
Safety rules

General safety rules

Use caution when you operate the machine on slopes. Raised equipment, full tanks and other loads will change the center of gravity of the machine. The machine can tip or roll over when near ditches and embankments or uneven surfaces.

Never permit anyone other than the operator to ride on the machine.

Never operate the machine under the influence of alcohol or drugs, or while you are otherwise impaired.

When digging or using ground-engaging attachments, be aware of buried cables. Contact local utilities to determine the locations of services.

Pay attention to overhead power lines and hanging obstacles. High voltage lines may require significant clearance for safety.

Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin, causing serious injury or infection.

- DO NOT use your hand to check for leaks. Use a piece of cardboard or paper.
- Stop the engine, remove the key, and relieve the pressure before you connect or disconnect fluid lines.
- Make sure that all components are in good condition. Tighten all connections before you start the engine or pressurize the system.
- If hydraulic fluid or diesel fuel penetrates the skin, seek medical attention immediately.
- Continuous long term contact with hydraulic fluid may cause skin cancer. Avoid long term contact and wash the skin promptly with soap and water.

Keep clear of moving parts. Loose clothing, jewelry, watches, long hair, and other loose or hanging items can become entangled in moving parts.

Wear protective equipment when appropriate.

DO NOT attempt to remove material from any part of the machine while it is being operated or while components are in motion.

Make sure that all guards and shields are in good condition and properly installed before you operate the machine. Never operate the machine with shields removed. Always close access doors or panels before you operate the machine.

Dirty or slippery steps, ladders, walkways, and platforms can cause falls. Make sure these surfaces remain clean and clear of debris.

A person or pet within the operating area of a machine can be struck or crushed by the machine or its equipment. DO NOT allow anyone to enter the work area.

Raised equipment and/or loads can fall unexpectedly and crush persons underneath. Never allow anyone to enter the area underneath raised equipment during operation.

Never operate the engine in enclosed spaces as harmful exhaust gases may build up.

Before you start the machine, be sure that all controls are in neutral or park lock position.

Start the engine only from the operator's seat. If you bypass the safety start switch, the engine can start with the transmission in gear. Do not connect or short across terminals on the starter solenoid. Attach jumper cables as described in the manual. Starting in gear may cause death or serious injury.

Always keep windows, mirrors, all lighting, Slow-Moving Vehicle (SMV) emblem and Speed Identification Symbol (SIS) clean to provide the best possible visibility while you operate the machine.

Operate controls only when seated in the operator's seat, except for those controls expressly intended for use from other locations.

Do not make any adjustments (e.g. seat, steering, light, mirror, ...) while the machine is in motion. Ensure that all adjustments are locked prior to use. Check the tightness of the securing screws and that the adjustment controls are working properly. Fitting and/or repairing the seat shall only be performed by skilled personnel.

Modifications made to this machine may increase the likelihood or potential for debris accumulations that would normally not be present. Modifications include frame-mounted attachments, plates, screens, or other aftermarket equipment. Operators of modified machines must be aware of accumulations of organic debris and/or material and overall machine cleanliness.

Modified machines require additional and more frequent inspection and cleaning during usage. The machine may require inspection and cleaning multiple times per day during usage. Operators must be aware of the operating environment and conditions. Operators must take appropriate actions to maintain the machines during use. In particular, pay attention to the following machine areas:

- In and around the engine compartment
- Hot exhaust components
- Moving, turning, or rotating machine components

Operators that operate the machine in atypical applications and/or conditions must be aware of accumulations of organic debris and/or material and overall machine cleanliness. Pay particular attention where material accumulations are possible or may result.

Machines that operate in atypical applications or conditions require additional and more frequent inspection and cleaning during usage. The machine may require inspection and cleaning multiple times per day during usage. Operators must be aware of the operating environment and conditions. Operators must take appropriate actions to maintain the machines during use. In particular, pay attention to the following machine areas:

- In and around the engine compartment
- Hot exhaust components
- Moving, turning, or rotating machine components

Before you leave the machine:

1. Park the machine on a firm, level surface.
2. Put all controls in neutral or park lock position.

General maintenance safety

Keep the area used for servicing the machine clean and dry. Clean up spilled fluids.

Service the machine on a firm, level surface.

Install guards and shields after you service the machine.

Close all access doors and install all panels after servicing the machine.

Do not attempt to clean, lubricate, clear obstructions, or make adjustments to the machine while it is in motion or while the engine is running.

Always make sure that working area is clear of tools, parts, other persons and pets before you start operating the machine.

Unsupported hydraulic cylinders can lose pressure and drop the equipment, causing a crushing hazard. Do not leave equipment in a raised position while parked or during service, unless the equipment is securely supported.

Jack or lift the machine only at jack or lift points indicated in this manual.

Incorrect towing procedures can cause accidents. When you tow a disabled machine follow the procedure in this manual. Use only rigid tow bars.

Stop the engine, remove the key, and relieve pressure before you connect or disconnect fluid lines.

Stop the engine and remove the key before you connect or disconnect electrical connections.

3. Engage the parking brake. Use wheel chocks if required.
4. Lower all hydraulic equipment — Implements, header, etc.
5. Turn off the engine and remove the key.

When, due to exceptional circumstances, you would decide to keep the engine running after you leave the operator's station, then you must follow these precautions:

1. Bring the engine to low idle speed.
2. Disengage all drive systems.

3. **WARNING**

Some components may continue to run down after you disengage drive systems.

Make sure all drive systems are fully disengaged.

Failure to comply could result in death or serious injury.

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Shift the transmission into neutral.

4. Apply the parking brake.

Scalding can result from incorrect removal of coolant caps. Cooling systems operate under pressure. Hot coolant can spray out if you remove a cap while the system is hot. Allow the system to cool before you remove the cap. When you remove the cap, turn it slowly to allow pressure to escape before you completely remove the cap.

Replace damaged or worn tubes, hoses, electrical wiring, etc.

The engine, transmission, exhaust components, and hydraulic lines may become hot during operation. Take care when you service such components. Allow surfaces to cool before you handle or disconnect hot components. Wear protective equipment when appropriate.

When welding, follow the instructions in the manual. Always disconnect the battery before you weld on the machine. Always wash your hands after you handle battery components.

Do not climb on the machine. Do not use the attachment as a ladder, or platform for working at heights. Use appropriate means according to national/local safety rules (for example, an individual rolling platform, etc.) to access the areas of the machine not reachable from the ground level.

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.

Wheels and tires

Make sure that tires are correctly inflated. Do not exceed any recommended load or pressure. Follow the instructions in the manual for proper tire inflation.

Tires are heavy. Handling tires without proper equipment could cause death or serious injury.

Never weld on a wheel with a tire installed. Always remove the tire completely from the wheel prior to welding.

Always have a qualified tire technician service the tires and wheels. If a tire has lost all pressure, take the tire and wheel to a tire shop or your dealer for service. Explosive separation of the tire can cause serious injury.

DO NOT weld to a wheel or rim until the tire is completely removed. Inflated tires can generate a gas mixture with the air that can be ignited by high temperatures from welding procedures performed on the wheel or rim. Removing the air or loosening the tire on the rim (breaking the bead) will NOT eliminate the hazard. This condition can exist whether tires are inflated or deflated. The tire **MUST** be completely removed from the wheel or rim prior to welding the wheel or rim.

Install stalk stompers, stubble mats, or other devices to prevent tire damage when:

- working on harvested fields with rough stubble
- working on harvested fields in dry conditions, when the stubble is harder and tougher

Driving on public roads and general transportation safety

Comply with local laws and regulations.

Use appropriate lighting to meet local regulations.

Make sure that the SMV emblem and Speed Identification Symbol (SIS) are visible.

