiliar areas. If you must drive when it is dark, be sure to drive cautiously, use the head lights, and even consider adding additional lights.

## PASSENGERS

Whenever you have a passenger riding in the vehicle make sure he or she is holding on securely. Drive slower and turn less sharply because your passenger does not know what you are going to do next and may not be prepared for turning, stopping, accelerating, and bumps.

You and your passenger should remain seated at all times, keeping arms and legs inside the vehicle. The operator should keep both hands on steering wheel, whenever possible and passenger should use hand holds provided.


There should never be passengers in the dump box or on any attachments. The vehicle is meant to have one driver and only one passenger – no more.

# OPERATING INSTRUCTIONS

## SPEED

Speed is one of the most important variables leading to accidents. Driving too fast for the conditions can cause you to lose control and have an accident. Speed can also make a minor accident worse. Driving head-on into a tree at slow speed can cause injury and damage, but, driving into a tree at high speed can destroy the vehicle and kill you and your passenger.

Never drive too fast for the conditions. If there is any doubt about how fast to drive, slow down.

When using heavy attachments (more than 1000 pounds), such as sprayers, topdressers, or spreaders, etc., operating speeds should be restricted by moving 3rd high lockout switch to slow –  – position.

## TURNING

Turning is another important variable leading to accidents. Turning too sharply for the conditions can cause the vehicle to lose traction and skid, or even tip over.

Wet, sandy and slippery surfaces make turning more difficult and risky. The faster you are going, the worse this situation becomes so, slow down before turning.

During a sharp turn at higher speeds, the inside rear wheel may lift off of the ground. This is not a flaw in the design, it happens with most four wheel vehicles including passenger cars. If this happens, you are turning too sharply for the speed at which you are traveling. Slow down!

## BRAKING

It is good practice to slow down before you get near an obstacle. This gives you extra time to stop or turn away. Hitting an obstacle can damage the vehicle and its contents. More important, it can injure you and your passenger.

Gross vehicle weight has a major impact on your ability to stop and/or turn. Heavier loads and heavier attachments make a vehicle harder to stop or turn. The heavier the load, the longer it takes to stop.

The braking characteristics also change with no bed or attachment on the vehicle. Fast stops may cause the rear wheels to lock up before the front wheels lock up, which may affect the control of the vehicle. It is a good idea to decrease vehicle speed with no bed or attachment.

Turf and pavement are much slipperier when they are wet. It can take 2 to 4 times as long to stop on wet surfaces as on dry surfaces.

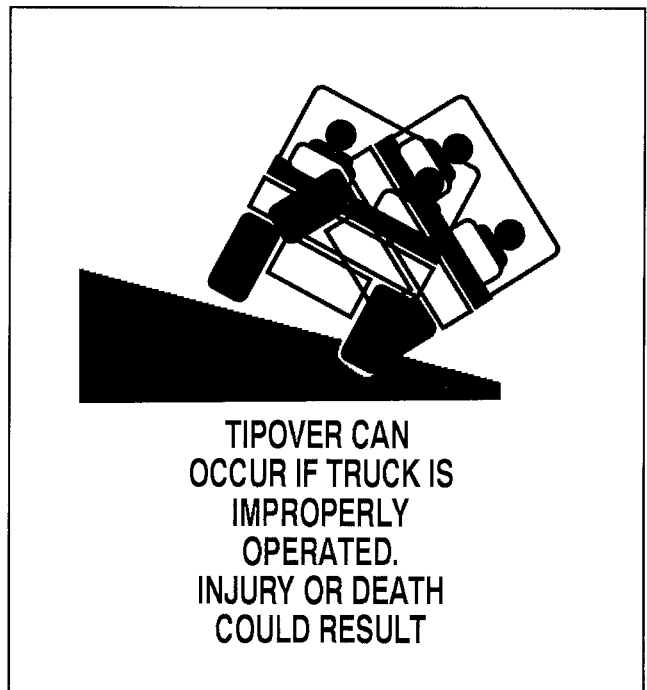
If you drive through standing water deep enough to get the brakes wet, they will not work well until they are dry.

After driving through water, you should test the brakes to make sure they work properly. If they do not, drive slowly in first gear while putting light pressure on the brake pedal. This will dry the brakes out.

Do not downshift for braking on icy or slippery surfaces (wet grass) or while going down a hill because engine braking may cause skidding and loss of control. Shift to a lower gear before starting down a hill.

## TIPOVERS

The TORO WORKMAN® is equipped with a roll bar, hip restraints, shoulder restraints and hand hold. The ROPS system used on the vehicle will reduce the risk of serious or fatal injury in the unlikely event of a tipover, although the system cannot protect the operator from all possible injuries.



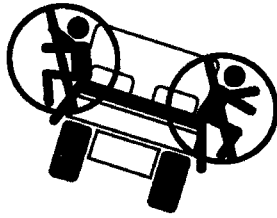
Replace a damaged ROPS, do not repair or revise. Any alteration of ROPS must be approved by manufacturer.

The best way to prevent accidents involving utility vehicles is through continuous supervision and training of operators and paying constant attention to the area in which vehicle is being operated.

The best way for operators to prevent serious injury or death to themselves or others, is to familiarize themselves with the proper operation of the utility vehicle, to stay alert and to avoid actions or conditions which could result in an accident. In the event of a tip over, the risk of serious injury or death will be reduced if the operator is using the ROPS system and follows the instructions provided.

# OPERATING INSTRUCTIONS

IN CASE OF  
TIPOVER



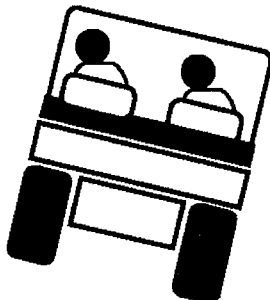
DON'T JUMP



OPERATOR HOLD  
TIGHT AND BRACE  
FEET



PASSENGER HOLD  
HIP RESTRAINT AND  
HAND HOLD, BRACE  
FEET



LEAN AWAY

## HILLS



### WARNING

Tipping or rolling the vehicle on a hill will cause serious personal injury.

- If engine stalls or you lose headway on a hill, never attempt to turn vehicle around.
- Always back straight down a hill in reverse gear.
- Never back down in neutral or with the clutch depressed, using only the brakes.
- Never drive across a steep hill, always drive straight up or down.
- Avoid turning on a hill
- Don't "drop the clutch" or slam on the brakes. Sudden speed change can initiate tipover.

Use extra care when on hills. Never go on hills that are extremely steep. Stopping while going down a hill will take longer than on level ground. Turning while going up or down a hill is more dangerous than turning on the level. Turns while going down hill, especially with the brakes on, and, turning up hill while traversing a hill are particularly dangerous. Even at a slow speed and without a load, tip overs are more likely if you turn on a hill.

Slow down and shift into a lower gear before starting up or down a hill. If you have to turn while on a hill, do it as slowly and cautiously as possible. Never make sharp or fast turns on a hill.

If you stall or begin to lose headway while climbing a steep hill, quickly apply the brakes, shift to neutral, restart the engine and shift to reverse. At idle speed, engine and transaxle drag will aid the brakes in controlling the vehicle on the hill and help you back down the hill more safely.

Reduce the weight of the load if it is a steep hill or if the load has high center of gravity. Remember, loads can shift. Secure them.

**Note:** The Workman 4200® has excellent hill climbing ability. The differential lock will increase this ability. Hill climbing traction can also be increased by adding weight to the rear of the vehicle in one of the following ways:

- Adding weight to inside of box, making sure it is secured.
- Mounting wheel weights to rear wheels.
- Adding liquid ballast (calcium chloride) to rear tires.
- Traction will increase with no passenger in front seat.

# OPERATING INSTRUCTIONS

## LOADING AND DUMPING

The weight and position of the cargo and passenger can change the vehicle center of gravity and vehicle handling. To avoid loss of control resulting in personal injury, follow these guidelines.

Do not carry loads which exceed the load limits described on the vehicle weight label.



### WARNING

**The bed will lower whenever the dump lever is pushed down, even when the engine is off. Turning off the engine will NOT prevent the box from lowering. Always place the safety support on extended lift cylinder to hold box up if you are not going to lower it right away.**



### WARNING

**When lowering the box it is possible for you or others to get their hands or other body parts in the wrong spot and have them crushed. Take extra care that no one will get hurt. Also, do not dump on anyone's feet. It may seem funny but, it can be dangerous.**

The vehicle has several combinations of boxes, platforms, and attachments available. These can be used in various combinations that allow for maximum capacity and versatility. The full sized box is 55 inches wide by 65 inches long and can hold up to 2000 pounds of evenly distributed cargo.

Loads vary in how they are distributed. Sand spreads out evenly and quite low. Other items, such as bricks, fertilizer or landscape timbers, stack higher in the box.

The height and weight of the load has a significant influence on tip overs. The higher a load is stacked, the more likely the vehicle is to tip over. You may find that 2000 pounds stacks too high for safe operation. Reducing the total weight is one way to reduce the risk of a tip over. Distributing the load as low as possible is another way to reduce the risk of a tip over.

If the load is positioned toward one of the sides, it will make the vehicle much more likely to tip over on that side. This is especially true when turning if the load is on the outside of the turn.

Never position heavy loads behind the rear axle. If the load is positioned so far to the rear that it is behind the rear axle, it will reduce the weight on the front wheels and this will reduce steering traction. With the load all the way to the back, the front wheels can even come off of the ground when going over bumps or up a hill. This will result in a loss of steering and may lead to the vehicle tipping over.

**As a general rule, position the weight of the load evenly from front to rear and evenly from side to side.**

If a load is not secured, or you are transporting a liquid in a large container such as a sprayer, it can shift. This shifting happens most often while turning, going up or down hills, suddenly changing speeds or while driving over rough surfaces. Shifting loads can lead to tip overs. Always secure loads so that they do not shift. Never dump the load while the vehicle is sideways on the hill.

Heavy loads increase stopping distance and reduce your ability to turn quickly without tipping over.

The rear cargo space is intended for load carrying purposes only, not for passengers.



### CAUTION

**When raising or lowering bed or implement, hydraulic oil will bypass over a relief valve when cylinders reach the end of their travel, stopping power assist to steering gear and increasing steering effort. Release lift levers to NEUTRAL after bed or implement is raised or lowered, to regain assist to power steering.**

## USING THE DIFFERENTIAL LOCK

The differential lock increases the vehicle's traction by locking the rear wheels so one wheel will not spin out. This can help when you have heavy loads to haul on wet turf or slippery areas, going up hills and on sandy surfaces. It is important to remember however, that this extra traction is only for temporary limited use. Its use does not replace the safe operation, already discussed concerning steep hills and heavy loads.

The differential lock causes the rear wheels to spin at the same speed. When using differential lock your ability to make sharp turns is somewhat restricted and may scuff the turf. Use the differential lock only when needed, at slower speeds and only in first or second gear.

# OPERATING INSTRUCTIONS



## WARNING

Tipping or rolling the vehicle on a hill will cause serious injury.

- The extra traction available with the differential lock can be enough to get you into dangerous situations such as climbing slopes that are too steep to turn around. Be extra careful when operating with the differential lock on, especially on steeper slopes.
- If the differential lock is on when making a sharp turn at a higher speed and inside rear wheel lifts off the ground, there may be a loss of control which could cause vehicle to skid (Refer to section on Differential Lock Operation). Use the differential lock only at slower speeds.

