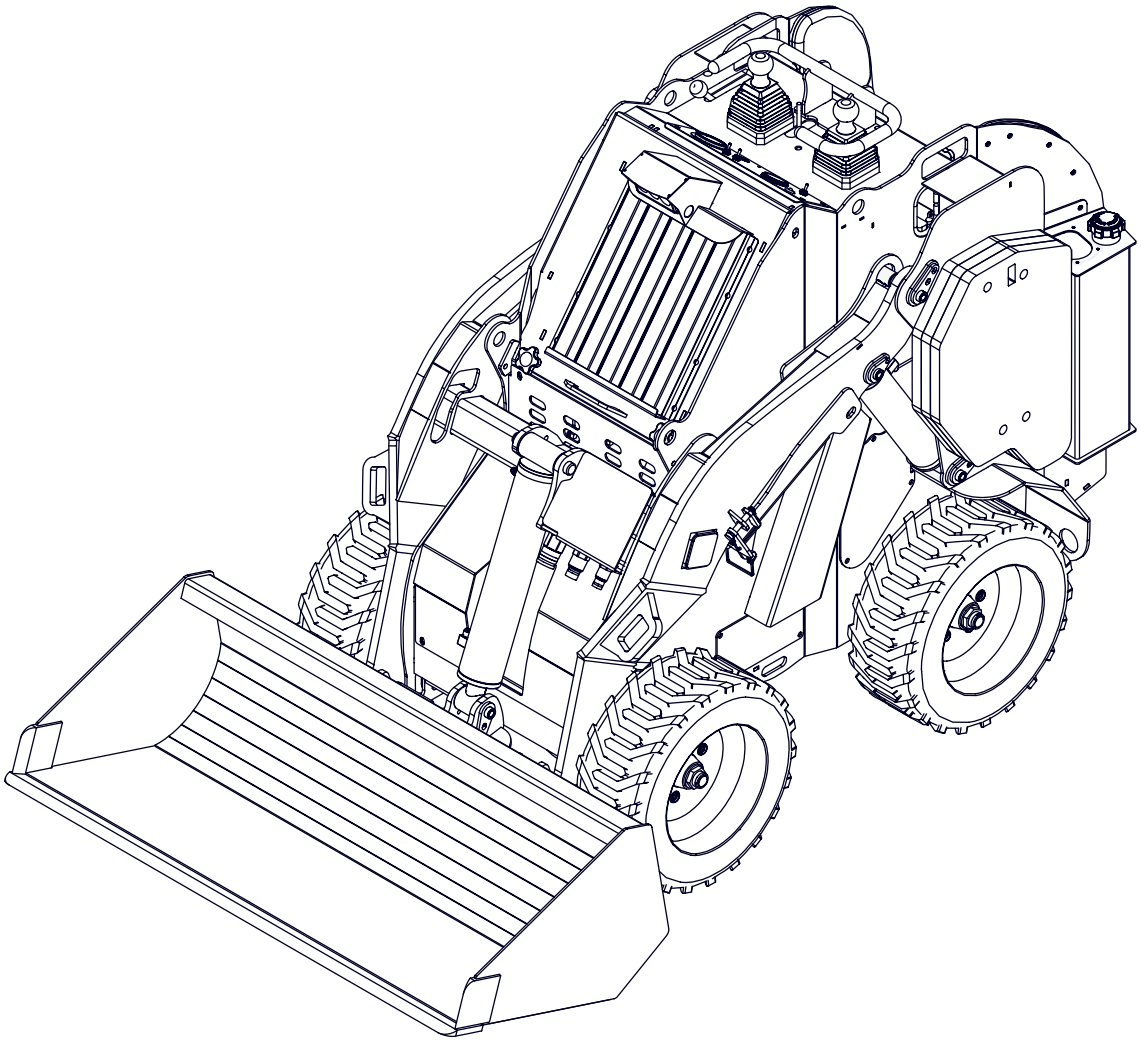


BAUMALIGHT™

WRL58G Wheeled Mini Skidsteer

OPERATOR'S MANUAL

Issue Date: October 2026

⚠ WARNING

Breathing engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always start and operate the engine in a well-ventilated area.

If in an enclosed area, vent the exhaust to the outside.

Do not modify or tamper with the exhaust system.

Do not idle the engine except as necessary.

For more information go to www.P65Warnings.ca.gov.

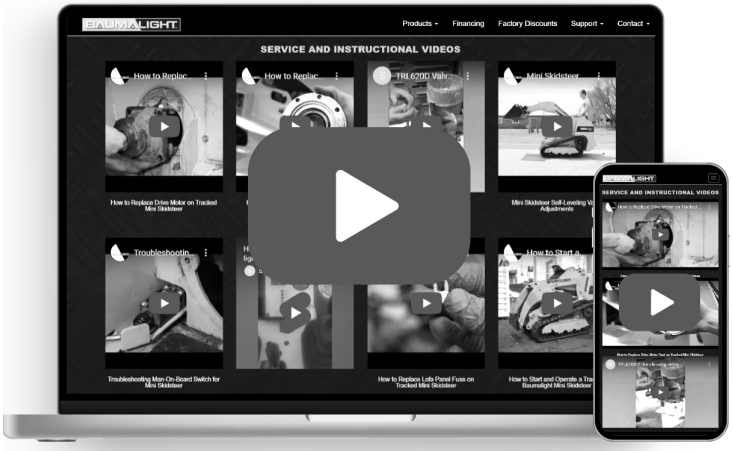
⚠ WARNING

Batteries, battery posts, battery terminals, and related accessories can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

See below for recommended hydraulic fluid.

AW46: 32° to 95° F (0° to +35° C)
AW32: 14° to 68° F (-10° to +20° C)
MV22: -47° to 77° F (-44° to +25° C) .



Service And Instructional Videos

Find online at baumalight.com/support

Following is a list of videos and documents available on Baumalights website and also on YouTube to help and enhance maintaining the skidsteer. The list below was current at the time this manual was issued. Additional content may be available.

Activity ID Number	Activity Name	Description	Item Available
32	Tips.	Starting And Operating Unit.	Video
315	Hydraulic Motor.	Breaking In Replacement Hydraulic Motor Or Pump.	Video
338	Pressure Lock.	Relieving Hydraulic Coupler Pressure Lock.	Video
305	Plate Adaptors.	Difference Between Plate And Adaptor Options.	Video
291	Erratic Driving.	One Side Will Not Stop Driving.	Video / Document
254	Boom Valve.	Adjust Pressure Relief.	Video
250	Informational Testing Process.	Breakout Force And Tipping Point Testing Process.	Video
246	Valve Repair.	Install D006744 Spring To Center Kit For Aux Lever.	Video
248	Drive Pump Seal.	Replacing Drive Pump Seal.	Video
223	First Things To Check Machine Does Not Turn.	Check If Sprocket Is Spinning - Key Is Sheared.	Video
222	Engine Bogging Down.	Preventing Engine From Bogging Down While In Bulldozing Mode.	Video
213	Engine Bogging Down.	Trouble With Engine Bogging Down In Bulldozer Mode.	Document
214	Trouble Shooting Movement In Neutral.	Mini Skidsteer Moves When Joystick Is In Neutral Or Does Not Drive Straight.	Document

Activity ID Number	Activity Name	Description	Item Available
208	Adjust Ground Speed.	Adjust Speed On Drive Pump.	Document
195	Mini Plate Check.	Check Plate Adaptor Dimensions.	Document
184	Remove And Install Boom Valve.	Boom Valve Replacement.	Document
162	Replacing Seal.	Replacing Drive Motor Seal.	Video / Document
153	Valve Repair.	Cleaning Stem On Boom Valve.	Video / Document
125	Valve Repair.	Spool Valve Parts For D003723.	Document
126	Valve Repair.	3 Spool Section Valve D003723.	Document
92	Troubleshooting.	Taking Apart Man-On-Board Switch.	Video
1	Replace Hydraulic Cooler.	Remove Old Cooler.	Video
2	Replace Hydraulic Cooler.	Install New Hydraulic Cooler.	Video
65	Troubleshooting.	Unable To Lift Boom.	Video
30	Troubleshooting.	Unable To Drive.	Video
24	Leaks.	Tracing Leaks.	Video
18	Replacing Fuse.	Locate And Replace Engine Fuse.	Video
25	Replacing Drive Pump.	Removing Drive Pump.	Video
26	Replacing Drive Pump.	Installing New Drive Pump.	Video
28	Valve Repair.	Reassembling Float Spool In Boom Valve.	Video
29	Valve Repair.	Troubleshooting Sagging Boom.	Video
473	Communicating Measurements.	Why Not To Send Pictures Of Measuring Tapes To Communicate Measurements.	Video
434	Hydraulic Cylinder.	Replacing Seals On Hydraulic Cylinder.	Video
418	Adding New Joystick Handle D007225.	Steps For Adding In Joystick Handle On Boom Valve.	Document

Activity ID Number	Activity Name	Description	Item Available
370	Electrical Aux Plug.	How To Install Electrical Aux Plug.	Video
248	Drive Pump Seal.	Replacing Drive Pump Seal.	Video
344	Drive Motor Ports.	Turning Drive Motor Ports Different Direction.	Video
162	Replacing Seal.	Replacing Drive Motor Seal.	Video

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1 INTRODUCTION

1.1 Overview

Congratulations on your choice of a Baumalight Wheeled Mini Skidsteer. This equipment has been designed and manufactured to meet the needs of a discriminating buyer for efficient operation.

Safe, efficient and trouble free operation of your skidsteer requires that you and anyone else who will be operating or maintaining the skidsteer, read and understand this Operator's Manual.

This manual covers the Baumalight Wheeled Mini Skidsteer WRL58G. Use the Table of Contents as a guide to locate required information.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Contact your Baumalight dealer if you need assistance, information or additional copies of the manuals.

When this machine is worn out and no longer in use, it should be returned to the retailer or other party for recycling.

OPERATOR ORIENTATION - The directions left, right, front and rear, as mentioned throughout this manual, are as seen from the operator's platform and facing in the direction of travel.