Make sure that the brake pedal latch is engaged. You must lock brake pedals together for road travel.

Use safety chains for trailed equipment when safety chains are provided with machine or equipment.

Lift implements and attachments high enough above ground to prevent accidental contact with road.

When you transport equipment or a machine on a transport trailer, make sure that it is properly secured. Be sure the SMV and SIS on the equipment or machine are covered while being transported on a trailer.

Be aware of overhead structures or power lines and make sure that the machine and/or attachments can pass safely under.

Travel speed should be such that you maintain complete control and machine stability at all times.

Slow down and signal before turning.

Pull over to allow faster traffic to pass.

Follow correct towing procedure for equipment with or without brakes.

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.

Fire and explosion prevention

Fuel or oil that is leaked or spilled on hot surfaces or electrical components can cause a fire.

Crop materials, trash, debris, bird nests, or flammable material can ignite on hot surfaces.

Always have a fire extinguisher on or near the machine.

Make sure that the fire extinguisher(s) is maintained and serviced according to the manufacturer's instructions.

At least once each day and at the end of the day, remove all trash and debris from the machine especially around hot components such as the engine, transmission, exhaust, battery, etc. More frequent cleaning of your ma-

chine may be necessary depending on the operating environment and conditions.

At least once each day, remove debris accumulation around moving components such as bearings, pulleys, belts, gears, cleaning fans, etc. More frequent cleaning of your machine may be necessary depending on the operating environment and conditions.

Inspect the electrical system for loose connections and frayed insulation. Repair or replace loose or damaged parts.

Do not store oily rags or other flammable material on the machine.

Do not weld or flame cut any items that contain flammable material. Clean items thoroughly with non-flammable solvents before welding or flame-cutting.

Do not expose the machine to flames, burning brush, or explosives.

Promptly investigate any unusual smells or odors that may occur during operation of the machine.

General battery safety

Always wear eye protection when you work with batteries.

Do not create sparks or have open flame near a battery.

Ventilate the area when you charge a battery or use a battery in an enclosed area.

Disconnect the negative (-) terminal first and reconnect the negative (-) terminal last.

When you weld on the machine, disconnect both terminals of the battery.

Do not weld, grind, or smoke near a battery.

When you use auxiliary batteries or connect jumper cables to start the engine, use the procedure shown in the operator's manual. Do not short across terminals.

Follow the manufacturer's instructions when you store and handle batteries.

Battery post, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

Battery acid causes burns. Batteries contain sulfuric acid. Avoid contact with skin, eyes, or clothing. Antidote (external): Flush with water. Antidote (eyes): flush with water for 15 minutes and seek medical attention immediately. Antidote (internal): Drink large quantities of water or milk. Do not induce vomiting. Seek medical attention immediately.

Keep out of reach of children and other unauthorized persons.

Passenger seat safety

Use on public roads:

- The passenger seat can be used for short term and occasional transport of only one person from the farm to the field.

Use on the field:

- It is allowed to use the passenger seat for only one person when training a new operator or when a service technician is diagnosing a mechanical problem.

When the passenger seat is occupied, the following precautions must be followed:

- Tractor should be driven only at slow speeds and over level ground.
- Avoid quick starts and stops.
- Avoid sharp turns.
- Always wear correctly adjusted seat belts.
- Keep doors closed at all times.

Operator presence system

Your machine is equipped with an operator presence system to prevent the use of some features while the operator is not in the operator's seat.

Never disconnect or bypass the operator presence system.

If the operator presence system is inoperable, then it must be repaired.

Power Take-Off (PTO)

PTO-driven machinery can cause death or serious injury. Before you work on or near the PTO shaft or service or clear the driven machine, put the PTO lever in the disengage position, stop the engine, and remove the key.

Whenever a PTO is in operation, a guard must be in place to prevent death or injury to the operator or bystanders.

When doing stationary PTO work, keep clear of all moving parts and make sure that appropriate guards are in place.

Reflectors and warning lights

You must use flashing amber warning lights when you operate equipment on public roads.

Seat belts

Seat belts must be worn at all times.

Seat belt inspection and maintenance:

- Keep seat belts in good condition.
- Keep sharp edges and items that can cause damage away from the belts.
- Periodically check belts, buckles, retractors, tethers, slack take-up system, and mounting bolts for damage and wear.
- Replace all parts that have damage or wear.
- Replace belts that have cuts that can make the belt weak.
- Check that bolts are tight on the seat bracket or mounting.
- If the belt is attached to the seat, make sure that the seat or seat brackets are mounted securely.
- Keep seat belts clean and dry.
- Clean belts only with soap solution and warm water.
- Do not use bleach or dye on the belts because this can make the belts weak.

Operator protective structure

Your machine is equipped with an operator protective structure, such as: a Roll Over Protective Structure (ROPS), Falling Objects Protective Structure (FOPS), or a cab with a ROPS. A ROPS may be a can frame or a two-posted or four-posted structure used for the protection of the operator to minimize the possibility of serious injury. The mounting structure and fasteners forming the mounting connection with the machine are part of the ROPS.

The protective structure is a special safety component of your machine.

DO NOT attach any device to the protective structure for pulling purposes. DO NOT drill holes to the protective structure.

The protective structure and interconnecting components are a certified system. Any damage, fire, corrosion, or modification will weaken the structure and reduce your protection. If this occurs, THE PROTECTIVE STRUCTURE MUST BE REPLACED so that it will provide the same protection as a new protective structure. Contact your dealer for protective structure inspection and replacement.

After an accident, fire, tip over, or roll over, the following MUST be performed by a qualified technician before returning the machine to field or job-site operations:

- The protective structure MUST BE REPLACED.
- The mounting or suspension for the protective structure, operator's seat and suspension, seat belts and mounting components, and wiring within the operator's protective system MUST be carefully inspected for damage.
- All damaged parts MUST BE REPLACED.

DO NOT WELD, DRILL HOLES, ATTEMPT TO STRAIGHTEN, OR REPAIR THE PROTECTIVE STRUCTURE. MODIFICATION IN ANY WAY CAN REDUCE THE STRUCTURAL INTEGRITY OF THE STRUCTURE, WHICH COULD CAUSE DEATH OR SERIOUS INJURY IN THE EVENT OF FIRE, TIP OVER, ROLL OVER, COLLISION, OR ACCIDENT.

Seat belts are part of your protective system and must be worn at all times. The operator must be held to the seat inside the frame in order for the protective system to work.

Air-conditioning system

The air-conditioning system is under high pressure. Do not disconnect any lines. The release of high pressure can cause serious injury.

The air-conditioning system contains gases that are harmful to the environment when released into the atmosphere. Do not attempt to service or repair the system.

Only trained service technicians can service, repair, or recharge the air-conditioning system.

Personal Protective Equipment (PPE)

Wear Personal Protective Equipment (PPE) such as hard hat, eye protection, heavy gloves, hearing protection, protective clothing, etc.

Do Not Operate tag

Before you start servicing the machine, attach a 'Do Not Operate' warning tag to the machine in an area that will be visible.

Hazardous chemicals

If you are exposed to or come in contact with hazardous chemicals you can be seriously injured. The fluids, lubricants, paints, adhesives, coolant, etc. required for the function of your machine can be hazardous. They may be attractive and harmful to domestic animals as well as humans.

Material Safety Data Sheets (MSDS) provide information about the chemical substances within a product, safe handling and storage procedures, first aid measures, and procedures to take in the event of a spill or accidental release. MSDS are available from your dealer.

Before you service your machine check the MSDS for each lubricant, fluid, etc. used in this machine. This information indicates the associated risks and will help you service the machine safely. Follow the information in the

MSDS, and on manufacturer containers, as well as the information in this manual, when you service the machine.

