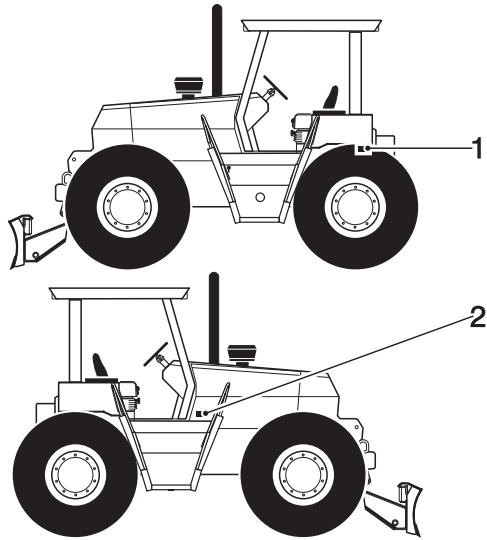


SUPPORT

SERIAL NUMBER RECORD

Record serial numbers and date of purchase in spaces provided. Tractor (1) and engine serial numbers (2) are located as shown.



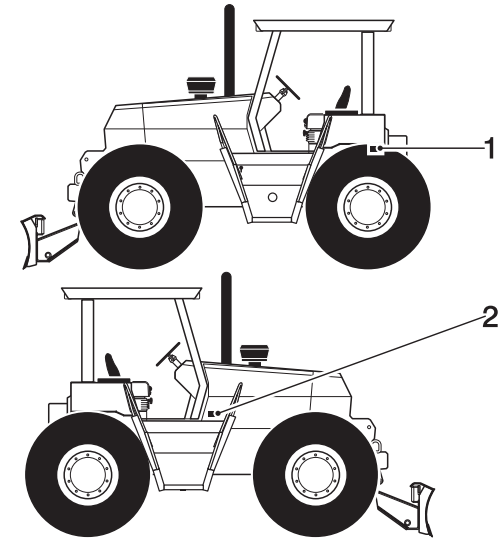
om0125h

Date of manufacture:	
Date of purchase:	
Tractor serial number:	
Front attachment serial number:	
Rear attachment serial number:	
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om0125h

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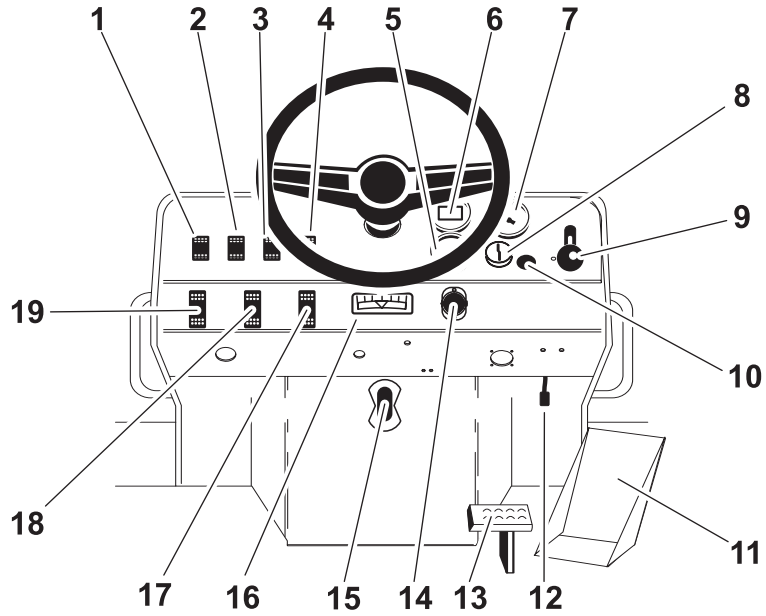