## FOUR WHEEL DRIVE

The “Automatic on Demand” four wheel drive feature, on this vehicle does not require operator activation. The front wheel drive is not engaged (no power delivered to front wheels) until the rear wheels begin to lose traction. The bi-directional clutch senses the rear wheels slipping, engages the front wheel drive and delivers power to the front wheels. The four wheel drive system continues to deliver power to the front wheels until the rear wheels have enough traction to move the vehicle without slipping. Once this occurs, the system stops delivering power to the front wheels and the handling characteristics become similar to that of a two wheel drive vehicle. The four wheel drive system functions in both forward and reverse, however, when turning the rear wheels will slip slightly more before power is delivered to the front wheels.



## WARNING

Tipping or rolling the vehicle on a hill will cause serious injury.

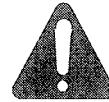
- The extra traction available with the four wheel drive feature can be enough to get you into dangerous situations such as climbing slopes that are too steep to turn around. Be careful when operating, especially on steeper slopes.

## TRANSPORTING VEHICLE

For moving the vehicle long distances, a trailer should be used. Make sure the vehicle is secured to the trailer. Refer to Figures 23 and 24 for location of tie down points.

## TOWING VEHICLE

In case of emergency, the vehicle can be towed for a short distance. However, Toro does not recommend this as a standard procedure.



## WARNING

Towing at excessive speeds could cause vehicle to lose steering control. Never tow vehicle faster than 5 MPH.

Towing the vehicle is a two person job. Affix a tow line to holes in front frame member. Move shifter to Neutral and release parking brake. If machine must be moved a considerable distance, transport it on a truck or trailer.

**Note:** The power steering will not function, making it difficult (increase effort) to steer.

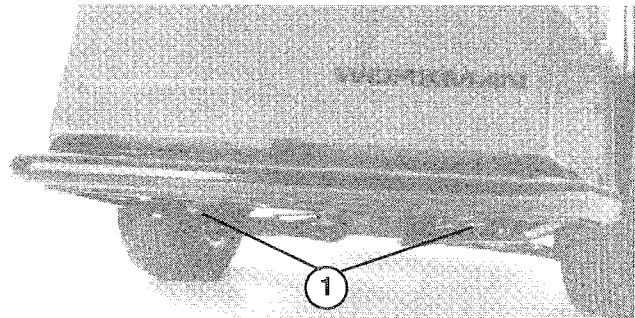


Figure 23

1. Eye holes in frame

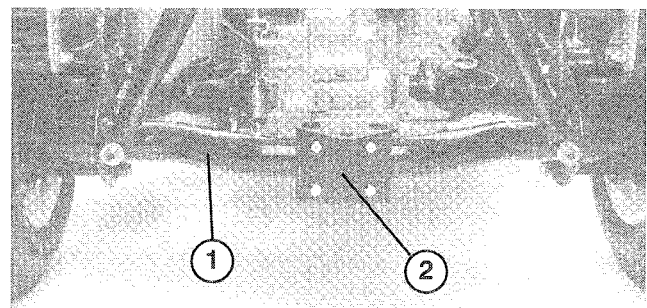


Figure 24

1. Axle tube  
2. Hitch plate

## TRAILER TOWING

The Workman® 4200 is capable of pulling trailers and attachments of greater weight than the vehicle itself.

Several types of tow hitches are available for the Workman, depending on your application. Contact your Authorized TORO Distributor for details.

# OPERATING INSTRUCTIONS

When equipped with a tow hitch bolted onto rear axle tube, your Workman can tow trailers or attachments with a Gross Trailer Weight (GTW) up to 1500 lbs. Always load a trailer with 60% of the cargo weight in the front of the trailer. This places approximately 10% (200 lbs. max.) of the Gross Trailer Weight (GTW) on the tow hitch of the vehicle.

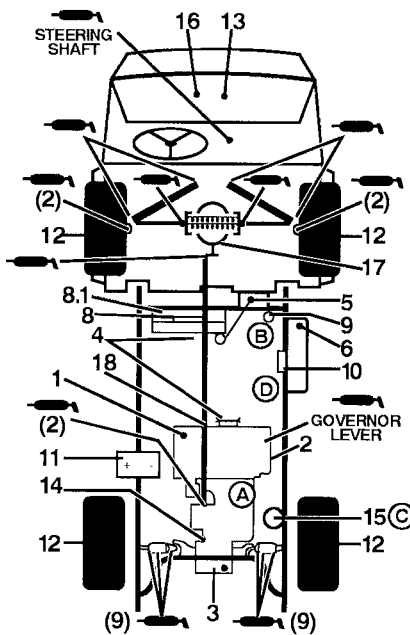
When towing either standard tongue or 5th wheel trailers having a Gross Trailer Weight (GTW) in excess of 1500 lbs., use either a chassis mounted draw bar hitch (rated for 3500 lb. GTW) or 5th wheel kit with brakes. Trailer brakes are required whenever a trailer over 1500 lbs. GTW is towed behind a Workman vehicle.

When hauling cargo or towing a trailer (attachment), do not overload your vehicle or trailer. Overloading can cause poor performance or damage to the brakes, axle, engine, transaxle, steering, suspension, body structure or tires.

**Important:** To reduce potential for drive line damage, use low range.

When towing 5th wheel attachments, like a fairway aerator, always install the "wheely bar" (included with the 5th wheel kit) to prevent the front wheels from lifting off the ground if the towed attachments movement is suddenly impaired.

## SERVICE INTERVAL CHART



**WORKMAN 4200 QUICK REFERENCE AID**

**CHECK/SERVICE**

1. ENGINE OIL LEVEL
2. ENGINE OIL DRAIN
3. TRANSAXLE/HYDRAULIC OIL LEVEL (DIP STICK)
4. BELTS (GOVERNOR, WATER PUMP, HYDRAULIC PUMP)
5. COOLANT LEVEL FILL
6. FUEL (UNLEADED FUEL ONLY)
7. GREASE POINTS (33) 100 HRS.
8. RADIATOR SCREEN
- 8.1. RADIATOR CLEANOUT DOOR
9. AIR CLEANER
10. FUEL FILTER
11. BATTERY
12. TIRE PRESSURE - MAXIMUM 20 PSI FRONT, 18 PSI REAR (24" TIRE)
13. FUSES (LIGHTS 10 AMP, IGNITION 7.5 AMP, DASH ACCESSORIES 7.5 AMP)
14. HYDRAULIC STRAINER
15. HYDRAULIC OIL FILTER
16. BRAKE FLUID
17. DIFFERENTIAL FILL/CHECK
18. 4WD SHAFT

**FLUID SPECIFICATIONS/CHANGE INTERVALS**

SEE OPERATOR'S MANUAL FOR INITIAL CHANGES	FLUID TYPE	CAPACITY		CHANGE INTERVALS		FILTER PART NO.
		L	QT	FLUID	FILTER	
ENGINE OIL	SAE 10W-30 CD	3.2	3.4	100 HRS.	100 HRS.	67-4330 (A)
TRANS./HYDRAULIC OIL	DEXRON II ATF	7.1	7.5	600 HRS.	600 HRS.	54-0110 (C)
AIR CLEANER	CLEAN EVERY 50 HOURS				200 HRS.	33-1300 (B)
FUEL/FUEL FILTER	UNLEADED	26.5	7 GAL.	---	600 HRS.	18-1520 (D)
COOLANT 50/50 ETHYLENE GLYCOL WATER		3.3	3.5	1200 HRS.	---	---
STRAINER				CLEAN 600 HRS.		87-3990
DIFFERENTIAL OIL	SAE 10W-30 CD	.95	1	600 HRS.	---	---

FOR HEAVY DUTY OPERATION, MAINTENANCE SHOULD BE PERFORMED TWICE AS FREQUENTLY.

## LUBRICATION



### WARNING

Before servicing or making adjustments to the machine, stop engine, set parking brake and remove key from ignition switch. Any load material must be removed from bed or other attachment before working under raised bed. Always rotate safety support to the down position before working under raised bed.

### GREASING BEARINGS AND BUSHINGS

(Fig. 25-30)

The vehicle has (30) grease fittings that must be lubricated regularly with No. 2 General Purpose Lithium Base Grease. If machine is operated under normal conditions, lubricate all bearings and bushings after every 100 hours of operation. More frequent lubrication is required if used for heavy duty vehicle operations.

The grease fitting locations and quantities are: Tie rod ends (4) (Fig. 25), Front ball joints (4) (Fig. 25), Rear drive shafts (18) (Fig. 26), Mid drive shaft (3) (Fig. 27) Steering shaft (1) (Fig. 28), Front pivot bushings (2) (Fig. 29) and Governor Lever (1) (Fig. 30).



# LUBRICATION

**IMPORTANT:** When greasing drive shaft universal shaft bearing crosses, pump grease until it comes out of all 4 cups at each cross.

1. Wipe grease fitting clean so foreign matter cannot be forced into the bearing or bushing.
2. Pump grease into the bearing or bushing.
3. Wipe off excess grease.