Dispose of all fluids, filters, and containers in an environmentally safe manner according to local laws and regulations. Check with local environmental and recycling centers or your dealer for correct disposal information.

Store fluids and filters in accordance with local laws and regulations. Use only appropriate containers for the storage of chemicals or petrochemical substances.

Keep out of reach of children or other unauthorized persons.

Applied chemicals require additional precautions. Obtain complete information from the manufacturer or distributor of the chemicals before you use them.

Utility safety

When digging or using ground-engaging equipment, be aware of buried cables and other services. Contact your local utilities or authorities, as appropriate, to determine the locations of services.

Make sure that the machine has sufficient clearance to pass in all directions. Pay special attention to overhead power lines and hanging obstacles. High voltage lines may require significant clearance for safety. Contact local authorities or utilities to obtain safe clearance distances from high voltage power lines.

Retract raised or extended components, if necessary. Remove or lower radio antennas or other accessories. Should a contact between the machine and an electric

power source occur, the following precautions must be taken:

- Stop the machine movement immediately.
- Apply the parking brake, stop the engine, and remove the key.
- Check if you can safely leave the cab or your actual position without contact with electrical wires. If not, stay in your position and call for help. If you can leave your position without touching lines, jump clear of the machine to make sure that you do not make contact with the ground and the machine at the same time.
- Do not permit anyone to touch the machine until power has been shut off to the power lines.

Electrical storm safety

Do not operate machine during an electrical storm.

If you are on the ground during an electrical storm, stay away from machinery and equipment. Seek shelter in a permanent, protected structure.

If an electrical storm should strike during operation, remain in the cab. Do not leave the cab or operator's platform. Do not make contact with the ground or objects outside the machine.

Mounting and dismounting

Mount and dismount the machine only at designated locations that have handholds, steps, and/or ladders.

Do not jump off of the machine.

Make sure that steps, ladders, and platforms remain clean and clear of debris and foreign substances. Injury may result from slippery surfaces.

Face the machine when you mount and dismount the machine.

Maintain a three-point contact with steps, ladders, and handholds.

Never mount or dismount from a moving machine.

Working at heights

When tractor maintenance requires you to work at heights:

- Correctly use installed steps, ladders, and/or hand holds.
- Do not stand on tractor areas that are not designed as steps or platforms.
- When necessary, use appropriate means according to national/local safety rules (for example, an individual

Do not use the steering wheel or other controls or accessories as handholds when you enter or exit the cab or operator's platform.

rolling platform, etc.) to reach components such as mirrors, rotating beacons, air filters, GPS receivers, or other components not reachable from the ground.

- Never use steps, ladders, and/or hand holds when the tractor is in motion.

Do not use the tractor as a lift, ladder, or platform for working at heights.

Lifting and overhead loads

Never use loader buckets, forks, etc. or other lifting, handling, or digging equipment to lift persons.

Do not use raised equipment as a work platform.

Know the full area of movement of the machine and equipment and do not enter or permit anyone to enter the area of movement while the machine is in operation.

Never enter or permit anyone to enter the area underneath raised equipment. Equipment and/or loads can fall unexpectedly and crush persons underneath it.

Do not leave equipment in raised position while parked or during service, unless securely supported. Hydraulic cylinders must be mechanically locked or supported if they are left in a raised position for service or access.

Loader buckets, forks, etc. or other lifting, handling, or digging equipment and its load will change the center of gravity of the machine. This can cause the machine to tip on slopes or uneven ground.

Load items can fall off the loader bucket or lifting equipment and crush the operator. Care must be taken when lifting a load. Use proper lifting equipment.

Do not lift load higher than necessary. Lower loads to transport. Remember to leave appropriate clearance to the ground and other obstacles.

Equipment and associated loads can block visibility and cause an accident. Do not operate with insufficient visibility.

Multifunction Handle

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.
Failure to comply could result in death or serious injury.

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⚠ WARNING

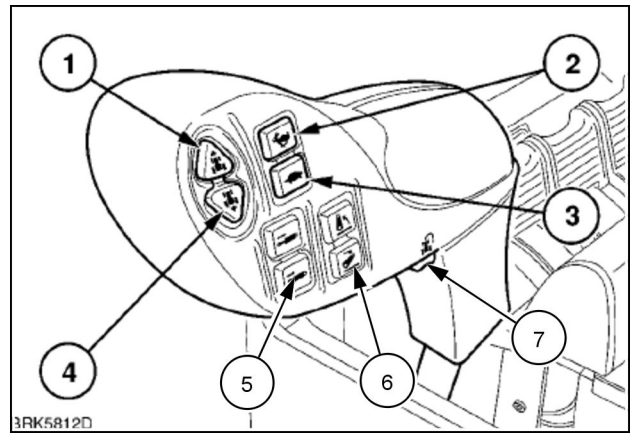
Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

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The basic Multifunction handle allows one handed operation of several tractor functions, all of which are explained in more detail as you read through the manual.

1. Shuttle switch forward
2. Upshift switch
3. Downshift switch
4. Shuttle switch backward
5. Remote cylinder controls
6. Hitch raise/lower switches
7. Headland turn (where fitted)



BRK5812D 1

Advanced joystick (where fitted)

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.
Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Unexpected machine movement!

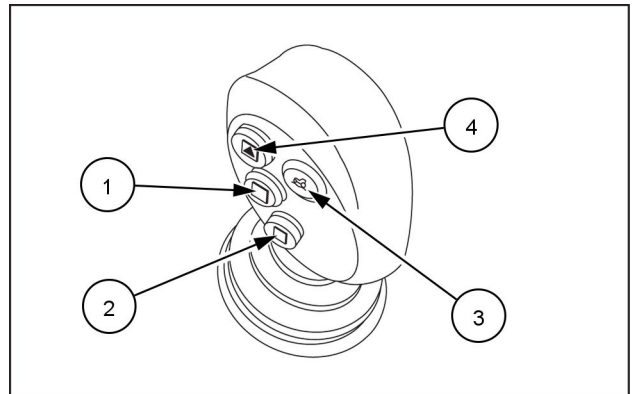
Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

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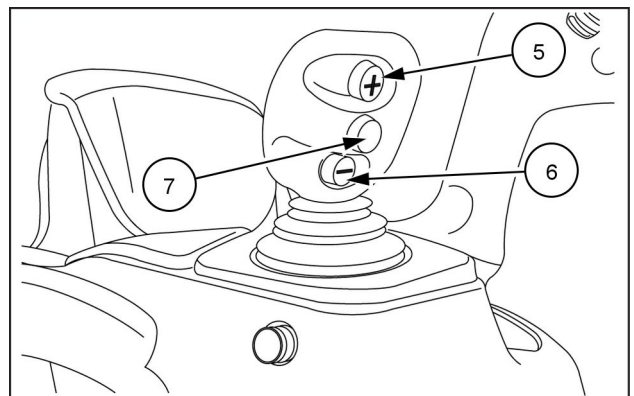
The advanced joystick (where fitted) allows one handed operation of several tractor functions, all of which are explained in more detail as you read through the manual.

