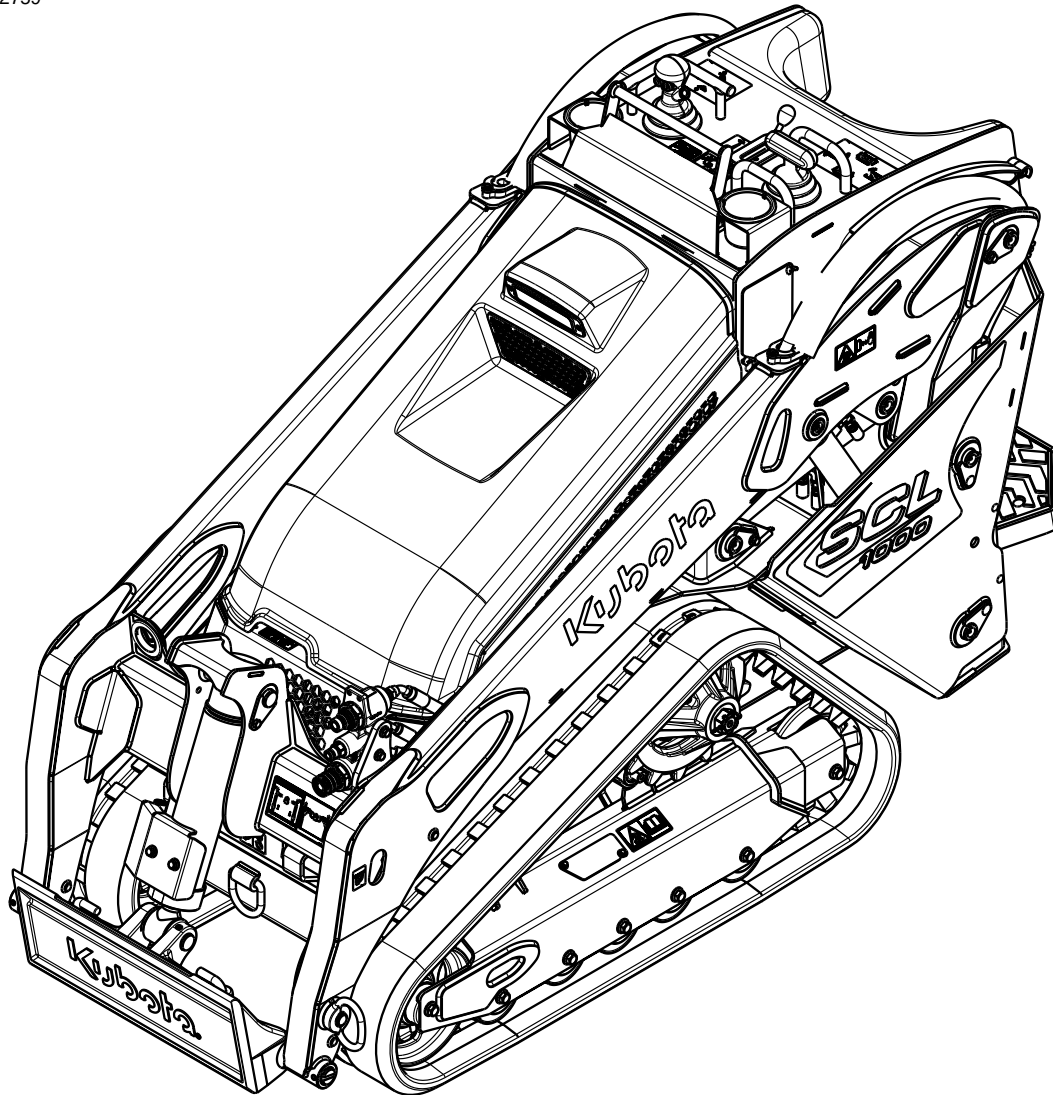


Stand-on Compact Loader

SCL1000

72759



725-137MK Operator's Manual

Kubota®



Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

For an Operator's Manual and Decal Kit in French Language, please see your Kubota dealer.

Machine Identification

Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

If you, or the dealer, have added Options not originally ordered with the machine, or removed Options that were originally ordered, the weights and measurements are no longer accurate for your machine. Update the record by adding the machine weight and measurements provided in the Specifications & Capacities Section of this manual with the Option(s) weight and measurements.

Model Number	
Serial Number	
Machine Height	
Machine Length	
Machine Width	
Machine Weight	
Delivery Date	
First Operation	
Accessories	<div></div> <div></div> <div></div>

Dealer Contact Information


Name:

Street:

City/State:

Telephone:

Email:


California Proposition 65
WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov

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Printed in the United States of America.

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Dealer QR Locator

The QR code on the left will link you to available dealers for Kubota products. Refer to Parts Manual QR Locator on this page for detailed instructions.

Listed below are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Careful operation is your best assurance against an accident.

All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the stand-on compact utility loader and attachments.

- ▲ Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- ▲ Do not operate the stand-on compact loader while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the machine.
- ▲ Operator should be familiar with all functions of the stand-on compact loader and attachments and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating the stand-on compact loader and attachments.
- ▲ Keep all bystanders away from stand-on compact loader and work area.
- ▲ Start the stand-on compact loader from the operator platform with steering levers and hydraulic controls in neutral.
- ▲ Never dismount from a moving stand-on compact loader or leave it unattended with engine running.
- ▲ Do not allow anyone to stand between an attachment and the stand-on compact loader while hooking-up.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- ▲ Store the stand-on compact loader in a safe and secure area where children normally do not play. When needed, secure attachment from falling with solid, non concrete support blocks.



Look for the Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. Hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A signal word designates a degree or level of hazard seriousness. They are:

- ▲ **DANGER:** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- ▲ **WARNING:** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- ▲ **CAUTION:** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

Special notices are intended to point out important and helpful information that should be followed. They are usually placed inside a box. They are:

- IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.
- NOTE:** Indicates supplementary explanations that will be helpful when using the equipment.

Safety Precautions for Children

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to stand-on compact loaders and their work.

- ▲ Never assume children will remain where you last saw them.
- ▲ Keep children out of the work area and under the watchful eye of a responsible adult.
- ▲ Be alert and shut the attachment and machine down if children enter the work area.
- ▲ Never carry children on the machine or attachment. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the machine.
- ▲ Never allow children to operate the power machine, even under adult supervision.
- ▲ Never allow children to play on the machine or attachment.
- ▲ Use extra caution when backing up. Before the machine starts to move, look down and behind to make sure the area is clear.

Stand-on Compact Loader Shutdown And Storage

- ▲ Reduce engine speed, park on solid, level ground, disengage auxiliary hydraulics and lower attachment until it is flat on the ground or solid non concrete support blocks.
- ▲ Turn off engine and turn off the power switch to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressures.
- ▲ Wait for all components to stop before leaving operator platform.
- ▲ Carefully step down from the operator platform.

Listed below are common practices that may or may not be applicable to the products described in this manual.

Dig Safe - Avoid Underground Utilities

- ▲ **USA: Call 811**
CAN: digsafecanada.ca
Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- ▲ Be sure to ask how close you can work to the marks they positioned.

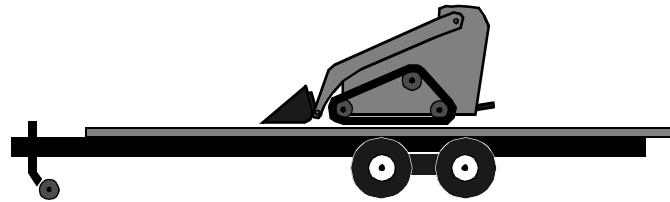


Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure the stand-on compact loader to the trailer with chocks, tie downs, and chains.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if towed trailer is not equipped with brakes.
- ▲ Avoid contact with any overhead utility lines or electrically charged conductors.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.

Operate Safely

- ▲ Always drive with load on end of loader arms low to the ground.
- ▲ Always drive straight up and down slopes with heavy end of the stand-on compact loader on the "uphill" side.
- ▲ Engage park brake when stopped on an incline.



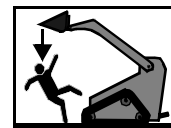
Keep Riders Off Machinery

- ▲ Never carry riders on the stand-on compact loader or attachment.
- ▲ Riders obstruct operator's view and interfere with the control of the machine.
- ▲ Riders can be struck by objects or thrown from the machine.
- ▲ Never use stand-on compact loader or attachment to lift or transport riders.



Practice Safe Maintenance

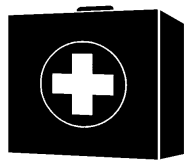
- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean dry area that is well-lit.
- ▲ Lower attachment to the ground and follow all shutdown procedures before leaving the operator platform to perform maintenance.
- ▲ Do not work under any hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- ▲ Use properly grounded electrical outlets and tools.
- ▲ Use correct tools and equipment for the job that are in good condition.
- ▲ Allow the machine to cool before working on it.
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on the machine.
- ▲ Inspect all parts. Make certain that parts are in good condition & installed properly.
- ▲ Replace parts on the stand-on compact loader with genuine Kubota parts only. Do not alter this machine in a way which will adversely affect its performance.
- ▲ Do not grease or oil while the machine is in operation.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Always make sure any material and waste products from the repair and maintenance of the machine are properly collected and disposed.
- ▲ Remove all tools and unused parts from the machine before operation.



These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.



Wear Personal Protective Equipment (PPE)

- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, dust mask, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



Avoid High Pressure Fluids

- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, seek immediate emergency medical care or gangrene may result.



Listed below are common practices that may or may not be applicable to the products described in this manual.

Avoid crystalline Silica (quartz) Dust

Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis).

There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.



- ▲ Be aware of and follow OSHA (or other local, State, or Federal) guidelines for exposure to airborne crystalline silica.
- ▲ Know the work operations where exposure to crystalline silica may occur.
- ▲ Participate in air monitoring or training programs offered by the employer.
- ▲ Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed cabs with positive pressure air conditioning if the machine has such equipment. Otherwise respirators shall be worn.
- ▲ Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter respirator in any way. Workers who use tight-fitting respirators can not have beards/mustaches which interfere with the respirator seal to the face.
- ▲ If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- ▲ Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- ▲ Store food, drink, and personal belongings away from the work area.
- ▲ Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

Handle Chemicals Properly

- ▲ Protective clothing should be worn.
- ▲ Handle all chemicals with care.
- ▲ Follow instructions on container label.
- ▲ Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- ▲ Inhaling smoke from any type of chemical fire can be a serious health hazard.
- ▲ Store or dispose of unused chemicals as specified by the chemical manufacturer.