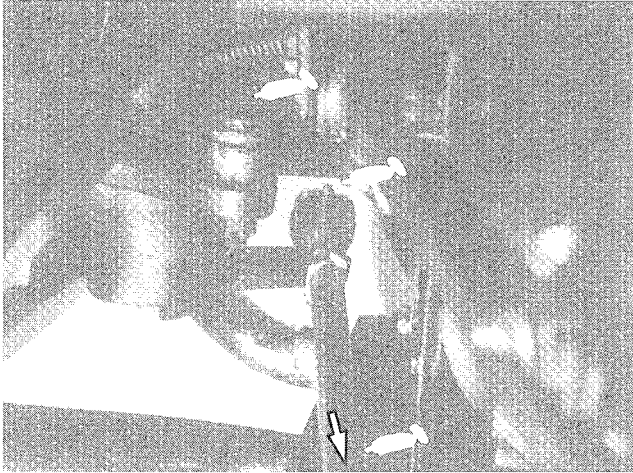


Figure 25

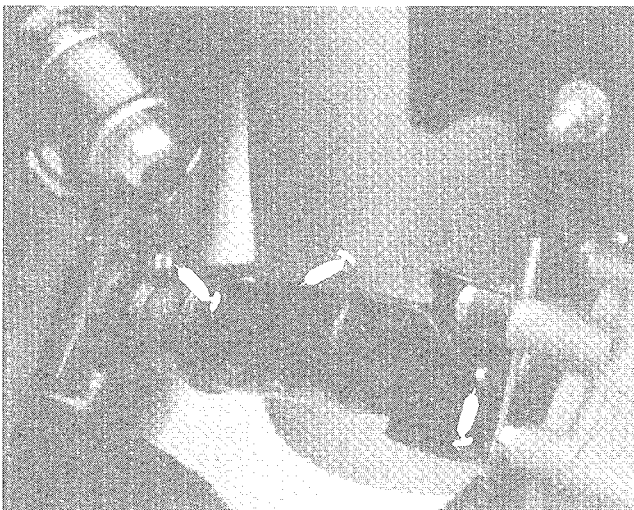


Figure 26

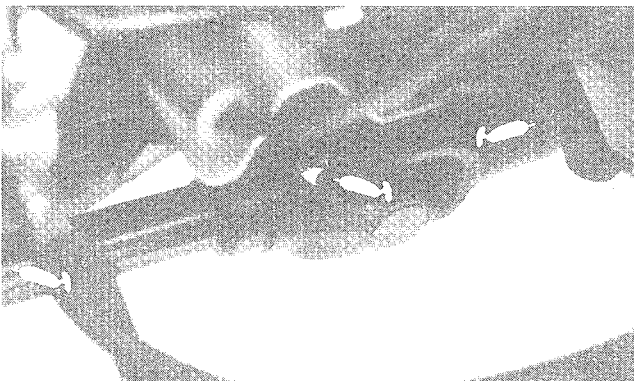


Figure 27

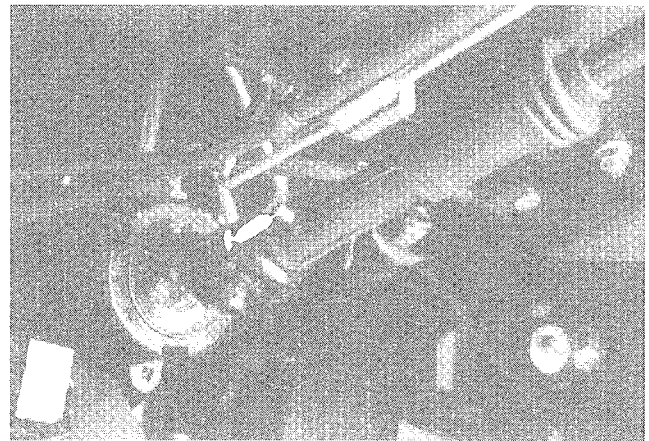


Figure 28



Figure 29

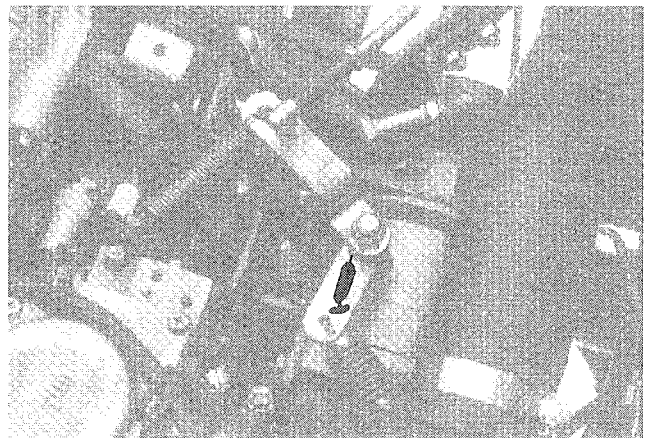


Figure 30



# MAINTENANCE

## IMPORTANT

### Heavy Duty Operation

If vehicle is subjected to conditions listed below, maintenance should be performed twice as frequently.

- Desert operation
- Cold climate operation (below 32°F)
- Trailer or 5th wheel towing
- Frequent operation on dusty roads
- Frequent operation under maximum vehicle gross weight
- Construction work
- After extended operation in mud, sand, water or similar dirty conditions, have your brakes inspected and cleaned and drive axle joints greased as soon as possible. This will prevent any abrasive material from causing excessive wear.
- Under frequent heavy duty operating conditions, lubricate all grease fittings and inspect air cleaner daily to prevent excessive wear.



## CAUTION

Only qualified and authorized personnel shall be permitted to maintain, repair, adjust or inspect the vehicle.

Avoid fire hazards and have fire protection equipment present in the work area. Do not use an open flame to check level or leakage of fuel, battery electrolyte or coolant. Do not use open pans of fuel or flammable cleaning fluids for cleaning parts.

Many of the subjects covered in this maintenance section require raising and lowering the bed. The following precautions must be taken or serious injury or death could result.



## WARNING

Before servicing or making adjustments to the machine, stop engine, set parking brake and remove key from ignition switch. Any load material must be removed from bed or other attachment before working under raised bed. Never work under a raised bed without positioning safety support on a fully installed cylinder rod.

After maintenance is completed, remove safety support, slide it onto storage stud and lower bed.

### USING BED SAFETY SUPPORT (Fig. 31 & 32)

1. Raise bed until lift cylinders are fully extended.
2. Remove bed support from storage stud on top of back rest support channel on Workman (Fig. 31).

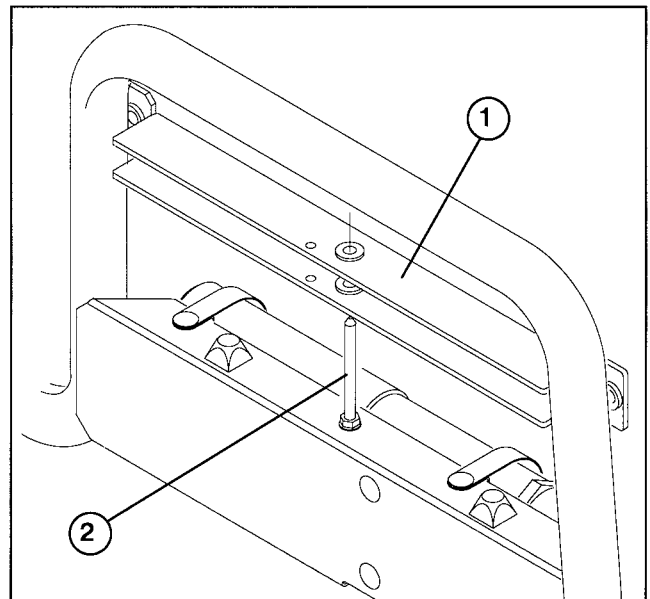


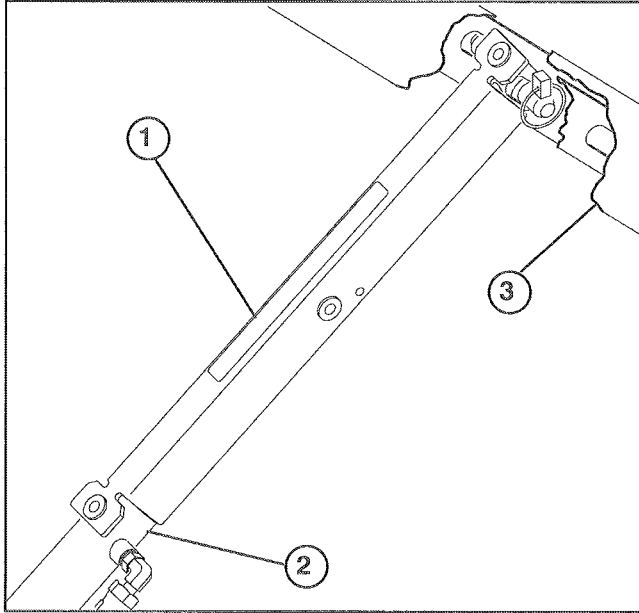
Figure 31

1. Bed support
2. Storage stud

3. Push bed support onto cylinder rod, making sure support end tabs rest on end of cylinder barrel and on cylinder rod end (Fig. 32).

# MAINTENANCE

4. To store bed support, remove bed support from cylinder and insert on stud on top of back rest support channel.
5. Always install or remove bed support from outside of bed.
6. Do not try to lower bed with bed safety support on cylinder.

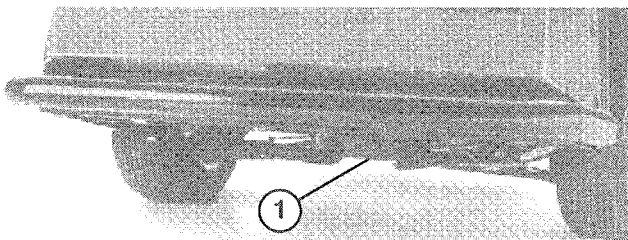


**Figure 32**

1. Bed support
2. Cylinder barrel
3. Bed

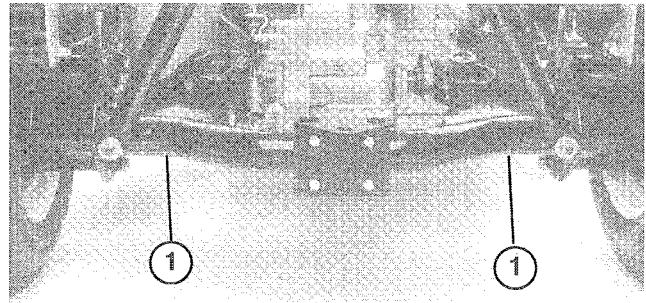
## JACKING VEHICLE (Fig. 33 & 34)

1. Do not start engine while vehicle is on jack, because engine vibration or wheel movement could cause vehicle to slip off jack.
2. Do not work under vehicle without jack stands supporting it. The vehicle could slip off jack, injuring any one beneath it.
3. The jacking point at the front of the vehicle is under the front center frame support and at the rear it is under the axle tube.
4. When jacking up front of vehicle, always place a 2x4 block (or similar material) between jack and vehicle frame.



**Figure 33**

1. Front jacking point



**Figure 34**

1. Rear jacking points

## GENERAL AIR CLEANER MAINTENANCE PRACTICES (Fig. 35)

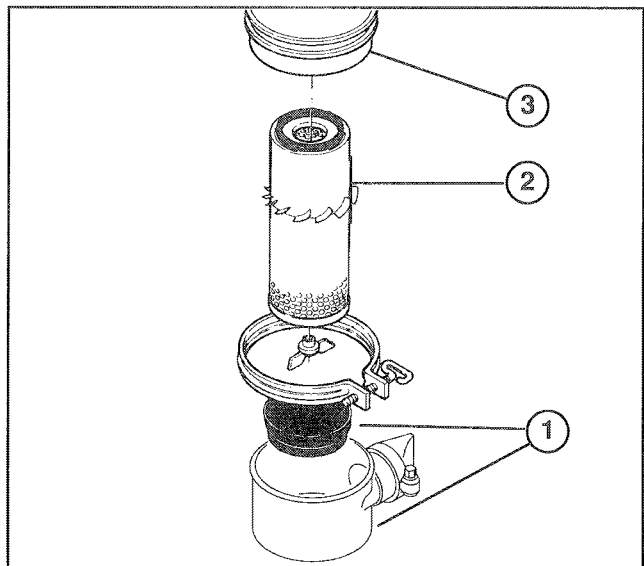
Inspect air cleaner and hoses periodically to maintain maximum engine protection and to ensure maximum service life.

1. Check air cleaner body for dents and other damage which could possibly cause an air leak. Replace a damaged air cleaner body.
2. Be sure dust cup is sealing around air cleaner body.

## SERVICING DUST CUP AND BAFFLE

Inspect the dust cup and rubber baffle once a week or every 50 hours operation. Daily or more frequent inspection is required when operating conditions are extremely dusty and dirty. Never allow dust to build up closer than one inch from the rubber baffle.

1. Loosen thumb screw until dust cup and baffle can be removed. Separate dust cup and baffle.
2. Dump dust out of the dust cup. After cleaning cup and baffle, assemble and reinstall both parts.



**Figure 35**

1. Dust Cup & Baffle
2. Filter Element
3. Air Cleaner Body

# MAINTENANCE

## SERVICING AIR CLEANER FILTER

Service the air cleaner filter every 400 hours or more frequently in extreme dusty or dirty conditions by washing or using compressed air. Replace the element after every four cleanings (1600 hours) or annually, whichever comes first.

1. Remove and service dust cup; refer to Servicing Dust Cup and Baffle.
2. Remove wing nut w/gasket and slide filter element out of air cleaner body.
3. Clean the element by washing it in a solution of filter cleaner (Toro Part No. 27-7220) and water, or blow dirt out of filter by using compressed air.

**Note:** Compressed air is recommended when element must be used immediately after servicing because a washed element must be dried before it is used. By comparison, washing the element cleans better than blowing dirt out with compressed air.