Switch function – Joystick for two remote valves

1. With no optional color display fitted: Operates remote hydraulic service via relay and additional valve.
Configurable if an optional color display is fitted.
2. With no optional color display fitted: Operates remote hydraulic service via relay and second additional valve
Configurable if an optional color display is fitted.
3. Change direction
4. With no optional color display fitted: Switching from mid-mount control valves to rear control valves and vice versa
Configurable if an optional color display is fitted.
5. Upshift switch



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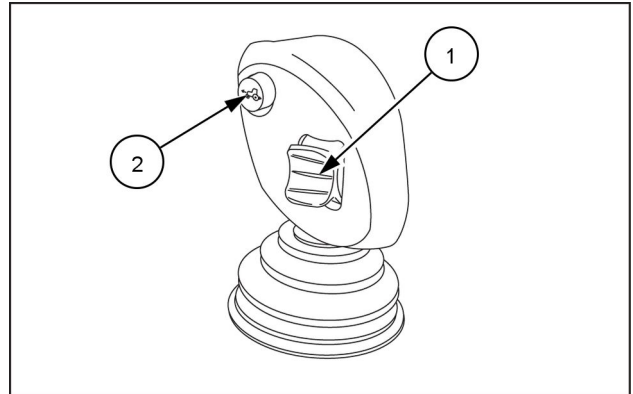


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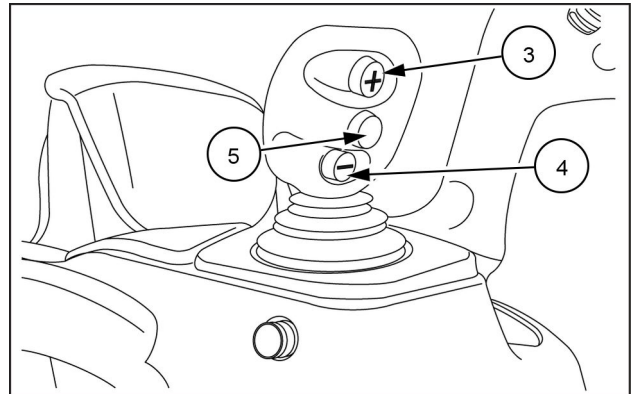
6. Downshift switch
7. Clutch function switch

Switch function – Joystick for three remote valves

1. With no optional color display fitted: Operates remote hydraulic service via relay and additional valve. Configurable if an optional color display is fitted.
2. Change direction
3. Upshift switch
4. Downshift switch
5. Clutch function switch



MOIL19TR02377AA 3



MOIL19TR02353AA 4

Integrated Control Panel (ICP)

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before loading.
Failure to comply could result in death or serious injury.

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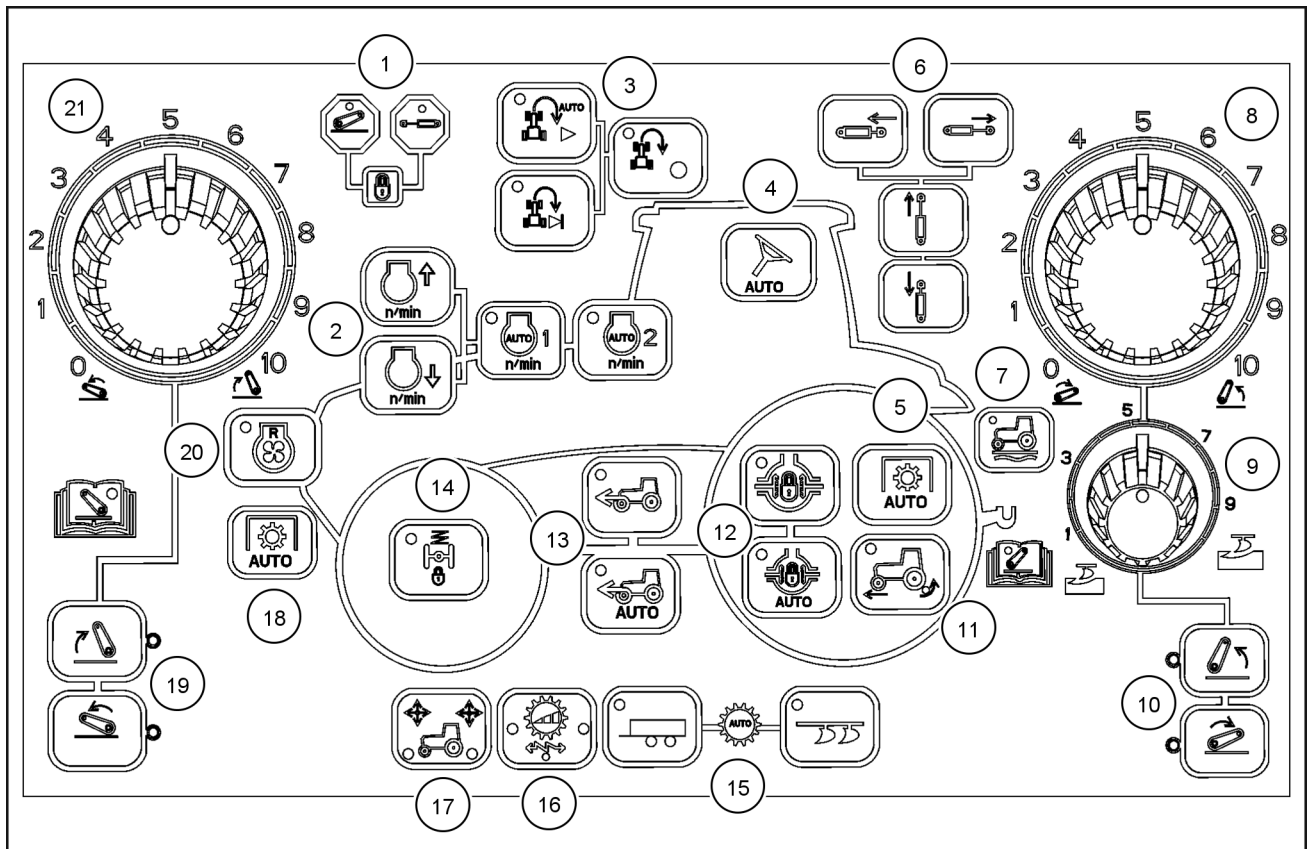
⚠ WARNING

Unexpected machine movement!

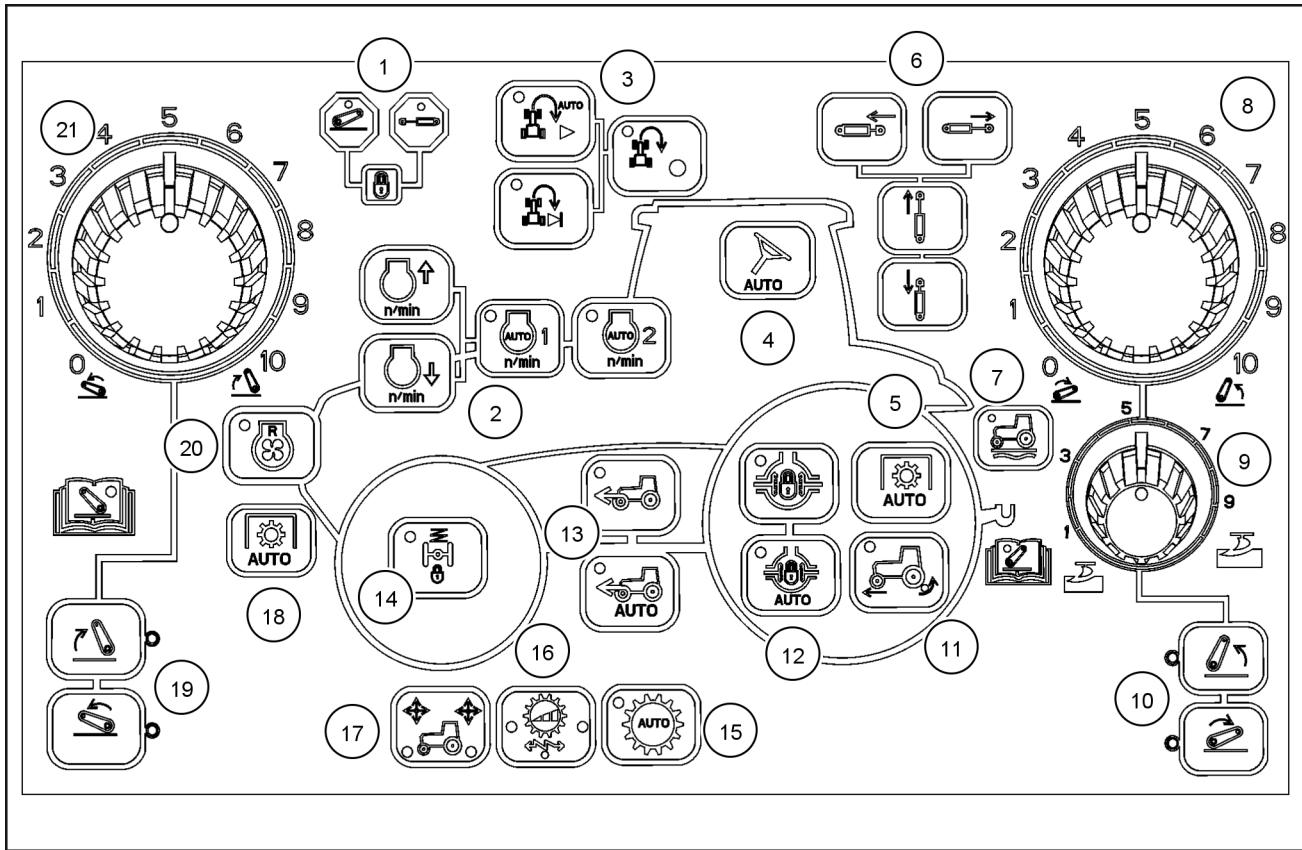
Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while loading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