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CONTROLS

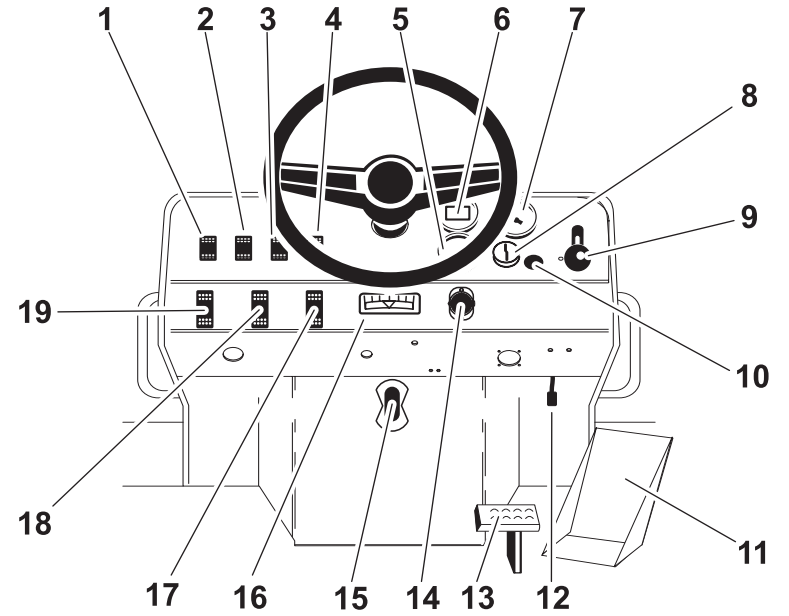
CONTROL CONSOLE OVERVIEW



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CONTROLS

CONTROL CONSOLE OVERVIEW

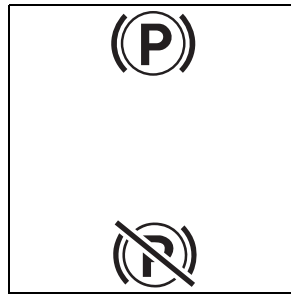


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Parking Brake Switch

This switch controls parking brake.

- Press top to set. Indicator will light.
- Press bottom to release.



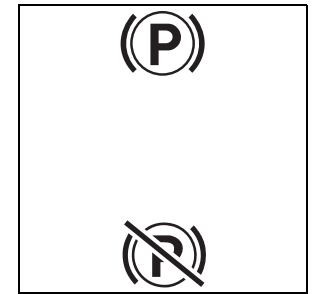
ic0160h.eps

IMPORTANT: Tractor will not move when parking brake is engaged.

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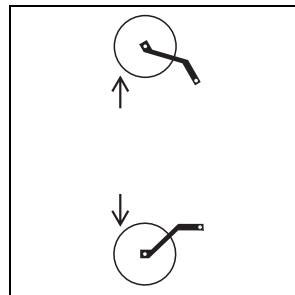
ic0160h.eps

IMPORTANT: Tractor will not move when parking brake is engaged.

Reel Carrier Control

This optional switch controls reel carrier.

- Press top to raise.
- Press bottom to lower.

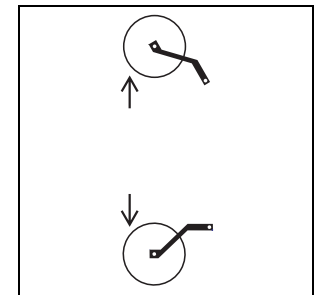


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Reel Carrier Control

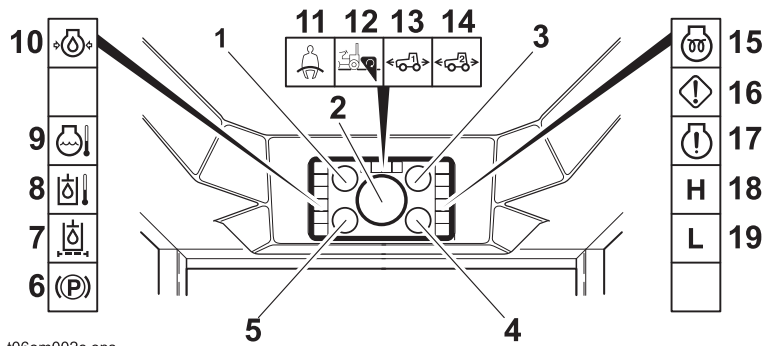
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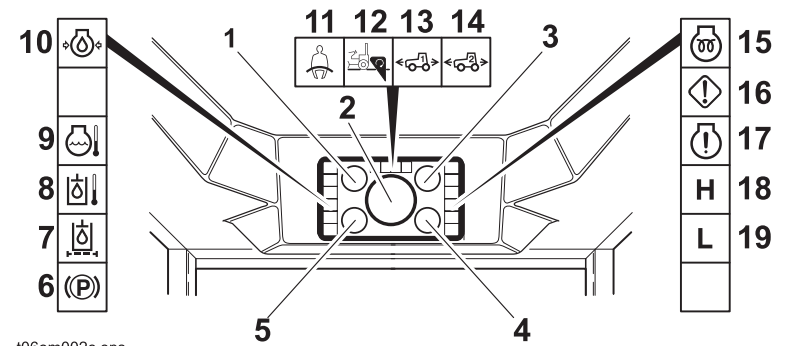
OVERHEAD CONSOLE OVERVIEW