### Washing Method

**IMPORTANT: Do not remove plastic fin assembly because washing removes dust from beneath fins.**

- A. Prepare a solution of filter cleaner and water and soak filter element about 15 minutes. Refer to directions on filter cleaner carton for complete information.
- B. After soaking filter for 15 minutes, rinse it with clear water. Maximum water pressure must not exceed 40 psi to prevent damage to the filter element.
- C. Dry filter element using warm, flowing air (160°F max), or allow element to air-dry. Do not use compressed air or a light bulb to dry the filter element because damage could result.

### Compressed Air Method

**IMPORTANT: Do not remove plastic fin assembly because back-blowing with compressed air removes dust from beneath fins.**

- A. Blow compressed air from inside to the outside of dry filter element. Do not exceed 100 psi to prevent damage to the element. (Wear eye protection)
  - B. Keep air hose nozzle at least one inch from pleated paper, and move nozzle up and down while rotating the filter element. Inspect element when dust and dirt are removed; refer to Inspecting Filter Element.
4. Wipe inside of air cleaner body with a damp cloth to remove excess dust. Slide filter into air cleaner body and secure it in place with wing nut and gasket.
  5. Reinstall dust cup and baffle. Move thumb screw behind air cleaner body and tighten it securely.

## INSPECTING FILTER ELEMENT

1. Place bright light inside filter.

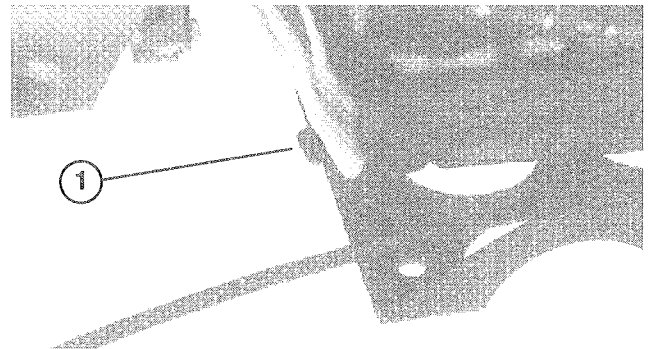
2. Rotate filter slowly while checking for cleanliness, ruptures, holes, and tears. Replace damaged filter element.
3. Check fin assembly, gasket, and screen for damage. Replace filter if damage is evident.

## CHANGING ENGINE OIL AND FILTER

(Fig. 36 & 37)

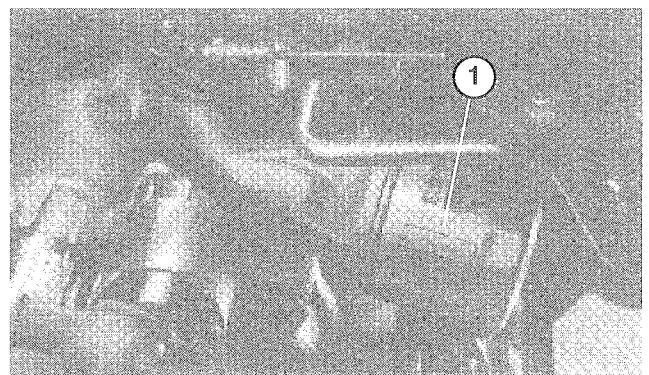
Change oil and filter initially after the first 50 hours of operation, thereafter, change oil and filter every 100 hours.

1. Raise bed (if so equipped) and place safety support on extended lift cylinder to hold up bed.
2. Remove drain plug and let oil flow into drain pan. When oil stops, install drain plug.



**Figure 36**  
1. Engine Oil Drain Plug

3. Remove oil filter. Apply a light coat of clean oil to the new filter seal before screwing it on. Screw filter on until gasket contacts mounting plate, then tighten 1/2 to 2/3 of a turn. **DO NOT OVER-TIGHTEN.**



**Figure 37**  
1. Engine Oil Filter

4. Add oil to crankcase, refer to Check Engine Oil.

## FUEL SYSTEM (Fig. 38)

### Fuel Lines and Connections

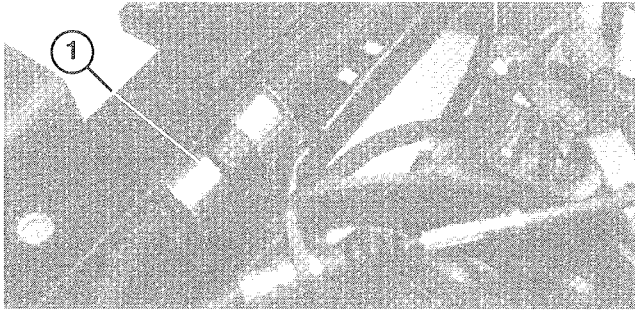
Check lines and connections every 600 hours or yearly, whichever comes first. Inspect for deterioration, damage, or loose connections.

# MAINTENANCE

## Fuel Filter

Replace filter canister after every 600 hours of operation.

1. Raise bed (if so equipped) and place safety support on extended lift cylinder to hold up bed.
2. Place a clean container under fuel filter.
3. Loosen R-clamp securing filter to frame.
4. Remove clamps securing fuel filter to fuel lines.



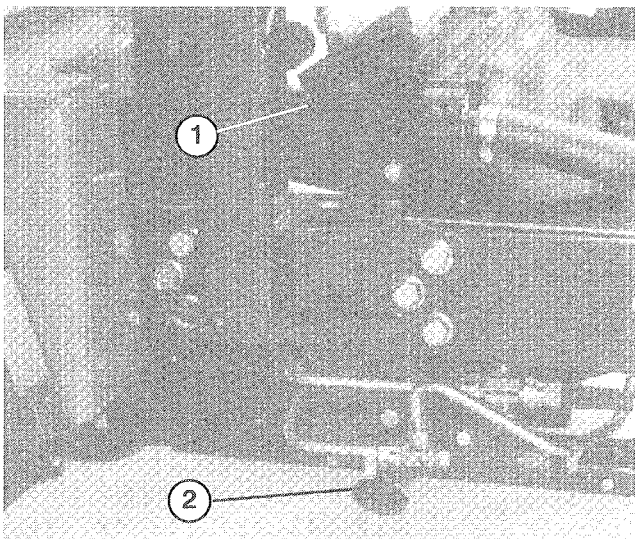
**Figure 38**  
1. Fuel Filter

5. Install new fuel filter to fuel lines with clamps previously removed. Filter to be mounted so arrow points toward carburetor.

## REMOVING DEBRIS FROM ENGINE COOLING SYSTEM (Fig. 39)

Remove debris from engine area and radiator daily, clean more frequently in dirty conditions.

1. Remove radiator cover.
2. Turn engine off. Clean engine area thoroughly of all debris.



**Figure 39**  
1. Radiator screen cover  
2. Clean out door

3. Remove screen cover from front of radiator.

4. Open radiator screen clean out door at lower left side of radiator and remove all debris from bottom of radiator inlet area.

5. Clean radiator thoroughly with water or compressed air.

## CHANGING ENGINE COOLANT (Fig. 40)

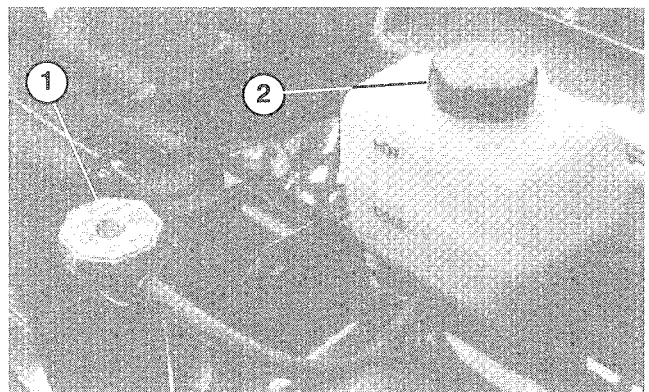
1. Park machine on a level surface.
2. Raise bed (if so equipped) and place safety support on extended lift cylinder to hold up bed.



## CAUTION

If engine has been running, pressurized hot coolant can escape if radiator cap is removed and cause burns. Allow engine to cool at least 15 minutes or until the radiator cap is cool enough to touch without burning hand.

3. Remove radiator and reserve tank caps.
4. Open coolant drain cock at bottom of radiator and allow coolant to flow into drain pan. When coolant stops, close drain cock.
5. Remove coolant drain plug from engine and allow coolant to flow into drain pan. When coolant stops, install drain plug.
6. Slowly fill radiator with a 50/50 mixture of water and permanent ethylene glycol anti-freeze. Install radiator cap.
7. Slowly fill reserve tank until level reaches COLD line. **DO NOT OVERFILL.** Install reserve tank cap.
8. Start engine and operate until warm. Recheck level and replenish, if required.



**Figure 40**  
1. Radiator cap  
2. Reserve tank cap

## ADJUSTING BELTS (Fig. 41–42)

Check condition and tension of all belts after first day of operation and every 200 operating hours thereafter. Raise bed (if so equipped) and position safety support on extended lift cylinder to hold up bed.

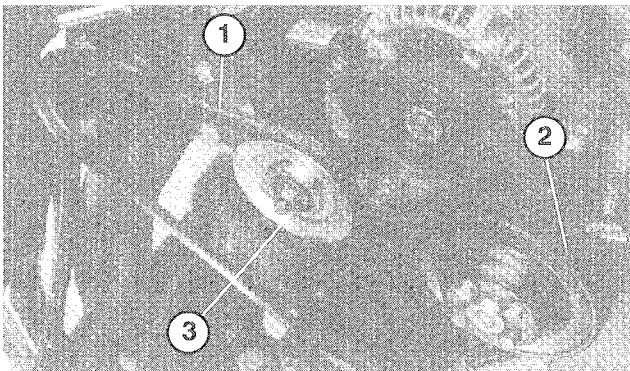
# MAINTENANCE

## Governor belt (Fig. 41)

1. Check tension by depressing belt at mid span of governor and crankshaft pulleys with 22 lbs. of force. A new belt should deflect .52–.62 in. A used belt should deflect .62–.72 in. If deflection is incorrect, proceed to next step. If correct, continue operation.

2. To adjust belt tension:

A. Loosen idler pulley mounting nut, move pulley to increase tension and tighten nut.



**Figure 41**

- 1. Governor belt
- 2. Alternator belt
- 3. Idler pulley

## Alternator belt (Fig. 41)

1. Check tension by depressing belt at mid span of crankshaft and alternator pulleys with 22 lbs. of force. A new belt should deflect .3–.5 in. A used belt should deflect .4–.55 in. If deflection is incorrect, proceed to next step. If correct, continue operation.

2. To adjust belt tension:

A. Loosen (2) alternator mounting bolts.

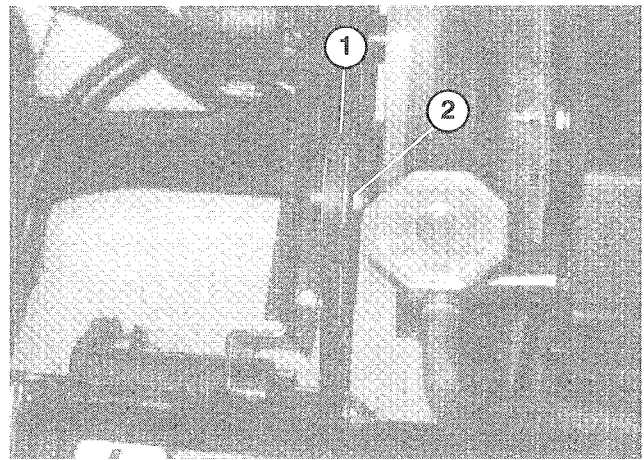
B. Using a bar, rotate alternator until proper belt tension is attained, then tighten mounting bolts.