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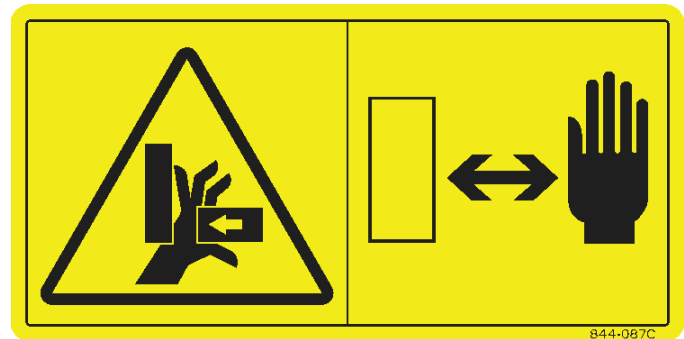
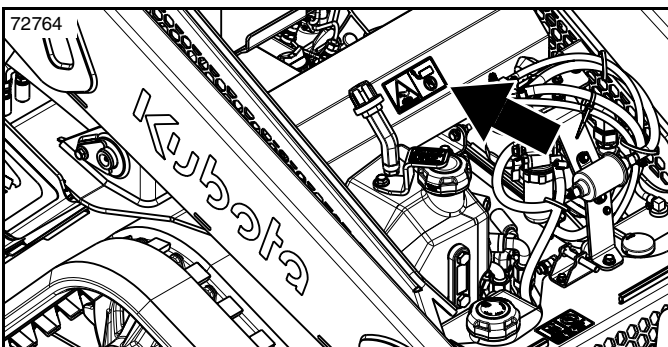
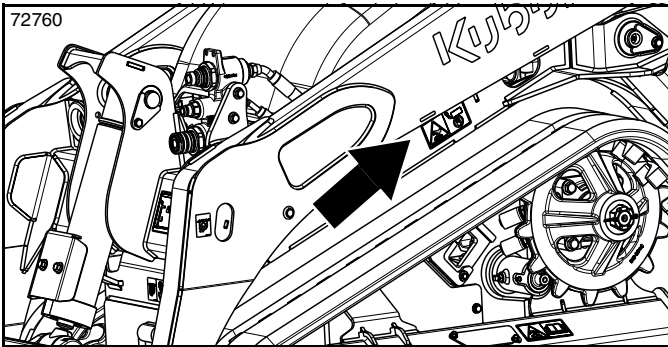
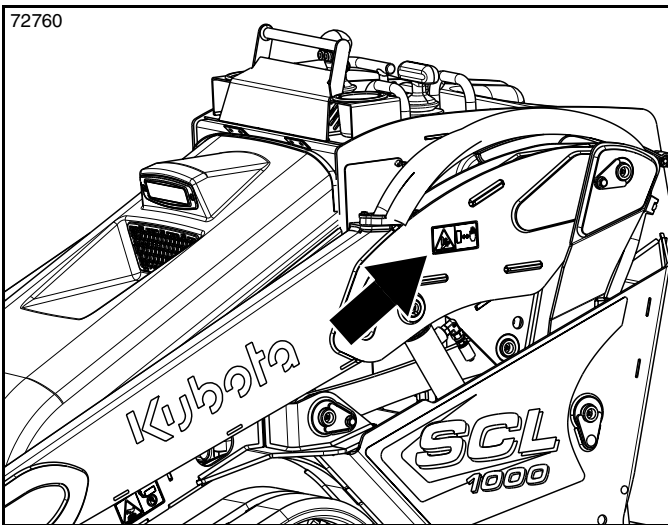
Safety & Instructional Labels

Your Stand-on Compact Loader comes equipped with all safety labels in place. They are designed to help you safely operate your machine. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Kubota dealer. To find your nearest dealer, visit our dealer locator at www.kubota.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Kubota. When ordering new components make sure the correct safety labels are included in the request.

4. Refer to this section for proper label placement. To install new labels:
 - a. Clean surface area where label is to be placed.
 - b. Spray soapy water onto the cleaned area.
 - c. Peel backing from label and press label firmly onto the surface.
 - d. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.

Safety Decals



844-087C

Pinch/crush hazard. Do not allow hands within the working range.

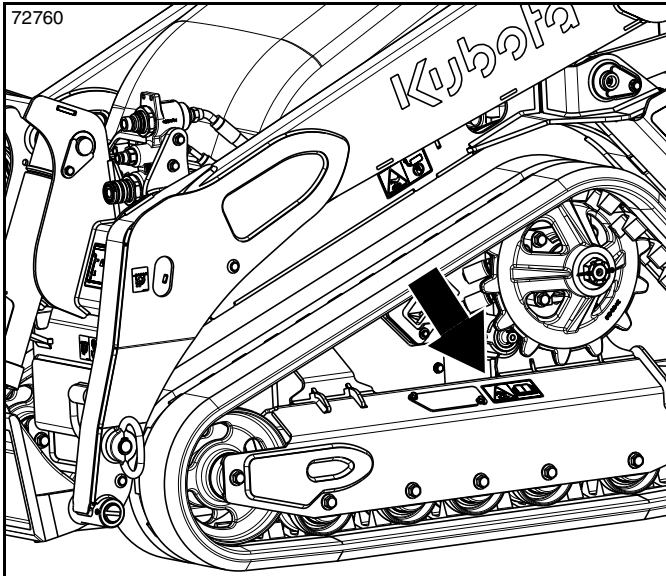
2-Places (left and right side of machine)



844-086C

Burn hazard. Do not touch hot parts such as exhaust etc.

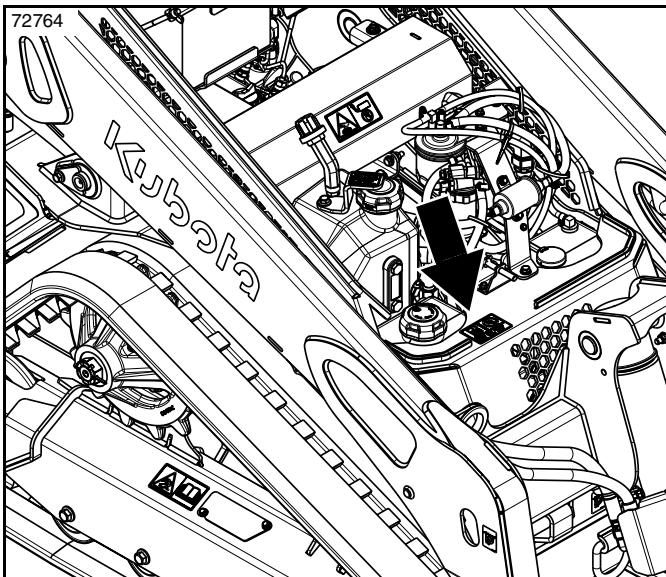
2-Places (1 on the left side of the machine next to the muffler pipe and 1 under the hood on the muffler heat deflector)



844-095C

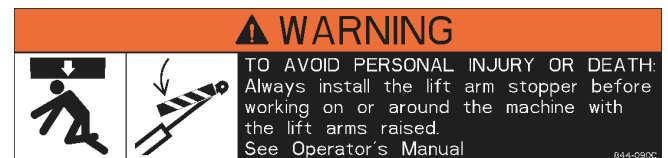
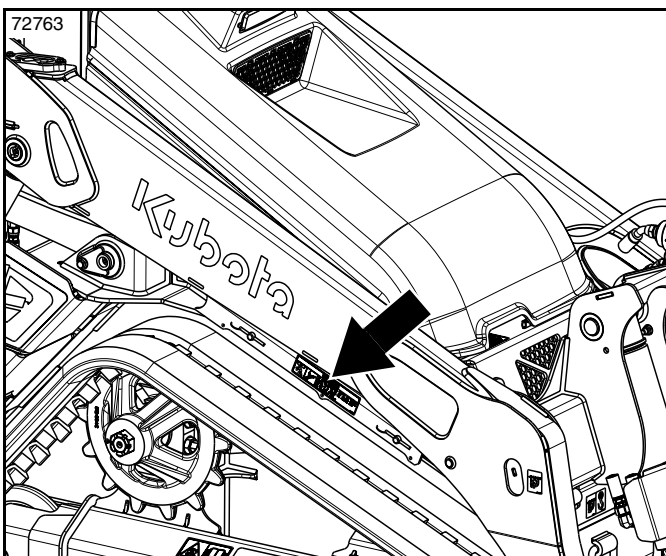
Thrown object hazard and high pressure fluid/grease hazard. Do not loosen fittings completely or too quickly.

2-Places (left and right side of machine)



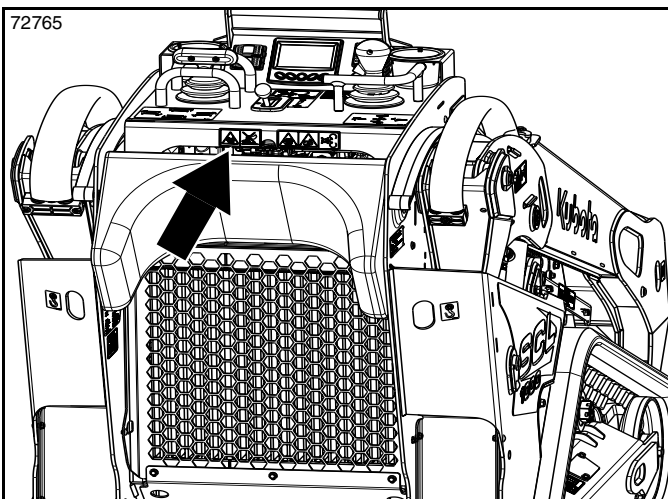
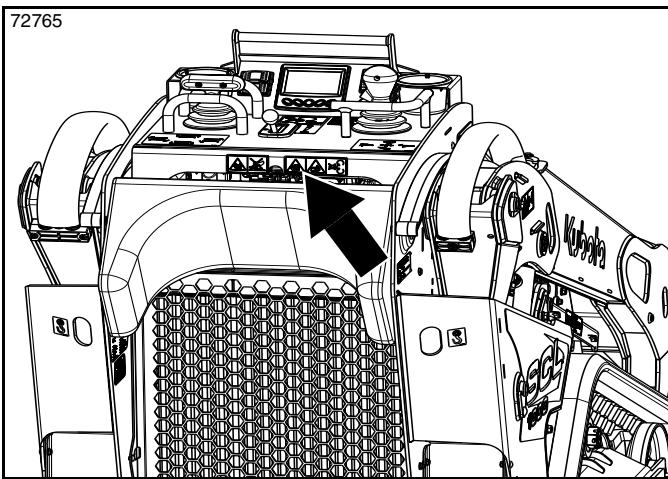
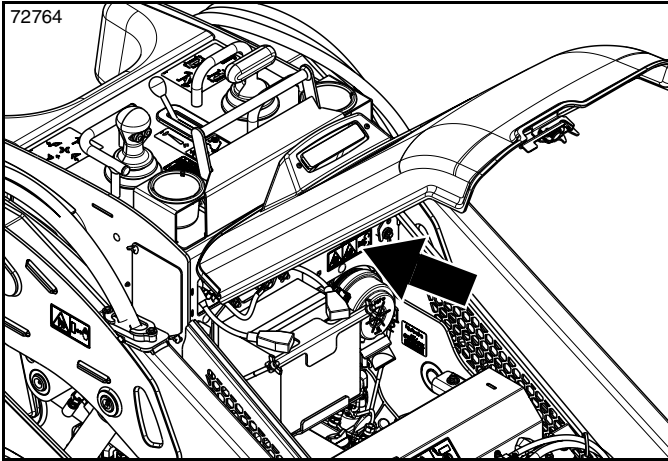
844-085C

Fire hazard. Diesel fuel only. Keep ignition sources away.