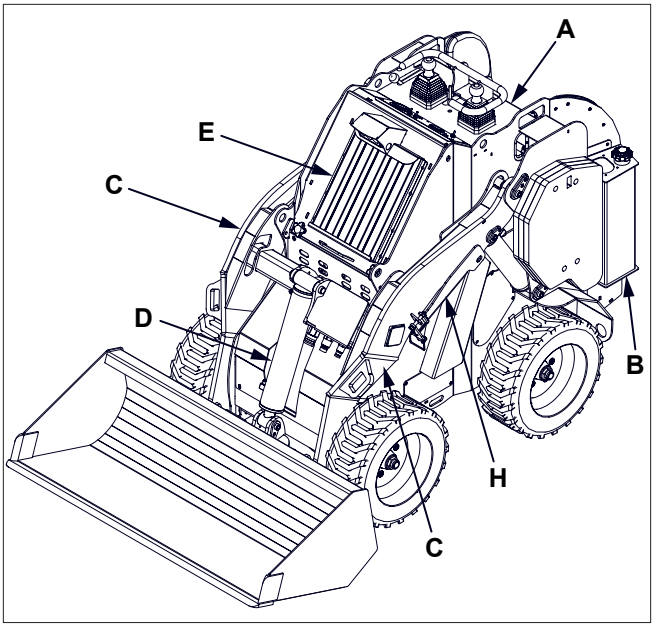
1.2 Intended Use And Foreseeable Misuse

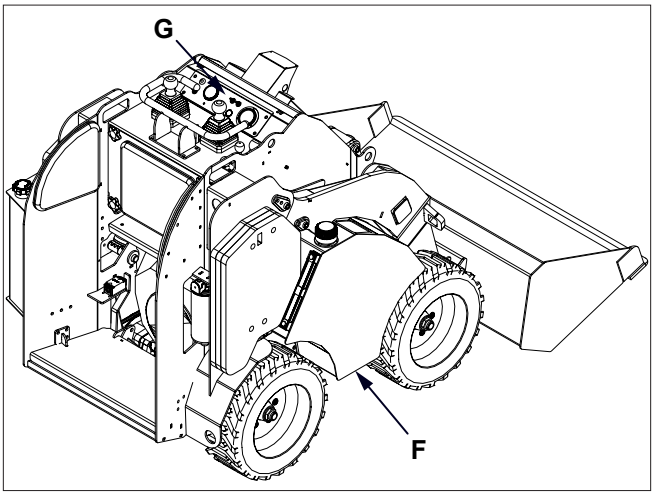
The skidsteer is designed to be used by experienced operators, trained in the safe operation and hazards related to using the skidsteer and the safe use of the skidsteer for the intended purpose. Operators will require personal protective equipment to reduce the risk from some hazards that cannot be completely eliminated or controlled by the design of the skidsteer.

The skidsteer is not designed for use in hazardous atmospheres where there is a risk of fire or explosion due to flammable gases or vapors. Use in hazardous, explosive atmospheres is prohibited.

Serious injury or death of the operator or bystanders may be caused if the skidsteer is misused. Misuse may also cause damage to the attachment skidsteer is carrying.

1.3 Components





A. Operators Station
B. Fuel Tank
C. Lift Arm
D. Attachment Tilt Cylinder
E. Hydraulic Cooler Vent Screen
F. Hydraulic Fluid Tank
G. Instrument Panel
H. Lift Arm Lock

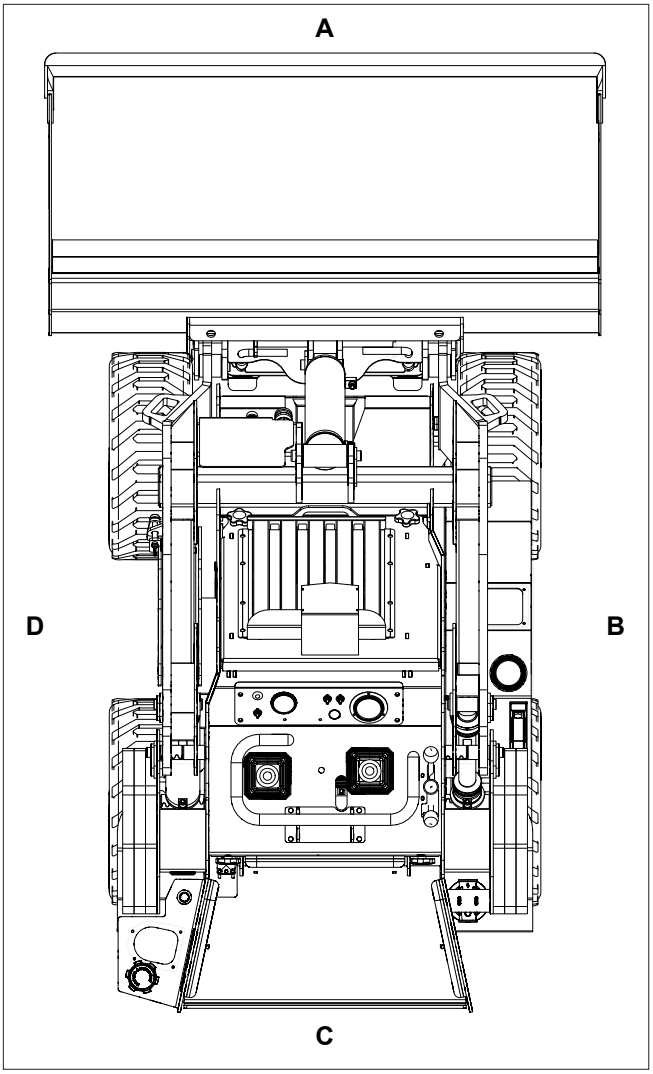
1.4 Serial Number Plate

Record serial number and dates in spaces below.

Serial Number:_____

Date Of Purchase:_____

1.5 Operator Orientation



A. Front
B. Right Side
C. Rear
D. Left Side

2 SAFETY

2.1 Safety Alert Symbol And Safety Words

You must read, understand and follow the instructions given by the operating unit manufacturers, as well as the instructions in this manual.

The safety information in this manual is denoted by the safety alert symbol:



This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

The level of risk is indicated by the following signal words:

⚠ DANGER

DANGER - Indicates a hazardous situation, which, if not avoided, WILL result in death or serious injury.

⚠ WARNING

WARNING - Indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION - Indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE - Indicates a situation that could result in damage to the equipment or other property.

2.2 Operational Hazards

⚠ WARNING

Prevent death or serious injury.

Read and understand this manual before operating the skidsteer.

Always stop engine and remove key before leaving operators station.

Never allow anyone near the skidsteer during operation.

Travel at a safe speed.

⚠ WARNING

Prevent death or serious injury from moving parts.

Moving parts can crush and dismember.

Do not operate without guards and shields in place.

Disconnect and lockout power source before adjusting or servicing.

⚠ WARNING

Use skidsteer only for the designed applications.

Any other use may result in personal injury, damage to equipment and may void the warranty.

⚠ WARNING

Protect from flying debris.

Wear proper safety glasses, goggles, or a face shield to protect from flying debris.

⚠ WARNING

Prevent death or serious injury.

Raised unsupported lift arms can fall, resulting in death or serious injury.

Never enter the area under raised lift arms.

Carefully read all safety messages in this manual and on equipment safety signs. Keep safety signs in good condition and replace missing or damaged safety signs.

New components and repair parts must include the current safety decal.

Learn how to properly operate the skidsteer. NEVER operate or work around this equipment without proper instruction, while fatigued or under the influence of alcohol, prescription or non-prescription medication or if feeling ill.

Keep your equipment in proper working condition. Know the regulations and laws that apply to you and your industry. This manual is not to replace any regulations or laws. Additional information may be found at: www.asae.org or www.osha.gov.

If you do not understand any part of this manual, contact your Baumalight dealer.

Electric Lines And Underground Utilities

Have underground utilities located before begining work. In the US or Canada, call 811 (US) or 888-258-0808 (US and Canada). Also contact any local utilities that do not participate in the One-Call service. In countries that do not have a One-Call service, contact all local utility companies to have underground utilities located.

⚠ WARNING

Prevent electrocution.

Skidsteer and/or attachment coming near or contacting electrical lines can cause electrocution.

Electrocution can occur without contact.

Keep away from electrical lines.

The following shall be adhered to when working around electrical lines.

- Any electrical line or overhead line shall be considered to be an energized electrical line unless and until the person owning the line or the electric utility authority indicates that the line is not an energized electrical line.
- If any part of the skidsteer or the attachment contacts an energized electrical line, the operator must not attempt to get off the skidsteer. Warn others to leave the area. Contact utility company to deenergize the line. The operator shall remain at the controls until utility company informs that it is safe to exit the machine.
- Do not return to jobsite or allow anyone into area until utility company informs that it is safe to do so.

⚠ WARNING

Prevent explosion.

Skidsteer and/or attachment contacting a gas line can result in an explosion.

If you suspect a gas line has been damaged:

- Immediately shut off engine.
- Remove any ignition sources.
- Warn others that a gas line has been damaged and that they should leave the area.
- Leave the area as quickly as possible.
- Immediately call the local emergency phone number and the utility company.
- Do not return to area until given permission by emergency personnel and utility company.

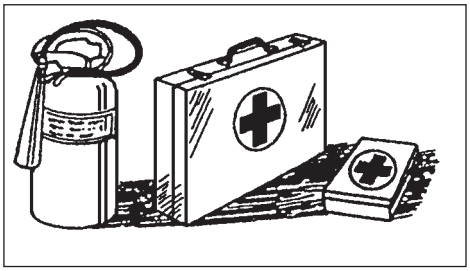
Prepare For Emergencies

Be prepared in case of emergencies.

Keep a fire extinguisher and first aid kit close to the machine.

Keep emergency phone numbers in your phone.

Know your address so emergency services can locate you if an emergency arises.



Replace Safety Signs

Replace missing or damaged safety signs.

Safety signs are identified in Section 3 of this manual.

Replacement safety signs are available from your Baumalight dealer.

Do Not Allow Riders

NEVER lift or carry anyone on the skidsteer.

NEVER use skidsteer as a work platform.

NEVER allow passengers on the skidsteer.

Lower Operating Speed

Move at slow speeds on rough or uneven terrain.

Avoid Rollover

The equipment may rollover, resulting in death or serious injury. To help prevent rollover:

- Travel at a slow speed.
- Avoid sharp turns & sudden movement on slopes.
- Carry attachments close to the ground.
- Avoid holes, ditches and other obstructions which may cause equipment to rollover.
- Use caution when operating on slopes and do not operate on excessively steep slopes.
- Do not exceed load capacity of equipment.

Raised Attachment

⚠ WARNING

Crushing hazard.

Raised unsupported lift arms can fall, resulting in death or serious injury.

Never enter the area under raised lift arms.

Raised lift arms or attachment can lower unexpectedly, resulting in death or serious injury.

NEVER enter area under raised lift arms or attachment.

Lower lift arms to ground, engage park brake, shut off engine and remove key before servicing.

Avoid Loud Noise

⚠ WARNING

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Hazards From Modifying Equipment

Do not make any alterations to your skidsteer. Altering the equipment may cause unsafe conditions and may void the manufacturer's warranty.

Avoid High Pressure Fluids

⚠ WARNING

Pressurized fluids can penetrate the skin.

Hydraulic hoses can fail from age, damage and exposure.

Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.

Use wood or cardboard to detect hydraulic leaks, never use your hands.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Prevent the hazard by relieving pressure before connecting or disconnecting hydraulic hoses. Verify all connections are tight before applying pressure.

Search for leaks with a piece of cardboard or wood. Protect hands and body from high pressure fluids. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or serious infection may result.

2.3 Maintenance Hazards

Before servicing, park machine on a firm and level surface, lower lift arms, engage park brake, remove key and place a “Do Not Operate” tag on control panel. Read and understand this manual.

If you do not understand any part of the manual, contact your Baumalight dealer.

Always wear face and/or eye protection, safety shoes, and other protective equipment appropriate for the job.

Do not make unauthorized modifications. Contact your Baumalight dealer before you weld, cut/drill holes, or make any other modifications.

⚠ WARNING

Moving parts can crush and cut.

Keep clear of moving components.

Follow lockout procedure before servicing.

⚠ WARNING

Entanglement hazard.

Keep clear of moving components.

Wear proper protective equipment appropriate for the job.

⚠ WARNING

Prevent death or serious injury.

Before performing inspections, service or maintenance:

- **Park machine on firm, level surface.**
- **Lower lift arms to ground.**
- **Engage park brake.**
- **Turn engine off and remove key.**
- **Place “Do Not Operate” tag on control panel.**

⚠ WARNING

Burn hazard.

Hot and high pressure hydraulic oil.

