SK750/SK755

Operator's Manual





Overview

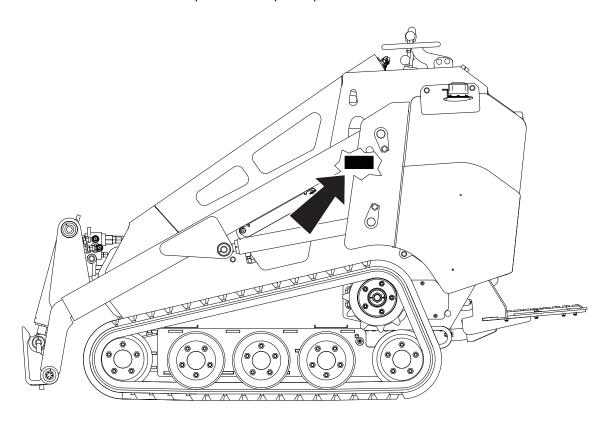


Chapter Contents

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Serial Number Location

Record serial numbers and date of purchase in spaces provided. Unit serial number is located as shown.



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| Item | |
|----------------------|--|
| date of manufacture | |
| date of purchase | |
| unit serial number | |
| engine serial number | |



Intended Use



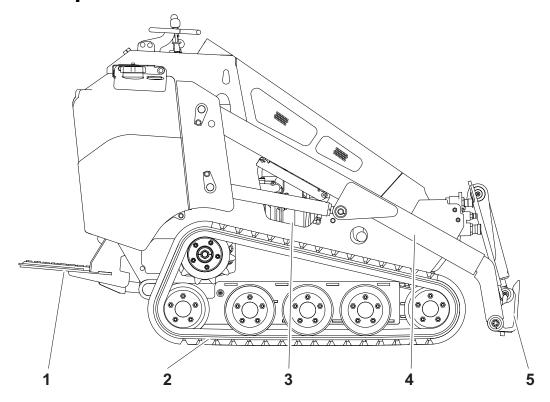
The SK750/SK755 is a platform, rubber track mini skid steer unit designed for light-to medium-duty construction work. The SK750/SK755 has a quick attach mount plate which makes it easy for an operator to connect different attachments. The unit is designed for operation in temperatures typically experienced in earth moving and construction work environments. Provisions may be required to operate in extreme temperatures. Contact your Ditch Witch dealer. Use in any other way is considered contrary to the intended use.

The SK750/SK755 should be operated, serviced, and repaired only by persons familiar with its particular characteristics and acquainted with the relevant safety procedures.

Equipment Modification

This equipment was designed and built in accordance with applicable standards and regulations. Modification of equipment could mean that it will no longer meet regulations and may not function properly or in accordance with the operating instructions. Modification of equipment should only be made by competent personnel possessing knowledge of applicable standards, regulations, equipment design functionality/requirements and any required specialized testing.

Unit Components

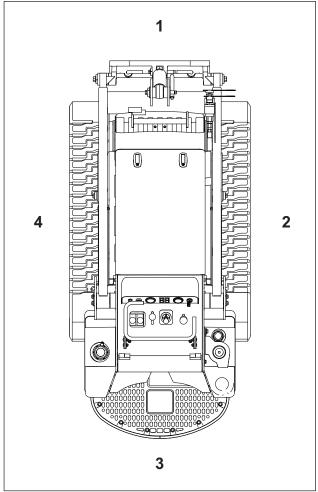


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- 1. Operator station
- 2. Tracks
- 3. Engine compartment
- 4. Lift arms
- 5. Mount plate

Operator Orientation

- 1. Front of unit
- 2. Right side of unit
- 3. Rear of unit
- 4. Left side of unit







About This Manual

This manual contains information for the proper use of this machine. See the beige **Operation Overview** pages for basic operating procedures. Cross references such as "See page 50" will direct you to detailed procedures.

Bulleted Lists

Bulleted lists provide helpful or important information or contain procedures that do not have to be performed in a specific order.

Numbered Lists

Numbered lists contain illustration callouts or list steps that must be performed in order.



Foreword



This manual is an important part of your equipment. It provides safety information and operation instructions to help you use and maintain your Ditch Witch equipment.

Read this manual before using your equipment. Keep it with the equipment at all times for future reference. If you sell your equipment, be sure to give this manual to the new owner.

If you need a replacement copy, contact your Ditch Witch dealer. If you need assistance in locating a dealer, visit our website at **www.ditchwitch.com** or write to the following address:

The Charles Machine Works, Inc. Attn: Marketing Department PO Box 66 Perry, OK 73077-0066 USA

The descriptions and specifications in this manual are subject to change without notice. The Charles Machine Works, Inc. reserves the right to improve equipment. Some product improvements may have taken place after this manual was published. For the latest information on Ditch Witch equipment, see your Ditch Witch dealer.

Thank you for buying and using Ditch Witch equipment.

SK750/755 Operator's Manual

Issue number 2.0 / OM-7/14 Part number 053-2570

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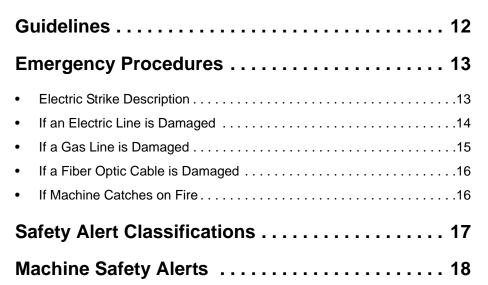
Contents





Safety

Chapter Contents





Guidelines

Follow these guidelines before operating any jobsite equipment:

- Complete proper training and read operator's manual before using equipment.
- Contact your local One-Call (811 in USA) or the One-Call referral number (888-258-0808 in USA and Canada) to have underground utilities located before digging. Also contact any utilities that do not participate in the One-Call service. Mark proposed path with white paint prior to contacting One-Call or utilities.
- Classify jobsite based on its hazards and use correct tools and machinery, safety equipment, and work methods for jobsite.
- Mark jobsite clearly and keep spectators away.
- · Wear personal protective equipment.
- Review jobsite hazards, safety and emergency procedures, and individual responsibilities with all personnel before work begins. Safety videos are available from your Ditch Witch® dealer.
- Replace missing or damaged safety shields and safety signs.
- Use equipment carefully. Stop operation and investigate anything that does not look or feel right.
- Do not operate unit where flammable gas may be present.
- Contact your Ditch Witch dealer if you have any question about operation, maintenance, or equipment use.
- Complete the equipment checklist located at www.ditchwitch.com/resources/safety.



Emergency Procedures





WARNING Jobsite hazards could cause death or serious injury. Use correct equipment and work methods. Use and maintain proper safety equipment. 274-050



Before operating any equipment, review emergency procedures and check that all safety precautions have been taken.

EMERGENCY SHUTDOWN - Turn ignition switch to stop position or push remote engine stop button (if equipped).

Electric Strike Description





⚠ DANGER Electric shock. Contacting electric lines will cause death or serious injury. Know location of lines and stay away.

When working near electric cables, remember the following:

- Electricity follows all paths to ground, not just path of least resistance.
- Pipes, hoses, and cables will conduct electricity back to all equipment.
- Low voltage current can injure or kill. Many work-related electrocutions result from contact with less than 440 volts.

Most electric strikes are not noticeable, but indications of a strike include:

- power outage
- smoke
- explosion
- · popping noises
- arcing electricity

If any of these occur, assume an electric strike has occurred.

If an Electric Line is Damaged

If you suspect an electric line has been damaged and you are **on tractor**, DO NOT MOVE. Remain on tractor and take the following actions. The order and degree of action will depend upon the situation.

- Warn people nearby that an electric strike has occurred. Instruct them to leave the area and contact utility.
- Raise attachments and drive from immediate area.
- Contact utility company to shut off power.
- Do not return to jobsite or allow anyone into area until given permission by utility company.

If you suspect an electric line has been damaged and you are **off tractor**, DO NOT TOUCH TRACTOR. Take the following actions. The order and degree of action will depend upon the situation.

- LEAVE AREA. The ground surface may be electrified, so take small steps with feet close together to reduce the hazard of being shocked from one foot to the other. For more information, contact your Ditch Witch dealer.
- Contact utility company to shut off power.
- Do not return to jobsite or allow anyone into area until given permission by utility company.



If a Gas Line is Damaged





MARNING Fire or explosion possible. Fumes could ignite and cause burns. No smoking, no flame, no spark. 275-419 (2P)





AWARNING Explosion possible. Serious injury or equipment damage could occur. Follow directions carefully.

If you suspect a gas line has been damaged, take the following actions. The order and degree of action will depend on the situation.

- Immediately shut off engine(s), if this can be done safely and quickly.
- Remove any ignition source(s), if this can be done safely and quickly.
- Warn others that a gas line has been cut and that they should leave the area.
- Leave jobsite as quickly as possible.
- Immediately call your local emergency phone number and utility company.
- If jobsite is along street, stop traffic from driving near jobsite.
- Do not return to jobsite until given permission by emergency personnel and utility company.

If a Fiber Optic Cable is Damaged

Do not look into cut ends of fiber optic or unidentified cable. Vision damage can occur. Contact utility company.

If Machine Catches on Fire

Perform emergency shutdown procedure and then take the following actions. The order and degree of action will depend on the situation.

- Immediately move battery disconnect switch (if equipped and accessible) to disconnect position.
- If fire is small and fire extinguisher is available, attempt to extinguish fire.
- If fire cannot be extinguished, leave area as quickly as possible and contact emergency personnel.