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- | | |
|--|---------------------------------------|
| 1. Voltmeter | 11. Operator presence indicator |
| 2. Tachometer/Hourmeter | 12. Attachment neutral indicator |
| 3. Coolant temperature gauge | 13. Ground drive neutral indicator 1 |
| 4. Engine oil pressure gauge | 14. Ground drive neutral indicator 2 |
| 5. Fuel gauge | 15. Cold start wait indicator |
| 6. Parking brake indicator | 16. Operator alert indicator |
| 7. Hydraulic filter service indicator | 17. Engine shutdown indicator |
| 8. Hydraulic fluid temperature indicator | 18. Ground drive high speed indicator |
| 9. Coolant temperature indicator | 19. Ground drive low speed indicator |
| 10. Engine oil pressure indicator | |

OVERHEAD CONSOLE OVERVIEW



t06om002c.eps

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SAFETY

Follow these guidelines before operating any jobsite equipment:

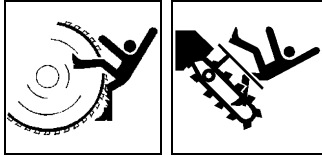
- Complete proper training and read operator's manual before using equipment.
- Contact One-Call (888-258-0808) and any utility companies which do not subscribe to One-Call. Have all underground pipes and cables located and marked before operating equipment. If you damage a utility, contact utility company.
- 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 is present.
- Contact your Ditch Witch dealer if you have any question about operation, maintenance, or equipment use.

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SAFETY ALERTS



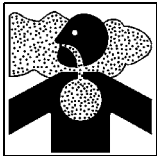
⚠ DANGER Moving digging teeth will kill you or cut off arm or leg. Stay away.



⚠ DANGER Turning shaft will kill you or crush arm or leg. Stay away.

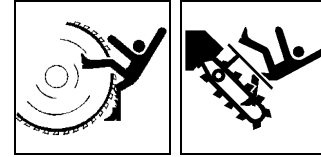


⚠ DANGER Electric shock. Contacting electric lines will cause death or serious injury. Know location of lines and stay away.



⚠ DANGER Deadly gases. Lack of oxygen or presence of gas will cause sickness or death. Provide ventilation.

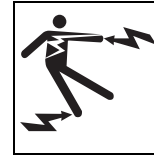
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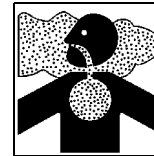
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OPERATION

EMERGENCY SHUTDOWN: Turn ignition switch to STOP.

1. Turn on lights and warning flasher, as needed.
2. Raise backfill blade and all attachments.
3. Release parking brake and verify parking brake indicator is off.
4. Adjust throttle.
5. Move ground drive control to forward or reverse.



sf1001

WARNING Moving traffic – hazardous situation. Death or serious injury could result. Avoid moving vehicles, wear high visibility clothing, post appropriate warning signs.

NOTICE:

- Drive carefully in congested areas. Know machine's clearance and turning radius.
- Keep attachments low when operating on slope. Drive slowly and cautiously.

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TOW



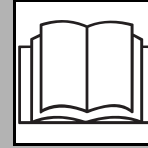
WARNING

Incorrect procedures could result in death, injury, or property damage. Learn to use equipment correctly.

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

- Tow for short distances at less than 1 mph (1.6 km/h).
- Do not tow for more than 200 yd (183 m).
- Steering will be very difficult.