W1789A

Depending on the day of manufacture one of the following Integrated Control Panels (ICPs) is fitted on the tractor.



SVIL17TR03699FA 1



SVIL17TR03697FA 2

Your tractor is equipped with a number of electronic controls located on the arm rest unit.

NOTE: A full explanation of individual switch operation can be found in the relevant sections of this manual.

- | | |
|---|---|
| 1. Electronic remote control valves and three-point hitch lock warning lights | 12. Auto/manual differential lock engagement |
| 2. Constant Engine Speed (CES) settings | 13. Auto/manual four wheel drive engagement |
| 3. Auto/manual HMC record/playback operation | 14. Front axle suspension lock |
| 4. Autoguidance function | 15. Transmission mode |
| 5. Rear auto PTO control | 16. Shuttle aggressiveness setting |
| 6. Hydraulically adjusted top link and right-hand lift rod | 17. Front/rear joystick selector switch |
| 7. Ride control | 18. Front auto PTO control |
| 8. Rear three-point hitch position control | 19. Front hitch raise/lower switches and operating lights |
| 9. Rear three-point hitch draft loading control | 20. Fan control (where fitted) |
| 10. Rear three-point hitch raise/lower switches and operating lights | 21. Front hitch position control |
| 11. Slip control | |

Hydraulic master switch

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.

Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Misuse hazard!

Always use the hydraulic master switch to disable the front hitch. A Drop Rate Setting of 0% is not intended to be a safety lock mechanism. Failure to comply could result in death or serious injury.

W1792A

⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.

Failure to comply could result in death or serious injury.

W1789A

⚠ WARNING

Misuse hazard!

Always use the Hydraulic Master switch to disable the rear hitch. A Drop Rate Setting of 0% is not intended to be a safety lock mechanism. Failure to comply could result in death or serious injury.

W1603A

EHC/ EHR transport lock

When travelling on the road, both mid-mount and rear electronic remote control valves can be disabled to prevent in advertent lowering of the implement which may cause damage to the tractor or road surface.

NOTE: Depending on the hydraulic pump used the symbol on the switch may be different.

Electronic remote control valves

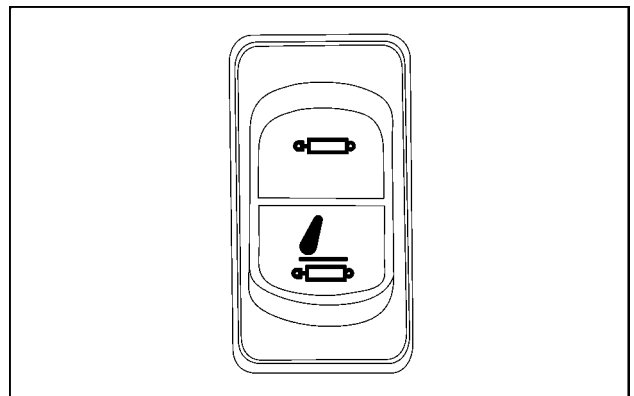
The switch on the cab 'C' pillar has three positions and provides the following functions.

Depress the top of the switch to energize electronic rear and mid-mount* remote control valves (three-point hitch locked out).

Depress the bottom of the switch to energize electronic rear and mid-mount* remote control valves and rear three-point hitch.

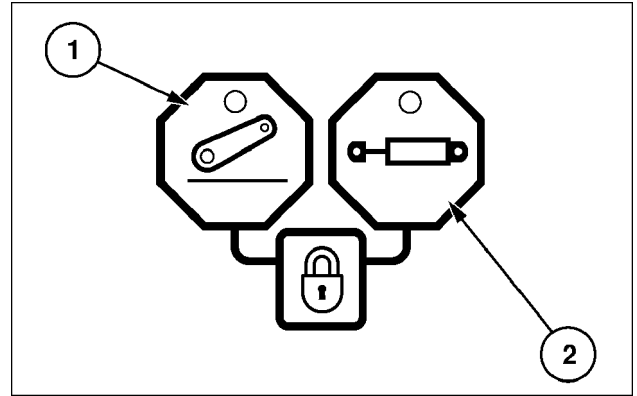
Mid position. Electronic remote control valves and three-point hitch locked out.

* (where fitted)



SVIL17TR00867AA 1

With the master switch in the mid position (power off), the warning lights on the ICP will illuminate confirming both EHRs **(2)** and three-point hitch **(1)** are locked out.



SS11D010 2

Electronic Draft Control (EDC) operation

⚠ WARNING

Misuse hazard!

Always use the Hydraulic Master switch to disable the rear hitch. A Drop Rate Setting of 0% is not intended to be a safety lock mechanism.

Failure to comply could result in death or serious injury.

W1603A

Position control

Ensure the hydraulic master switch is in the "ON" position to allow the three-point hitch to function, see page **Hydraulic master switch (35.000)**.

Attach the implement to the three-point hitch.

Turn the draft loading control (2) fully counterclockwise, this is the position control setting.

Start the engine and using the position control knob (1) raise the implement in stages, ensuring that there is at least **100 mm (4 in)** clearance between the implement and any part of the tractor.

Note the figure in the lower display. If the reading is less than '100' it means that the implement is not fully raised.

Adjust the height limit control knob (6) to prevent the hitch being raised further and so avoid the possibility of the implement damaging the tractor when fully raised.

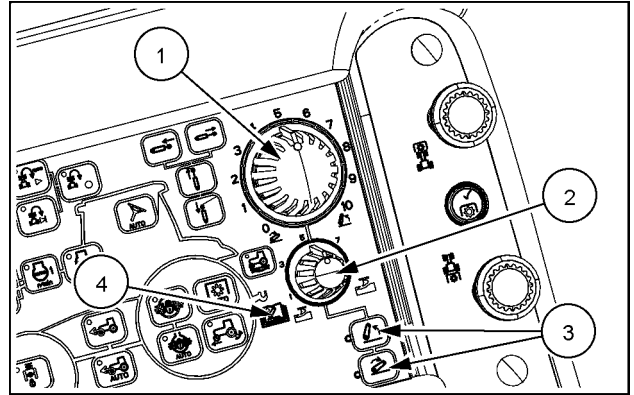
When the fast raise/lower switch or the position control knob is used to raise the implement, it will only raise to the height set by the height limit control, as determined in the previous step.