Allow oil to cool before servicing.

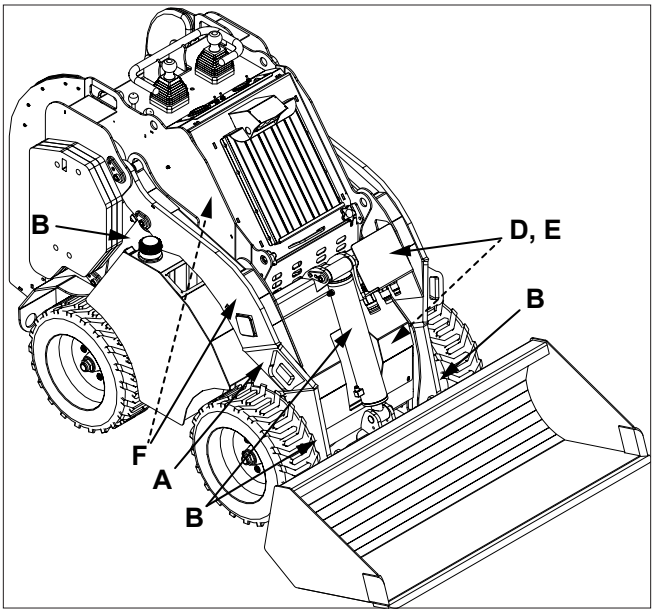
⚠ WARNING

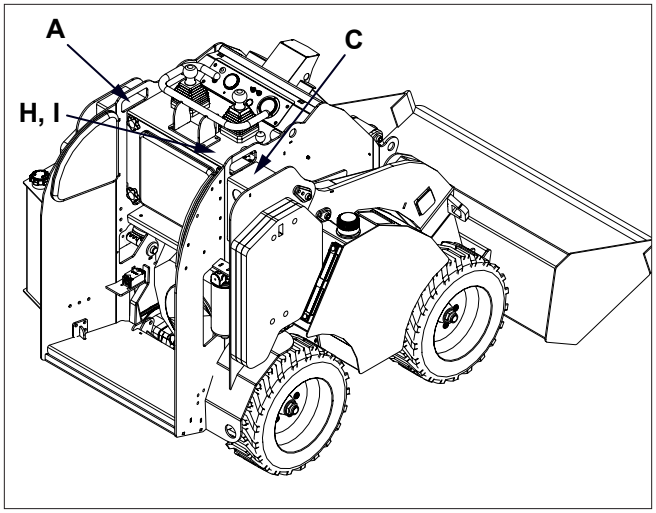
Crushing hazard.

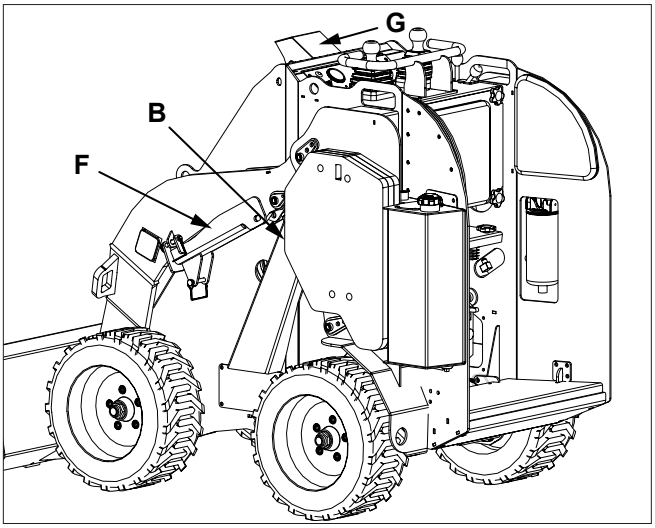
Raised unsupported lift arms can fall, resulting in death or serious injury.

Never enter the area under raised lift arms.

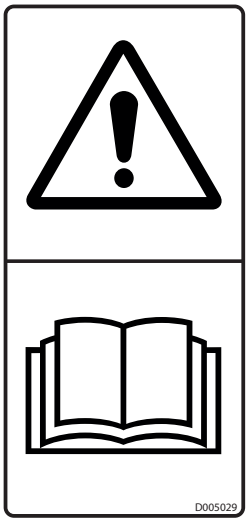
3 SAFETY SIGNS







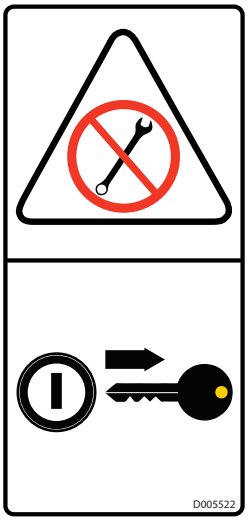
A. D005029 ⚠ WARNING - Read and understand safety signs on the machine and operating instructions in this manual before operating machine.



B. D005039 ⚠ WARNING - Pinch point / crush hazard. Do not reach into machine. Keep away from machine.



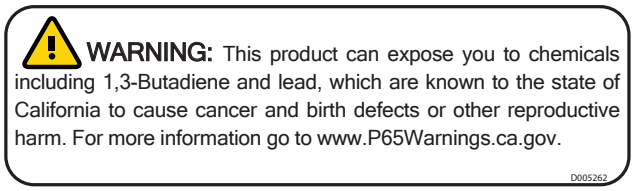
C. D005522 ⚠ WARNING - Remove key before performing service.



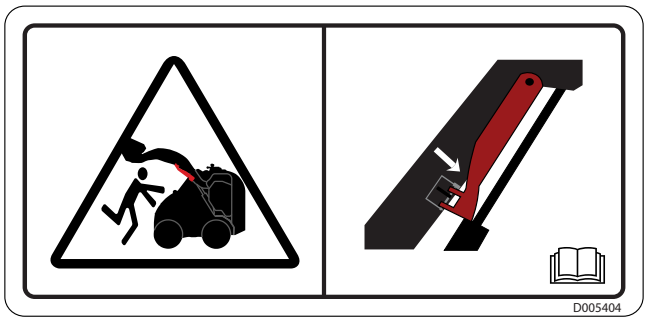
D. D005030 ⚠ WARNING - Pressurized fluid hazard. Keep away from machine.



E. D005262 ⚠ WARNING - P65 warning information.



F. D005404 ⚠ WARNING - Crush hazard. Install service lock.



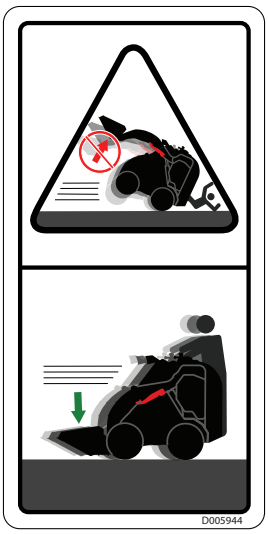
G. D005031 ⚠ WARNING - Wear personal protective equipment appropriate for the job.



H. D005930 ⚠ WARNING - Do not reverse downhill or drive uphill. Drive downhill and reverse uphill.



I. D005944 ⚠ WARNING - Do not drive or reverse at high speeds with a raised boom, make sure to lower the boom when picking up speed.



4 OPERATION

4.1 Preparation For Use

Operator must be properly trained and understand operator's manual before using equipment. Do not allow untrained or unqualified people to operate this equipment.

It is your responsibility to operate this equipment safely. You must be familiar with the equipment and all safety practices before use.

Have underground utilities located before working. In the US or Canada, call 811 (US) or 888-258-0808 (US and Canada). In countries that do not have a One-Call service, contact all local utility companies to have underground utilities located.

Inspect equipment before operating. Repair or replace any worn or damaged parts. Replace missing or damaged safety shields and safety signs.

Keep bystanders away from work area.

Always wear protective equipment appropriate for the job.

Do not operate, work on or around this machine while under the influence of alcohol, drugs or if feeling ill.

Keep clear of moving equipment at all times.

Stop engine before leaving operators station.

4.2 Utility Locating

Electrical Line

Have underground utilities located before beginning work. In the US or Canada, call 811 (US) or 888-258-0808 (US and Canada). In countries that do not have a one call service, contact all local utility companies to have underground utilities located.

⚠ WARNING

Prevent electrocution.

Skidsteer and/or attachment coming near or contacting electrical lines can cause electrocution.

Electrocution can occur without contact.

Keep away from electrical lines.

The following requirements shall be adhered to when working around electrical lines.

- Any electrical line or overhead line shall be considered to be an energized line unless and until the person owning the line or the electrical utility authority indicates that the line is not an energized electrical line.
- If any part of the skidsteer or the attachment contacts an energized electric line, the operator must not attempt to get off the skidsteer. Contact utility company to deenergize the line. The operator shall remain at the controls until utility company informs that it is safe to exit the machine.
- If any part of the skidsteer or the attachment contacts an energized electrical line, warn others to leave the area. Do not return to jobsite or allow anyone into area until utility company informs that it is safe to do so.

Gas Line

Have underground utilities located before beginning work. In the US or Canada, call 811 (US) or 888-258-0808 (US and Canada). In countries that do not have a one call service, contact all local utility companies to have underground utilities located.

⚠ WARNING

Prevent explosion.

Skidsteer and/or attachment contacting a gas line can result in an explosion.

If you suspect a gas line has been damaged, take the following actions.

- Immediately shut off engine.
- Remove any ignition sources.
- Warn others that a gas line has been cut and that they should leave the area.
- Leave the area as quickly as possible.
- Immediately call the local emergency phone number and the utility company.
- Do not return to area until given permission by emergency personnel and utility company.

4.3 Before Operation

Before operating, check fuel level, engine oil level, engine coolant level and hydraulic fluid level. Test operation of operator on board switch.

⚠ WARNING

Prevent explosion.

Fuel can cause an explosion or fire. Do not refuel with engine running or near open fire. Never allow fuel, engine oil or hydraulic fluid to spill on hot machine components.

Clean up spilled fuel or oils immediately.

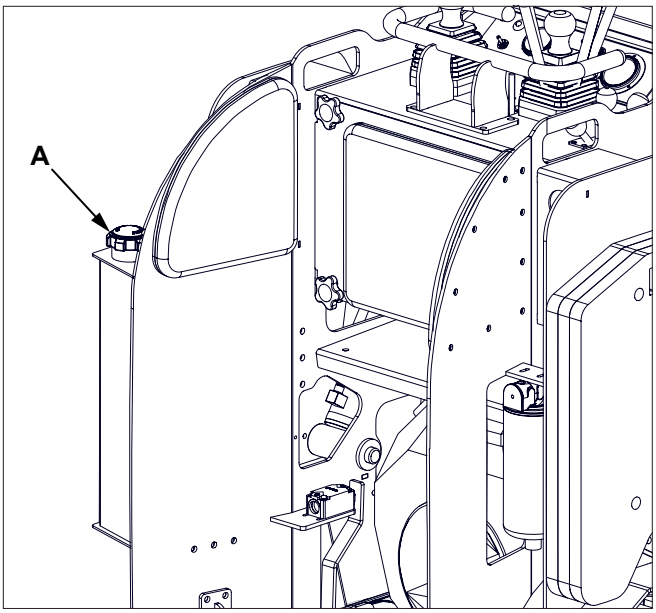
Test Operator On Board Safety Switch

Before operation, test operator on board safety switch to verify it is functioning correctly.