Safety Alert Classifications

These classifications and the icons defined on the following pages work together to alert you to situations which could be harmful to you, jobsite bystanders or your equipment. When you see these words and icons in the book or on the machine, carefully read and follow all instructions. YOUR SAFETY IS AT STAKE.



Watch for the three safety alert levels: **DANGER**, **WARNING** and **CAUTION**. Learn what each level means.

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.

AWARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

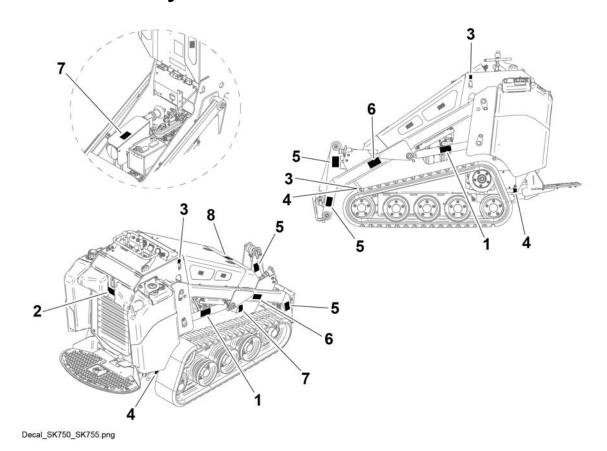
A CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Watch for two other words: **NOTICE** and **IMPORTANT**.

NOTICE indicates information considered important, but not hazard-related (e.g., messages relating to property damage).

IMPORTANT can help you do a better job or make your job easier in some way.

Machine Safety Alerts



1





AWARNING Crushing weight. Place cylinder lock on extended cylinder and secure. 273-413

2





AWARNING Read operator's manual. Know how to use all controls. Your safety is at stake. 273-475

3



Lift point. See Transport chapter for more information. 274-442



Tiedown location. See Transport chapter for more information.



5





275-184

Moving parts could cut off hand or foot. Stay away.



6





↑ WARNING Crushing weight could cause death or serious injury. Stay away. 275-326

7





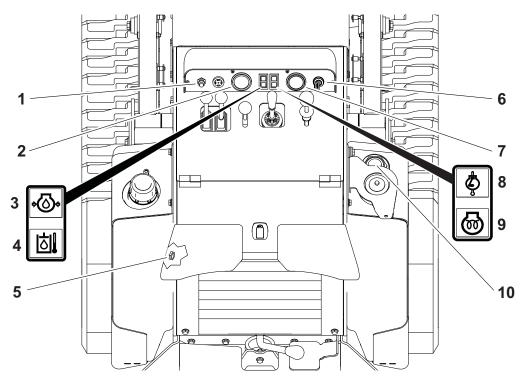
A CAUTION Hot parts may cause burns. Do not touch until cool or wear gloves. 275-355 (2-P)

8

WARNING Shut down engine before opening hood for servicing and maintaining machine. 273-479

Controls

Gauges and Indicators





- 1. Glow plug button
- 2. Engine coolant temperature gauge
- 3. Engine oil pressure indicator
- 4. Hydraulic fluid temperature indicator
- 5. Hydraulic fluid level sight glass

- 6. Ignition switch
- 7. Hourmeter
- 8. Engine coolant temperature indicator
- 9. Glow plug indicator
- 10. Fuel gauge

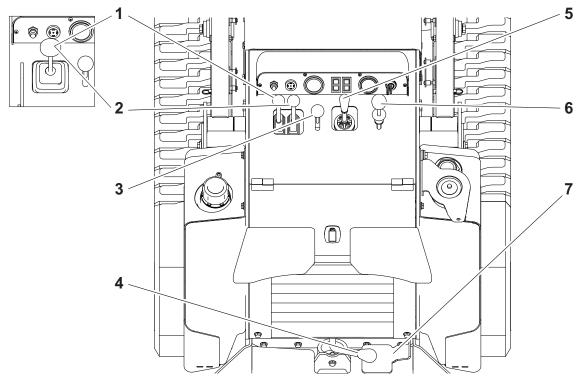


| Item | | Description | Notes |
|------|---|---|--|
| 1. | Glow plug button CO0ic108h.eps | To help start cold engine, turn ignition switch to first position. Press glow plug button as directed in notes. Release button, then turn ignition switch all the way clockwise to start. | IMPORTANT: Press glow plug button according to temperatures below. If ambient temperature is below 40° F (4° C), press and hold button for 5 seconds. If ambient temperature is below 20° F (-7° C), press and hold button for 10 seconds. Do not press button for more than 20 seconds continuously. |
| 3. | Engine coolant temperature gauge OF 195 220 280 77 91 104 38 °C WATER TEMP COOlic086a.eps Engine oil pressure indicator coolic119h.eps | Lights when engine oil pressure is low. Also lights briefly when engine is started. | IMPORTANT: If temperature goes above 230°F (110°C): 1. Stop operation, set throttle to low idle, and allow engine to cool. 2. Stop engine. 3. Check coolant level. 4. Ensure radiator is clean. Engine will stop. 1. Check oil level. 2. Check for leaks before starting engine. |
| 4. | Hydraulic fluid temperature indicator cooico23h.eps | Lights and alarm sounds when hydraulic fluid is overheating. | Check hydraulic fluid level. Reduce load. Ensure oil cooler is clean. |
| 5. | Hydraulic fluid sight glass | Shows level of hydraulic fluid in tank. Maintain fluid at halfway point on glass. | |

| Item | | Description | Notes |
|------|---|---|--|
| 6. | Ignition switch STOP CO0ic065h.eps | To start engine, insert key and turn clockwise. To stop engine, turn key counterclockwise. | IMPORTANT: If engine does not start or stalls, turn key to STOP and then restart. Do not allow starter motor to run continuously for more than 20 seconds. |
| 7. | Hourmeter SOLID STATE HOURS OOO OO OOO COOicO19h.eps | Displays engine operating time. | Use these times to schedule service. |
| 8. | Engine coolant temperature indicator | Lights and alarm sounds when engine coolant temperature is too high. | Stop operation, set throttle to low idle, and allow engine to cool. Stop engine. Check coolant level. |
| 9. | Glow plug indicator CO0ic180h.eps | Lights when ignition switch is on and glow plug button is pressed. | |
| 10. | Fuel tank sight window | Shows level of fuel in tank. | NOTICE: Use low sulfur or ultra low sulfur fuel only. |



Controls



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- Left track drive control or Track drive joystick (optional)
- 2. Right track drive control or Track drive joystick (optional)
- 3. Throttle
- 4. Parking brake lever

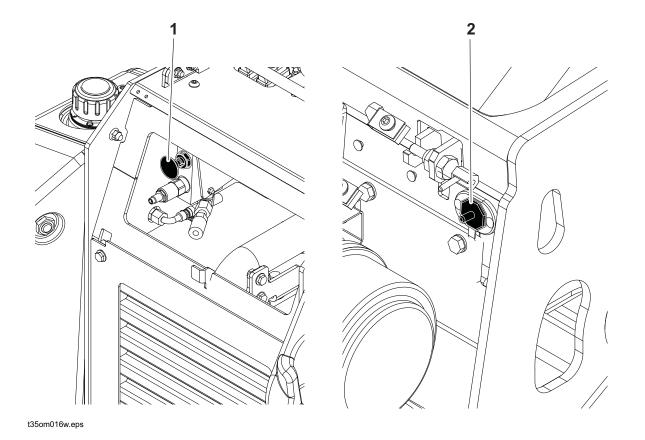
- 5. Lift arm control
- 6. Attachment drive control
- 7. Attachment drive foot control

| Item | | Description | Notes |
|-------|--|--|---|
| 1. 2. | Right track drive control Right track drive control | To move forward, push. To move backward, pull. To go faster in either direction, move control farther from neutral position. To stop, move to neutral position. | To turn right, move left control farther forward than right control. To turn left, move right control farther forward than left control. To counter-rotate in either direction, move controls in opposite directions as indicated above. |
| | Track drive joystick (optional)I | To move forward, push. To move backward, pull. To go faster in either direction, move control farther from neutral. To stop, move to neutral. | To steer while moving forward, push joystick forward, then move left or right. Unit will gradually turn left or right. To steer while moving backward, pull joystick back, then move left or right. Unit will gradually turn left or right. For tight steering in low speed, move joystick to center position then to left or right side. Tracks will counter rotate and turn unit in a tight circle. |
| 3. | Throttle Colicootc.eps | To increase engine speed, push. To decrease engine speed, pull. | Increasing engine speed also increases attachment speed. |



| Item | | Description | Notes |
|----------|---|--|--|
| 4. 5. | Parking brake lever Ouice62w.eps Lift arm control | To engage, rotate lever counterclockwise. To disengage, rotate lever clockwise. To move lift arms down, push. | IMPORTANT: Exercise caution when lifting loads. See page 72 for |
| | c00ic284h.eps | To float, push forward to end. To move lift arms up, pull. To curl attachment up, move to left. To curl attachment down, move to right. | operating capacities. |
| 6. | Attachment drive control R CO010090a.eps | To engage attachment drive in reverse, lift lever lock and push forward. To engage attachment drive in forward, lift lever lock and pull back. | Lever lock engages when control is in neutral. Use foot pedal to hold attachment control in the on position when hands are busy operating lift arm or track drive controls. |
| 7. | Attachment drive foot control | To hold attachment drive in engaged position (forward or reverse), lift lever lock, move lever in desired direction, and press pedal. To return attachment drive control to neutral, release pedal. | IMPORTANT: Use foot pedal to hold attachment control in the on position when hands are busy operating lift arm or track drive controls. |