844-090C

Crushing hazard. Always use cylinder lock when working around the machine with raised arms.



844-091C

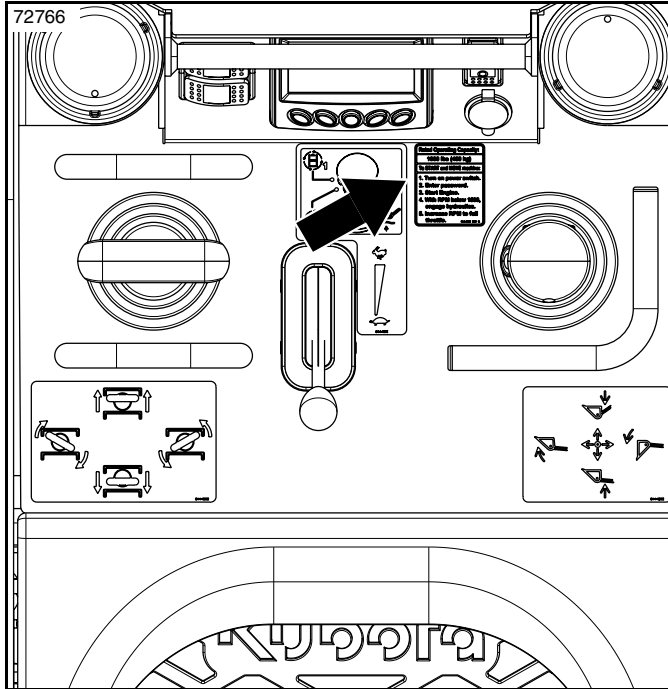
Cutting & entanglement hazard. Keep away from fan and fan belt.

2-Places (Under the hood & behind the cushion).



844-088C

Burn hazard. Never remove radiator cap from a hot radiator. Give time for cool down.



Rated Operating Capacity:

1000 lbs (460 kg)

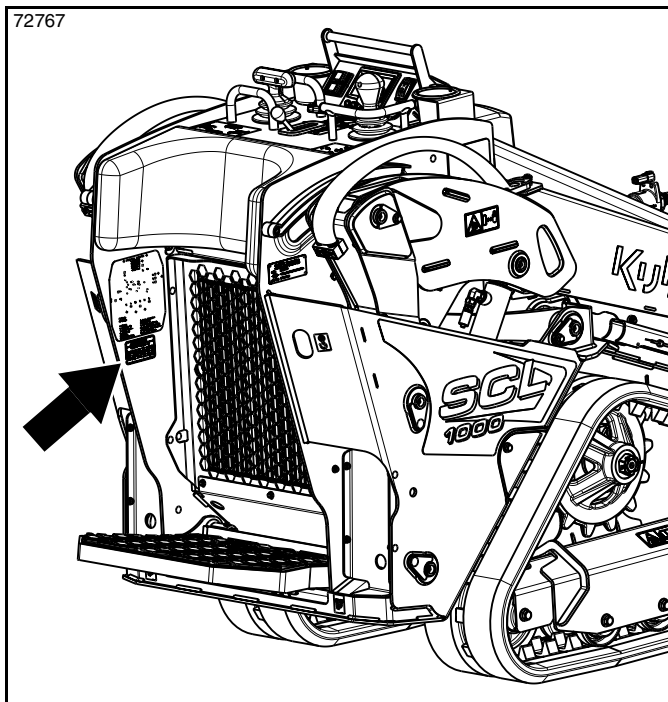
To START and MOVE machine:

1. Turn on power switch.
2. Enter password.
3. Start Engine.
4. With RPM below 1500, engage hydraulics.
5. Increase RPM to full throttle.

844-192C REV B

844-192C

1000 LBS (460 kg) operating capacity.



! WARNING

California Proposition 65

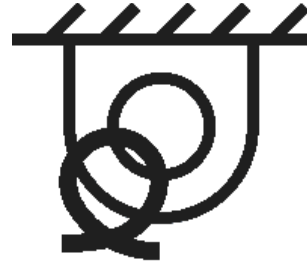
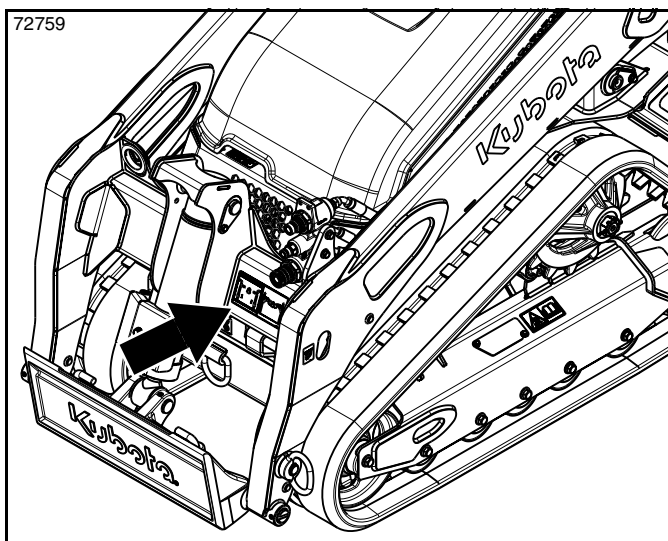
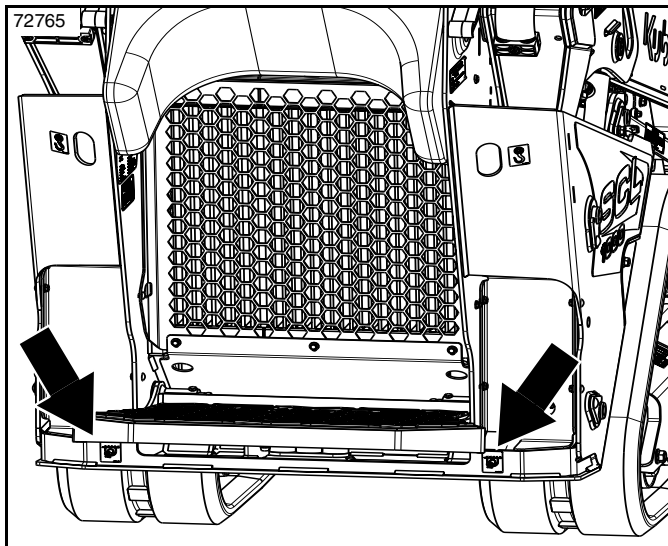
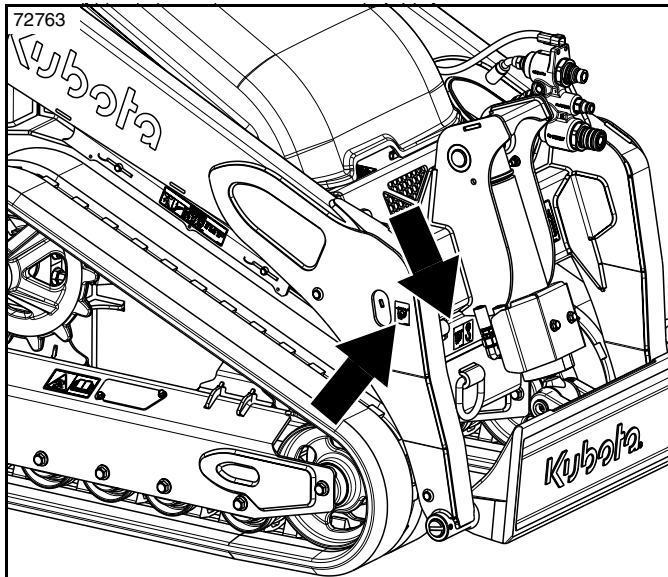
Engine exhaust, some of its constituents, certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

844-246C

844-246C

California Proposition 65. Dangerous chemical hazard.

Instructional Decals

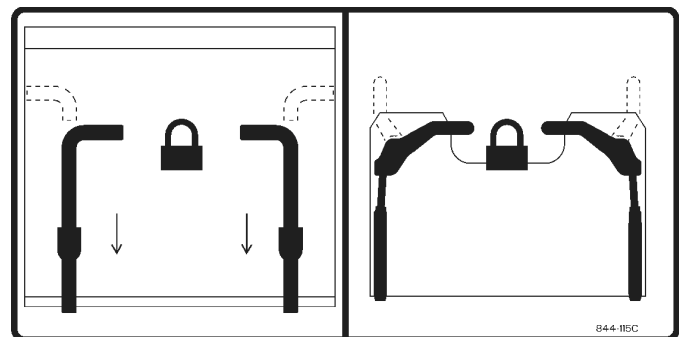


844-089C

844-089C

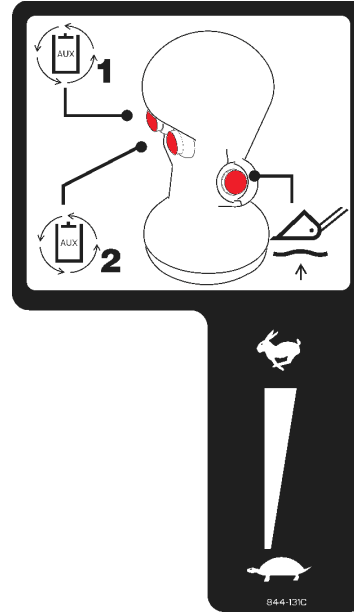
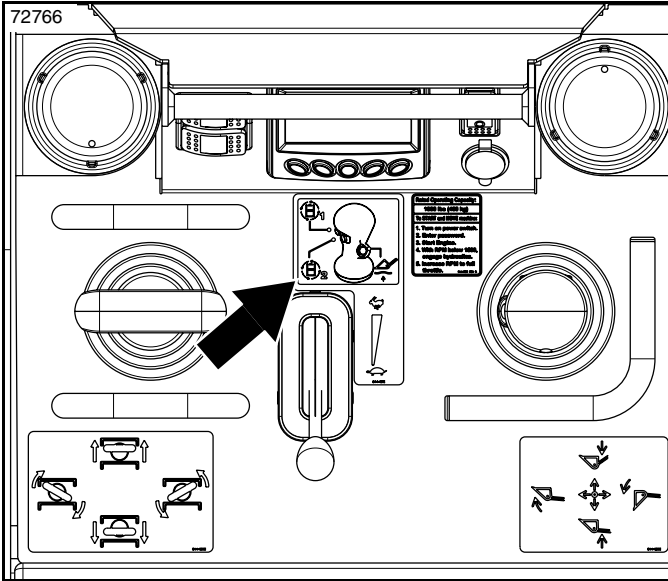
Tie-down points.