## Fan belt (Fig. 42)

1. Check tension by depressing belt at mid span of fan and drive shaft pulleys with 22 lbs. of force. A new belt should deflect .48–.58 in. A used belt should deflect .55–.65 in. If deflection is incorrect, proceed to next step. If correct, continue operation.

2. To adjust belt tension:

A. Loosen idler pulley mounting nut, move pulley to increase tension and tighten nut.



**Figure 42**

- 1. Fan belt
- 2. Idler pulley

## CHECKING OIL LEVEL IN GOVERNOR

(Fig. 43)

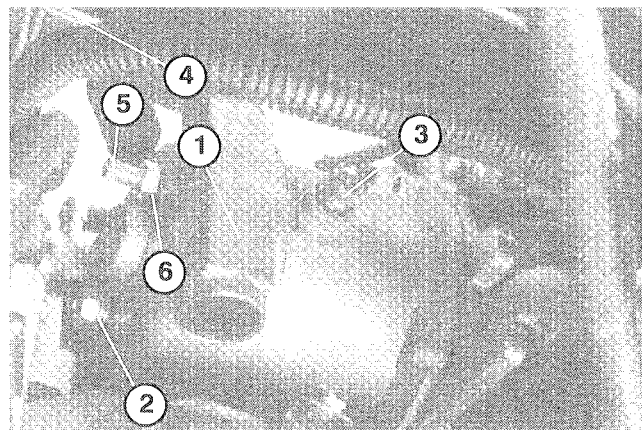
Check oil level in governor after every 600 hours of operation.

1. Position vehicle on level surface, stop engine and engage the parking brake.

2. Raise box (if so equipped) and place safety support on extended lift cylinder to hold up box.

3. Clean area around check plug on governor.

4. Remove check plug from governor. Oil level must be up to bottom of hole. If oil level is low, remove oil fill plug and add same oil that is being used in engine. When oil is at point of overflowing out of check plug hole, install the check plug and fill plug.



**Figure 43**

- 1. Governor
- 2. Check plug
- 3. Fill plug (On top)
- 4. Governor output lever
- 5. Surge screw
- 6. Locknut

## ADJUSTING ENGINE GOVERNOR / ACCELERATOR PEDAL (Fig. 43–45)

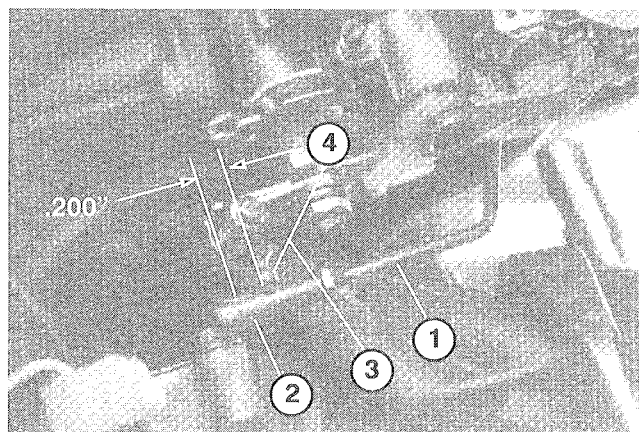
1. Position vehicle on level surface, stop engine and engage the parking brake.



# MAINTENANCE

2. Rotate governor input lever clockwise to put a light tension load on the governor spring. Hold carburetor throttle against wide open throttle stop and adjust the ball joint on throttle rod to allow the ball joint socket to travel past the carburetor throttle stud by .200"  $\pm$  .031" (Fig. 44). Tighten locknuts on throttle rod. Ball joints must move freely through full travel.

**Note:** Governor input lever must not contact high idle screw during this setting. If it does, tighten high idle screw until no contact is made.



**Figure 44**

- |                 |                             |
|-----------------|-----------------------------|
| 1. Throttle rod | 3. Carburetor throttle      |
| 2. Ball joint   | 4. Carburetor throttle stud |



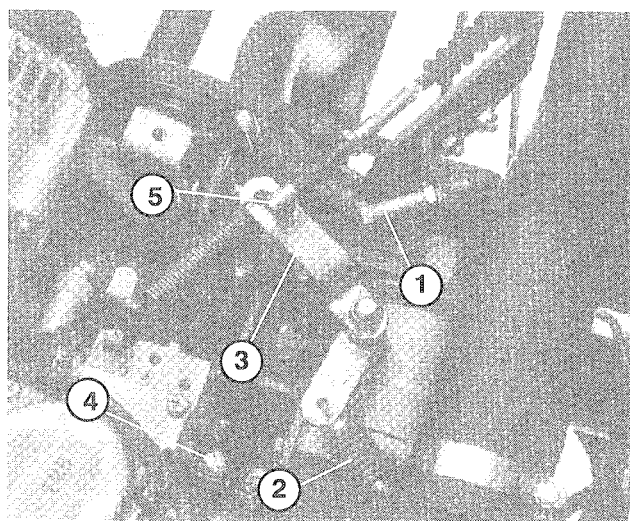
## WARNING

Engine must be running so final adjustment of the governor can be performed. To guard against possible personal injury, engage parking brake and keep hands, feet, face and other parts of the body away from fan or other moving parts.

3. Start engine and allow it to warm up to normal operating temperature. With throttle plate held fully closed, adjust low idle stop on carburetor to obtain 1200  $\pm$  100 rpm.

4. Advance governor input lever to increase engine speed to 3600  $\pm$  50 rpm. Adjust high idle screw to contact governor input lever.

5. While rotating governor input lever counterclockwise and holding the carburetor throttle against the low idle stop, adjust the surge screw to allow the ball joint socket to travel past the carburetor throttle stud by .200"  $\pm$  .031", in opposite direction shown in figure 44.



**Figure 45**

- |                         |
|-------------------------|
| 1. High idle screw      |
| 2. Governor spring      |
| 3. Governor input lever |
| 4. Low idle screw       |
| 5. Ball joint           |

6. Release and advance accelerator to determine if high idle speed is erratic (surges). If engine surges more than twice, turn surge screw clockwise until high idle speed increases 10 to 50 RPM. Release and advance accelerator to determine if engine is still surging. If engine is still surging, turn screw clockwise to increase high idle an additional 10 to 50 RPM. High idle should not exceed 3650 RPM and surge screw shall not increase high idle more than 100 RPM. Tighten surge screw locknut.

7. Verify low idle setting. If the low idle is greater than setting attained in step #4, the surge screw was turned in (clockwise) too far. Back out surge screw until the low idle setting returns to prior setting. Verify high idle setting as instructed in step #6

8. Stop engine.

9. Adjust ball joint on accelerator cable to allow .200" – .350" of clearance between accelerator pedal arm and top of diamond tread floor plate, when a 20 lb. force is applied to center of pedal. Tighten locknut.

**Note:** Engine must not be running and return spring must be attached.

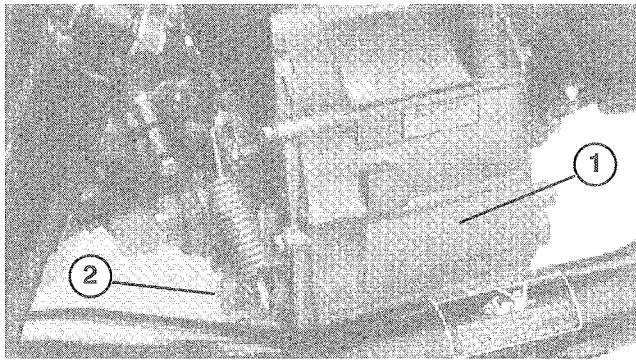
## CHANGING TRANSAXLE / HYDRAULIC FLUID (Fig. 46)

Change Transaxle hydraulic fluid, filter and clean strainer every 600 hours.

1. Position the vehicle on a level surface, stop engine, engage the parking brake and remove key from ignition switch.

2. Remove drain plug from side of reservoir and let hydraulic fluid flow into drain pan. Reinstall and tighten plug when hydraulic fluid stops draining.

# MAINTENANCE



**Figure 46**

1. Hydraulic Reservoir
2. Drain plug

3. Fill reservoir with approximately 7.5 qt. of Dexron II ATF. Refer to Checking Hydraulic Fluid.

4. Start engine and operate to fill hydraulic system. Recheck oil level and replenish, if required.

**IMPORTANT: Use only hydraulic fluids specified. Other fluids could cause system damage.**

## REPLACING HYDRAULIC FILTER (Fig. 47)

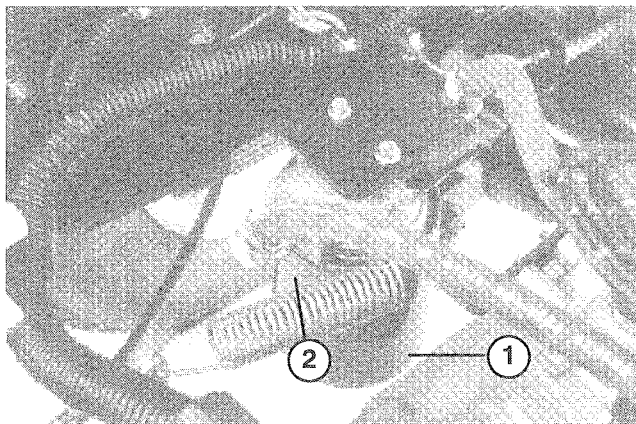
Use the Toro replacement filter (Part No. 54-0110).

**IMPORTANT: Use of any other filter may void the warranty on some components.**

1. Position vehicle on a level surface, stop engine, engage the parking brake and remove key from ignition switch.

2. Clean area around filter mounting area. Place drain pan under filter and remove filter.

3. Lubricate new filter gasket.



**Figure 47**

1. Hydraulic Filter
2. Gasket

4. Assure filter mounting area is clean. Screw filter on until gasket contacts mounting plate. Then tighten filter one-half turn.

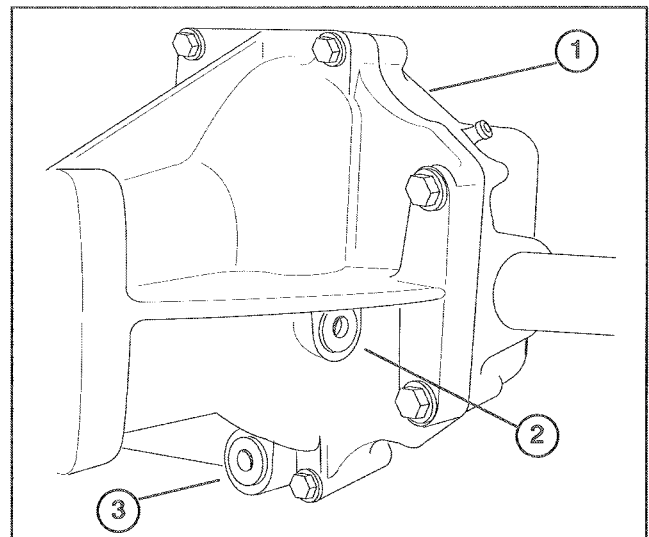
5. Start engine and let run for about two minutes to purge air from the system. Stop the engine and check the hydraulic oil level and for leaks.

## CHANGE FRONT DIFFERENTIAL OIL (Fig. 48)

Change front differential oil every 600 hours.