Engine Compartment



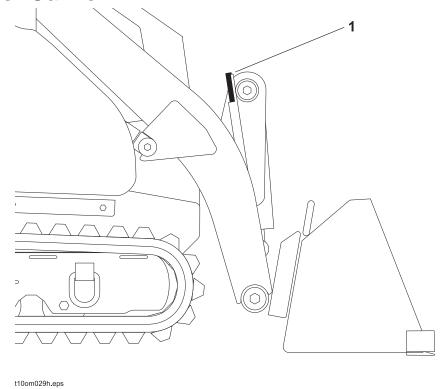


2. Auxiliary outlet

| Item | Description | Notes |
|--|--|---|
| 1. Hydraulic Fluid Bypass CO0ic663w.eps | To open bypass valve, pull and rotate knob until it seats in the open position. Start engine and run five minutes to warm hydraulic fluid. To close bypass valve, rotate knob until it seats in the closed position. | IMPORTANT: Use the hydraulic fluid bypass to assist starting a cold engine. Tool carrier and attachment will not operate correctly when knob is pulled out. |
| 2. Auxiliary power outlet | To operate work lights or other 12V devices, plug into outlet. | |



Tool Carrier



1. Level indicator

| Item | Description | Notes |
|--------------------|--|---|
| 1. Level indicator | To level bucket, adjust bucket position until indicator is at top of sleeve. | To level other attachments, adjust attachment position until it is level. Mark indicator position on sleeve. Use mark to indicate level with that attachment. |

Prepare

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| Cl | assify Jobsite | 32 |
| • | Inspect Jobsite | .32 |
| Cł | neck Supplies and Prepare Equipment 3 | 34 |
| • | Supplies | .34 |
| Co | onnect Attachment | 35 |



Gather Information

A successful job begins before you start working. The first step in planning is reviewing information already available about the job and jobsite.

All Jobs

Review Job Plan

Review blueprints or other plans. Check for information about existing or planned structures, elevations, or proposed work that may be taking place at the same time.

Arrange for Traffic Control

If working near a road or other traffic area, contact local authorities about safety procedures and regulations.

Plan for Emergency Services

Have the telephone numbers for local emergency and medical facilities on hand. Check that you will have access to a telephone.

Ground-Penetrating Jobs

Notify One-Call Services

Contact your local One-Call (811 in USA) or the One-Call referral number (888-258-0808 in USA and Canada) to have underground utilities located before digging. Also contact any utilities that do not participate in the One-Call service.

Above-Ground Jobs

Locate Overhead Lines

Note location and height of all overhead lines in jobsite and ensure that fully lifted attachment and/or load will not touch lines.

Inspect Site

Inspect jobsite before transporting equipment. Check for the following:

- changes in elevation such as hills or other open trenches
- obstacles such as buildings, railroad crossings, or streams
- signs of utilities (See "Inspect Jobsite" on page 32.)
- traffic
- access
- soil type and condition

Identify Hazards

Identify safety hazards and classify jobsite if attachment will penetrate ground. See "Classify Jobsite" on page 32.





AWARNING Jobsite hazards could cause death or serious injury. Use correct equipment and work methods. Use and maintain proper safety equipment.

To help avoid injury:

- Wear personal protective equipment including hard hat, safety eye wear, and hearing protection.
- Do not wear jewelry or loose clothing.
- Notify One-Call and companies which do not subscribe to One-Call.
- Comply with all utility notification regulations before digging or drilling.
- Verify location of previously marked underground hazards.
- Mark jobsite clearly and keep spectators away.

Remember, jobsite is classified by hazards in place -- not by line being installed.



Classify Jobsite

Inspect Jobsite

- Inspect jobsite and perimeter for evidence of underground hazards, such as:
 - "buried utility" notices
 - utility facilities without overhead lines
 - gas or water meters
 - junction boxes
 - drop boxes
 - light poles
 - manhole covers
 - sunken ground
- Follow U.S. Department of Labor regulations on excavating and trenching (Part 1926, Subpart P) and other similar regulations.
- Contact your local One-Call (811 in USA) or the One-Call referral number (888-258-0808 in USA and Canada) to have underground utilities located before digging. Also contact any utilities that do not participate in the One-Call service.
- Have an experienced locating equipment operator sweep area within 20' (6 m) to each side of work path. Verify previously marked line and cable locations.
- Mark location of all buried utilities and obstructions.
- Classify jobsite.

Select a Classification

Jobsites are classified according to underground hazards present.

| If working | then classify jobsite as |
|---|----------------------------------|
| within 10' (3 m) of a buried electric line | electric |
| within 10' (3 m) of a natural gas line | natural gas |
| in sand or granite which is capable of producing crystalline silica (quartz) dust | crystalline silica (quartz) dust |
| within 10' (3 m) of any other hazard | other |

NOTICE: If you have any doubt about jobsite classification, or if jobsite might contain unmarked hazards, take steps outlined previously to identify hazards and classify jobsite before working.



Apply Precautions

Once classified, precautions appropriate for jobsite must be taken.

Electric Jobsite Precautions

Use one or both of these methods.

- Expose line by careful hand digging or soft excavation.
- Have service shut down while work is in progress. Have electric company test lines before returning them to service.

Natural Gas Jobsite Precautions

In addition to positioning equipment upwind from gas lines, use one or both of these methods.

- Expose lines by careful hand digging or soft excavation.
- Have gas shut off while work is in progress. Have gas company test lines before returning them to service.

Crystalline Silica (Quartz) Dust Precautions

Cutting, drilling, or working materials such as concrete, sand, or rock containing quartz may result in exposure to silica dust. Use water spray or other means to control dust. If workers are exposed to dust they must wear appropriate breathing protection. Silica dust may cause lung disease and is known to the State of California to cause cancer.

Other Jobsite Precautions

You may need to use different methods to safely avoid other underground hazards. Talk with those knowledgeable about hazards present at each site to determine which precautions should be taken or if job should be attempted.



Check Supplies and Prepare Equipment

Supplies

fuel

NOTICE: Use low sulfur or ultra low sulfur fuel only.

- keys
- lubricants
- personal protective equipment, such as hard hat and safety glasses

Fluid Levels

fuel

NOTICE: Use low sulfur or ultra low sulfur fuel only.

- · hydraulic fluid
- battery charge
- · engine oil

Condition and Function

- parking brake pins (See "Check Brake Operation" on page 57.)
- filters (air, oil, hydraulic)
- tracks
- · pumps and motors
- hoses and valves
- · signs, guards, and shields

Accessories

Fire Extinguisher

If required, mount a fire extinguisher near the power unit but away from possible points of ignition. The fire extinguisher should always be classified for both oil and electric fires. It should meet legal and regulatory requirements.



Connect Attachment

NOTICE: Use only Ditch Witch-approved attachments. Attachments can change the stability and operating characteristics of the unit.

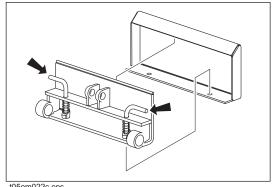
Attachment

IMPORTANT: Before connecting attachment to unit, ensure that mount and receiver plates are free of dirt and debris.

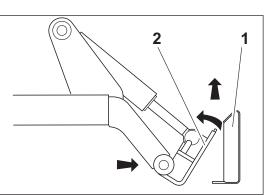
- 1. Position attachment on level surface with enough space behind it to accommodate unit.
- 2. Ensure that lock pin handles (shown) on mount plate are turned away from center of attachment.
- Start engine.
- 4. Tilt mount plate (2) forward.
- 5. Position mount plate in the upper lip of the receiver plate (1) on attachment.
- 6. Raise lift arms while tilting back mount plate.

IMPORTANT: Attachment should be raised enough to clear the ground. Mount plate should be tilted back fully.

7. Turn ignition switch off and remove key.







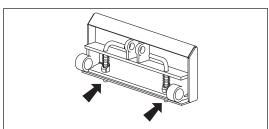
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A WARNING Read operator's manual. Know how to use all controls before operating machine. When you see this sign
on the machine or in the manual, read it and use caution. Your safety is at stake.

To help avoid injury: Ensure proper connection by verifying that bottoms of lock pins are visible under attachment receiver plate (shown).

8. Rotate lock pin handles toward center of mount plate to secure attachment to lift plate.



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Hydraulic Hoses

If attachment requires hydraulic power for operation, connect hydraulic hoses.





Pressurized fluid or air could pierce skin and cause injury or death. Stay away.

To help avoid injury:

- Escaping pressurized fluid can cause injury or pierce skin and poison.
- Before disconnecting a hydraulic line, turn engine off and operate all controls to relieve pressure.
 Lower, block, or support any raised component with a hoist. Cover connection with heavy cloth and loosen connector nut slightly to relieve residual pressure. Catch all fluid in a container.
- Before using system, check that all connections are tight and all lines are undamaged.
- Use a piece of cardboard or wood, rather than hands, to search for leaks.
- Wear protective clothing, including gloves and eye protection.
- If you are injured, seek immediate medical attention from a doctor familiar with this type of injury.



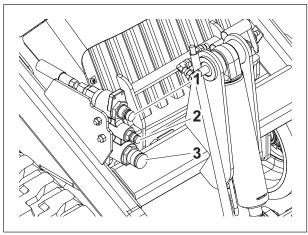


A WARNING

Hot parts may cause burns. Do not touch until cool.