5-Places (1 above D ring, 1 on each side of loader arm and 1 on each side of the operator platform).



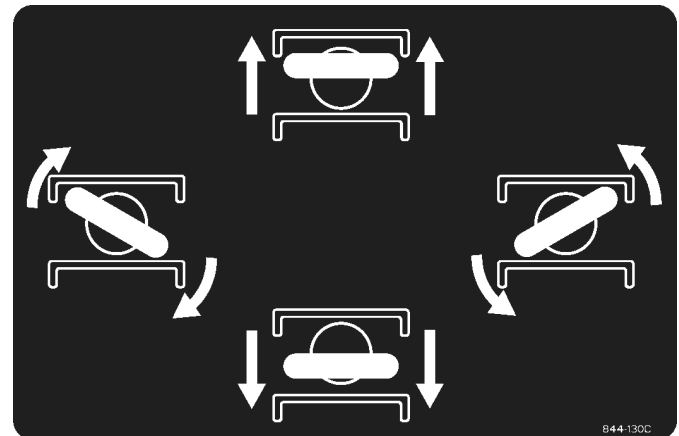
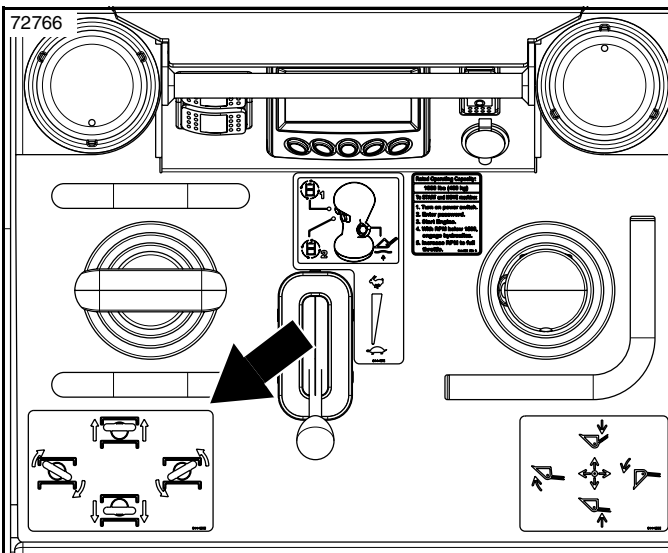
844-115C

Hitch lock instruction.



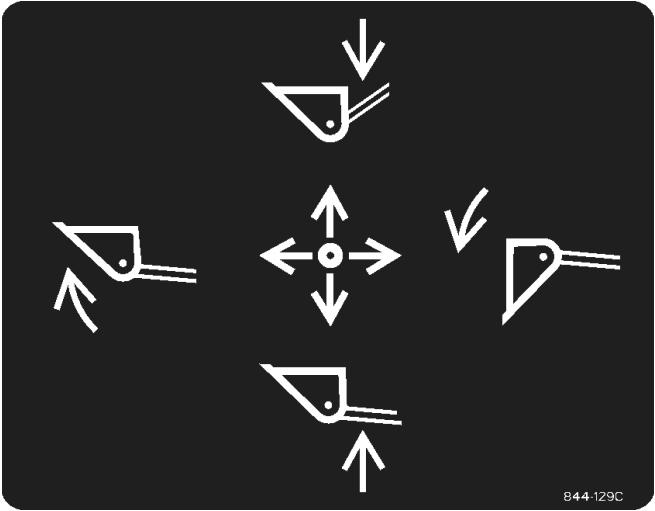
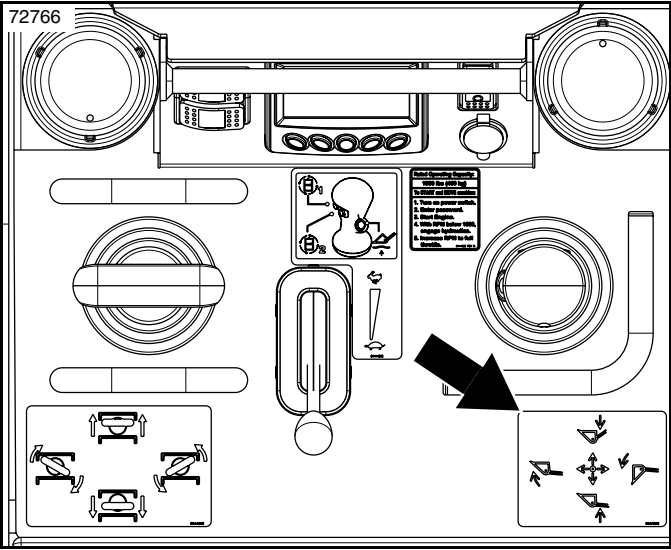
844-131C

Auxiliary hydraulic, float & throttle control instruction.



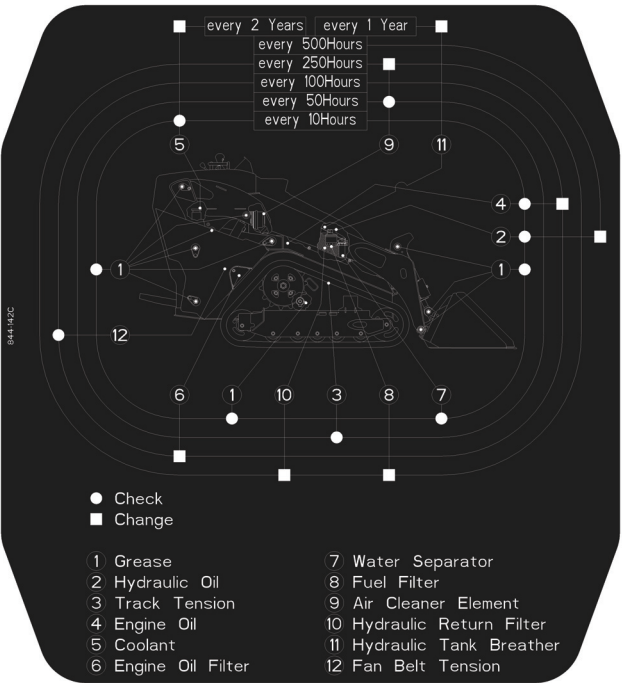
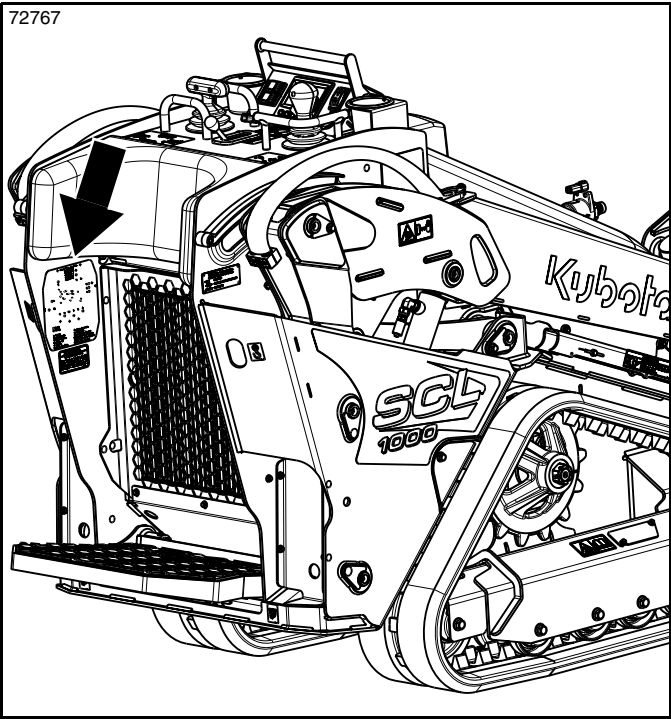
844-130C

Drive control instruction.