Position 0 allows the hitch to be raised to only **50%** of its lifting height whereas position 10 allows to be raised to the maximum lifting height can be adjusted across a continuously variable range between 0-10.

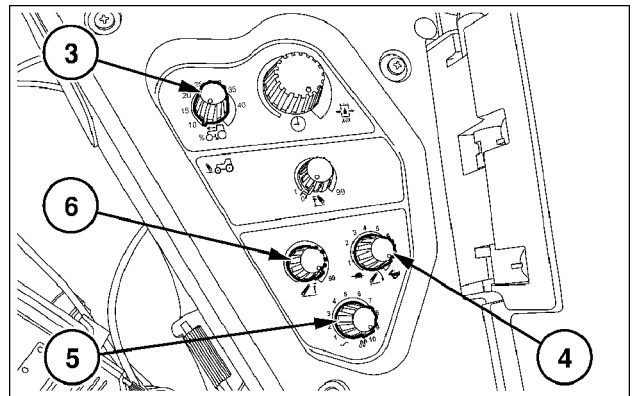
Adjust the rate of drop, to suit the size and weight of the attached implement, by rotating the drop rate control knob (4). Turn the knob clockwise to speed up the drop rate or counterclockwise to slow down the drop rate.

NOTICE: When first setting the implement up for work, keep the drop rate control knob in the slow drop position ('tortoise' symbol).

When the raise/lower switch is used to lower the implement, it will lower at a controlled rate as determined in the previous step.



SVIL17TR00779AA 1



BRL6436C 2

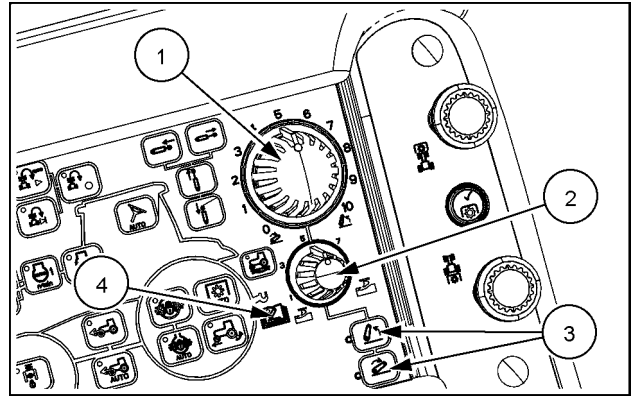
Position control operation

To operate in position control, the draft loading control (2) should, ideally, be rotated fully counterclockwise.

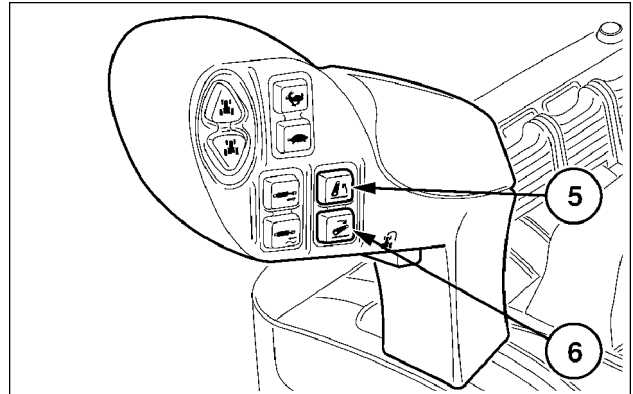
Use the position control knob (1) to raise and lower the three-point hitch. The implement will raise and stop at the height set by the height limit control knob.

NOTE: The rate of lift will be adjusted automatically. If a large movement of the position control knob is made then the lower links will respond by moving rapidly. As the links approach the position set by the position control knob, implement movement will be slower.

If it is required to raise the implement at the headland, momentarily depress the raise switch (5) to lift the implement to the position set by the height limit control knob. When reentering the work area, momentarily depress the lower switch (6) and the implement will return to the height originally set by the position control knob (1).



SVIL17TR00779AA 3



BRL6451H 4

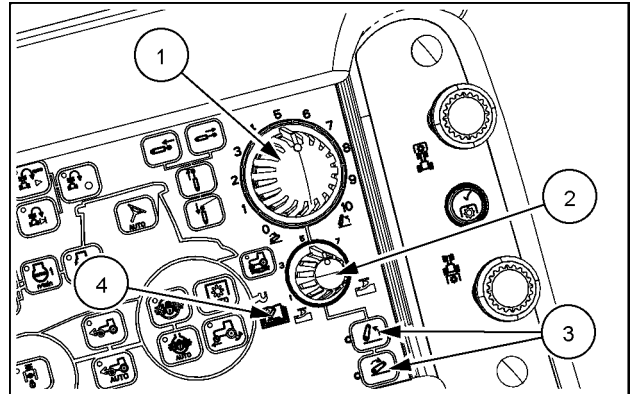
Draft control

To ensure the best performance in the field it will be necessary to adjust the draft control system to suit the implement and ground conditions.

The draft loading control **(2)** determines implement depth by setting a required force on the draft sensing pins. Set the control to the mid-position prior to commencing work.

The position of the draft sensitivity knob **(7)** determines the sensitivity of the system. Set the knob to the mid-position before lowering the implement into work.

Lower the implement into work by rotating the position control knob **(1)** counterclockwise.

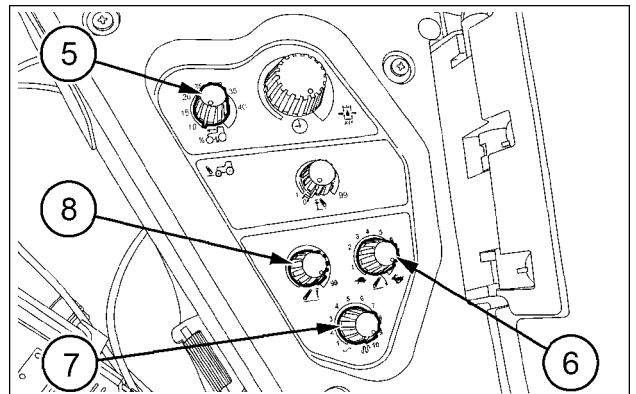


SVIL17TR00779AA 5

Set the required implement working depth by adjusting the setting on the draft loading control **(2)**. When the required depth has been achieved, rotate the position control counterclockwise until the implement starts to raise then rotate clockwise in small increments to set the maximum depth limit.

When adjusted correctly, the position control setting will prevent the implement from 'diving' or working too deep if an area of soft or light soil is encountered.

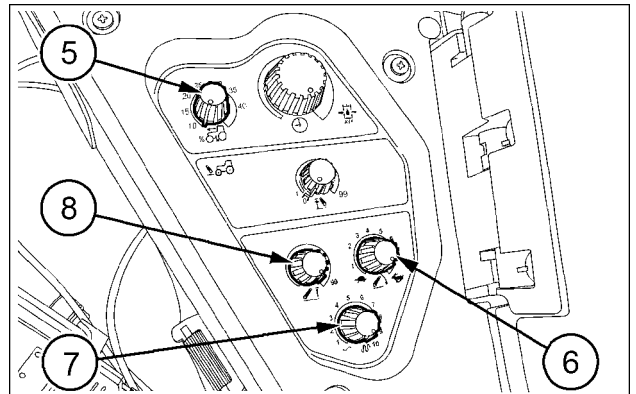
Once the draft loading and maximum depth have been set, raise and lower the implement using the fast raise switch on the transmission lever.