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5. Increase engine speed to full throttle.
6. Slowly lower digging boom to depth.
7. Raise backfill blade.
8. Release parking brake and verify parking brake indicator is off.
9. Move ground drive control to desired speed.
10. If using optional trench cleaner, return ground drive control to neutral when desired trench depth is reached. Raise boom slightly, then lower trench cleaner completely. This ensures trench cleaner will lock in place.

NOTICE:

- Do not have trench cleaner in working position when starting a trench.
- Do not back up with trench cleaner in working position.
- Do not use trench cleaner in conditions where large rocks can get between chain and cleaner.

11. Lower boom to trench depth and push ground drive control forward to trenching speed.
12. Adjust throttle.
13. When trench is complete, move ground drive control to neutral.
14. Adjust throttle to low idle.

EMERGENCY SHUTDOWN - Turn ignition switch to STOP.

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SETUP



WARNING Crushing weight could cause death or serious injury. Use proper procedures and equipment or stay away.

NOTICE:

- Plow will swing freely in float.
- Keep everyone at least 6' (2 m) from machine, attachments, and their range of movement.



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

NOTICE: Comply with all utility notification regulations before digging or drilling.



WARNING Incorrect procedures could result in death, injury, or property damage. Learn to use equipment correctly.

NOTICE:

- Use attachments or counterweights to make front and rear loads balance when all attachments are raised. Contact your Ditch Witch dealer about counterweighting for your equipment.
- Do not operate vibrator unless plow is in ground.

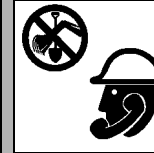
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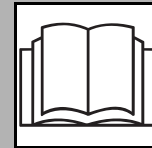
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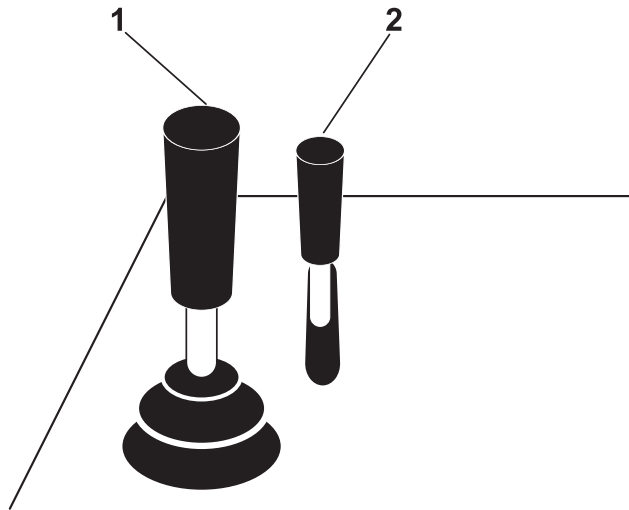


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REEL WINDER ATTACHMENT

REEL WINDER CONTROLS OVERVIEW



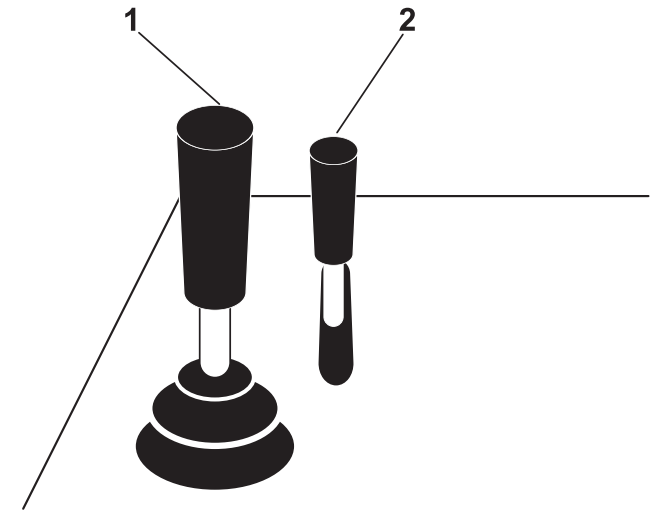
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1. Reel winder lift control (backfill blade control)
2. Reel winder speed/direction control

IMPORTANT: Selector switch on console changes function of backfill blade control to reel winder lift control (if equipped).