To help avoid injury: Wear gloves when connecting and disconnecting hydraulic hoses and wait until unit has cooled before touching hydraulic components.

- Cycle attachment drive control to relieve residual pressure at hydraulic couplers.
- 2. Remove dirt and debris from hydraulic couplers.
- 3. Connect male coupler on attachment to female coupler (3) on unit.
- 4. Connect female coupler on attachment to male coupler (1) on unit.
- 5. If needed, connect attachment case drain hose to case drain connector (2).
- Ensure that connections are secure by pulling on hoses.



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Drive

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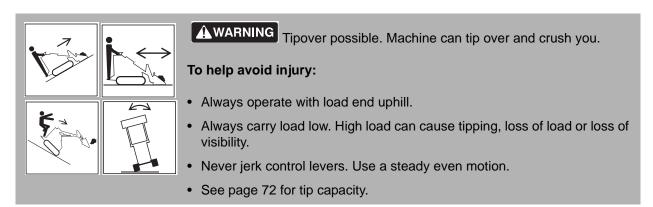
Start Unit

- 1. Ensure all controls are in neutral.
- 2. If necessary, use glow plugs and/or hydraulic fluid bypass control to warm cold engine. See "Hydraulic Fluid Bypass" on page 27.
- 3. Move throttle to half open.
- 4. Turn ignition switch to start position and release when engine starts.

EMERGENCY SHUTDOWN: Turn ignition switch to STOP.

Drive

General Operation



- 1. Disengage parking brake.
- 2. Pull lift arm control to raise mount plate (and attachment) off ground.
- 3. Move track drive control to steer unit. See page 25.

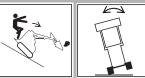
IMPORTANT: If needed for attachment operation, push attachment drive foot control to hold attachment control in the forward position while operating track drive and lift arm controls.

- 4. Adjust throttle as needed.
- 5. See attachment operation manual for instructions regarding proper operation of attachments.

Safe Slope Operation









WARNING Tipover possible. Machine can tip over and crush you.

To help avoid injury:

- · Always operate with heavy end uphill.
- · Always carry load low. High load can cause tipping, loss of load or loss of visibility.
- Drive cautiously at all times.
- Never jerk control levers. Use a steady even motion.
- Do not park unit on slope without lowering attachment to the ground, returning all controls to neutral position, shutting down unit, and applying parking brake.
- See "Tipping capacity" on page 72.



- Distribution of machine weight, including front loading and absence of load
- Height of load
- Even or rough ground conditions
- Potential for ground giving way causing unplanned tilt forward, reverse or sideways
- Nearness of ditches, ruts, stumps or other obstructions and sudden changes in slope
- Speed
- **Turning**
- Braking performance
- Operator skill

These varying factors make it impractical to specify a maximum safe operating angle in this manual. It is therefore important for the operator to be aware of these conditions and adjust operation accordingly. Maximum engine angle and braking performance are two absolute limits which must never be exceeded. These maximums are stated below since they are design limits. These design limits usually exceed the operating limits and must never be used alone to establish safe operating angle for variable conditions.

Maximum engine lubrication angle - 20°

Maximum service brake retarding force – equal to traction of both tracks.

Maximum park brake holding force – equal to traction of one track.



Shut Down

- 1. Lower lift arms to ground.
- 2. Move all controls to neutral position.
- 3. Apply parking brake.
- 4. Run engine at low idle for five minutes to cool.

NOTICE: Failure to allow engine to cool before shutdown may damage turbocharger.

- 5. Turn ignition switch to STOP.
- 6. Remove key.



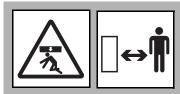
Transport

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Lift



WARNING Crushing weight. If load falls or moves it could kill or crush you. Use proper procedures and equipment or stay away.

To help avoid injury: Only lift unit without attachment installed.

Points

Lifting points are identified by lifting decals. Lifting at other points is unsafe and can damage machinery.



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Procedure

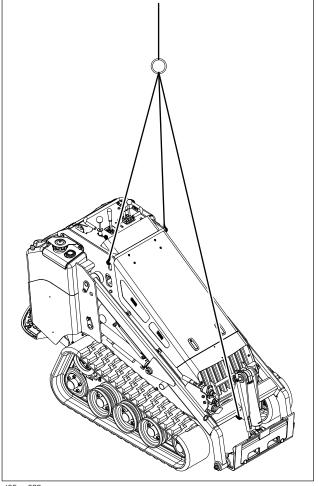
Use a hoist capable of supporting the equipment's size and weight. See "Specifications" on page 71 or measure and weigh equipment before lifting.

Use one of the methods below:

• Use two points nearest operator station.

IMPORTANT: Front of unit will be lower than rear of unit when using only two lift points.

• Use three lift points as shown.



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Haul

Load



AWARNING Crushing weight. If load falls or moves it could kill or crush you. Use proper procedures and equipment or stay away.

To help avoid injury:

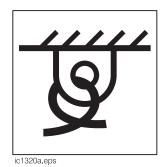
- Load and unload trailer on level ground.
- Incorrect loading can cause trailer swaying.
- Attach trailer to vehicle before loading or unloading.
- Only operate unit from operator platform.
- To help prevent trailer sway, load trailer so that ten to fifteen percent of total vehicle weight (equipment plus trailer) is on tongue.
- If loading onto tilt-bed trailer, be prepared for trailer to tilt.
- Move all controls to neutral position when stopped.
- 1. Disengage parking brake.
- 2. Start engine.
- 3. Adjust throttle to low speed.
- 4. Pull lift arm control to raise mount plate (and attachment) clear of trailer, but keep it low.
- 5. Move unit to rear of trailer and align with ramps.
- 6. Drive forward slowly to move unit onto trailer until tiedown position is reached.
- 7. Push lift arm control to lower mount plate (and attachment) to trailer bed.
- 8. Engage parking brake.
- 9. Ensure that all controls are in neutral position.
- 10. Turn ignition switch to STOP.
- 11. Tie down unit.



Tie Down

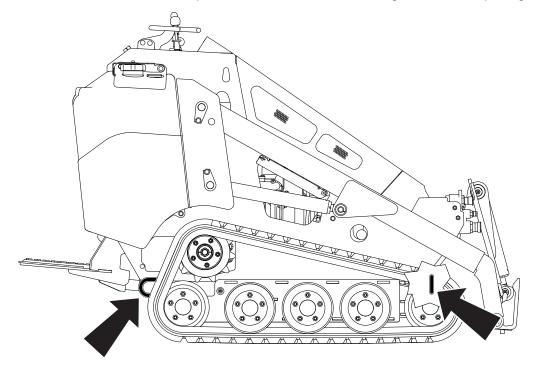
Points

Tiedown points are identified by tiedown decals. Securing to truck or trailer at other points is unsafe and can damage machinery.



Procedure

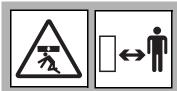
Loop tiedowns around unit at tiedown points. Make sure tiedowns are tight before transporting.



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Unload



Crushing weight. If load falls or moves it could kill or crush you. Use proper procedures and equipment or stay away.

To help avoid injury:

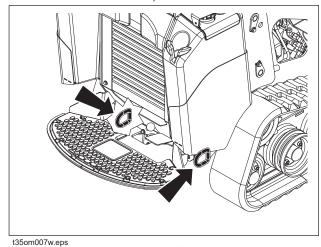
- Load and unload trailer on level ground.
- Attach trailer to vehicle before loading or unloading.
- Only operate unit from operator platform.
- If unloading from tilt-bed trailer, be prepared for trailer to tilt.
- 1. Prepare trailer and ramps for unloading.
- 2. Remove tiedowns.
- 3. Disengage parking brake.
- 4. Start engine.
- 5. Pull lift arm control to raise mount plate (and attachment) off ground, but keep it low.
- 6. Adjust throttle to low speed and slowly back unit down trailer or ramps.

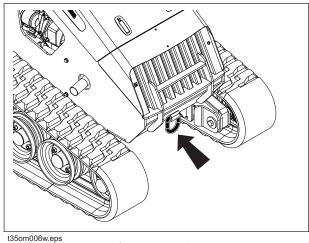




Read operator's manual. Know how to use all controls before operating machine. When you see this sign on the machine or in the manual, read it and use caution. Your safety is at stake.

Under normal conditions, unit should not be towed. If unit breaks down and towing is necessary:







rear tow point

front tow point

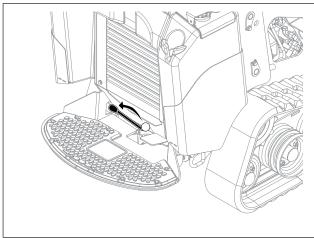
- · attach chains to tow points facing towing vehicle
- tow for short distances at less than 1 mph (1.6 km/h)
- do not tow for more than 100' (30 m)
- use no more than 1,300 lb (5800 N) of towing force
- open bypass valve on each pump section

NOTICE: When bypass valve is open, unit has no brakes.

disengage parking brake

Prepare Unit for Towing

- 1. Block tracks.
- 2. Engage parking brake (shown).

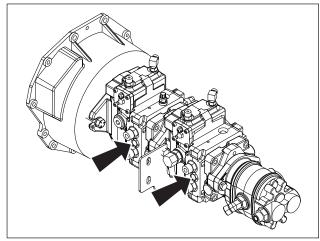


t35om008w.eps

3. Loosen bypass valves (shown) three turns.

IMPORTANT: Open bypass valves in both front and rear pumps.