1. Position vehicle on a level surface, stop engine, engage parking brake and remove key from ignition switch.

2. Clean area around drain plug on side of differential. Place drain pan under drain plug.



**Figure 48**

1. Front differential
2. Fill/check plug
3. Drain plug

3. Remove drain plug and let oil flow into drain pan. Reinstall and tighten plug when oil stops draining.

4. Clean area around fill/check plug on side of differential.

5. Remove fill/check plug and add 10W30 oil until oil is up to hole.

6. Re-install fill/check plug.

## CLEANING HYDRAULIC STRAINER (Fig. 49)

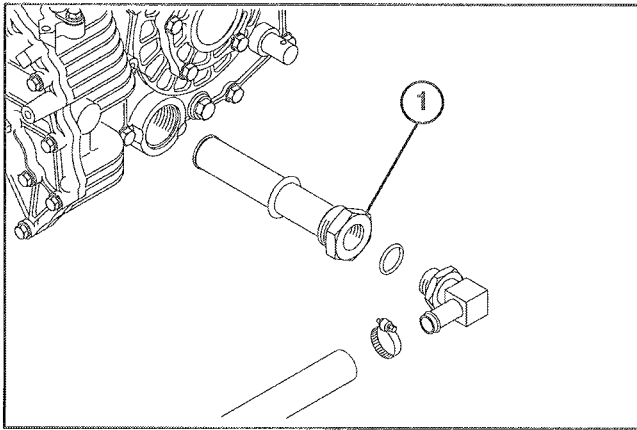
1. Position the vehicle on a level surface, stop engine, engage the parking brake and remove key from ignition switch.

2. Remove drain plug (Fig. 46) from side of reservoir and let hydraulic fluid flow into drain pan.

3. Note orientation of hydraulic hose and 90° fitting connected to strainer on side of reservoir. Remove hydraulic hose and 90° fitting.

4. Remove strainer and clean by back flushing with a clean degreaser. Allow to air dry before reinstalling.

# MAINTENANCE



**Figure 49**

1. Hydraulic strainer

5. Reinstall strainer.
6. Reinstall hydraulic hose and 90° fitting to strainer in same orientation.
7. Reinstall and tighten drain plug.
8. Fill reservoir with approximately 7.5 qt. of Dexron II ATF. Refer to Checking Hydraulic Fluid.

## REPLACING SPARK PLUGS (Fig. 50)

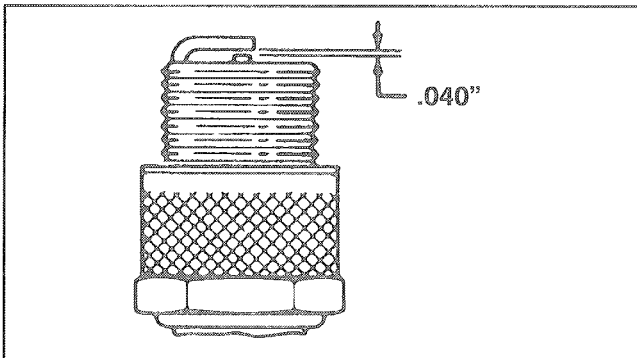
Replace spark plugs after every 600 operating hours to assure proper engine performance and reduce exhaust emission level.

Correct spark plug to use is a Champion RN 14YC or NGK BPR 4ES.

Recommended air gap is .040".

**Note:** The spark plug usually lasts a long time; however, the plug should be removed and checked whenever the engine malfunctions.

1. Clean area around spark plugs so foreign matter cannot fall into cylinder when spark plug is removed.
2. Pull spark plug wires off spark plugs and remove plugs from cylinder head.
3. Check condition of side electrode, center electrode, and center electrode insulator to assure there is no damage.



**Figure 50**

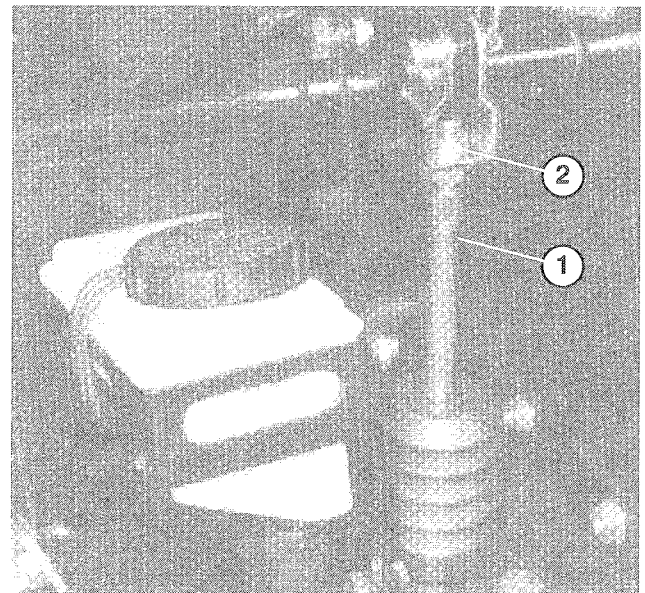
**IMPORTANT:** A cracked, fouled, dirty or otherwise malfunctioning spark plug must be replaced. Do not sand blast, scrape, or clean electrodes by using a wire brush because grit may eventually release from the plug and fall into the cylinder. The result is usually a damaged engine.

4. Set air gap between center and side of electrodes at .040". Install correctly gapped spark plug and tighten plug to 15–20 ft–lb. If torque wrench is not used, tighten plug firmly.
5. Install spark plug wires.

## ADJUSTING BRAKE PEDAL (Fig. 51–52)

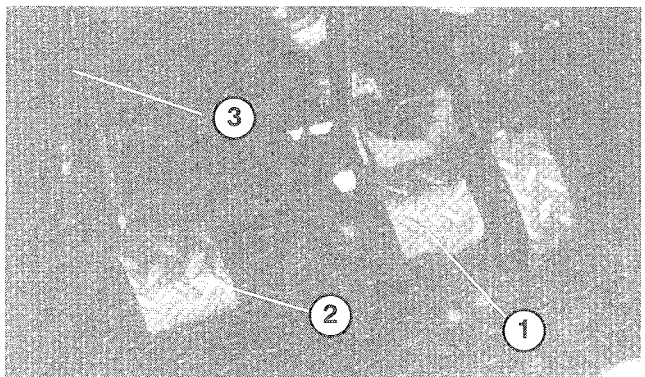
Check adjustment every 200 hours.

1. Loosen jam nut on master cylinder rod.
2. Rotate rod until gap between brake pedal and up stop is .020–.080".
3. Tighten jam nut after adjustment has been attained.



**Figure 51**

1. Master cylinder rod  
2. Jam nut



**Figure 52**

1. Brake pedal  
2. Clutch pedal  
3. Clutch pedal upstop



# MAINTENANCE

## ADJUSTING CLUTCH PEDAL (Fig. 53–54)

Check adjustment every 200 hours.

1. Loosen jam nuts securing clutch cable to bracket on bell housing.

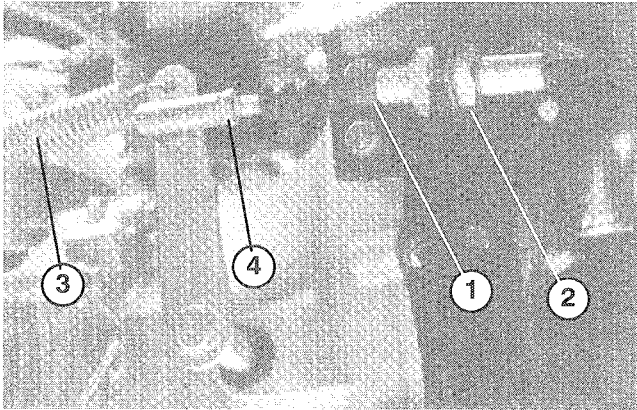
**Note:** Ball joint may be removed and rotated, if additional adjustment is required.

2. Disconnect return spring from clutch lever.
3. Adjust jam nuts/or ball joint until bottom rear edge of clutch pedal is  $3.75" \pm .12"$  from top of floor plate diamond pattern, when an 4 lb. force is applied to pedal.

**Note:** Force is applied so release bearing lightly contacts pressure plate fingers.

4. Reconnect return spring to clutch lever.
5. Verify that rear edge of clutch pedal is  $5.5" \pm .12"$  from top of floor plate diamond pattern. If dimension is not attained, adjust clutch pedal upstop.

**Note:** The clutch free play should never be less than .75".

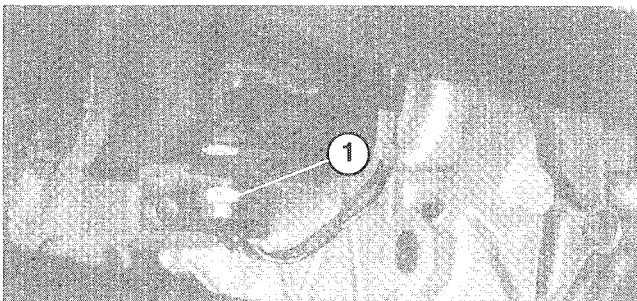


**Figure 53**

- |                 |                  |
|-----------------|------------------|
| 1. Clutch cable | 3. Return spring |
| 2. Jam nuts     | 4. Ball joint    |

6. Tighten jam nuts after adjustment has been attained.

7. Recheck clutch safety switch adjustment (Fig. 54). Engine must not crank unless clutch pedal is  $1.25" \pm .12"$  from floor. If an adjustment is required, loosen switch jam nuts and adjust up or down.



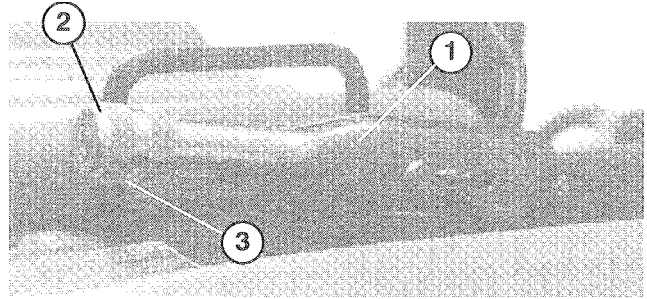
**Figure 54**

1. Clutch switch

## ADJUSTING PARKING BRAKE (Fig. 55)

Check adjustment every 200 hours.

1. Loosen set screw securing knob to parking brake lever.
2. Rotate knob until a force of 35–45 lbs. is required to actuate lever.
3. Tighten set screw after adjustment has been attained.



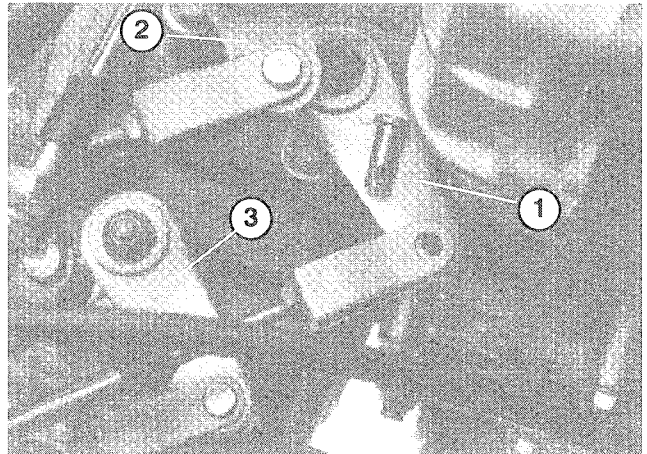
**Figure 55**

1. Parking brake lever
2. Knob
3. Set screw

## ADJUSTING SHIFT CABLES (Fig. 56)

Check adjustment every 200 hours.

1. Move shift lever to Neutral position.
2. Remove clevis pins securing shift cables to transaxle shift arms.



**Figure 56**

1. Shift arm (1st - Rev.)
2. Shift arm (2nd - 3rd)
3. Shift arm (High-low)

3. Loosen clevis jam nuts and adjust each clevis so cable free play is equal forward and backward relative to hole in transaxle shift arm (With transaxle lever free play taken up in same direction).