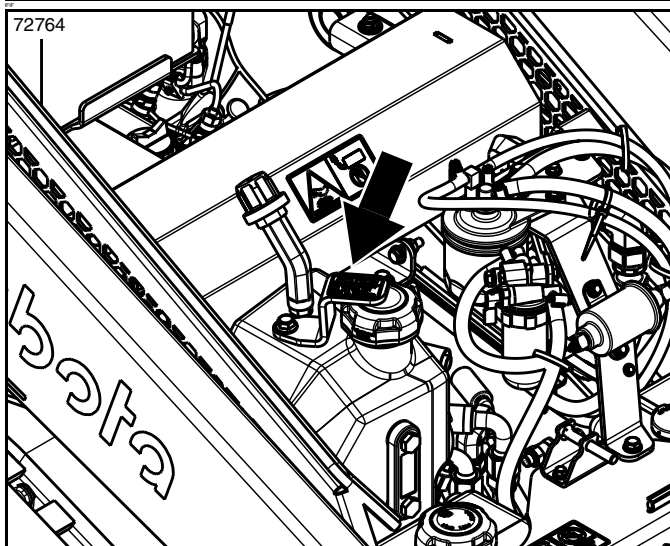
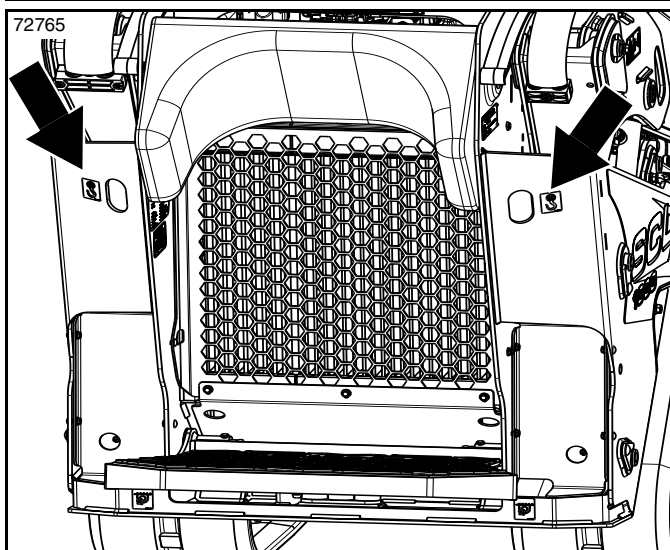
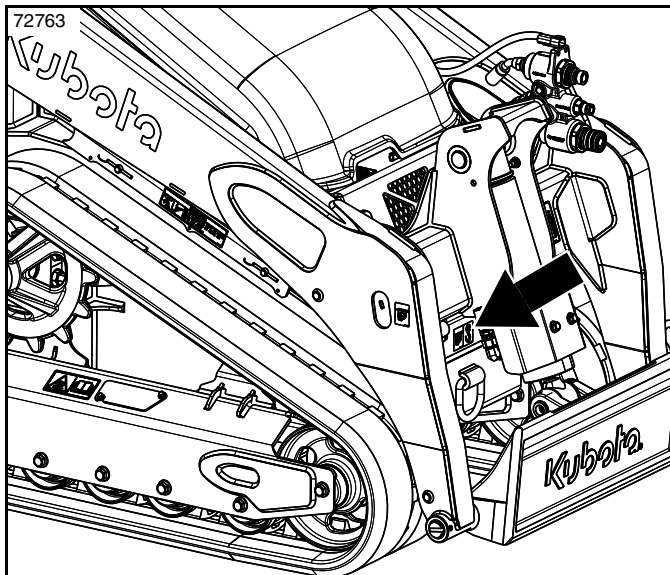
844-129C

Loader control instruction.



844-142C

Service interval instruction.



844-235C

844-235C

Lift points.

3-Places (1 above D ring and 1 on each side of the operator platform).

NOTICE

AFTER FILLING TANK
LET MACHINE IDLE
FOR ONE MINUTE
PRIOR TO OPERATION.

844-247C

Machine idle notice.

Kubota welcomes you to the growing family of new product Owners. This stand-on compact loader has been designed with care and built by skilled workers using quality materials. Proper maintenance and safe operating practices will help you get years of satisfactory use from this machine.

Application

The Kubota SCL1000 Stand-On Compact Loader is designed for use in commercial or rental applications. The features of the SCL1000, coupled with its many attachments, will help the user quickly and effectively complete landscaping and construction tasks. Its narrow width and compact size allow the SCL1000 to complete jobs in areas that larger power units cannot reach. With the available attachments, tasks such as digging, material handling, trenching, and backfilling will be made easier while using the SCL1000.

The SCL1000 has a rated operating capacity of 1,000 lbs (454 kg), 15 gpm (57 Lpm) hydraulic flow, and less than 4 psi of ground pressure. The machine features a 24.8 hp (18.5 kW) turbo charged diesel engine, class leading speed and reach, as well as a keyless start. These features, plus many others, make this stand-on compact loader ideal for landscapers, contractors, or those who like to “do-it-yourself.”

See “**Specifications & Capacities**” on page 72 and “**Features & Benefits**” on page 74 for additional information.

NOTE: This machine has patents pending.

Using This Manual

- This Operator's Manual is designed to help familiarize you with safety, operation, adjustments, troubleshooting and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's Manual contact your authorized dealer.

Terminology

“Right” or “Left” as used in this manual is determined by the direction the operator faces while sitting looking forward in the operator's seat unless otherwise stated.

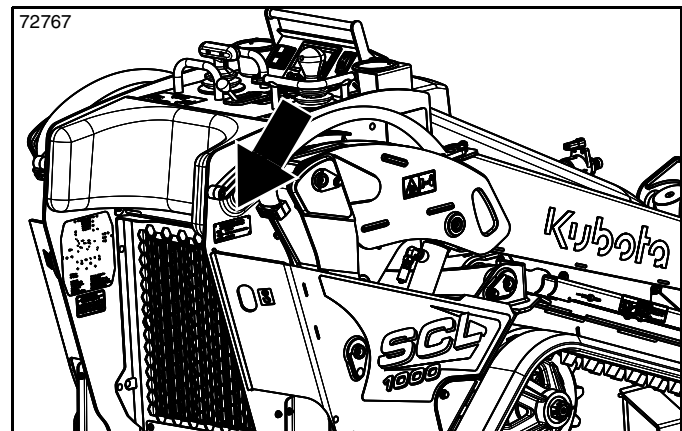
Owner Assistance

The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

The parts on your machine have been specially designed by Kubota/Land Pride and should only be replaced with genuine Kubota parts. Contact a Kubota dealer if customer service or repair parts are required. Your Kubota dealer has trained personnel, repair parts, and equipment needed to service this machine.

Serial Number

For quick reference and prompt service, record model and serial number on the inside cover page and again on the warranty page. Always provide model number and serial number when ordering parts and in all correspondences with your Kubota dealer. For location of your serial number plate, see **Figure 1-1**.



SCL Serial Number Plate
Figure 1-1

Further Assistance

Your dealer wants you to be satisfied with your new stand-on compact loader. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

1. Discuss any problems you have with your machine with your dealership service personnel so they can address the problem.
2. If you are still not satisfied, seek out the Owner or general manager of the dealership, explain the question/problem, and request assistance.

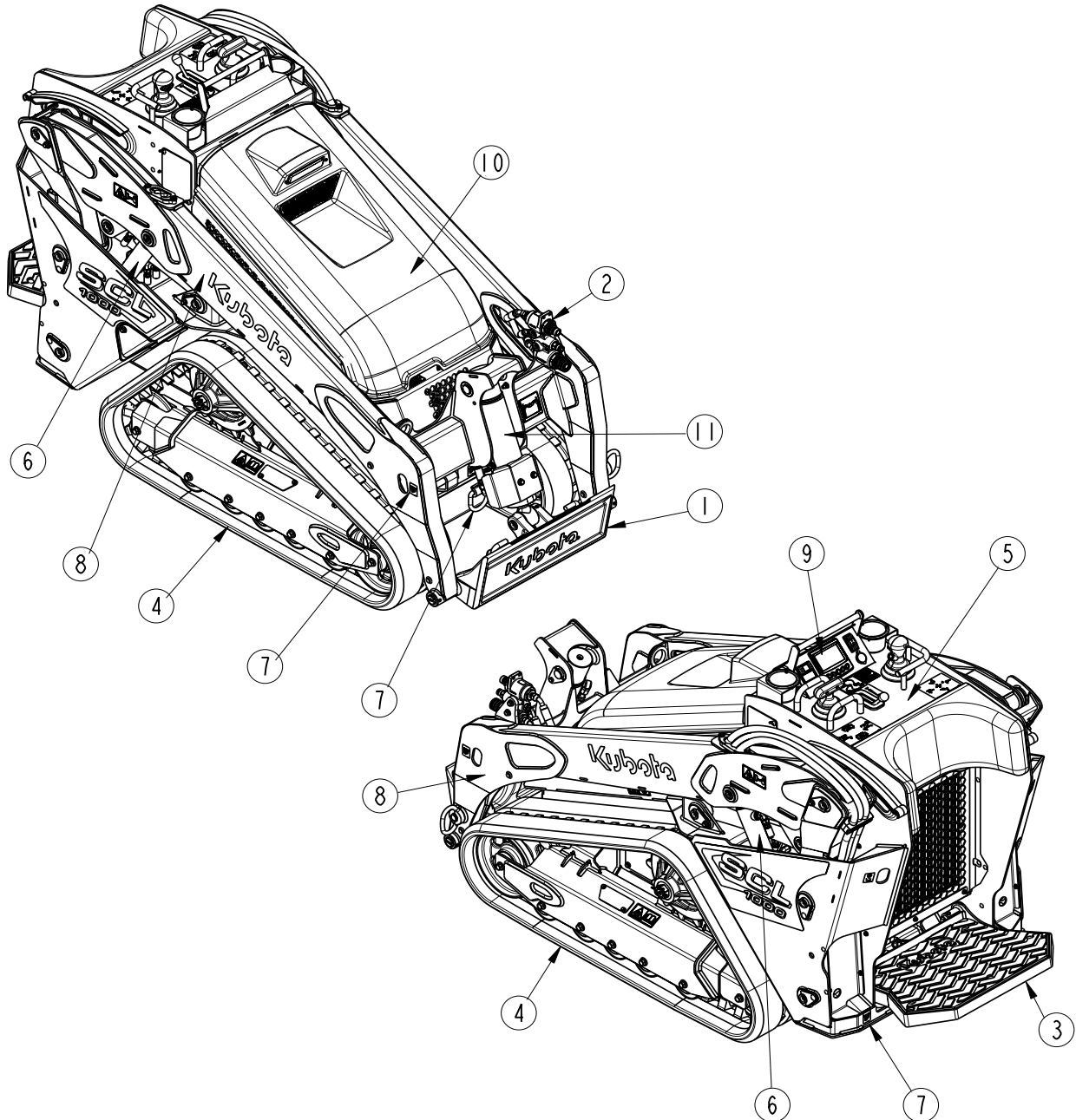
Machine Parts

Refer to Figure 2-1:

Your stand-on compact loader is designed with innovative and state-of-the-art features. Knowing their