NOTICE: When bypass valves are open, unit has no brakes.



t35om012w.eps

Return Unit to Normal Operation

1. Tighten bypass valves and tighten locknut to 15-18 ft•lb (20-25 N•m).

IMPORTANT: Close bypass valve in both front and rear pumps.

- 2. Disengage parking brake.
- 3. Unblock tracks.



Complete the Job

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| Disconnect Attachment | 50 |
| Stow Tools | 50 |



Rinse Equipment

1. Spray water onto equipment to remove dirt and mud.

NOTICE: Do not spray water onto operator's console. Electrical components could be damaged. Wipe down instead.

- 2. Open hood and allow unit to cool. Remove debris from inside of unit.
- 3. Remove mud from track sprockets.
- 4. Wash undercarriage. Pay special attention to brake pin area.

Disconnect Attachment

- 1. Lower attachment to the ground.
- 2. Turn off engine.
- 3. Disengage lock pins by turning handles away from center of attachment.
- 4. Cycle attachment drive control and disconnect hydraulic hoses, if used.
- 5. Start engine.
- 6. Tilt mount plate forward and back unit away from attachment.

Stow Tools

Make sure all tools and accessories are loaded and properly secured on trailer.



Service



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| 2000 Hour 66 |
| As Needed |

Precautions



AWARNINGRead operator's manual. Know how to use all controls. Your safety is at stake. 273-475

To help avoid injury:

- Unless otherwise instructed, all service should be performed with engine off.
- Before servicing equipment, lower unstowed attachments to ground.

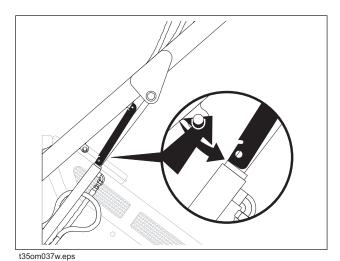
Working Under Raised Lift Arms





AWARNING Crushing weight. Place cylinder lock on extended cylinder and secure. 273-231

Use safety supports as indicated when working under raised lift arms.



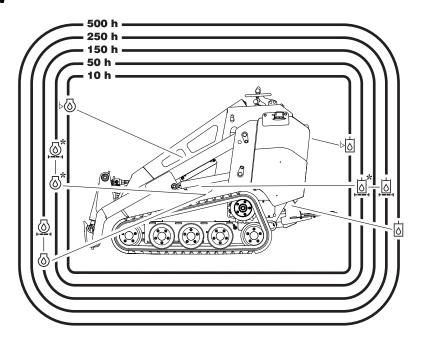
Welding Precaution

NOTICE: Welding can damage electronics.

- Disconnect battery to prevent damage to battery. Do not turn off battery disconnect switch with engine running, or alternator and other electronic devices may be damaged.
- Connect welder ground clamp close to welding point and make sure no electronic components are in the ground path.
- Always disconnect the Engine Control Unit ground connection from the frame, harness connections to the ECU, and other electronic components prior to welding on machine or attachments.

Overview





t35om035w.eps

Recommended Lubricants/Service Key

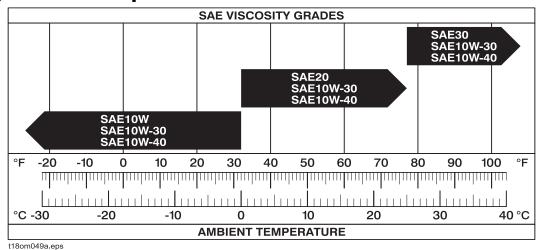
| Item | Description | | | |
|-------------|---|---|--|--|
| ⊚ DEO | Diesel engine oil meeting API service classification CF-4 or E1-96 and SAE viscosity recommended by engine manufacturer (SAE 15W40) | | | |
| Ď THF | Tractor hydraulic fluid, similar to Phillips 66 HG, Mobilfluid 423, Chevron Tractor Hydraulic Fluid, Texaco TDH Oil, or equivalent | | | |
| MPG | Multipurpose grease meeting NLGI GC-LB Grade 2 | | | |
| > | Check level of fluid or lubricant Check condition | | | |
| F1 | Filter | S | Change, replace, adjust, service or test | |

Proper lubrication and maintenance protects Ditch Witch[®] equipment from damage and failure. Service intervals listed are for minimum requirements. In extreme conditions, service machine more frequently. Use only genuine Ditch Witch parts, filters, approved lubricants, TJC, and approved coolants to maintain warranty. Fill to capacities listed in "Specifications" on page 71.

For more information on engine lubrication and maintenance, see your engine manual.

IMPORTANT: Use the "Service Record" on page 79 to record all required service to your machine.

Engine Oil Temperature Chart



Temperature range anticipated before next oil change

For more information on engine lubrication and maintenance, see your engine manual.

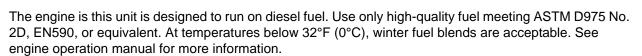
Approved Coolants

This unit was filled with John Deere Cool-Gard coolant before shipment from factory. Add only Cool-Gard (p/n 255-006) or any fully-formulated, ethylene glycol based, low-silicate, heavy-duty diesel engine coolant meeting ASTM specification D5345 (prediluted) or D4985 (concentrate). Before using any other kind of coolant, completely flush radiator.

NOTICE: Do not mix heavy-duty diesel engine coolant and automotive-type coolant. This will lead coolant breakdown and engine damage.



Approved Fuel





IMPORTANT:

- For machines operated in the U.S.: The engine in this product is certified to operate on low sulfur diesel fuel (LSD) with a sulfur content of 500 ppm (0.05%) or less. Use LSD or ultra low sulfur fuel (ULSD) only. Using fuels with higher sulfur content will affect exhaust emissions. Such action is a violation of the US Clean Air Act and US EPA regulations and will result in fines.
- For machines operated outside the U.S.: Fuel sulfur content should be less than 5000 ppm (0.05%). Worldwide fuel sulfur regulations vary widely. Fuel used should always comply with local regulations. If fuel sulfur content exceeds 5000 ppm, use a lube oil meeting API CF (or equivalent) with a TBN value of 10 or greater. Do not use lube oils meeting API CJ-4 (or other low SAPS equivalent) under any conditions.

Biodiesel blends up to 5% (B5) are approved for use in this unit. The fuel must meet the specifications for diesel fuel shown above. In certain markets, higher blends may be used if certain steps are taken. Extra attention is needed when using biodiesel, especially when operating in cold weather or storing fuel. Contact your Ditch Witch dealer or the engine manufacturer for more information.

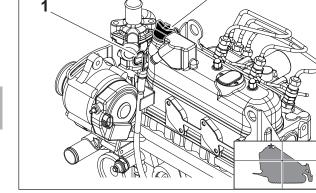
Startup/10 Hour

| Location | Task | Notes |
|----------|---|---------------------------|
| | Check engine oil level | DEO |
| | Check engine air filter service indicator | |
| | Check engine coolant level | DEAC |
| | Check hydraulic fluid level | THF |
| | Check brake operation | |
| | Check track tension | |
| | Check lug nut torque | 88-95 ft•lb (108-129 N•m) |
| | Check hydraulic hoses | |

Check Engine Oil Level

Check engine oil level at dipstick opening (1) at startup and every 10 hours. Oil level should be at top of marking. If low, add DEO at fill (2). Check with unit on level surface and at least 15 minutes after stopping engine.

IMPORTANT: Use oil specified in "Engine Oil Temperature Chart" on page 54.

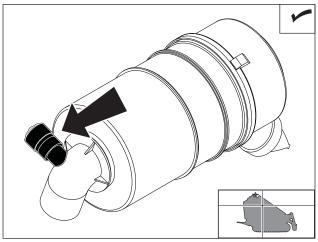


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Check Engine Air Filter Service Indicator

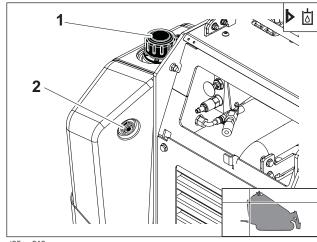
Check air filter service indicator (shown) at startup and every 10 hours and change filter as needed. See "Change Air Filter" on page 67.



t35om010w.eps

Check Hydraulic Fluid Level

Check hydraulic fluid level at startup and every 10 hours. Maintain fluid level at halfway point on sight glass (2), when engine is off, cylinders are fully retracted, and fluid is cool. If low, add THF at fill (1).

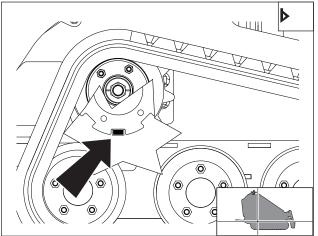






Check brake operation at startup and every 10 hours or more often when conditions warrant.

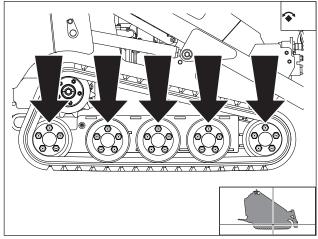
- Ensure parking brake pin(shown) moves freely allowing brake to be engaged and disengaged.
- · Clean mud and debris from area around pin.



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Check Lug Nut Torque

Check lug nut torque at 10 hours, 50 hours and every 200 hours thereafter. Tighten to 88-95 ft•lb (108-129 N•m) as needed.



t35om036w.eps

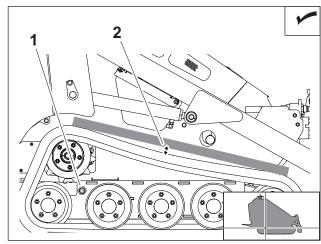


Check Track Tension

Check track tension at startup and every 10 hours and adjust as needed. Track is correctly tensioned when measurement between track and straight edges (2) is 1/2 in (13 mm).