1. Stand on operators platform and start engine. Do not disengage park brake.
2. Step off operators platform. The drive and boom functions should be disabled if functioning correctly. If drive and boom functions are not disabled, switch engine off and contact a Baumalight dealer. Do not operate skidsteer if operator on board switch is not functioning correctly.

Fill Fuel Tank

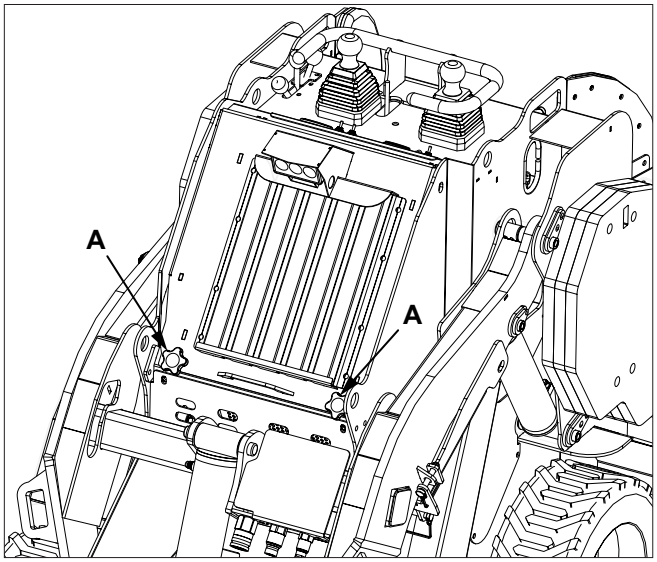
1. Skidsteer must be parked on a level surface, lift arms fully lowered, engine stopped and key removed.



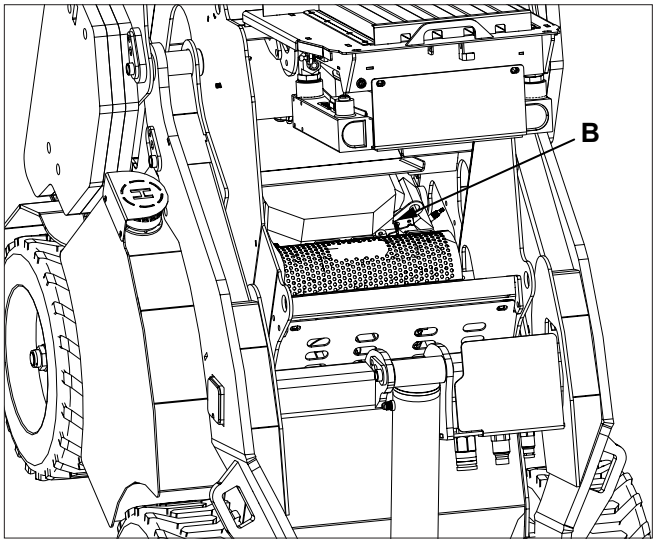
2. Check fuel level on cap/gauge (A).
3. Clean area around fuel tank filler neck.
4. Remove cap/gauge (A) from filler neck and add fuel as needed.
5. Install cap/gauge on filler neck.

Check Engine Oil Level

1. Skidsteer must be parked on a level surface, lift arms fully lowered, engine stopped and key removed.
2. Loosen knobs (A) and tilt hydraulic cooler up.



3. Clean around oil dipstick (B).



4. Pull out dipstick and wipe it clean.
5. Slide dipstick fully into dipstick tube.
6. Pull dipstick out and check oil level on dipstick.
7. If oil level is low, clean around oil filler cap and remove cap.
8. Slowly pour oil through filler cap to raise oil level to the F (full) mark on dipstick.

NOTICE
Prevent engine damage. **Do not overfill crankcase.**

The OEM engine manufacturer specifies the oil be a 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later (or equivalent).

50 to 105° F (10 to 40° C)	30W
5 to 105° F (-15 to 40° C)	5W-30 or 10W-30
-15 to 105° F (-25 to 40° C)	Synthetic 5W-30

SAE 10W-30 or 5W-30 is recommended for general use. Use a full synthetic for starting/ operating temperatures between 5 to -13° F (-15 to -25° C). Other viscosities shown may be used when the average temperature in your area is within the indicated range.

9. Replace filler cap and dipstick.
10. Close hydraulic cooler and tighten knobs (A).

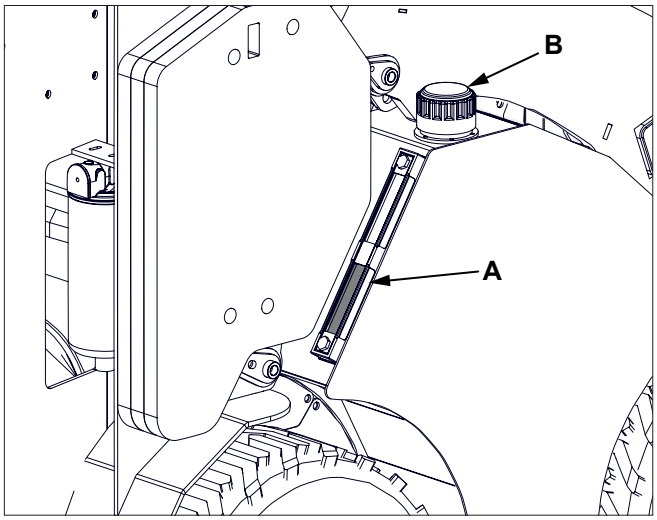
Check Hydraulic Fluid Level

Check hydraulic fluid level before the engine is first started and every 10 hours. See below for recommended hydraulic fluid.

AW46: 32° to 95° F (0° to +35° C)
AW32: 14° to 68° F (-10° to +20° C)
MV22: -47° to 77° F (-44° to +25° C)

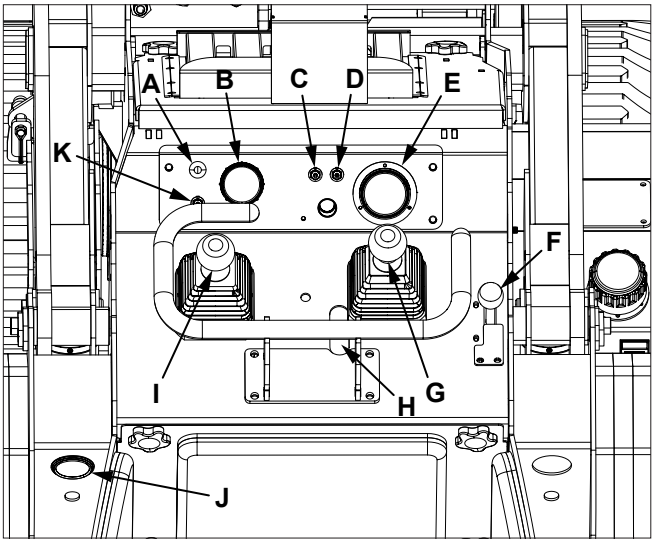
Attachments can raise or lower the hydraulic fluid level. If a new attachment is connected, hydraulic fluid needed to fill the lines, cylinders or motor will lower the hydraulic tank fluid level. Check fluid level each time a different attachment is connected.

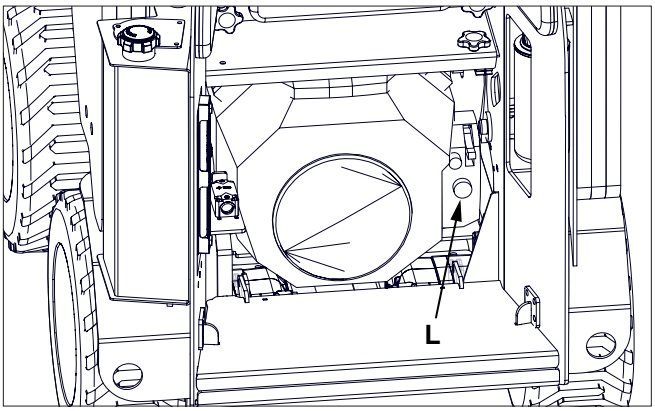
1. Skidsteer must be parked on a level surface, lift arms fully lowered, engine stopped and key removed.



2. Check fluid level in sight glass (A). Hydraulic fluid should fill approximately 50% of the sight glass. If the level is low, add enough fluid to raise it to the proper level.
3. Clean the area around hydraulic tank filler neck.
4. Remove the cap (B) from filler neck and add hydraulic fluid as needed.
5. Install the cap (B) on filler neck.

4.4 Machine Controls





A. Engine Overheat Light
B. Voltmeter
C. Park Brake On/Off
D. Light Switch
E. Hydraulic Fluid Pressure
F. Engine Throttle
G. Boom Joystick
H. Auxiliary Hydraulic Control
I. Drive Joystick
J. Hydraulic Fluid Temperature Gauge
K. Charge Booster
L. Key Switch

Engine Throttle

Move throttle rearward to increase engine speed and forward to decrease engine speed.

Park Brake

Move switch forward to engage the park brake. Move switch rearward to release park brake.

Key Switch

Key switch has three positions: off, run, and start.

Rotate the key to the start position to start engine.

Release key when engine starts and it will move automatically to the run position.

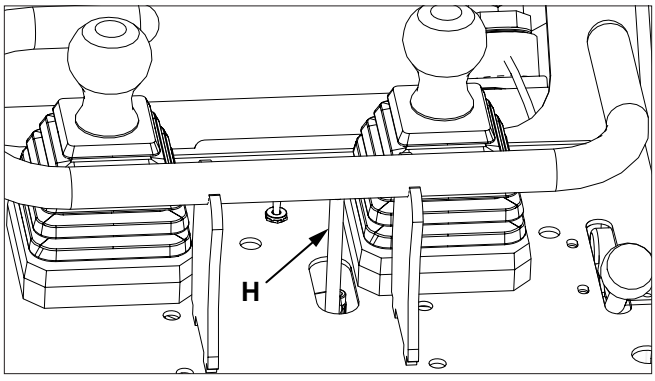
Rotate key to off position to stop engine.

Charge Booster

In hot ambient conditions, the hydraulic cooler may run frequently and draw down the battery. If voltmeter is indicating less than 12V before stopping engine, toggle and hold charge booster switch and run the engine at full throttle for one minute, then another minute on low idle. This would top up the battery if needed.

Auxiliary Hydraulic Control

Auxiliary hydraulic control (H) provides a continuous hydraulic flow to attachment. Center position is off/locked. Move control forward for flow in one direction or rearward for flow in the other direction.



Drive Joystick

It is recommended to make gradual sweeping turns.

Push joystick forward (A) to move skidsteer forward.

Pull joystick rearward (C) to move skidsteer rearward.

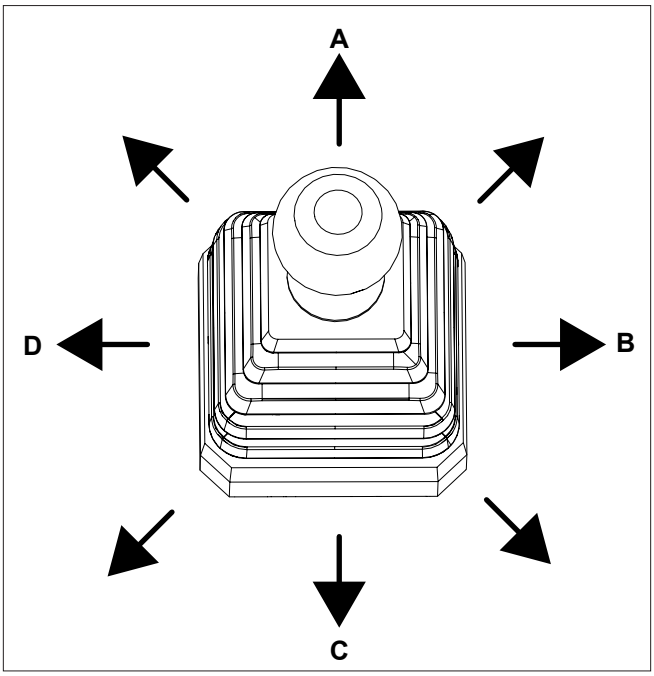
For gradual turns, push joystick forward/left or forward/right and skidsteer will slowly turn left or right. Pull rearward for reverse.