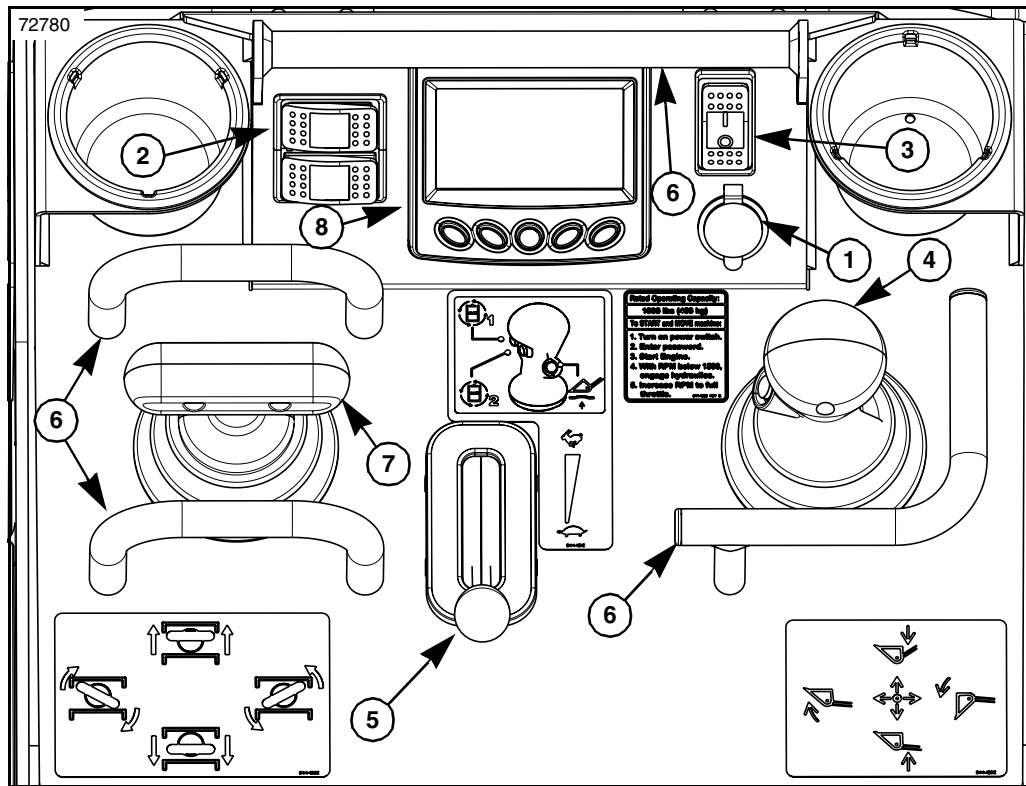
location and how these features work will make handling your SCL1000 more comfortable. Familiarize yourself with the list of key features below.

72778



- | | | |
|--|-------------------|--------------------|
| 1. Common industry interface (CII) hitch plate | 5. Control panel | 9. Control monitor |
| 2. Auxiliary hydraulic couplers | 6. Lift cylinder | 10. Hood |
| 3. Operator platform | 7. Tie-down point | 11. Curl cylinder |
| 4. Track | 8. Loader arm | |

SCL1000 Features
Figure 2-1



Control Panel

Figure 2-2

Control Panel

Refer to Figure 2-2:

Power plug 12V (#1)

The power plug allows the Operator to power and/or charge various electrical devices.

Emergency boom lower switch (#2)

Flip the emergency boom lower switch and press the float button on the loader control handle at the same time (See “Figure 3-29” on page 33) to slowly lower the loader arms to the ground. This switch can be used to lower the loader arms when the hydraulics are not activated. This switch functions even when the power switch is turned off.

WARNING

To avoid serious injury or death:

The loader arms may lower faster if there is a load in the bucket or if there is an attachment hooked up to the loader arms. Make certain nobody is around the loader arms when they are lowered.

Power switch (#3)

Flip the power switch on to power up the control monitor. The power switch also serves as an emergency kill-switch. When the switch is flipped off, the machine will shut down.

Loader control handle (#4)

The loader control handle operates the machine's curl cylinder and lift cylinders. The curl cylinder tilts the bucket, or other attachment, forward and backward. The lift cylinders raise and lower the loader arms. The machine's auxiliary hydraulics and float function are controlled by buttons on the loader control handle. See “Loader Handle Operation” on page 33 for detailed instructions.

Throttle lever (#5)

Engine speed will increase when the throttle lever is pushed forward and decrease when pulled backward.

Grip bars (#6)

Grip bars are in place on the control panel to help the Operator brace themselves in bumpy conditions.

Drive control handle (#7)

The drive control handle controls the machine's maneuverability. See “Drive Handle Operation” on page 32 for detailed instructions.

Control monitor (#8)

The easy-to-read control monitor is passcode protected. It provides many useful functions and features that will aid in completing jobs, properly maintaining the machine and help in overall safe operation. See “Control Monitor Function” on page 20 for detailed instructions.

Section 3: Operating

Before You Start



DANGER

To avoid serious injury or death:

- Check clearances when driving under objects such as doorways or large branches. Be aware of all overhead utility and electrical lines as well as having all underground lines marked if digging will take place.
- Make sure all guards and shields are installed and in good working condition when operating the machine.



WARNING

To avoid serious injury or death:

- Familiarize yourself with the safe operation of the machine.
- Familiarize yourself with the machine's controls.
- Allow only persons to operate this machine who have fully read and comprehended this manual, who have been properly trained in the safe operation of this machine. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Wear all the proper personal protective equipment for head, hands, feet, eyes and ears. This machine can produce noise loud enough to cause hearing damage when ears are exposed for extended periods unprotected.
- Check to see that the operator presence control and all shielding are in working order.
- Familiarize yourself with the job site. Be aware of any obstacles that you might encounter.
- Make sure the working area is clear of people and animals.

Hazard control and accident prevention are dependent upon awareness, concern, prudence and proper training involved in operation, transport, maintenance, and storage of the stand-on compact loader. Therefore, it is absolutely essential that no one operates the stand-on compact loader without first having read, fully understood, and become totally familiar with the Operator's Manual. Make sure the Operator has paid particular attention to:

- **Important Safety Information**, page 6
- **Section 2: Product Overview**, page 15
- **Section 3: Operating**, page 17
- **Section 5: Maintenance & Lubrication**, page 46

Perform the following Operating Checklist before operating your stand-on compact loader.

Operating Checklist

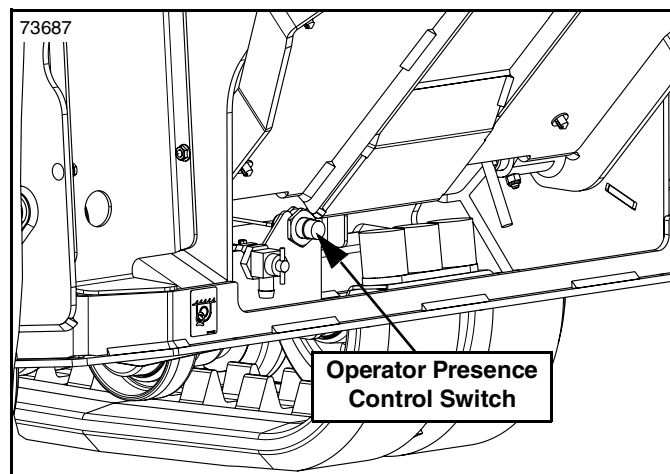
✓	Check	Ref.
	Make sure there are no hydraulic leaks on the unit. Refer to "Avoid High Pressure Fluids".	Page 3
	Check the condition of the safety labels and carefully read and follow all safety rules. Refer to "Safety Decals".	Page 6
	Make sure to get familiar with the stand-on compact loader feature parts and controls. Refer to "Section 2: Product Overview".	Page 15
	Check all control lamps, indicators and hour meter. Refer to "Control Monitor Function".	Page 16
	Read and follow all operating procedures. Refer to "Section 3: Operating".	Page 17
	Check service reminders. Refer to "Service Reminders Screen" on page 26.	Page 26
	Check the machine's fluid levels and perform all daily and scheduled maintenance and lubrications. Refer to "Section 5: Maintenance & Lubrication".	Page 46
	Check for loose hardware initially and periodically. Refer to "Section 9: Torque Values Chart".	Page 75
	Go around the machine and check for visual damage and wear.	

Operator Presence Control

Refer to Figure 3-1:

The operator presence control is in place for the safety of the Operator and anyone in the surrounding area. It should be maintained in good working condition. Do not operate the machine if the operator presence control is not functioning properly.

Located under the operator platform, the operator presence control detects when the Operator is present on the operator platform. The operator presence control must detect an Operator in order to activate the hydraulics, drive the machine or operate the loader. All hydraulically powered functions will stop when the operator presence control does not detect an Operator. The operator presence control can be temporarily overridden. The temporary override procedure can be found on page 24.



Operator Presence Control Switch Location
Figure 3-1

Operator Platform Adjustment

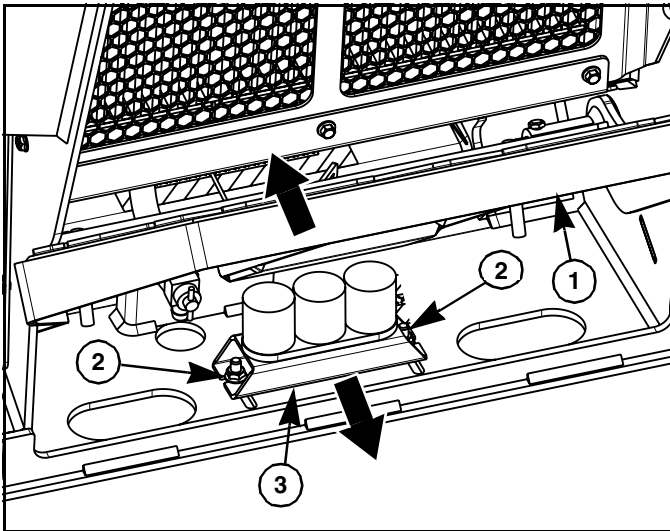
Refer to Figure 3-2:

The operator platform can be adjusted for heavier or lighter operators to ensure that the operator presence control functions properly.

1. Lift operator platform (#1) to access rubber bumper assembly (#3).
2. Loosen flange nuts (#2) enough to adjust rubber bumper assembly (#3).
3. Adjust rubber bumper assembly to desired location by sliding it forward or back.

NOTE: The rubber bumper assembly adjusts to allow more or less "suspension" on the operating platform. Moving the rubber bumpers towards the front of the machine makes the operator platform more springy, moving them towards the back of the machine makes the operator platform more firm. Typically, for lighter operators, the rubber bumper assembly should be adjusted towards the front of the machine and towards the back for heavier operators.

4. Tighten flange nuts (#2) to correct torque.



Operator Platform Adjustment
Figure 3-2

Starting The Engine



DANGER

To avoid serious injury or death:

Do not operate the machine in an enclosed area without proper ventilation.



WARNING

To avoid serious injury or death:

- Always start the engine from the operator's platform. Do not start the engine while standing next to the machine.

- Before starting engine, be sure no one is near the machine.
- The Operator should not depend solely on the warning lamps, but should always perform the operating checklist. See "Operating Checklist" on page 17.