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t06om029c.eps

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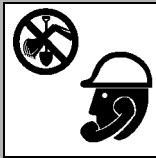
SETUP

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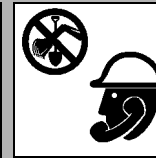
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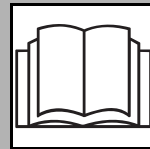
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SERVICE

Proper lubrication and maintenance protects Ditch Witch equipment from damage and failure. In extreme conditions, service machine more frequently.

Use only recommended lubricants. Fill to capacities listed in **SPECIFICATIONS**.

Recommended Lubricants	
DEO	John Deere Plus-50 [®] or equivalent multi-viscosity diesel engine oils meeting ACEA specification E4/E5. Other multi-viscosity diesel engine oils meeting API classifications CI-C4, CH-4, or ACEA E3 may be used, but only with 250 hour change intervals .
MPG	Multipurpose grease
EPG	Extreme pressure grease
MPL	Multipurpose gear oil (SAE 80W90) meeting API service classification GL-5
BRAKE	DOT 3 brake fluid
THF	Tractor hydraulic fluid, similar to Phillips 66 HG, Mobilfluid 423, Chevron Tractor Hydraulic Fluid, Texaco TDH Oil, or equivalent
DEAC	Diesel engine antifreeze/coolant meeting ASTM D5345 (prediluted) or D4985 (concentrate) with SCAs meeting John Deere JDM H24A2

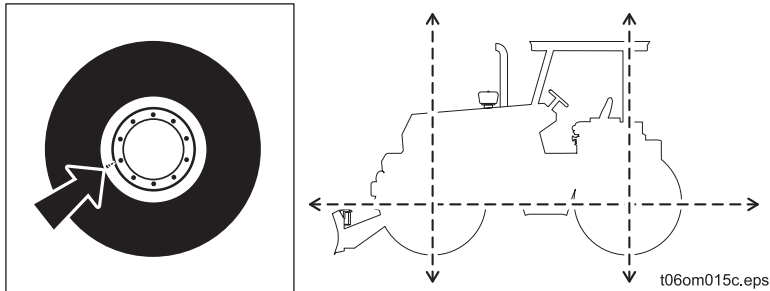
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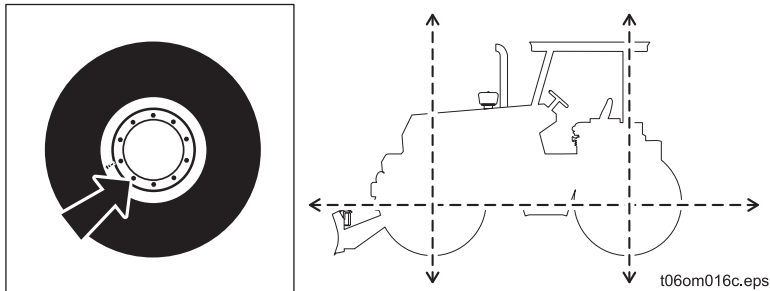
Check Tire Pressure



Check tire pressure every 10 hours. Inflate to 55 psi (3.8 bar).

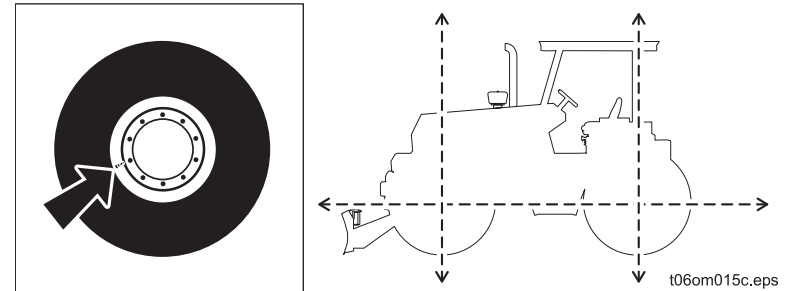
NOTICE: Tire inflation may vary depending upon attachments. Contact Trencher Product Support for more information.

Check Wheel Lug Nuts



Check tightness of wheel lug nuts every 10 hours. Tighten lug nuts to 400 ft•lb (542 N•m).