For tight turns, move joystick closer to right (B) or left (D) but never straight to (B) or (D) as there is a neutral zone to protect the engine from stalling on a surface with excessive traction.

Full throttle may be desired for experienced operators; inexperienced operators should not try to make tight turns.

The farther you move the joystick in any direction, the faster the skidsteer will move in that direction.

Release joystick or move to the center neutral position to stop movement.



Boom Joystick

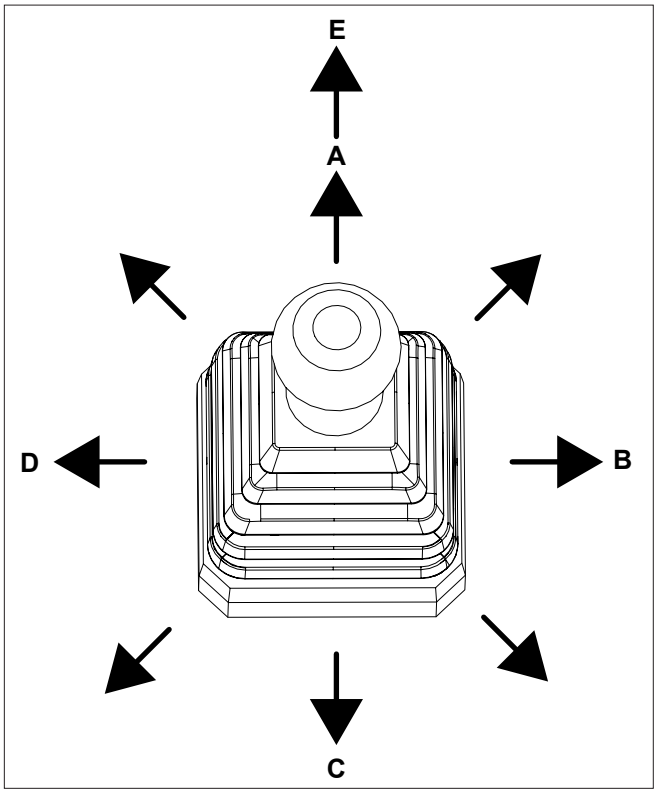
Move joystick forward (A) to lower lift arms.

Move joystick to the right (B) to tilt attachment forward.

Move joystick rearward (C) to raise lift arms.

Move joystick to the left (D) to tilt attachment back.

Push joystick fully forward into detent position (E) to allow a bucket or blade to follow the contour of the ground.



4.5 Start And Stop Engine

Refer to OEM engine manual for detailed instructions.

⚠ WARNING

Carbon monoxide hazard.

Always start and operate the engine in a well-ventilated area.

If in an enclosed area, vent the exhaust to the outside.

For more information go to www.P65Warnings.ca.gov.

Start Engine

1. Verify all controls are in neutral.
2. Move throttle lever to low-med position.
3. Turn ignition to start position. Release ignition when engine starts.
4. Allow engine to run for 5 minutes to warm up.
5. Move the throttle lever to desired setting.

Stop Engine

1. Lower lift arms to ground.
2. Move controls to neutral position.
3. Engage park brake.
4. Run engine at low idle for five minutes.
5. Turn ignition to stop.
6. Remove key.

4.6 Attachments

NOTICE

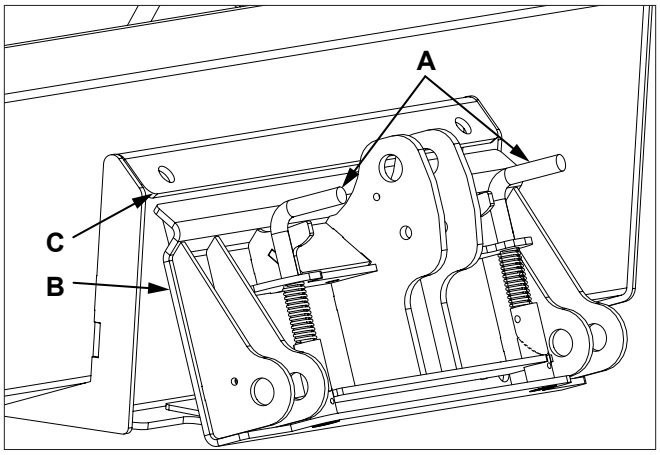
Use only Baumalight approved attachments.

Attachments can change the stability and the operating characteristics of the skidsteer.

The warranty of the skidsteer may be voided if used with unapproved attachments.

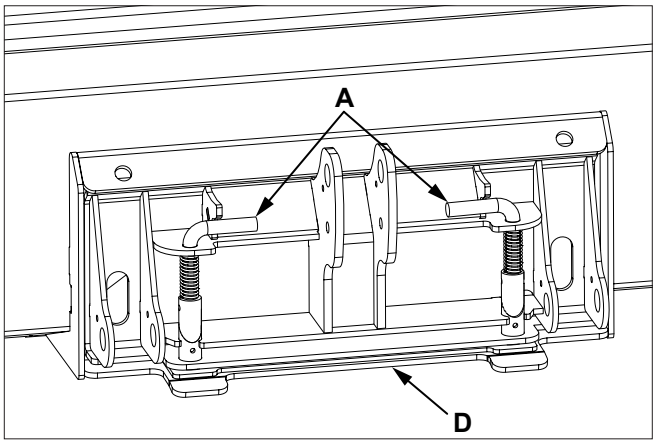
Connect Attachment

1. Before connecting the attachment, verify that the mount plates are free of any dirt or debris and that quick attach pins (A) rotate freely and are in the disengaged position as shown.
2. Start engine.
3. Tilt the mount plate (B) forward.
4. Position mount plate into the upper lip (C) of the attachment receiver plate.



5. Raise the lift arms while tilting back the mount plate at the same time. The attachment should be raised enough to clear the ground, and the mount plate should be tilted all the way back.
6. Engage park brake and stop engine.

7. Engage the quick attach pins (A). Verify that pins are fully seated in the attachment receiver plate (D). If the pins do not rotate to the engaged position, the mount plate is not fully aligned with the holes in the attachment receiver plate. Check the receiver plate and clean it if necessary.



⚠ WARNING

Prevent death or serious injury.

Attachment could fall off of the skidsteer if pins are not fully seated through attachment mount plate.

Verify quick attach pins are fully seated in the attachment mount plate.

Connect Hydraulics

⚠ WARNING

Pressurized fluids can penetrate the skin.

Hydraulic hoses can fail from age, damage and exposure.

Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.

Use wood or cardboard to detect hydraulic leaks, never use your hands.

⚠ WARNING

Burn hazard.

Hot and high pressure hydraulic oil.

Allow oil to cool before touching components.

If the attachment requires hydraulics for operation, connect hydraulic hoses as follows:

1. Engage park brake and stop engine.
2. Remove protective covers from hydraulic couplers. Verify that hydraulic connectors are clean.
3. Move auxiliary hydraulic lever into forward detent position and connect male connector into female connector on the skidsteer.
4. Move auxiliary hydraulic lever into rearward detent position and connect female connector onto male connector on the skidsteer.

5. If attachment has a case drain hose, connect hose to case drain coupler on skidsteer.
6. Confirm that connections are secure by pulling on the hoses.

Disconnect Attachment

1. Lower attachment to the ground
2. Engage park brake and stop engine.
3. Disengage quick attach pins by turning them to the outside.
4. If attachment uses hydraulics, move the auxiliary hydraulics lever forward, back and forth, and back to neutral to relieve pressure at hydraulic couplers.
5. If attachment uses hydraulics, disconnect hydraulic couplers.
6. Install protective covers on hydraulic couplers.
7. Start engine, tilt the mount plate forward, and back skidsteer away from the attachment.

4.7 Transporting

⚠ WARNING

Prevent serious injury or death.

Do not operate or drive the skidsteer on roadways.

⚠ WARNING

Tip over hazard.

When loading onto a trailer, back onto trailer for better weight balance to avoid tip over.

1. Raise attachment slightly off ground.
2. Travel at a reasonable and safe speed.

When transporting the skidsteer on a trailer, use the following procedure:

1. Lower lift as low as possible.
2. Back skidsteer onto trailer.
3. Lower lift arms to trailer deck.
4. Engage park brake and stop engine.
5. Secure skidsteer to trailer with the proper size and load rated tie downs.

4.8 Lift Arm Lock

⚠ WARNING

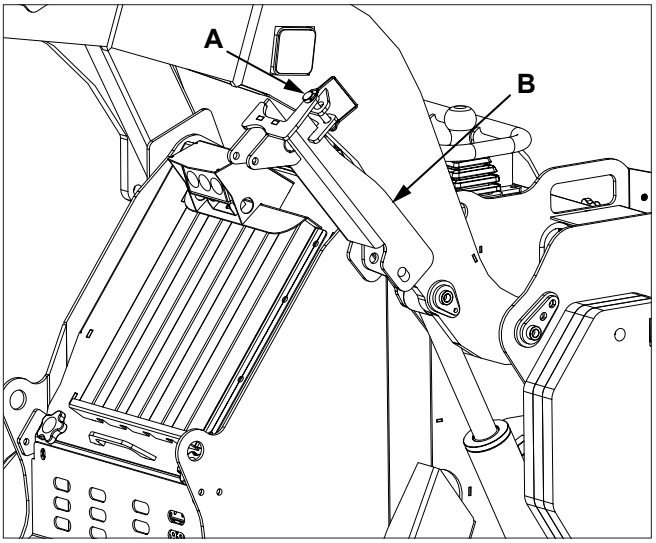
Crushing hazard.

Raised unsupported lift arms can fall, resulting in death or serious injury.

Never enter the area under raised lift arms.

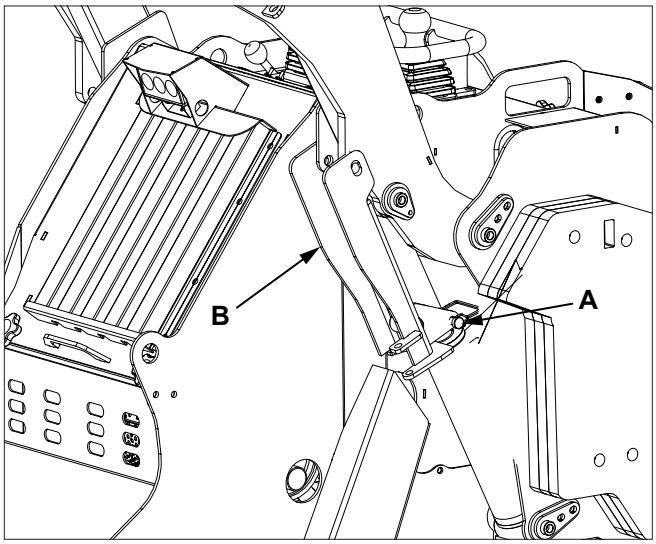
Engage Lift Arm Lock

1. Start engine.
2. Verify the area is clear of bystanders and obstructions, and fully raise lift arms.
3. Engage park brake, shut off engine and remove key.
4. Remove quick lock pin (A) and pivot lift arm lock (B) down until tabs on lock go around cylinder ram.