SS10D218 6

Observe the implement as it pulls through the soil and adjust the draft sensitivity knob **(7)** until the tendency to raise or lower, due to variations in soil resistance, is satisfactory. Once set, the tractor hydraulic system will automatically adjust implement depth to maintain an even pull (draft load) on the tractor.

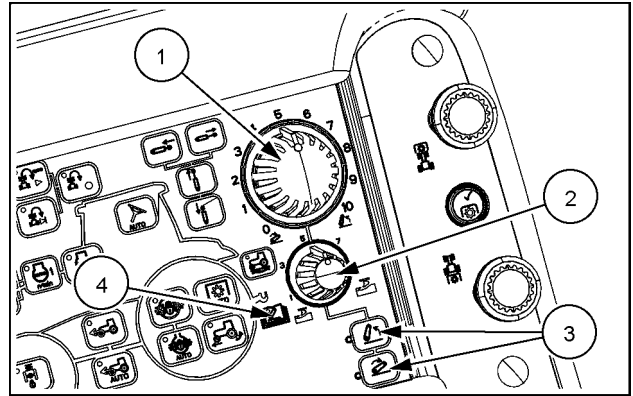
The optimum setting will be achieved by observing the movement indicator lights **(3)** figure 8. The upper light will illuminate every time the system raises the implement as normal draft corrections occur. The lower light will illuminate as the implement lowers.



SS10D218 7

Turn the draft sensitivity knob (7) slowly clockwise. The system will respond with smaller, quicker movements as will be seen by both the indicator lights flickering. At this point, turn the knob slightly counterclockwise until either of the indicator lights flashes once every 2 s or 3 s or, as required, to suit the soil conditions.

Once the required working conditions have been established there is no need to move the position control knob again until the work in hand is completed.



SVIL17TR00779AA 8

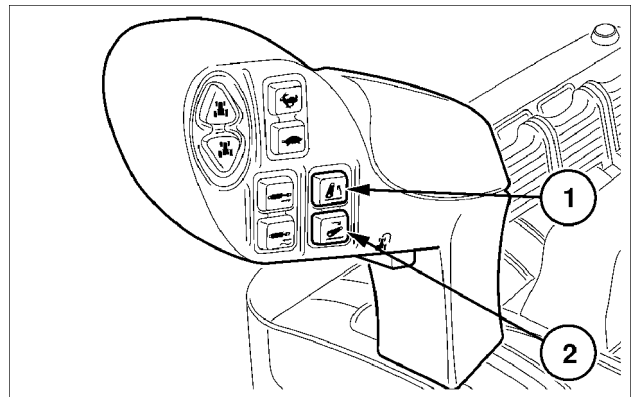
Upon reaching the headland, momentarily depress the fast raise switch (1) to quickly lift the implement to the position set by the height limit control knob. When reentering the working area, momentarily depress the lower switch (2) and the implement will descend at the rate set by the drop rate control knob and stop when it reaches the depth set by the draft loading wheel (2) figure 8.

During the raise cycle, momentarily depressing the raise/lower switch will pause implement lift.

NOTE: *Depressing the raise switch during the lift cycle will temporarily disable the hitch. Depressing the switch again will re-enable hitch operation but initial movement will be slow.*

Faster implement penetration may be required, for example, after turning at a narrow headland. Also, some implements are reluctant to penetrate, particularly if the ground is heavy. Press and hold the lower switch (2) and the implement will lower at the rate set by the drop rate control knob, until it contacts the ground.

Continue to depress lower switch and the drop rate and the position control settings will be overridden. The implement will quickly penetrate the ground, rising to the preset working depth when the switch is released.



BRL6451D 9

Slip limit control

The slip limit control **(3)** available only with the optional radar sensor unit, enables the operator to select a wheel slip threshold which, if exceeded, will result in the implement working depth being adjusted to reduce wheel slip.

When slip control is activated, the draft control system will temporarily reduce the working depth of the implement. As rear wheel slip reduces, draft control will lower the implement back to its original working depth.

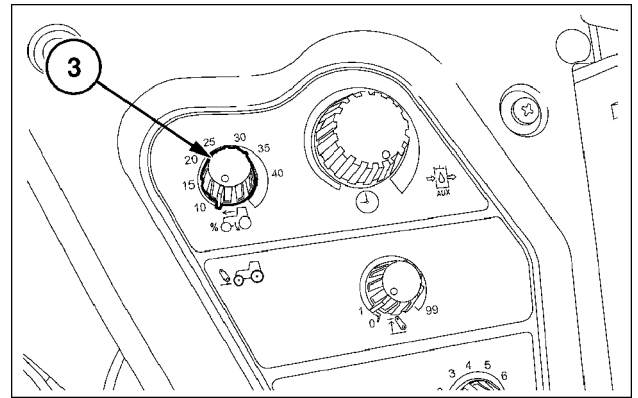
Care must be taken not to select a wheel slip limit that is either too high or too low. Setting the slip limit to a very low level, unobtainable in wet conditions, may have a detrimental effect on the work rate and depth.

NOTE: The wheel slip function does not work in position control.

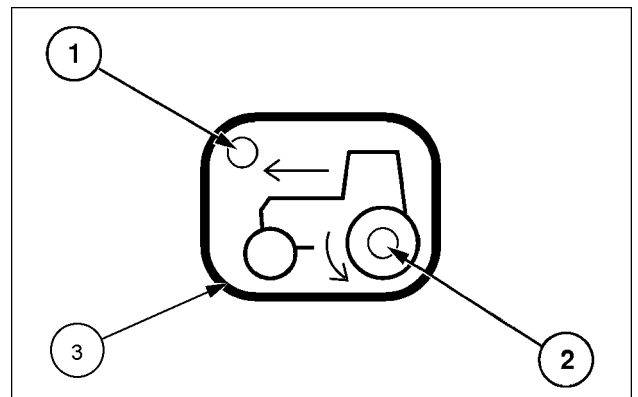
The slip limit 'on' indicator **(1)** will illuminate when the slip function is activated by depressing the switch **(3)** on the ICU. When the slip control is in operation, the warning light **(2)** will also illuminate and the implement will raise to reduce the slip rate.

Where the amount of wheel slip approaches the preset limit, a warning will also appear in the dot matrix display.

To disengage the slip function depress the switch **(3)** on the ICU.



BRL6435D 10



BRK5669B 11

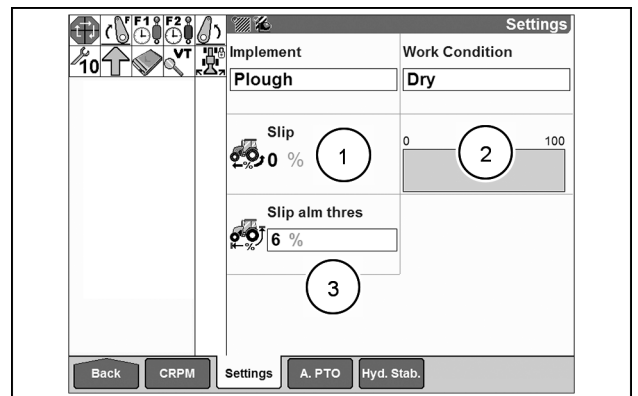
Setting the slip limit (with color display)

Settings

Implement. Use the popup screen to select, change or add a new implement category.

Work condition. Use the popup screen to select, change or add a new category of work condition.

1. Percentage slip figure, this will change as wheel slip increases and decreases.
2. Same as **(1)** above but in bar graph format.
3. to access the popup for setting wheel slip alarm threshold. Set the figure using ◀ or ▶ then press Enter. The selected figure will appear in the slip alarm box.