To adjust:

- 1. Park machine on smooth flat surface.
- 2. Lay straight edge on top of track, spanning from sprocket to front idler roller.
- 3. Clean track cylinder zerk (1). Pump MPG into zerk until distance between track and straight edge (2) is 1/2" (13 mm).
- 4. **Test**: Drive forward one track length and check tension again.
 - If tension is too loose, repeat step 3 above.
 - If tension is too tight, loosen fitting on grease cylinder and allow a small amount of grease to discharge from cylinder. Tighten fitting and test again.

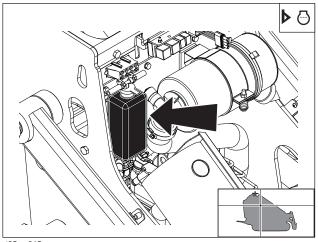


t35om033w.eps

Check Coolant Level

Check coolant level, with engine cool, at overflow bottle at startup and every 10 hours. Maintain coolant level at halfway point on bottle. If low, add approved coolant.

IMPORTANT: See page 54 for information on approved coolants.



t35om015w.eps

Check Hydraulic Hoses



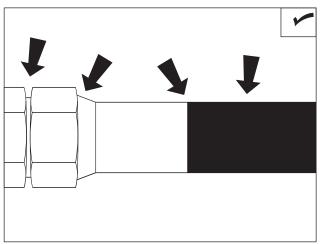
AWARNING Pressurized fluid or air could pierce skin and cause severe injury. Refer to operator's manual for proper use. 270-6035

1

To help avoid injury:

- Before disconnecting a hydraulic line, turn engine off and operate all controls to relieve pressure. Lower, block, or support any raised component with a hoist. Cover connection with heavy cloth and loosen connector nut slightly to relieve residual pressure. Catch all fluid in a container.
- Before using system, check that all connections are tight and all lines are undamaged.
- Use a piece of cardboard or wood, rather than hands, to search for leaks.
- Wear protective clothing, including gloves and eye protection.
- If you are injured, seek immediate medical attention from a doctor familiar with this type of injury.

Check hydraulic hoses for leaks at startup and every 10 hours.



CheckHoses.eps

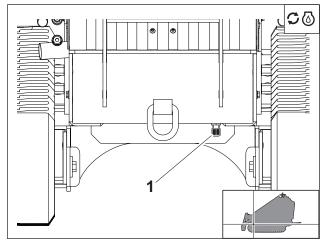
50 Hour

| Location | Task | Notes |
|----------|---|---------------------------|
| | Change engine oil and filter | initial service |
| | Check fan belt tension and damage | 1/4-1/3" (7-9 mm) |
| | Change hydraulic fluid filter | initial |
| | Check fuel hose and clamp band | |
| | Check radiator/hydraulic fluid cooler for dirt and debris | |
| | Check lug nut torque | 88-95 ft•lb (108-129 N•m) |

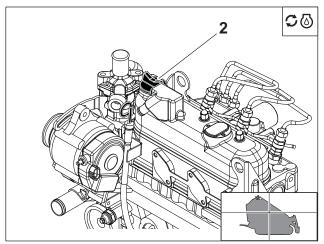
Change Engine Oil and Filter (Initial)

Change engine oil after 50 hours. Drain oil (1) and add 4.2 qt (4 L) of DEO at fill (2).

IMPORTANT: Use oil specified in "Engine Oil Temperature Chart" on page 54.



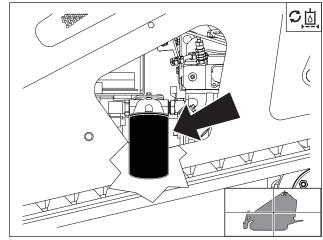
t35om017w.eps



t35om018w.eps

Change Hydraulic Filter (initial)

Change hydraulic filter after 50 hours.





Check Fan Belt for Tension and Damage

Check belt tension every 50 hours. Belt is properly tensioned when it moves about 1/4-3/8" (7-9 mm) when pushed at the long span. Replace the belt when it is worn and sinks into the pulley groove.

Adjust Tension

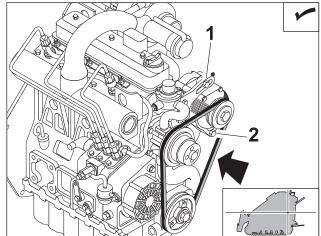
- 1. Loosen two alternator bolts (shown).
- 2. Adjust position as needed.
- 3. Tighten bolts.
- 4. Check tension.

Check Fuel Hose and Clamp Bands

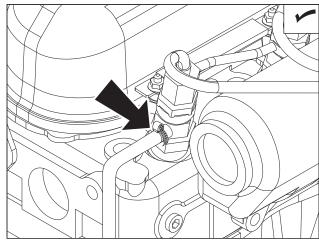
Check fuel hose and clamp bands every 50 hours.

If the clamp is loose, apply oil to the threads and retighten it. If the hose is worn, replace it.

Bleed the fuel system if the hose and/or clamp is changed.



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t18om053t.eps



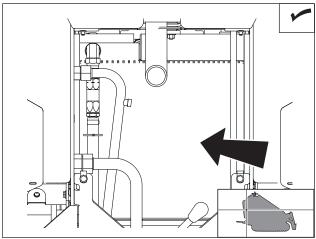
Check Radiator/Fluid Cooler

Check radiator/hydraulic fluid cooler for dirt, grass, and other foreign matter every 50 hours. Clean out with compressed air or spray wash if required. Be careful not to damage fins with high-pressure air or water. Check more often if operating in dusty or grassy conditions.

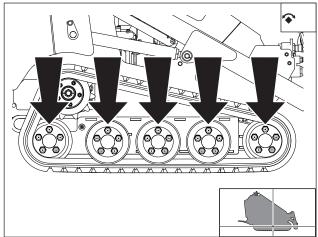
Check radiator hoses for wear. Check hose clamps for proper tightness.



Check lug nut torque at 10 hours, 50 hours and every 200 hours thereafter. Tighten to 88-95 ft•lb (108-129 N•m) as needed.



t35om020w.eps



t35om036w.eps

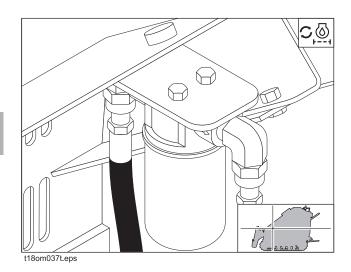
200 Hour

| Location | Task | Notes |
|----------|------------------------------|---------------------------|
| | Change engine oil and filter | 4.2 qt (4 L) DEO |
| | Check intake air line | 1/4-1/3" (7-9 mm) |
| | Change hydraulic filter | |
| | Check lug nut torque | 88-95 ft•lb (108-129 N•m) |

Change Engine Oil and Filter

Change engine oil and filter every 200 hours. Drain oil, change filter (shown) and add 4.2 qt (4 L) of DEO at fill. See page 60.

IMPORTANT: Use oil specified in "Engine Oil Temperature Chart" on page 54.



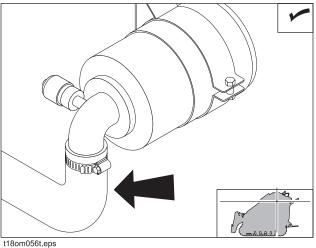
Check Intake Air Line

Check the intake air line every 200 hours.

NOTICE: Keep dust out of the intake air line to prevent damage to the engine.

If the clamp is loose, apply oil to the threads and retighten it.

If the hose appears cracked or worn, replace it.

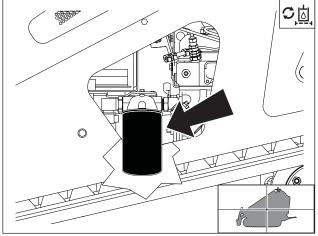


t roomooot.eps



Change Hydraulic Filter

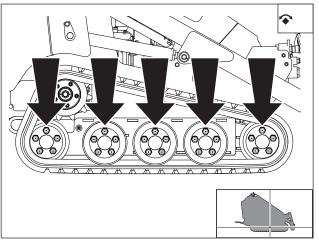
Change hydraulic filter every 200 hours.



t35om019w.eps

Check Lug Nut Torque

Check lug nut torque at initial intervals and every 200 hours thereafter. Tighten to 88-95 ft•lb (108-129 N•m) as needed.



t35om036w.eps

500 Hour

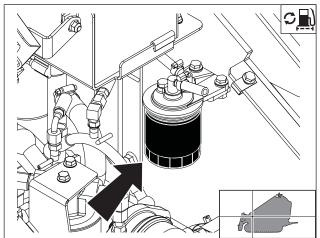
| Location | Task | Notes |
|----------|-----------------------------------|-------|
| | Change fuel filters | |
| | Change hydraulic fluid and filter | |

Change Fuel Filters

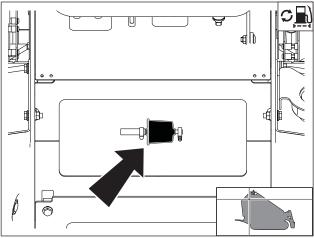
Change filters every 500 hours. If you refuel from cans, replace filters more often.

The canister filter is located in the engine compartment. The inline filter is located under the control console.