Lift Arm Lock Disengaged

5. Install quick lock pin (A) as shown in lift arm lock engaged illustration to capture lock around cylinder ram.



Lift Arm Lock Engaged

6. Lower lift arms until lift arm lock is tight against cylinder barrel.
7. Stop engine and remove key.

Disengage Lift Arm Lock

1. Start engine.
2. Verify the area is clear of bystanders and obstructions.
3. Fully raise lift arms.
4. Shut off engine and remove key.
5. Remove quick lock pin, pivot lift arm lock up and attach to lift arm with quick lock pin (A) as shown in lift arm lock disengaged illustration.
6. Lower lift arms to ground.
7. Shut off engine and remove key.

4.9 First Time User Tips

First, operate all functions in a clear area with throttle at low idle to get a good feel for the controls.

Move the skidsteer slowly until you have a better feel how much the unit can take.

Each operator must experiment to find a technique that works for them in their application.

4.10 Operation

Slope Operation

Operate up and down slopes with the heavy end of the skidsteer uphill. Some attachments, no attachment or an empty bucket will make the rear of the skidsteer the heavy end. A full bucket will make the front of the skidsteer the heavy end.

Most attachments will make the front of skidsteer the heavy end.

Raising lift arms on a slope will affect stability. Keep lift arms in the lowered position when on slopes.

Remove rocks, tree limbs, etc from the work area. Watch for holes, ruts, or bumps.

Attachments will change the stability and the operating characteristics of the skidsteer. Contact your dealer to verify attachment is compatible with your skidsteer.

Do not make sudden changes in speed or direction.

Avoid starting or stopping on a slope. If the skidsteer loses traction, slowly move straight down the slope. Avoid turning on slopes. If turning is necessary, turn slowly and keep the heavy end of the skidsteer uphill.

Do not operate near drop off or ditches.

When parking on a hillside or slope, lower attachment to the ground and engage park brake.

General Operation

1. Start engine.
2. Disengage park brake.
3. Pull joystick to raise attachment slightly off the ground.
4. Move throttle to desired position.
5. Operate drive control to move skidsteer.
6. When operation is completed, lower lift arms to place attachment on the ground.
7. Move throttle to low idle position.
8. Engage park brake.
9. Move all controls to neutral position.
10. Allow engine to run for five minutes to cool down.
11. Turn ignition to stop position and remove key.

⚠ WARNING

Crush hazard.

Operation on a slope can result in machine tip over.

Carry attachments low and operate with the heavy end uphill.

See Slope Operation in this section.

4.11 Adjust Ground Speed/Drive Power

The ground drive hydraulic pump is factory set to deliver a equal balance between ground speed and drive power. If more speed/less power, or less speed/more power from the factory setting is desired, use the following steps to adjust pump.

⚠ WARNING

Prevent death or serious injury.

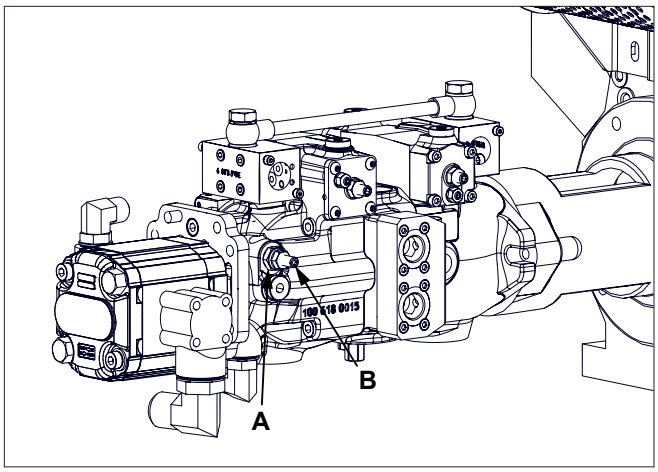
Before performing adjustments:

- **Park machine on firm, level surface.**
- **Lower lift arms to ground.**
- **Engage park brake.**
- **Turn engine off and remove key.**
- **Place "Do Not Operate" tag on control panel.**

1. Operate skidsteer to bring hydraulic fluid to normal operating temperature.
2. Lower attachment to the ground.
3. Engage park brake, shut off engine and remove key.
4. Open/remove covers to access hydraulic pump.

Note: *Increasing ground speed will reduce the drive power and may result in the engine stalling under load conditions. Adjust in small increments until desired speed/power is achieved.*

5. Hold hex screw (B) and loosen locknut (A).
6. Hold locknut (A) with wrench and rotate hex screw (B) clockwise to increase ground speed, or counter clockwise to decrease ground speed.
7. Hold hex screw (B) and tighten locknut (A), close/install covers and test operation.



5 SERVICE AND MAINTENANCE

ITEM	Initial 10 Hours	Daily Or 10 Hours	Every 20 Hours	Every 100 Hours	Every 250 Hours	Every 500 Hours	Every 1000 Hours	As Required
Check drive sprocket nut tightness.	•							
Check engine oil level.		•						
Check air filter.		•						
Check park brake operation.		•						
Check hydraulic hoses.		•						
Check hydraulic fluid level.		•						
Check coolant level.		•						
Check radiator and intake screen.		•						
Check hydraulic cooler.		•						
Check operator on board switch.		•						
General inspection.		•						
Lubricate quick attach fittings.			•					
Change engine oil and filter.								
Replace air filter.				•				
Check drive sprocket nut tightness.				•				
Change engine oil and filter.					•			
Replace fuel filter.						•		
Replace hydraulic filter.						•		
Change hydraulic fluid and filter.							•	
Check battery.								•

We design many of our products using industry-standard parts that are widely available from local supply stores.

Many replacement parts such as bearings, belts, seals, touch-up paint and cutting teeth can often be found through local suppliers, not just from Baumalight.



5.1 Safety

⚠ WARNING

Prevent death or serious injury.

1. **Park machine on firm, level surface.**
2. **Engage park brake.**
3. **Verify all controls are in neutral.**
4. **Stop engine and remove key.**

⚠ WARNING

Prevent death or serious injury.

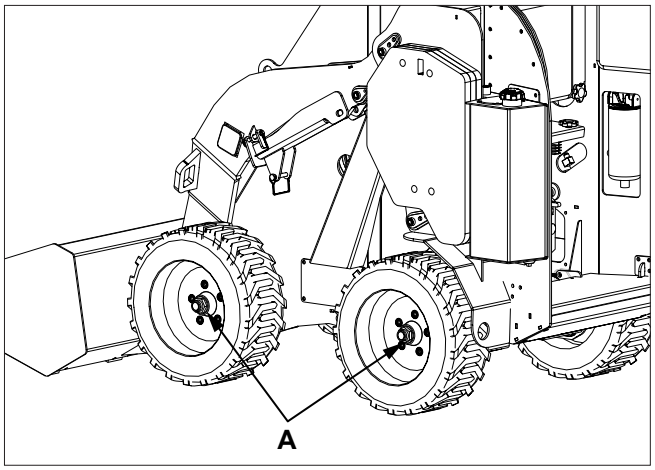
Raised unsupported lift arms can fall, resulting in death or serious injury.

Never enter the area under raised lift arms.

Refer to the engine OEM manual for detailed operation, service interval and maintenance information.

5.2 Initial 10 Hours

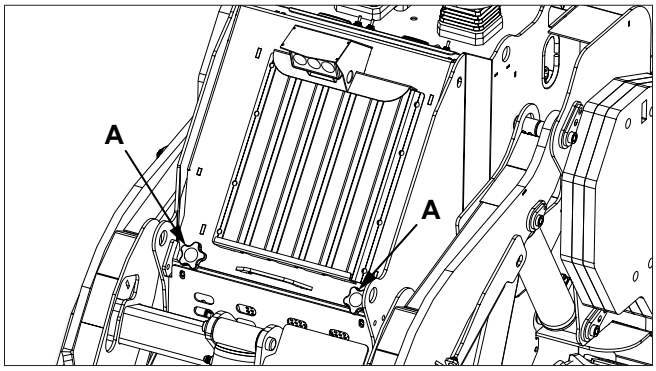
1. Check tightness on drive sprocket nuts (A). Tighten nuts to 1753 lb ft (2377 Nm) of torque.



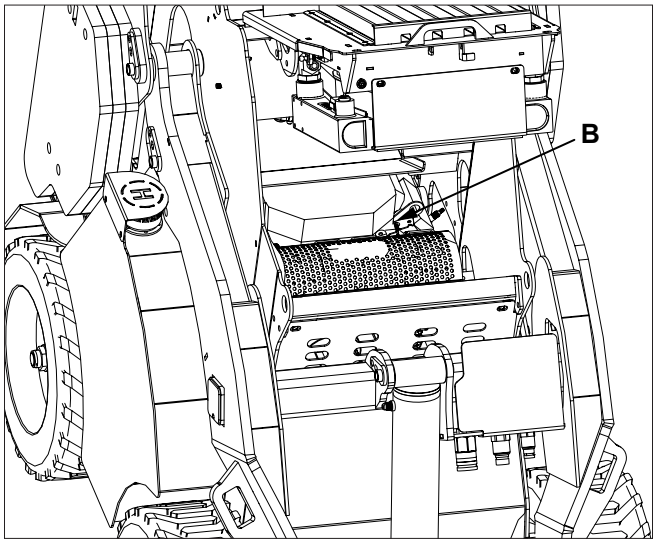
5.3 Daily Or Every 10 Hours

Check Engine Oil Level

1. Refer to OEM engine manual for detailed maintenance information. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.
2. Loosen knobs (A) and pivot hydraulic oil cooler upward. Engage pin to hold cooler in open position.



3. Check oil level on dipstick (B). Oil level should be at full mark on dipstick. Add OEM specified engine oil as necessary through fill port on engine.



The OEM engine manufacturer specifies the oil be a 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later (or equivalent).

50 to 105° F (10 to 40° C)	30W
5 to 105° F (-15 to 40° C)	5W-30 or 10W-30
-15 to 105° F (-25 to 40° C)	Synthetic 5W-30

SAE 10W-30 or 5W-30 is recommended for general use. Use a full synthetic for starting/ operating temperatures between 5 to -13° F (-15 to -25° C). Other viscosities shown may be used when the average temperature in your area is within the indicated range.

Check Engine Air Filter

Refer to OEM engine manual for detailed maintenance information. Check air filter before startup and every 10 hours. Remove and clean as needed.