IMPORTANT: Do not use starting fluid or ether.

IMPORTANT: In order not to overload the battery and starter, avoid start-ups of more than 10 seconds. When the engine does not start in 10 seconds, wait 20 seconds or more, before trying to start again. If the battery is dead and must be connected to another battery with jumper cable, be sure to use a 12V battery. Never use 24V batteries.

Perform the following steps to start the engine.

1. Set the throttle lever to low throttle.
2. Flip power switch to the on position.
3. A start up screen will appear on the monitor. It will ask for your passcode. Enter your passcode using the buttons on the control monitor.

NOTE: A passcode will be provided by your dealer at the time of purchase. You can then change the passcode whenever desired.

4. When correct passcode has been entered, you will advance to a new screen. Proceed as follows.
 - **Under normal conditions** press the middle button on the monitor to start the engine.
 - **Under cold conditions** press the button under the glow plug lamp. The glow plug lamp will then turn green. Wait for the green glow plug lamp to turn off. Press middle button to start the machine. Let the engine warm up after start-up for approximately 5 minutes under no load conditions. If the hydraulic fluid temperature is too low, the operations or the function of the pilot controls will be affected. Do not operate the machine under full load before the engine has warmed up.

Starting With An Auxiliary Battery

Refer to Figure 3-3:



WARNING

To avoid serious injury or death:

- Do not smoke and keep sparks and flames away. Battery gases can explode.
- Do not start the engine with an auxiliary battery if machine battery is frozen.

Observe the following guidelines when starting with an auxiliary battery.

1. Bring the helping machine with the same battery voltage as near as possible to the machine.

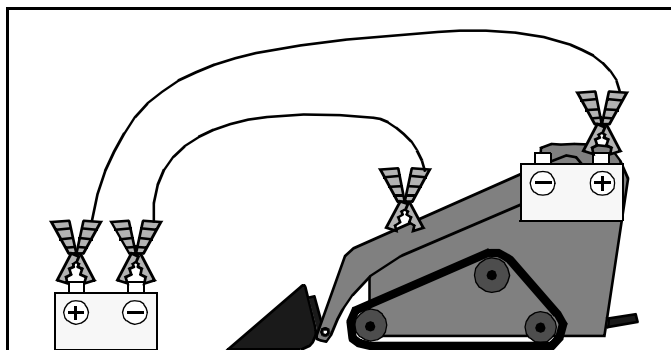
IMPORTANT: The machines must not come in contact with each other.

2. Turn the helping machine off.
3. Wear eye protection and rubber gloves.
4. Ensure vent caps are securely in place (if equipped).
5. Connect red jumper cable to positive (+) terminal of the low battery then connect the other end to the positive (+) terminal of the auxiliary battery.
6. Connect the black jumper cable to the negative (-) terminal of the auxiliary battery then connect the other end to a conductive part of the machine frame (bare metal) as far away as possible from the low battery.

IMPORTANT: Do not connect the black jumper cable to the negative (-) terminal of the machine battery.

7. Start the engine of the helping machine and let it run for a while. Start the machine with the low battery.
8. Disconnect the jumper cables in the reverse sequence.

IMPORTANT: This machine has a negative (-) ground 12 Volt starting system. Only use the same voltage when using an auxiliary battery. Using a higher voltage will cause serious damage to the electrical system. When using an auxiliary battery, only the compatible (same) voltage is permissible.



Auxiliary Battery Hook-up
Figure 3-3

Shutting Off The Engine



WARNING

To avoid serious injury or death:

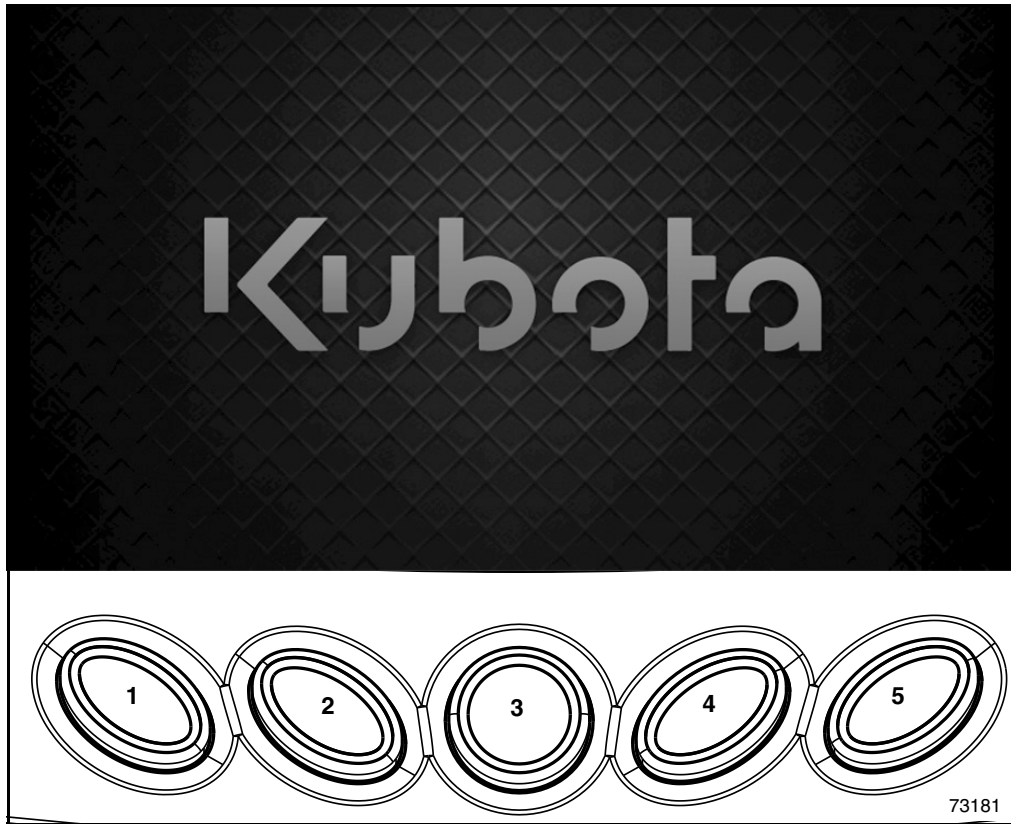
- Before shutting engine off, fully lower loader arms. Do not keep the bucket or attachment in the raised position, the levers could accidentally be activated and cause serious accidents.
- Place the machine on flat level ground.

SCL Shutdown Procedure

The following are basic stand-on compact loader shutdown procedures. Follow these procedures before leaving the operator platform.

1. Park on solid, level ground.
2. Reduce engine speed.
3. Shut-off auxiliary power to attachment (if applicable).
4. Lower the loader arms and attachment (if applicable) until it is flat on the ground or on non-concrete support blocks.
5. Press the middle button on the control monitor to stop the engine, and turn the power switch off.
6. Wait for all components to come to a complete stop before leaving the operator platform.

IMPORTANT: Let the engine idle at low throttle for 1-2 minutes before shutting engine off. This helps cool the engine before shutting off. In the case of an emergency you can shut the engine off immediately by turning off the power switch.



Monitor with Splash Screen Displayed
Figure 3-4

Control Monitor Function

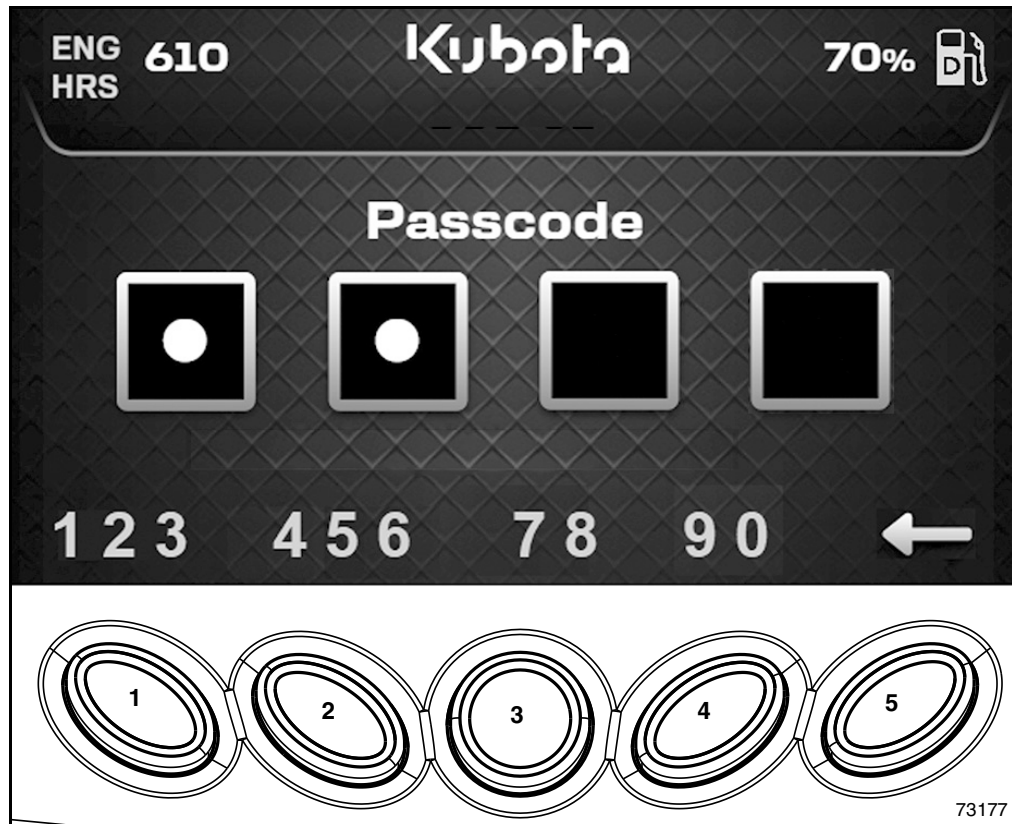
The following is a detailed description of the control monitor's functions and instructions for operating the monitor. Toggle the power switch on to power up the control monitor.

NOTE: The monitor buttons are not numbered on your machine as shown in the following images. They are numbered here for reference only.

Splash Screen

Refer to Figure 3-4:

The first screen displayed on the monitor is the **Splash** screen. This screen will display for a few seconds until it loads up. Full reboot with the **Splash** screen only occurs after the power has been off for more than 30 minutes. A button ribbon at the bottom of the screen will also be displayed. The ribbon will indicate the functions for each button.