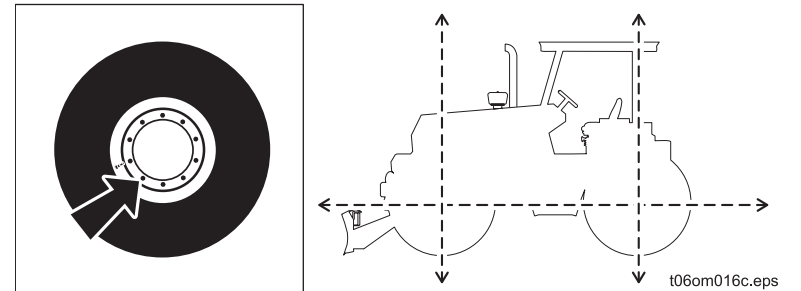
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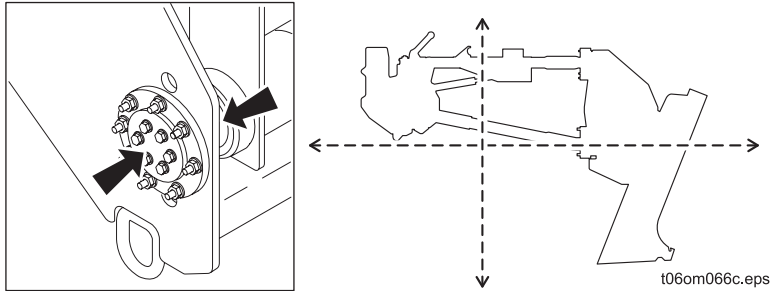
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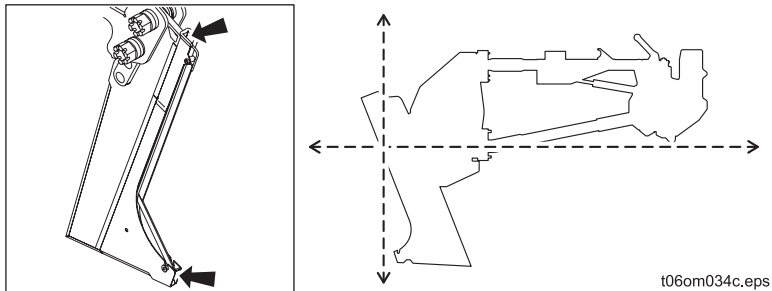
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Check Plow Pitch Pivots



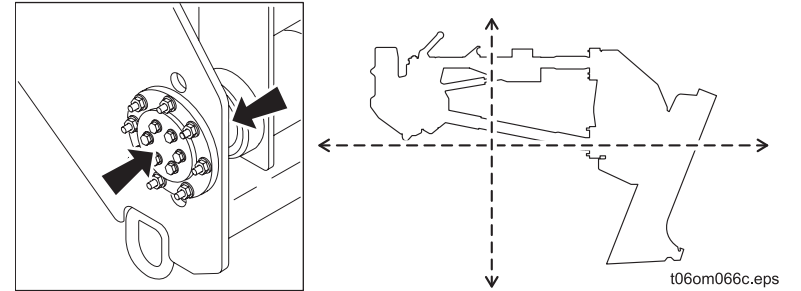
Visually check pivots every 10 hours for wear or damage.

Clean Plow Feed Tube



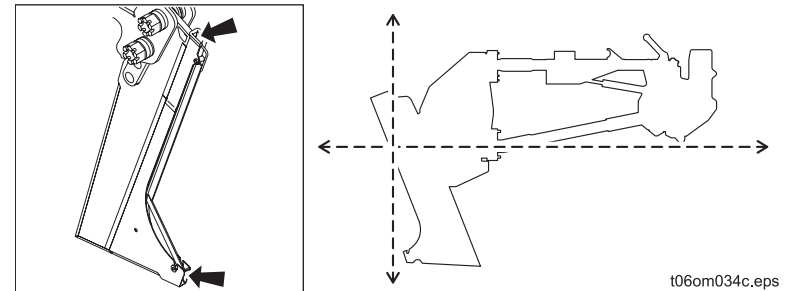
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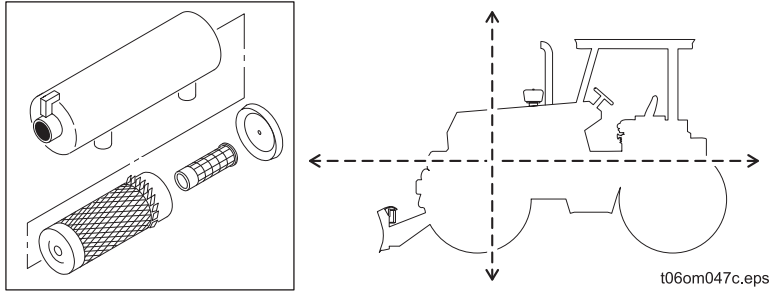
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Check Air Filter