See parts manual or contact your Ditch Witch dealer for correct replacement filter.



t35om028w.eps

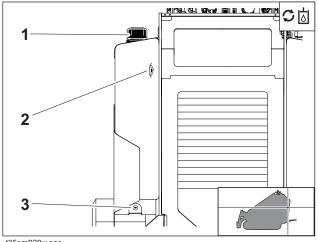


t35om030w.eps

Change Hydraulic Fluid and Filter

Change hydraulic fluid and filter every 500 hours. Change every 250 hours if jobsite temperature exceeds 100°F (38°C) more than 50% of the time.

- 1. Remove drain plug (3).
- 2. Drain fluid and replace plug.
- 3. Change filter. See page 64.
- 4. Add THF at fill (1) until fluid level is at halfway point on sight glass (2). Capacity is 9.2 gal (35 L).



t35om029w.eps

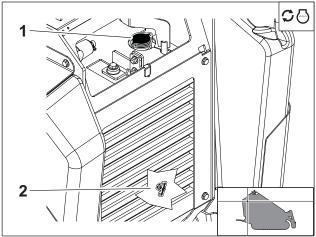
2000 Hour

Change Engine Coolant

Drain cooling system at drain (2). Add approved coolant at fill (1) every two years or 2000 hours.

NOTICE:

- The use of non-approved coolant may lead to engine damage or premature engine failure and will void engine warranty.
- See page 54 for list of approved coolants.



t35om031w.eps

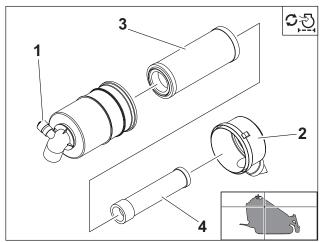
As Needed

| Location | Task | Notes |
|----------|-------------------|-------|
| | Change air filter | |
| | Check battery | |
| | Charge battery | |

Change Air Filter

Change air filter when red band on indicator (1) is visible. Replace safety element (4) every third change of primary filter (3) or any time primary element has become damaged.

- 1. Open air filter housing at latches (2).
- 2. Remove primary element (3).
- 3. Wipe inside of housing and end cup (2).
- 4. Insert new primary element.
- 5. Latch air filter case.
- 6. Reset air filter service indicator (1).



t35om032w.eps

Check Battery

Check battery as needed. Keep battery clean and terminals free of corrosion.

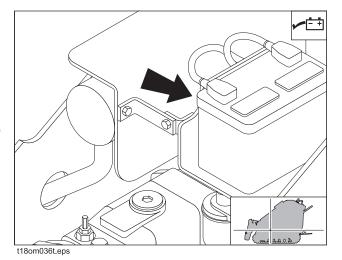
To clean:

- 1. Turn battery disconnect switch, if equipped, to the off position.
- Ensure that no ignition sources are near batteries.
- 3. Loosen and remove battery cable clamps carefully, **negative (-)** cable first.
- 4. Clean cable clamps and terminals to remove dull glaze.
- 5. Check for signs of internal corrosion in cables.
- 6. Apply MPG to terminals after cleaning to reduce corrosion.
- 7. Connect battery cable clamps, **positive (+)** cable first.
- 8. Tighten any loose connections.
- 9. Ensure that battery tiedowns are secure.
- 10. Turn battery disconnect switch to the on position.



EXPLOSION Explosion possible. Serious injury or equipment damage could occur. Follow directions carefully.

To help avoid injury: Do not create sparks and do not short across battery terminals for any reason.



Charge Battery



AWARNING Explosion possible. Serious injury or equipment damage could occur. Follow directions carefully.



To help avoid injury:

- Use a single 12V maximum source for charging. Do not connect to rapid chargers or dual batteries.
- Use caution and wear personal protective equipment such as safety eyewear, when charging or cleaning battery.
- Keep sparks, flames, and any ignition source away from batteries at all times. Internal contents are extremely hazardous. Leaking fluid is corrosive. Battery may be explosive at higher temperatures.
- NEVER lean over battery when making connections.
- Do not allow vehicles to touch when charging.
- Do not attempt to charge a battery that is leaking, bulging, heavily corroded, frozen, or otherwise damaged.
- NEVER short-circuit battery terminals for any reason or strike battery posts or cable terminals.
- Refer to MSDS for additional information regarding this battery.

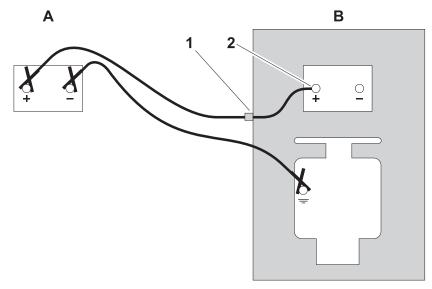
Before You Start

Electronic components can be easily damaged by electrical surges. Jump starting can damage electronics and electrical systems, and is not recommended. Try to charge the battery instead. Use quality large diameter jumper cables capable of carrying high currents (400 amps or more). Cheap cables may not allow enough current flow to charge a dead/discharged battery.

Read all steps thoroughly and review illustration before performing procedure.

Charging Procedure (Engine Off)

- 1. Park service vehicle close to disabled equipment but do not allow vehicles to touch. Engage parking brake in both vehicles.
- 2. Turn the ignition switch to the OFF position in both vehicles, and turn off all electrical loads. Disconnect the machine controller.



3. Inspect battery in disabled vehicle (B) for signs of cracking, bulging, leaking, or other damage. Connect red positive (+) jumper cable clamp to positive (+) post (2) of battery in disabled vehicle first.

IMPORTANT: Some equipment may have a positive jumper cable terminal (1) located externally. If so equipped, connect red positive (+) jumper cable clamp to terminal.

- 4. Connect the other red positive (+) jumper cable clamp to positive (+) post of battery (A) in the service vehicle.
- 5. Connect black negative (-) cable clamp to negative (-) post of battery (A) in service vehicle.
- 6. Connect the other black negative (-) cable clamp to the engine or frame ground on the disabled vehicle, at least 12" (305 mm) from the failed battery, as shown.
- 7. Operate service vehicle engine at 1500-2000 rpm for a few minutes to build an electrical charge in the failed battery.
- 8. Stop engine in service vehicle.
- 9. Remove jumper cables from the service vehicle, black negative (-) clamp first. Do not allow clamps to touch.
- 10. Remove black negative (-) cable clamp from the disabled engine or frame ground first.
- 11. Remove red positive (+) cable clamp from the disabled vehicle positive (+) battery post last.
- 12. Reconnect machine controller and try to start disabled vehicle.

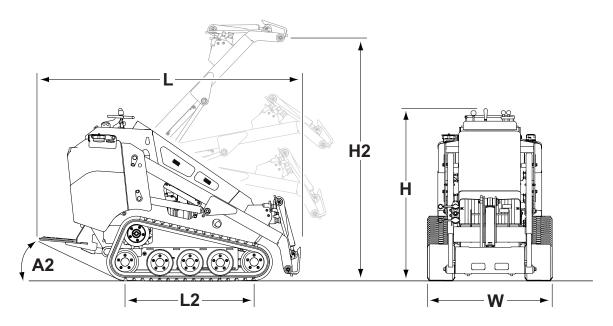
If the disabled vehicle did not start, check for loose or corroded battery cable connections. Poor connections will prevent current from charging the failed battery. Clean terminals and posts if necessary and repeat steps above.



Specifications

SK750/SK755 Basic Unit





| Dimensions | | U.S. | Metric |
|------------|---|-----------------|--------------------|
| H2 | Hinge pin height, max | 81 in | 2057 mm |
| | Operating height, max, standard bucket | 103 in | 2615 mm |
| Н | Overall height of machine | 57 in | 1450 mm |
| L | Overall length of loader, no attachment | 86 in | 2190 mm |
| | Overall length of machine, with standard bucket | 105 in | 1670 mm |
| L2 | Wheelbase/track length | 43 in | 1092 mm |
| A2 | Angle of departure | 27° | 27° |
| | Ground clearance, min (center/side) | 8.9 in / 3.7 in | 170 mm / 124 mm |
| W | Track width, max | 42 in | 1065 mm |
| | Track width, min | 36 in | 914 mm |
| | Unit width, excluding tracks | 35 in | 890 mm |
| | Dump height, max, with standard bucket | 64 in | 1626 mm |
| | Reach, standard bucket at max dump height | 17 in | 430 mm |

| Dimensions | U.S. | Metric |
|--|-------|---------|
| Bucket rollback angle, ground level | 25° | 25° |
| Bucket rollback angle, full height | 90° | 90° |
| Dump angle, standard bucket at max dump height | 35° | 35° |
| Bucket width, max | 44 in | 1120 mm |
| Bucket width, min | 36 in | 915 mm |
| Swing radius, max, with standard bucket | 65 in | 1650 mm |
| Swing radius, no attachment | 44 in | 1120 mm |
| Rear overhang, max | 29 in | 735 mm |

| Performance | U.S. | Metric |
|--|---------|----------|
| Ground drive speed, forward and reverse | 4.7 mph | 7.6 km/h |
| Ground pressure, 7" (180 mm) tracks * | 4.8 psi | 0.33 bar |
| Ground pressure, 9" (230 mm) tracks * | 3.8 psi | 0.26 bar |
| Tipping capacity | 2285 lb | 1039 kg |
| The rated operating capacity for this machine was determined using a standard bucket in the drive position with center of gravity 7 in (18 cm) from the mounting plate. Depending on the attachment, the actual operating capacity of the attachment may vary. | | |
| Operating capacity (35% of tipping capacity) | 800 lb | 364 kg |
| Machine weight (no attachment, fluids full) | 2890 lb | 1314 kg |
| * Includes associate variable 475 lb (00 les) burdent 405 lb (75 les) associate | | |

* Includes machine weight, 175-lb (80-kg) bucket, 165-lb (75-kg) operator

Battery

SAE reserve capacity 110 min, SAE cold crank @ 0°F (-18°C) 800 amp, 12V electrical system

| Fluid Capacities | U.S. | Metric |
|-------------------------|----------|--------|
| Fuel tank | 10.5 gal | 40 L |
| Engine oil, with filter | 4.2 qt | 4 L |
| Hydraulic reservoir | 9.2 gal | 35 L |

Specifications are called out according to SAE recommended practices. Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.