Passcode Screen
Figure 3-5

Passcode Screen

Refer to Figure 3-5:

After the **Splash** screen, if startup passcode is enabled, the **Passcode** screen will display. This screen will show engine hours in the upper left corner, the fuel percentage level in the upper right corner and boxes in the center of the screen for the 4-digit owner or user passcode. The operator must enter the 4-digit passcode to advance to the **Home** screen and begin operation.

The first four buttons on the **Passcode** screen are associated with four groups of numbers and the fifth button is a backspace:

Button (#1) [1,2,3]

Button (#2) [4,5,6]

Button (#3) [7,8]

Button (#4) [9,0]

Button (#5) Backspace:

Press the backspace to move back to the previous digit box

For example, if the user code is 9325, the operator would press buttons 4, 1, 1, 2. When entering the code, the first box is selected by default. Once a value is entered, the selection automatically advances to the next box. When a value is entered in the fourth box, the passcode is automatically checked. If the code is incorrect, the entry

is reset and "Invalid passcode" is displayed. If correct, the **Home** screen appears.

The monitor will remain on as long as the power switch is flipped on. If the power switch is flipped off, the monitor will black out. If the monitor is blacked out for longer than 30 minutes, the Operator will have to re enter the passcode to resume.

NOTE: A 4-digit owner passcode will be provided by your dealer at the time of purchase. You can then add a user passcode and also change the owner passcode as desired. See "**Passcode Management Screen**" on page 29.

Forgotten passcodes can be retrieved. See "**Passcode Management Screen**" on page 29.



Home Screen
Figure 3-6

Home Screen

Refer to Figure 3-6:

The **Home** screen will display all the following data:

- **Temperature gauge**



The temperature gauge is displayed as a half circle on the left side of the screen. The gauge will turn red when the engine is overheating. When the engine is critically hot, the gauge will flash.

- **Fuel gauge**



The fuel gauge is displayed as a half circle on the right side of the screen. The fuel level percentage is displayed to the upper right of the gauge. The gauge turns red at 10% and flashes at 5%.

- **Operator presence light**



The operator presence light will display green when the Operator is on the operator platform. The light will be red otherwise.

- **Service required light**



The service required light will display red if any service reminder items are overdue. The light will stay on until all overdue items have been reset. See “**Service Reminders Screen**” on page 26.

- **Low oil pressure alert**



The low oil pressure light will display in red when the engine oil pressure is too low. If the

machine is in operation and the low oil pressure sensor is triggered, an alert will appear saying “**WARNING: LOW OIL PRESSURE. When safe, shutdown immediately to avoid engine damage.**” After 6 seconds if the machine is still in operation, the engine will automatically shutdown and the alert changes to “**Engine auto-shutdown due to low oil pressure.**” The Operator must acknowledge by pressing submit button to clear it.

- **Air cleaner full light**



The air cleaner full light will display in red when the air cleaner is clogged and needs cleaned.

- **Float activated light**



The float activated light will display green when the float function is activated. See “**Float Function**” on page 33.

- **RPM**

Engine RPMs (revolutions per minute) are displayed under the temperature gauge.

- **Engine hours**

Engine hours displayed under the temperature gauge.

- **Battery voltage**

Battery voltage is displayed under the fuel gauge. If the engine is off, the battery voltage flashes red if voltage drops below 11.5V. If the engine is on, the battery voltage flashes red if voltage drops below 12.5V.

• Real time clock

The time is displayed under the fuel gauge as a digital clock. The time can be adjusted in the settings menu.


Home Screen Button Functions

Refer to Figure 3-6:


The button functions are represented by corresponding icons at the bottom of the screen.

Before starting the engine, the buttons are:

Button (#1) Menu:


 Press button (#1) in the **Home** screen to go to the **Menu** screen.

Button (#2) Work light:


 Press button (#2) in the **Home** screen to toggle the machine's work light on and off.

NOTE: The work light will stay on for 30 seconds after the power switch has been switched off.

Button (#3) Start:

 Press and hold button (#3) to power on the engine. The start icon will light green while the starter is cranking.

Button (#4) Glow plugs:

 Press button (#4) once to activate glow plugs for 5 seconds, or press the button up to 6 times to activate the glow plugs for 30 seconds (5 seconds for each press of the button). This process may be repeated after the 30 seconds is up. A countdown timer will be displayed under the glow plug icon. The glow plug icon will turn green while the glow plugs are activated.


Button (#5) Disabled:

Button (#5) has no function in the **Home** screen while the engine is off.

With engine running, buttons 1, 2, and 5 retain the same function, buttons 3 and 4 change as follows:

Button (#3) Stop:

Refer to Figure 3-7:

 Press button (#3) to turn power off to the engine (do not need to hold the button).

NOTE: Power switch (#3) in **Control Panel** also acts as an emergency engine kill switch.

Button (#4) Hydraulics:

Refer to Figure 3-7:

 *With the engine on and the Operator present on the operator platform:*

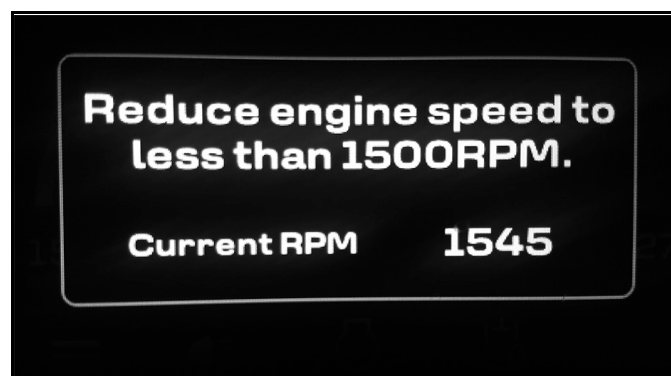
Press button (#4) to toggle hydraulics on and off. The hydraulics unlocked icon displays green when the hydraulics are on.

NOTE: With the hydraulics unlocked, if the Operator leaves the operator platform, the hydraulics lock automatically while away and unlock automatically when the Operator returns to the operator platform.

IMPORTANT: Hydraulics can only be unlocked when engine RPMs are below 1500. If the Operator attempts to unlock the hydraulics while the engine RPMs are above 1500, an alert will pop up saying "Reduce engine speed to less than 1500 RPM." See Figure 3-8.



Home Screen Machine On
Figure 3-7



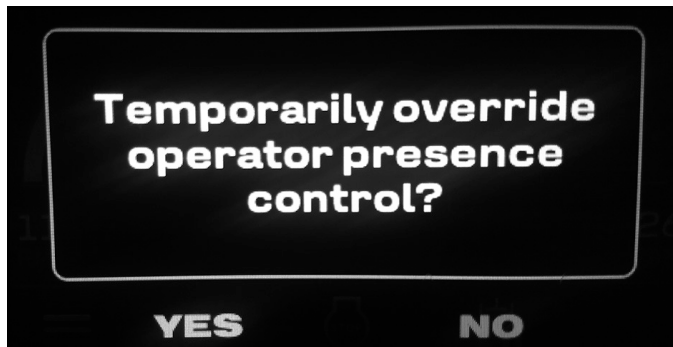
Reduce RPM
Figure 3-8

Section 3: Operating

With the engine on and the Operator NOT present on the operator platform:

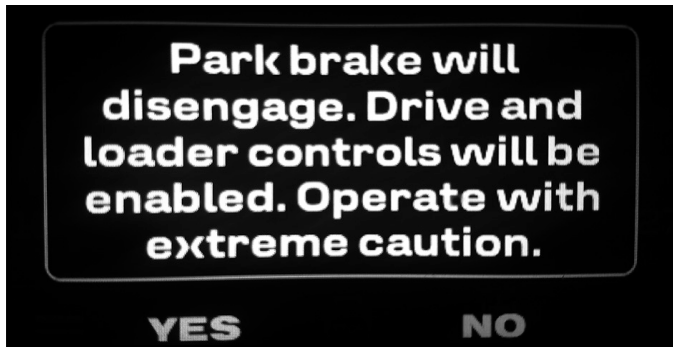
Refer to Figure 3-9 & Figure 3-10:

Press button (#4) to begin operator presence override. A prompt **“Temporarily override operator presence control?”** appears. Press button (#2) to submit or button (#4) to cancel. “Cancel” returns you to the **Home Screen**. “Submit” will move you to a second prompt: **“Park brake will disengage. Drive and loader controls will be enabled. Operate with extreme caution.”** Press button (#2) to submit or button (#4) to cancel. “Cancel” returns you to the **Home** screen. “Submit” activates the hydraulics and returns you to the **Home** screen. The hydraulics unlocked icon will display green.



Operator Presence Control Override Prompt 1

Figure 3-9



Operator Presence Control Override Prompt 2

Figure 3-10

NOTE: The override will turn off if the engine shuts down, the hydraulics are turned off, or if the Operator becomes present on the operator platform. In the case of the Operator becoming present, the override will turn off, but the hydraulics will remain unlocked.

NOTE: The auxiliary hydraulics and float functions are not enabled while the machine is in manual override.

With engine on, Operator on operator platform and hydraulics unlocked, float function and AUX controls become available and button 5 changes as follows:

Refer to Figure 3-11:

Button (#5) Auxiliary Hold Mode:



Press button (#5) to toggle the AUX hold on and off. The AUX hold icon will display green when AUX hold is on. With AUX hold on, press the button on the loader handle that operates the hydraulic flow in the direction intended for your application. Press the button part way to soft start or press all the way to hard start. See **“Figure 3-29”** on page 33. AUX hold will keep the auxiliary running after releasing the button. Press the same button part way to soft stop or press all the way to hard stop. Pressing the opposite auxiliary button or both auxiliary buttons at same time will hard stop as well. Press button (#5) to exit AUX hold mode.

NOTE: Soft start means auxiliary slowly comes up to max speed rather than immediately as in a hard start. Likewise soft stop slowly reduces hydraulic fluid to a stop rather than immediately as in a hard stop.

The max speeds can be adjusted via the max settings in the **auxiliary flow** menu. See **“Auxiliary Flow Screen”** on page 26.

NOTE: The auxiliary hold mode turns off any time the hydraulics are turned off from the monitor or when the Operator leaves the operator platform.

Float

With loader arms and attachment lowered to the ground, press button (#11) on the loader handle to activate the float function (See **“Figure 3-29”** on page 33). The float icon will display green when activated. The loader arms and attachment will follow the contours of the ground while in “float”. The float function can only be enabled when the hydraulics are unlocked, however, not when the operator presence is overridden. To deactivate the float function, press button (#11) on the loader handle or pull back on the loader handle as if raising the loader arms.



Float On
Figure 3-11