4. Reinstall clevis pins and tighten jam nuts after adjustments have been attained.

## ADJUSTING HIGH-LOW CABLE (Fig. 56)

Check adjustment every 200 hours.

1. Remove clevis pin securing High-Low cable to transaxle.

# MAINTENANCE

2. Loosen clevis jam nut and adjust clevis so clevis hole aligns with hole in transaxle bracket.
3. Reinstall clevis pin and tighten jam nut after adjustment has been attained.

## ADJUSTING DIFFERENTIAL LOCK CABLE (Fig. 57)

Check adjustment every 200 hours.

1. Move differential lock lever to Off position.
2. Loosen jam nuts securing differential lock cable to bracket on transaxle.

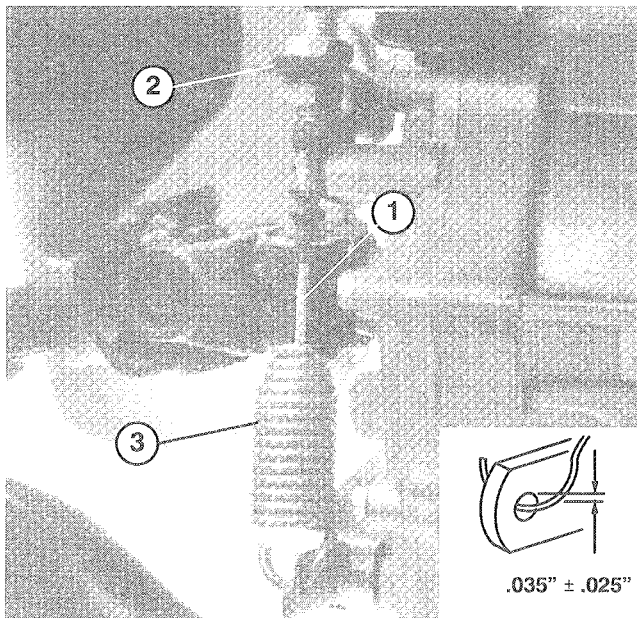


Figure 57

1. Differential lock cable
2. Transaxle bracket
3. Spring

3. Adjust jam nuts to obtain  $.035'' \pm .025''$  gap between spring hook and O.D. of hole in transaxle lever.

4. Tighten jam nuts after adjustment has been attained.

## INSPECT BRAKES

Visually inspect brakes for worn brake shoes after every 600 hours of operation.

## INSPECT TIRES

Check tire condition at least every 200 hours of operation. Operating accidents, such as hitting curbs, can damage a tire or rim and also disrupt wheel alignment, so inspect tire condition after an accident.

## FRONT WHEEL TOE-IN (Fig. 58–59)

After every 600 operating hours or annually, check front wheel toe-in.

1. Measure center-to-center distance (at axle height) at front and rear of steering tires. Front measurement must be equal to the rear measurement  $\pm 1/8$  in..

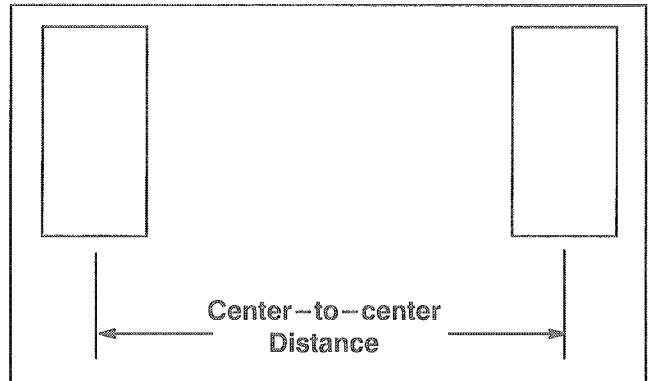


Figure 58

2. To adjust, loosen jam nuts at both ends of tie rod.

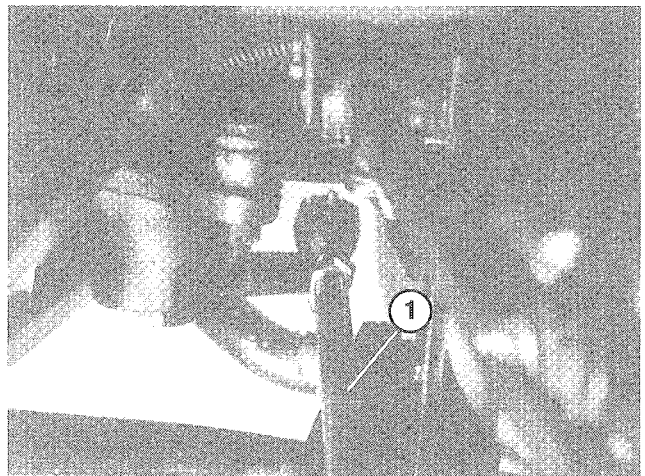


Figure 59

1. Tie rod

3. Rotate tie rod to move front of tire inward or outward.

4. Tighten tie rod jam nuts when adjustment is correct.

## INSPECT CONSTANT VELOCITY BOOT

After every 200 operating hours, inspect constant velocity boot for cracks, holes or a loose clamp.

## EMERGENCY BOX RAISING (without starting engine)

The box can be raised in an emergency by cranking starter and holding lift lever. Run starter for 15 seconds then wait 60 seconds before engaging starter again.

If engine will not crank, the load and box (attachment) must be removed to service engine or transaxle.

# MAINTENANCE

## FUSES (Fig. 60)

There are 3 fuses in the machine's electrical system. They are located under right side of dash panel.

FUSES	
OPEN	--
LIGHTS & HORN	10A
DASH	7.5A
IGNITION	7.5A

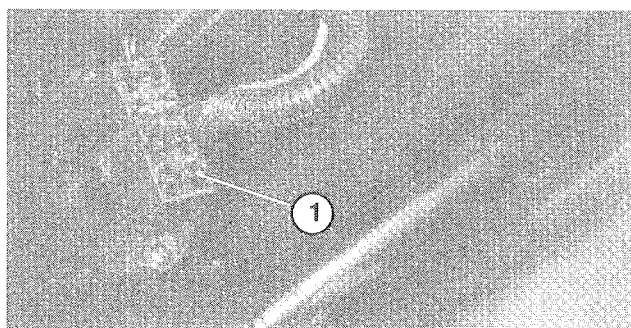
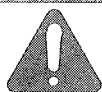


Figure 60

1. Fuse block

## JUMP STARTING PROCEDURE



### WARNING

Jump starting can be dangerous. To avoid personal injury or damage to electrical components in vehicle, observe the following warnings:

- Never jump start with a voltage sources greater than 15 volts D.C. This will damage the electrical system.
- Never attempt to jump start a discharged battery that is frozen. It could rupture or explode during jump starting.
- Observe all battery warnings while jump starting your vehicle.
- Be sure your vehicle is not touching the jump start vehicle.
- Connecting cables to the wrong post could result in personal injury and/or damage to the electrical system.

1. Loosen knobs securing battery cover to battery base and slide cover off.

2. Connect a jumper cable between the positive posts of the two batteries. The positive post may be identified by a "+" sign on top of battery cover.

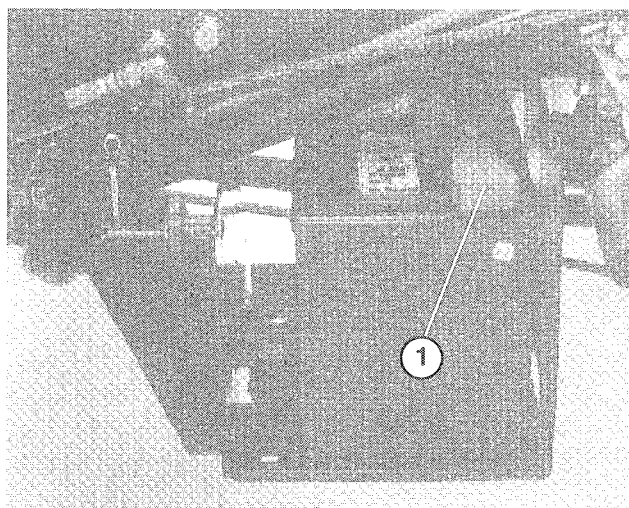


Figure 61

1. Positive (+) cable

3. Connect one end of the other jumper cable to the negative terminal of the battery in the other vehicle. The negative terminal has "NEG" on the battery cover. Do not connect the other end of the the jumper cable to the negative post of the discharged battery. Connect it to the engine. Do not connect the jumper cable to the fuel system.

4. Start the engine in the vehicle providing the jump start. Let it run a few minutes, then start your engine.

5. Remove the negative jumper cable first from your engine, then the battery in the other vehicle.

6. Reinstall battery cover to battery base and tighten knobs.

## BATTERY STORAGE

If the machine will be stored for more than 30 days, remove the battery and charge it fully. Either store it on the shelf or on the machine. Leave the cables disconnected if stored on the machine. Store the battery in a cool atmosphere to avoid quick deterioration of the charge in the battery. To prevent battery from freezing, make sure it is fully charged. The specific gravity of a fully charged battery is 1.250.

## BATTERY CARE

1. Battery electrolyte level must be properly maintained and the top of the battery kept clean. If the machine is stored in a location where temperatures are extremely high, the battery will run down more rapidly than if the machine is stored in a location where temperatures are cool.

2. Keep top of battery clean by washing periodically with a brush dipped in ammonia or bicarbonate of soda solution. Flush the top surface with water after cleaning. Do not remove the fill cap while cleaning.

3. Battery cables must be tight on terminals to provide good electrical contact.

## MAINTENANCE

4. If corrosion occurs at terminals, remove battery cover, disconnect cables, negative (–) cable first and scrape clamps and terminals separately. Reconnect cables, positive (+) cable first and coat terminals with petroleum jelly.
5. Check the electrolyte level every 50 operating hours or, if machine is in storage, every 30 days.
6. Maintain cell level with distilled or demineralized water. Do not fill cells above the bottom of the fill ring inside each cell.