Check Hydraulic Hoses

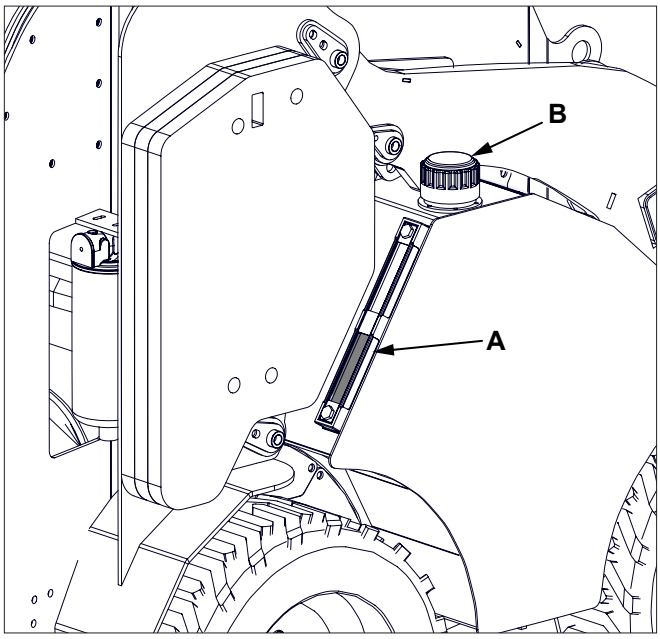
1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.
2. Check hydraulic hoses for wear and damage before startup and every 10 hours. Replace worn or damaged hoses.

Check Park Brake Operation

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

Check Hydraulic Fluid Level

1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.



2. Check fluid level in sight glass (A). Hydraulic fluid should fill approximately 50% of the sight glass. If the level is low, add enough fluid to raise it to the proper level. See below for recommended hydraulic fluid.

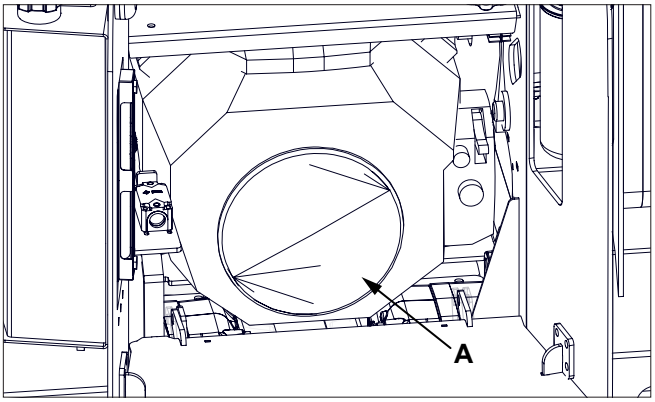
   AW46: 32° to 95° F (0° to +35° C)
   AW32: 14° to 68° F (-10° to +20° C)
   MV22: -47° to 77° F (-44° to +25° C)

3. Clean the area around the filler neck of the hydraulic tank.
4. Remove the cap (B) from filler neck and add hydraulic fluid as needed.
5. Install the cap (B) on filler neck.

Check Engine Air Intake Screen

Check engine air intake screen (A) for dirt and debris before startup and every 10 hours.

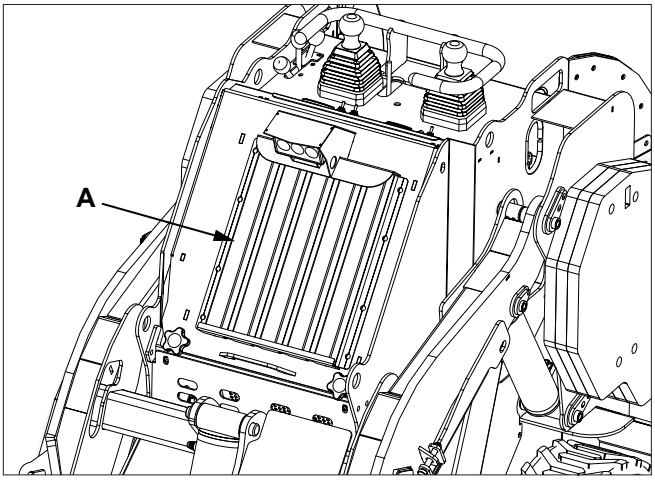
Clean with compressed air or spray wash if required.



Check Hydraulic Fluid Cooler

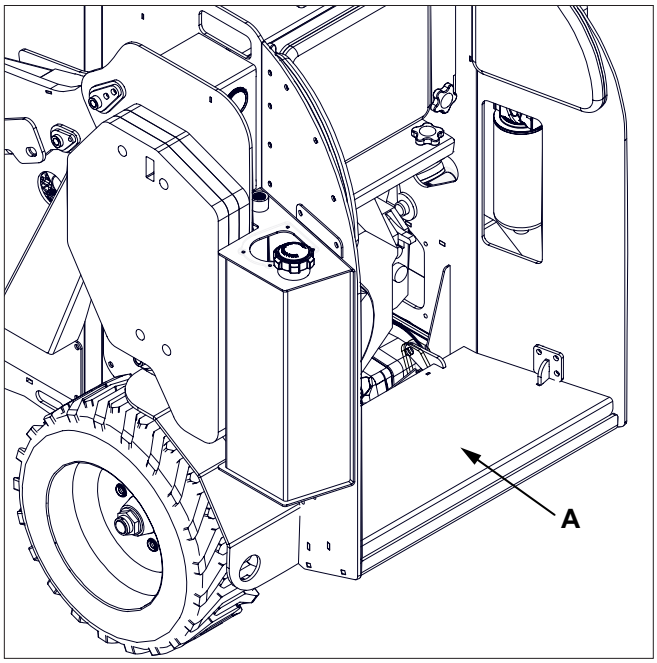
Check hydraulic fluid cooler screen (A) for dirt and debris before startup and every 10 hours.

Clean with compressed air or spray wash if required. Do not damage fins with high pressure air or water.



Check Operator On Board Safety Switch

1. Lower lift arms to ground, stop engine. Test switch operation before startup and every 10 hours.
2. Stand on operators platform (A) and start engine.



3. Step off operators platform. The drive and boom functions should be disabled if safety switch functioning correctly. If drive and boom functions are not disabled, switch engine off and contact a Baumalight dealer. Do not operate skidsteer if operator on board safety switch is not functioning correctly.

General Inspection

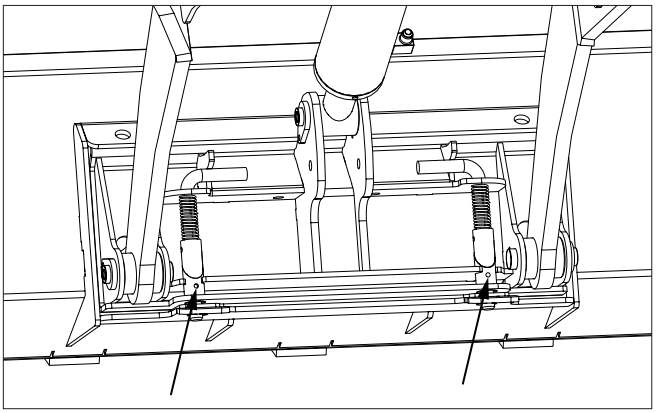
Lower lift arms to ground, stop engine and remove key. Inspect skidsteer for damage and worn parts. Repair or replace parts as needed.

5.4 Every 20 Hours

Lubrication

Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.

Pump grease into grease into fittings on quick attach latch pins every 20 hours.



5.5 Every 100 Hours

Replace Air Filter

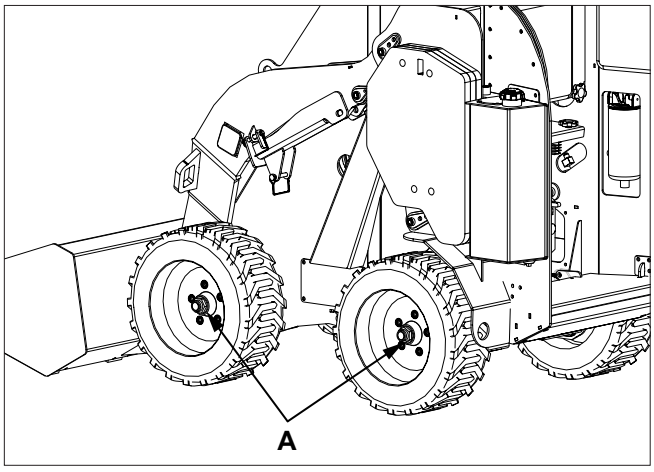
Refer to OEM engine manual for detailed maintenance information.

Replace air filter every 100 hours if operating in dusty conditions.

1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.
2. Open air filter housing and remove filter element.
3. Clean inside of housing and end cap with a damp rag.
4. Insert new filter element and install end cap.

Check Drive Sprocket Nut Tightness

1. Check tightness on drive sprocket nuts (A). Tighten nuts to 1753 lb ft (2377 Nm) of torque.



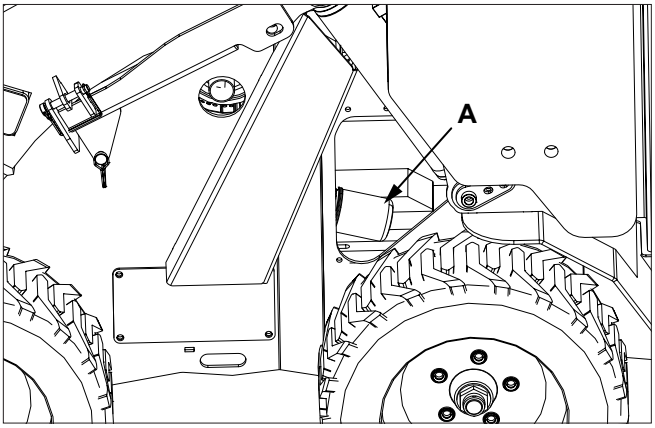
5.6 Every 250 Hours

Change Engine Oil And Filter

Refer to OEM engine manual for detailed maintenance information.

Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.

Change engine oil and replace filter (A) every 250 hours. Fill oil to full mark on dipstick. See engine operators manual for oil specification.



The OEM engine manufacturer specifies the oil be a 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later (or equivalent).

50 to 105° F (10 to 40° C)	30W
5 to 105° F (-15 to 40° C)	5W-30 or 10W-30
-15 to 105° F (-25 to 40° C)	Synthetic 5W-30

SAE 10W-30 or 5W-30 is recommended for general use. Use a full synthetic for starting/ operating temperatures between 5 to -13° F (-15 to -25° C). Other viscosities shown may be used when the average temperature in your area is within the indicated range.

5.7 Every 500 Hours

Replace Fuel Filter

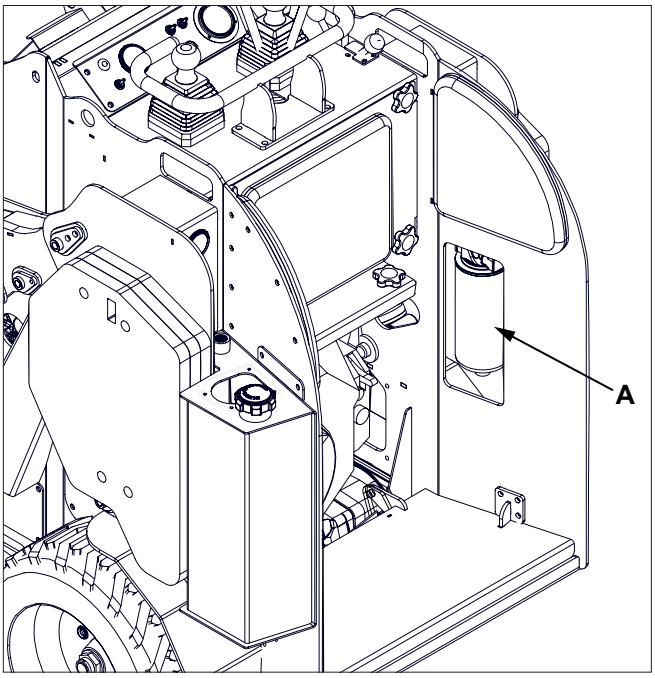
Refer to OEM engine manual for detailed maintenance information.