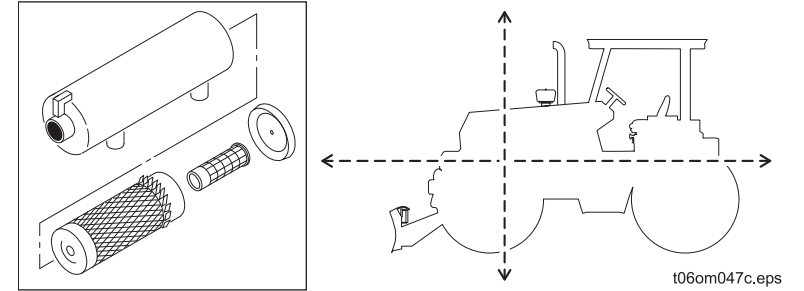


Check air filter and suction hose every 100 hours of operation. Check more often if working in dusty conditions. Change when yellow band in indicator reaches red line.

To change:

- Open air filter housing.
- Remove primary and safety elements.
- Clean inside of housing and wash end cup.
- Install new filter elements.
- Close air filter case.
- Reset air filter service indicator.

Check Air Filter

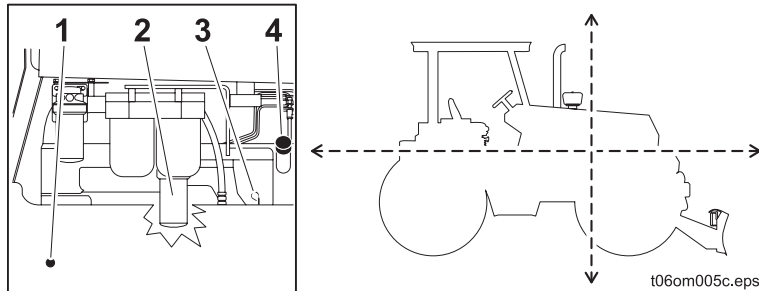


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Change Engine Oil and Filter



Change engine oil and filter every 500 hours of operation.

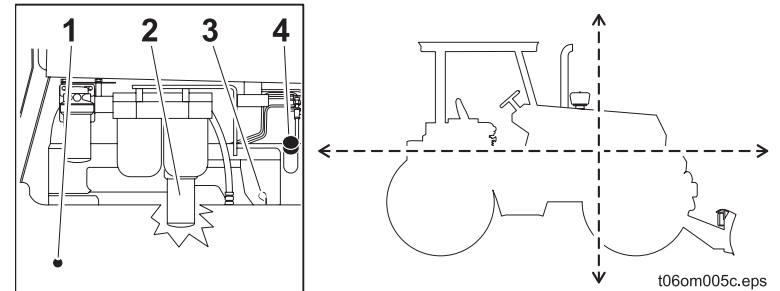
To change:

- While oil is warm, remove drain plug (1). Drain oil and replace plug.
- Remove filter (2) and replace with new filter each time oil is changed.
- Refill with DEO at fill neck (4).

NOTICE:

- Regular oil change interval is 500 hours only if using John Deere Plus-50[®] or ACEA E4/E5.
- Oil change interval is 250 hours when using alternative oils meeting API service classifications CI-4, CH-4, or ACEA E3.
- See "Recommended Lubricants" for more information about DEO specifications.

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NOTICE:

- Coolant change interval depends on coolant used and whether SCA levels are properly maintained. Read note above carefully to ensure coolant is changed at the correct interval.
- The use of non-approved coolant may lead to engine damage or premature engine failure and will void engine warranty.
- See "Approved Coolants" earlier in this chapter for list of approved coolants.