SK750 Power Specifications

| Power | U.S. | Metric | | |
|---|----------------------|----------|--|--|
| Engine: Kubota D1105, diesel, EPA Tier 4, EU Stage IIIa | | | | |
| Number of cylinders | 3 | | | |
| Displacement | 68.5 in ³ | 1.12 L | | |
| Bore | 3.07 in | 78 mm | | |
| Stroke | 3.09 in | 78.4 mm | | |
| Manufacturer's gross power rating (per SAE J1955) | 23.1 hp | 17.2 kW | | |
| Estimated net power rating (per SAE 1348) | 31.5 hp | 23.5 kW | | |
| Rated engine speed | 3000 rpm | 3000 rpm | | |



| Hydraulic System | U.S. | Metric |
|------------------------------|----------|----------|
| Auxiliary: double gear pump | | |
| Flow rate (pump 1) | 6.5 gpm | 24 L/min |
| Flow rate (pump 2) | 5.5 gpm | 21 L/min |
| Pressure | 3000 psi | 207 bar |
| Ground drive: dual hydrostat | | |
| Flow rate | 13.9 gpm | 52 L/min |
| Pressure | 3500 psi | 241 bar |

Noise Levels

Operator 87 dBA sound pressure per ISO 6394 Exterior 100 dBA sound power per ISO 6393

Vibration Level

Average vibration transmitted to the operator's hand during normal operation with a loader bucket is 4.31 m/sec^{2.} Average vibration transmitted to the whole body during normal operation with a loader bucket is 1.07 m/sec². Actual vibration will depend upon the attachment being used.

Specifications are called out according to SAE recommended practices. Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.



SK755 Power Specifications

| Power | U.S. | Metric | | |
|---|----------------------|----------|--|--|
| Engine: Kubota D1105-T, diesel, EPA Tier 4, EU Stage IIIa | | | | |
| Number of cylinders | 3 | | | |
| Displacement | 68.5 in ³ | 1.12 L | | |
| Bore | 3.07 in | 78 mm | | |
| Stroke | 3.09 in | 78.4 mm | | |
| Manufacturer's gross power rating (per SAE J1955) | 32.8 hp | 24.5 kW | | |
| Estimated net power rating (per SAE 1348) | 31.5 hp | 23.5 kW | | |
| Rated engine speed | 3000 rpm | 3000 rpm | | |
| Maximum tilt angle, fore and aft | 30° | 30° | | |
| Maximum tilt angle, side to side | 30° | 30° | | |

^{*} Exceeding these operating angles will cause engine damage. This DOES NOT imply that the machine is stable to maximum angle of safe engine operation.

| Hydraulic System | U.S. | Metric |
|------------------------------|----------|----------|
| Auxiliary: double gear pump | | |
| Flow rate (pump 1) | 8.0 gpm | 30 L/min |
| Flow rate (pump 2) | 5.5 gpm | 21 L/min |
| Pressure | 3000 psi | 207 bar |
| Ground drive: dual hydrostat | | |
| Flow rate | 13.9 gpm | 52 L/min |
| Pressure | 3500 psi | 241 bar |

Noise Levels

Operator 87 dBA sound pressure per ISO 6394 Exterior 101 dBA sound power per ISO 6393

Vibration Level

Vibration at the operator's hand during normal operation is 4.31 m/sec² Vibration at the operator's foot during normal operation is 1.07 m/sec²

Specifications are called out according to SAE recommended practices. Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.

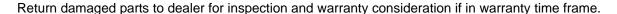


Support

Procedure

Notify your dealer immediately of any malfunction or failure of Ditch Witch® equipment.

Always give model, serial number, and approximate date of your equipment purchase. This information should be recorded and placed on file by the owner at the time of purchase.



Order genuine Ditch Witch replacement or repair parts from your authorized Ditch Witch dealer. Use of another manufacturer's parts may void warranty consideration.



Publications

Contact your Ditch Witch dealer for publications and videos covering safety, operation, service, and repair of your equipment.

Ditch Witch® Training

For information about on-site, individualized training, contact your Ditch Witch dealer.



Warranty

Ditch Witch® Equipment and Replacement Parts Limited Warranty Policy

Subject to the limitation and exclusions herein, free replacement parts will be provided at any authorized Ditch Witch dealership for any Ditch Witch equipment or parts manufactured by The Charles Machine Works, Inc. (CMW) that fail due to a defect in material or workmanship within one (1) year of first commercial use. Free labor will be provided at any authorized Ditch Witch dealership for installation of parts under this warranty during the first year following "initial commercial" use of the serial-numbered Ditch Witch equipment on which it is installed. The customer is responsible for transporting their equipment to an authorized Ditch Witch dealership for all warranty work.

Exclusions from Product Warranty

- All incidental or consequential damages.
- All defects, damages, or injuries caused by misuse, abuse, improper installation, alteration, neglect, or uses other than those for which products were intended.
- All defects, damages, or injuries caused by improper training, operation, or servicing of products in a manner inconsistent with manufacturer's recommendations.
- All engines and engine accessories (these are covered by original manufacturer's warranty).
- Tires, belts, and other parts which may be subject to another manufacturer's warranty (such warranty will be available to purchaser).
- ALL IMPLIED WARRANTIES NOT EXPRESSLY STATED HEREIN, INCLUDING ANY WARRANTY OF FITNESS FOR A
 PARTICULAR PURPOSE AND MERCHANTABILITY.

IF THE PRODUCTS ARE PURCHASED FOR COMMERCIAL PURPOSES, AS DEFINED BY THE UNIFORM COMMERCIAL CODE, THEN THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF AND THERE ARE NO IMPLIED WARRANTIES OF ANY KIND WHICH EXTEND TO A COMMERCIAL BUYER. ALL OTHER PROVISIONS OF THIS LIMITED WARRANTY APPLY INCLUDING THE DUTIES IMPOSED.

Ditch Witch products have been tested to deliver acceptable performance in most conditions. This does not imply they will deliver acceptable performance in all conditions. Therefore, to assure suitability, products should be operated under anticipated working conditions prior to purchase.

Defects will be determined by an inspection within thirty (30) days of the date of failure of the product or part by CMW or its authorized dealer. CMW will provide the location of its inspection facilities or its nearest authorized dealer upon inquiry. CMW reserves the right to supply remanufactured replacements parts under this warranty as it deems appropriate.

Extended warranties are available upon request from your local Ditch Witch dealer or CMW.

Some states do not allow exclusion or limitation of incidental or consequential damages, so above limitation of exclusion may not apply. Further, some states do not allow exclusion of or limitation of how long an implied warranty lasts, so the above limitation may not apply. This limited warranty gives product owner specific legal rights and the product owner may also have other rights which vary from state to state.

For information regarding this limited warranty, contact CMW's Product Support department, P.O. Box 66, Perry, OK 73077-0066, or contact your local Ditch Witch dealer.

First version: 1/91; Latest version: 11/11



Ditch Witch A Note To

Equipment Owners:

If your equipment was purchased through a Ditch Witch dealer, there is no need to read further. However, if you purchased from any other source, please fill out the form on the reverse side and return it to us. This will enable you to receive updates on this equipment as well as information on new products of interest.

Thanks for using Ditch Witch equipment.

(Please Fold Along This Line And Seal At Bottom With Tape)



IN THE UNITED STATES NO POSTAGE Necessary If Mailed



BUSINESS REPLY MAIL

FIRST CLASS

PERMIT NO 23 PERRY OKLAHOMA

POSTAGE WILL BE PAID BY

The Charles Machine Works, Inc. Perry, Oklahoma 73077-9989 P.O. Box 66

Ditch Witch A Note To

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PERMIT NO 23 PERRY OKLAHOMA

FIRST CLASS

POSTAGE WILL BE PAID BY

BUSINESS REPLY MAIL

The Charles Machine Works, Inc. Perry, Oklahoma 73077-9989 P.O. Box 66

Ditch Witch Registration Card Please Type or Print All Information

| Purchaser's Company Name Attention Street Address or P.O. Box City Model Attachments/Accessories Attachments/Accessories Salate Salate State State | iser's Company Name | Address or P.O. Box County | | Serial Number | ments/Accessories Serial Numbers | ments/Accessories Serial Numbers | Attachments/Accessories Serial Numbers | Name of Ditch Witch Dealership |
|---|---------------------|----------------------------|--|---------------|----------------------------------|----------------------------------|--|--------------------------------|
|---|---------------------|----------------------------|--|---------------|----------------------------------|----------------------------------|--|--------------------------------|

Your Signature

Ditch Witch Registration Card Please Type or Print All Information

| Purchaser's Company Name | | |
|--------------------------------|----------------|--------|
| Attention | | |
| Street Address or P.O. Box | | |
| City | 00 | County |
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| Name of Ditch Witch Dealership | | |
| Your Signature | | |

Service Record

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