1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.
2. Replace filter every 500 hours.

Replace Hydraulic Filter

Replace hydraulic filter every 500 hours.

1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed. Allow hydraulic system to cool to ambient temperature.
2. Close valve between tank and hydraulic filter head.
3. Remove and replace hydraulic filter (A).



4. Open valve and check hydraulic fluid level. Add hydraulic fluid if necessary. AW32 is recommended for general conditions and climates. MV22 is recommended for colder climates.

5.8 Every 1000 Hours

Change Hydraulic Fluid And Filter

Change hydraulic fluid and replace filter every 1000 hours. Change fluid and replace filter every 500 hours if operating in extreme conditions.

NOTICE

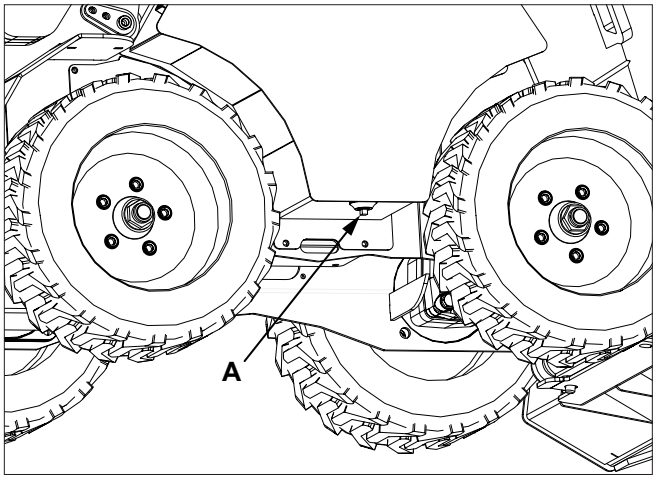
Dispose of waste properly.

Improper disposal of waste can harm the environment.

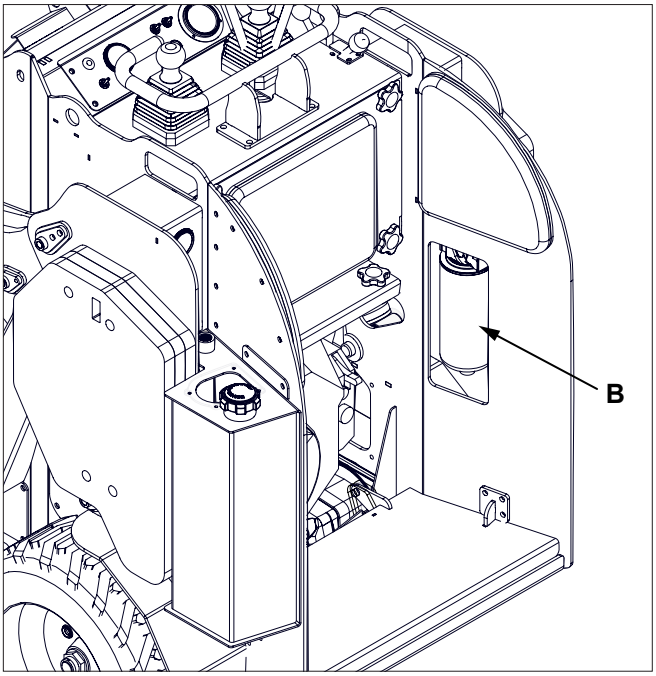
Use leak proof container when draining fluids. Do not use food or beverage containers.

Contact your local environmental or recycling center for the proper way to recycle or dispose of waste.

1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed. Allow hydraulic system to cool to ambient temperature.
2. Remove drain plug (A) and drain hydraulic fluid into a suitable container. Install plug after draining.

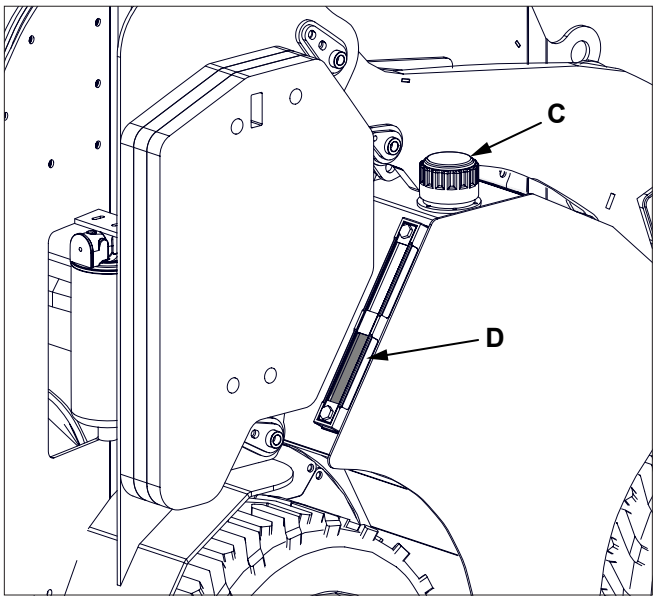


3. Remove and replace hydraulic filter (B).



4. Install cover, remove cap (C) and add hydraulic fluid. Hydraulic reservoir capacity is 8 gal (30 L). Hydraulic fluid should fill approximately 50% of sight glass (D). See below for recommended hydraulic fluid.

   AW46: 32° to 95° F (0° to +35° C)
   AW32: 14° to 68° F (-10° to +20° C)
   MV22: -47° to 77° F (-44° to +25° C)



5.9 As Required

Check Battery

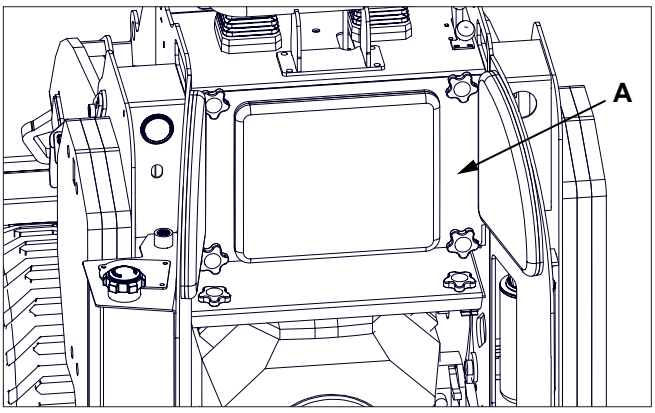
Check battery as needed. Keep battery clean and terminals free of corrosion.

⚠ WARNING

Batteries, battery posts, battery terminals, and related accessories can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

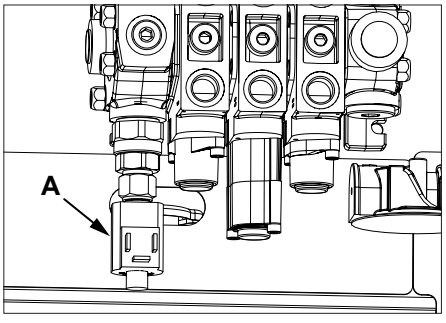
For more information go to www.P65Warnings.ca.gov.

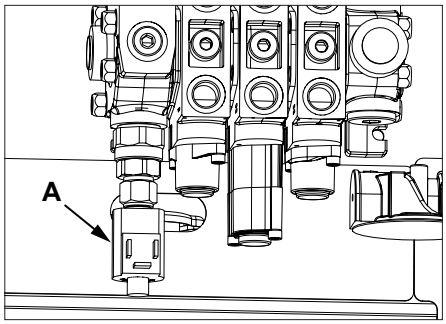
1. Skidsteer must be parked on a level surface, park brake engaged, lift arms fully lowered, engine stopped and key removed.
2. Remove panel (A) to access battery.



3. Loosen and remove negative (-) battery cable clamp.
4. Loosen and remove positive (+) battery cable clamp.
5. Clean cable clamps and terminals.
6. Check cables for wear, damage or corrosion. Replace cables if necessary.
7. Connect positive (+) battery cable clamp.
8. Connect negative (-) battery cable clamp.
9. Verify battery tie downs are tight.
10. Install panel (A).

6 TROUBLESHOOTING

PROBLEM	CHECK	SOLUTION
Engine overheating.	Air intake restricted.	Replace air filter and check intake system.
Hydraulic fluid overheating.	Hydraulic fluid level low.	Add hydraulic fluid.
	Hydraulic cooler clogged	Clean cooler.
	Hydraulic cooler fan not running.	Check fan operation. Check fuse.
	Hydraulic filter clogged.	Replace filter.
	Repeatedly exceeding hydraulic system limits causing hydraulic fluid to flow over relief valve.	Ease up operation, don't exceed limits of the machine.
Weak auxiliary hydraulic function on attachment.	Hydraulic filter clogged.	Replace filter.
	Engine throttle set too low.	Increase engine speed.
	Hydraulic relief valve set too low.	Contact your Baumalight dealer for assistance.
Unit will not move.	Park brake engaged.	Disengage park brake.
	Operator platform not engaged.	Check operator platform to verify switch is engaging.
	Operator on board switch not functioning properly.	Check switch operation. Replace switch if necessary.
	Check for power to boom valve.	With engine stopped and ignition switch in the on position, check to see if light on boom valve solenoid (A) connector is on. If light is not on, check fuse. If fuse is good, check wiring between boom valve and fuse block. 

PROBLEM	CHECK	SOLUTION
Can not connect hydraulic couplers.	Hydraulic pressure lock.	Stop engine and push joystick forward to connect one coupler and pull back to connect the other. Ensure joystick is in neutral position before starting engine.
Boom will not raise.	Operator platform not engaged.	Operator must be standing on operator platform. Check operator platform to verify switch is engaging.
	Park brake engaged.	Disengage park brake.
	Check for power to boom valve.	With engine stopped and ignition switch in the on position, check to see if light on boom valve solenoid (A) connector is on. If light is not on, check fuse. If fuse is good, check wiring between boom valve and fuse block. 
Engine cranks over but does not start.	Auxiliary hydraulic control turned on.	Turn auxiliary control off.
	Battery discharged.	Charge and load test battery. Replace battery if necessary.
	Solenoid failure.	Test solenoid. Replace solenoid if necessary.
	Faulty wiring.	Check for worn or damaged wiring. Repair wires or replace harness if necessary.
Engine will not crank over.	Main fuse blown.	Check fuse located behind ignition switch. See baumalight.com for video.
	Faulty wiring.	Check for worn or damaged wiring. Repair wires or replace harness if necessary.

7 STORAGE

7.1 Storing

1. Store skidsteer in a dry place.
2. Clean skidsteer thoroughly. Dirt will draw moisture and cause rust.
3. Check for loose or missing hardware.
4. Paint parts as necessary.

7.2 Remove From Storage

1. Review Operator's Manual.
2. If parts have been replaced, verify they operate properly.

8 WARRANTY

To view the warranty, scan the QR Code below, or go to Baumalight.com. From the Support drop down, click on Support, then select Mini Skidsteers. Select Product Warranty.

For parts, specifications and the latest machine information please visit our website.

www.baumalight.com

MTB MFG INC.
CORPORATE HEADQUARTERS
4575 Powell Rd.,
Wallenstein, Ontario Canada
N0B 2S0
www.baumalight.com