NOTICE:

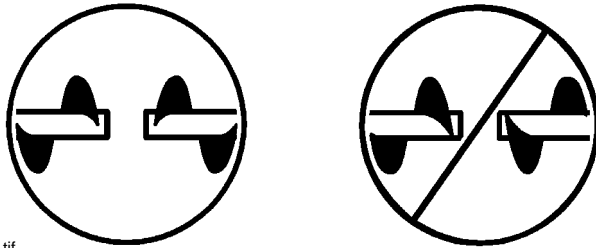
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- See "Approved Coolants" earlier in this chapter for list of approved coolants.

Adjust Auger Timing

Ensure that augers are balanced, as shown. If auger timing is off, unit will bounce from side to side even in normal digging conditions.

To adjust timing:

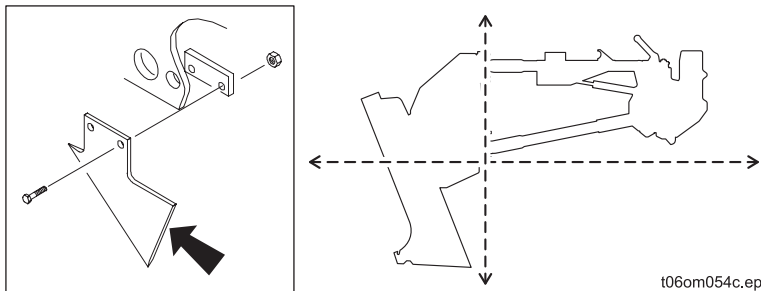
- Remove bolts holding augers to auger shaft and rotate either auger as needed until augers are balanced.
- Reinstall bolts and tighten securely.



g6jmg01h.tif

Plow

Replace Sod Cutter



t06om054c.eps

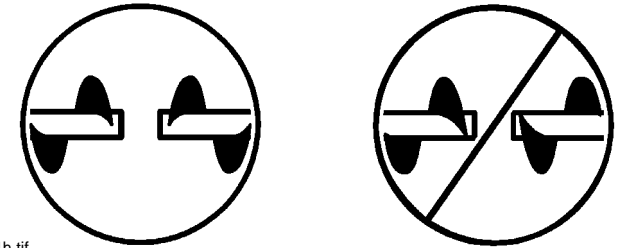
Replace worn sod cutter as needed.

Adjust Auger Timing

Ensure that augers are balanced, as shown. If auger timing is off, unit will bounce from side to side even in normal digging conditions.

To adjust timing:

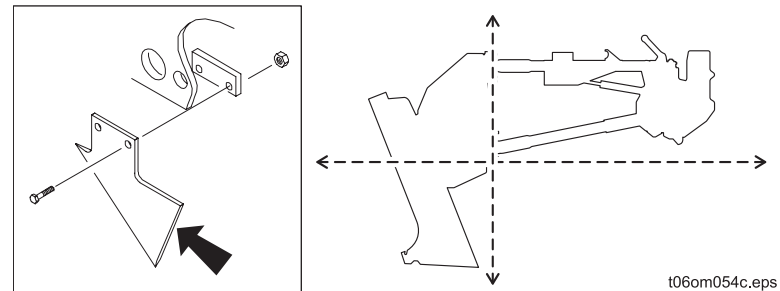
- Remove bolts holding augers to auger shaft and rotate either auger as needed until augers are balanced.
- Reinstall bolts and tighten securely.



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Plow

Replace Sod Cutter



t06om054c.eps

Replace worn sod cutter as needed.

Two-line diagnostic code	Blink Code	Definition	Possible cause
SPN 1078, FMI 7	95	ECU/pump timing moderately out of sync	
SPN 1078, FMI 11	87	ECU/pump speed out of sync	
SPN 1078, FMI 31	94	ECU/pump timing extremely out of sync	
SPN 1079, FMI 3	21	sensor supply voltage high	
SPN 1079, FMI 4	22	sensor supply voltage low	ECU, wiring
SPN 1080, FMI 3	51	sensor supply voltage high	
SPN 1080, FMI 4	52	sensor supply voltage low	
SPN 1109, FMI 31		engine shutdown warning	various
SPN 1110, FMI 31	82	engine shutdown	various
SPN 1485, FMI 2	89	pump power relay fault	
SPN 1569, FMI 31	47	fuel derate	various
SPN 2000, FMI 13		security violation	ECU programming

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