### CAUTION

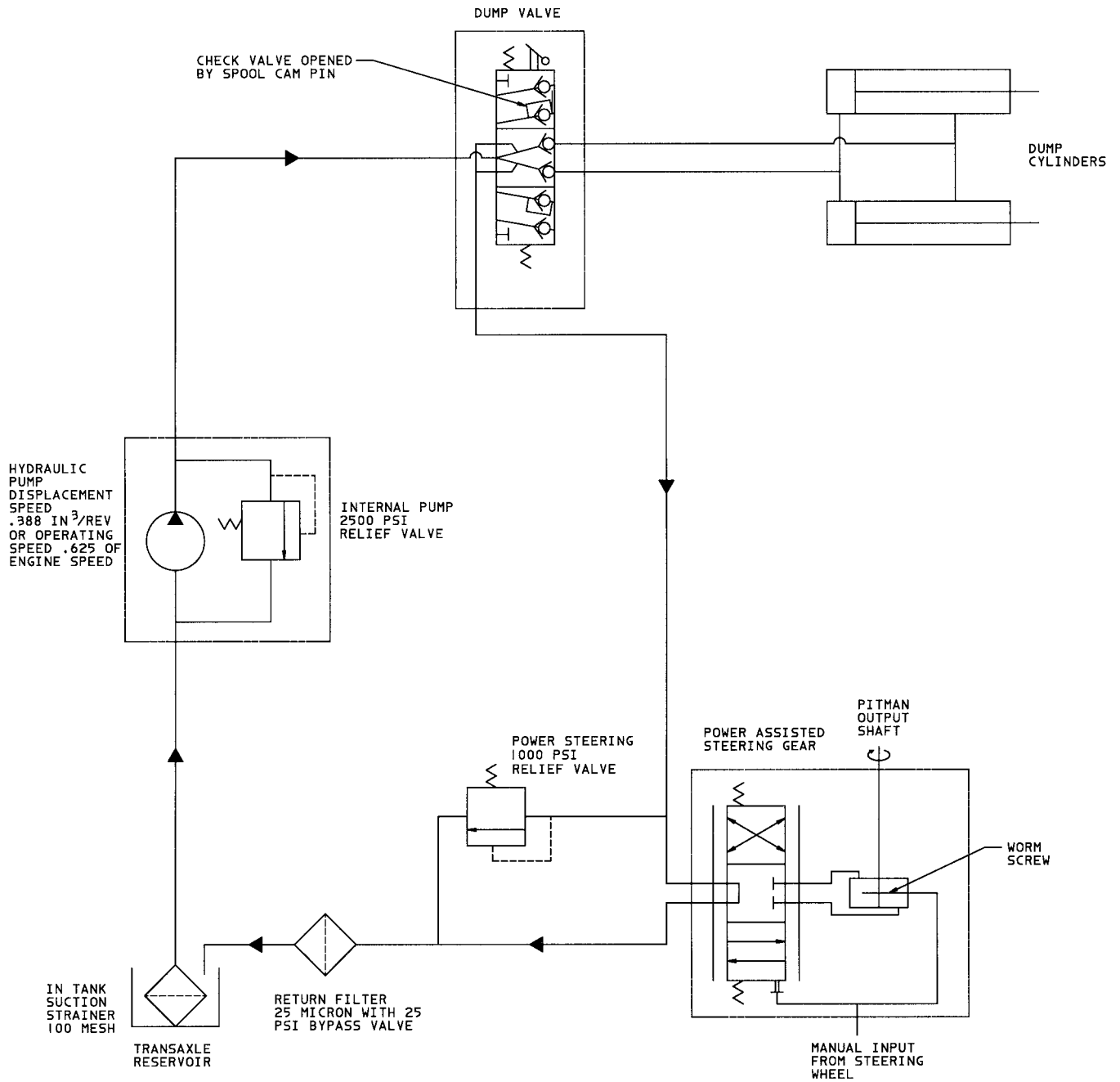
**Wear safety goggles and rubber gloves when working with electrolyte. Charge the battery in a well ventilated place so gasses produced while charging can dissipate. Since the gases are explosive, keep open flames and electrical spark away from the battery; do not smoke. Nausea may result if the gases are inhaled. Unplug charger from electrical outlet before connecting to or disconnecting charger leads from battery posts.**

# SERVICE INTERVAL CHART

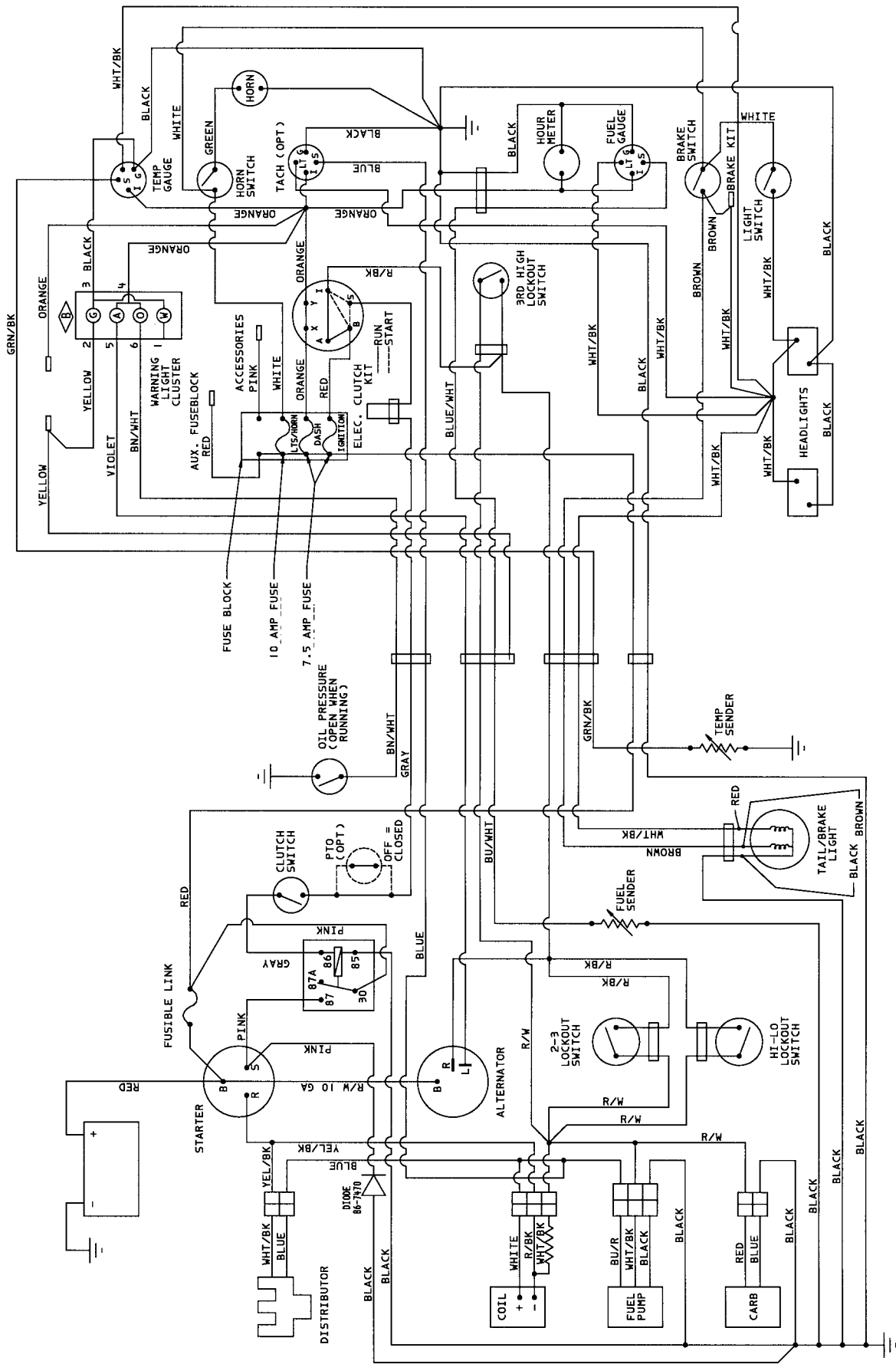
Date								
Hour Meter Reading								
Service Interval		Daily	10	50	100	150	200	250
Check Interlock System	Daily							
Check Engine Oil Level	Daily							
Check Transaxle Oil Level	Daily							
Check Radiator & Coolant (More often when conditions are dirty)	Daily							
Check Brake Fluid Level	Daily							
Check Tire Pressure	Daily							
Replace Hydraulic Oil Filter (initial)	10							
Check Belt Tensions (initial)	10							
Tighten Wheel Nuts (initial)	2 & 10							
Service Air Cleaner (Dust Cup & Baffle) (More often when conditions are dirty)	50							
Check Battery Water Level	50							
Change Engine Oil & Filter (initial)	50							
Check Front Differential Oil	100							
Lubricate Grease Fittings	100							
Change Engine Oil & Filter (More often when conditions are dirty)	100							
Inspect Tires	100							
Clean Battery Terminals	200							
Tighten Wheel Nuts	200							
Service Air Cleaner (Filter)	200							
Check Governor Adjustment	200							
Check Idle Speed (High & Low)	200							
Check Alternator, Governor & Fan Belts	200							
Inspect Constant Velocity Joint/Boots	200							
Check Cable Adjustments	200							
Check Front Wheel Toe – in	600							
Change Transaxle Oil & Filter	600							
Check Governor Oil	600							
Clean Transaxle Strainer	600							
Check Brake Shoes & Parking Brake	600							
Replace Fuel Filter	600							
Adjust Valve Tappets	600							
Change Spark Plugs	600							
Pack Front Wheel Bearings	600							
Check Radiator Hose	600							
Check & Adjust Ignition Timing	600							
Change Front Differential Oil	600							
Replace All Interlock Switches	1200 or 2 yrs. (whichever comes first)							
Replace Coolant	1200							
Replace Engine Timing Belt	2000 or 2 yrs. (whichever comes first)							
Replace Brake Fluid	2 yrs.							

# HYDRAULIC SCHEMATIC

(Base Vehicle)



# ELECTRICAL SCHEMATIC



# IDENTIFICATION AND ORDERING

## MODEL AND SERIAL NUMBERS

The WORKMAN® 4200 has two identification numbers: a model number and a serial number. These numbers are stamped into a plate located on the right frame member under dash. In any correspondence concerning the unit, supply the model and serial numbers to ensure correct information and replacement parts are obtained.

**Note:** Do not order by reference number if a parts catalog is being used; use the part number.

To order replacement parts from an authorized TORO Distributor, supply the following information:

1. Model and serial numbers.
2. Part number, description, and quantity of parts desired.



## MAINTENANCE CHART

[illegible]

## MAINTENANCE CHART

[illegible]

# NOTES

## The Toro Promise

### A One Year Limited Warranty

*The Toro Company promises to repair your model 07216 Workman 4200 vehicle if defective in materials or workmanship. The following time periods from the date of purchase apply (special warranty terms, on certain components, may be offered through The Toro Company by the component manufacturers):*

**Commercial Products ..... 1 Year**

*The cost of parts, labor and transportation are included.*

If you feel your TORO Product is defective and wish to rely on The Toro Promise, the following procedure is recommended:

1. Contact your Authorized TORO Distributor or Commercial Dealer (the Yellow Pages of your telephone directory is a good reference source).
2. The TORO Distributor or Commercial Dealer will advise you on the arrangements that can be made to inspect and repair your product.
3. The TORO Distributor or Commercial Dealer will inspect the product and advise you whether the product is defective and, if so, make all repairs necessary to correct the defect without an extra charge to you.

If for any reason you are dissatisfied with the distributor's analysis of the defect or the service performed, you may contact us.

Write:

TORO Commercial Products Service Department  
8111 Lyndale Avenue South  
Bloomington, MN 55420-1196

The above remedy of product defects through repair by an Authorized TORO Distributor or Commercial Dealer is the purchaser's sole remedy for any defect.

**THERE IS NO OTHER EXPRESS WARRANTY. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY.**

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This Warranty applies only to parts or components which are defective and does not cover repairs necessary due to normal wear, misuse, accidents, or lack of proper maintenance. Regular, routine maintenance of the unit to keep it in proper operating condition is the responsibility of the owner.

All warranty repairs reimbursable under The Toro Promise must be performed by an Authorized Toro Commercial Dealer or Distributor using Toro approved replacement parts.

Repairs or attempted repairs by anyone other than an Authorized TORO Distributor or Commercial Dealer are not reimbursable under the TORO Promise. In addition, these unauthorized repair attempts may result in additional malfunctions, the correction of which is not covered by warranty.

**THE TORO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT INCLUDING ANY COST OR EXPENSE OF PROVIDING SUBSTITUTE EQUIPMENT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.**

Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

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

#### COUNTRIES OTHER THAN THE UNITED STATES OR CANADA

Customers who have purchased TORO products exported from the United States or Canada should contact their TORO Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the TORO importer. If all other remedies fail, you may contact us at The Toro Company.