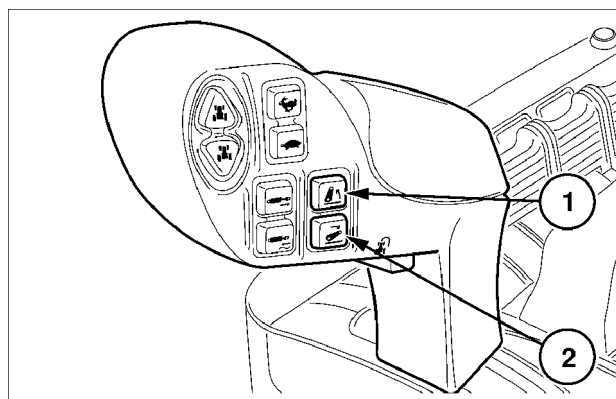


SVIL15TR02390AA 12

Ride control

When transporting equipment on the three-point hitch, implement bounce can lead to lack of steering control at transport speeds. With ride control selected, when the front wheels hit a bump, causing the front of the tractor to rise, the hydraulic system will immediately react to counter the movement and minimize implement bounce to provide a smoother ride.

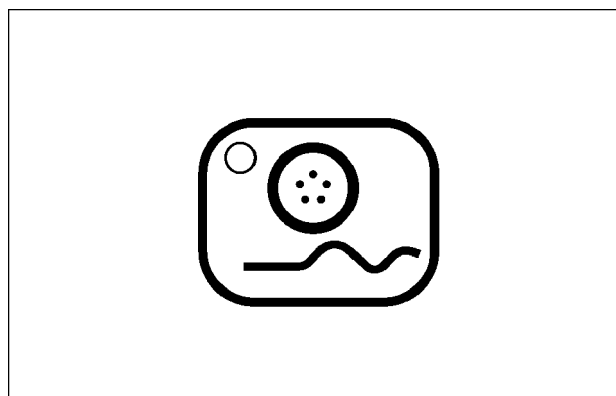
Using the fast raise switch **(1)** raise the implement to the height set by the height limit control.



BRL6451D 13

Depress the switch on the control console to engage the ride control function. A warning light in the switch will illuminate to confirm engagement.

Ride control will only operate at speeds above **8 km/h (5 mph)**. When tractor speed exceeds **8 km/h (5 mph)** the implement will drop by 4 - 5 points (as displayed on the instrument panel) as the hydraulic system makes corrections to counteract implement bounce. When tractor speed falls below **8 km/h (5 mph)** the implement will raise again to the height set by the height limit control and ride control will become inoperative.



BRK5672A 14

Roading

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.

Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Unexpected machine movement!

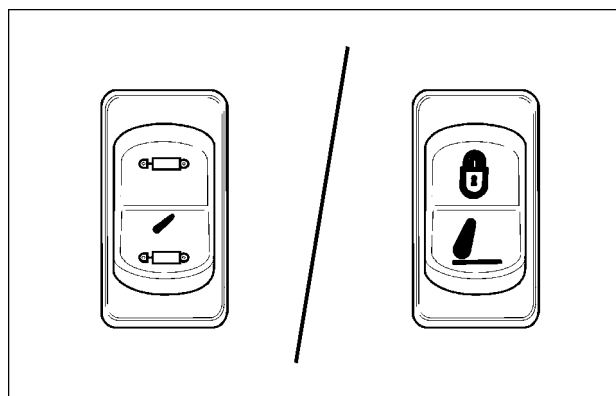
Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.

Failure to comply could result in death or serious injury.

W1789A

Always fully raise the hitch for road transport.

Use the Hydraulic master switch to lock the hitch and remote valves during road transport.



SVIL18TR02290AA 15

Front hitch operation

⚠ WARNING

Misuse hazard!

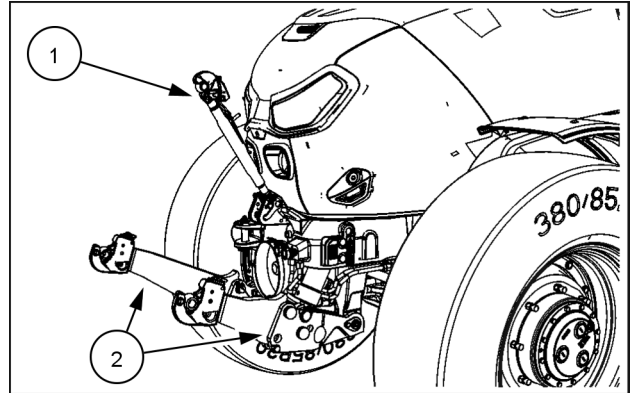
Always use the hydraulic master switch to disable the front hitch. A Drop Rate Setting of 0% is not intended to be a safety lock mechanism.

Failure to comply could result in death or serious injury.

W1792A

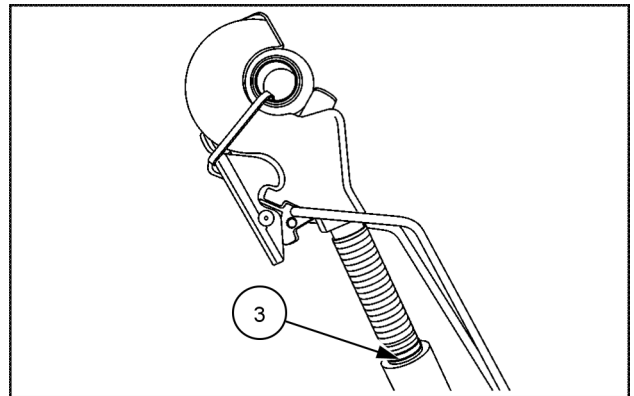
The optional front hitch consists of an adjustable top link (1) and a pair of folding lower links (2). The top link and the lower links have open claw ends that permit rapid coupling and uncoupling of implements.

The claws are equipped with self locking latches to ensure positive retention of the three-point hitch to the implement.



SVIL19TR00633AA 1

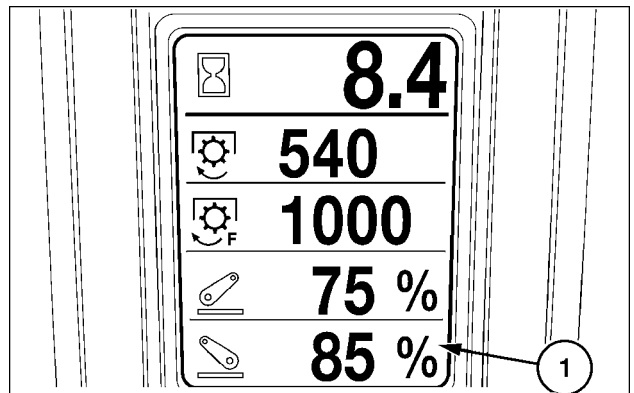
NOTICE: Extend the lift rod only until the notch (3) in the thread is visible to avoid damage of the thread.



SVIL14TR00023AC 2

The front hitch can be operated by a rear or mid-mount remote valve (where fitted). The height of the hitch (1) can be shown in the central display as a percentage (%) ranging from 0 (fully lowered) to 100 (full raise).

In conjunction with electronic remote valves a rotary adjuster on the EHC panel can be used to set a limit on the operating height of the hitch where required.



BRK5803R 3

Three ball-bushings are supplied for installation on the implement, if required. The ball-bushing with projecting lips **(1)** should be installed on the implement upper hitch pin.

The two plain ball-bushings **(2)** with their detachable guides **(3)** should be installed on the implement lower hitch pins.



BRJ5352B 4

Operating the front hitch

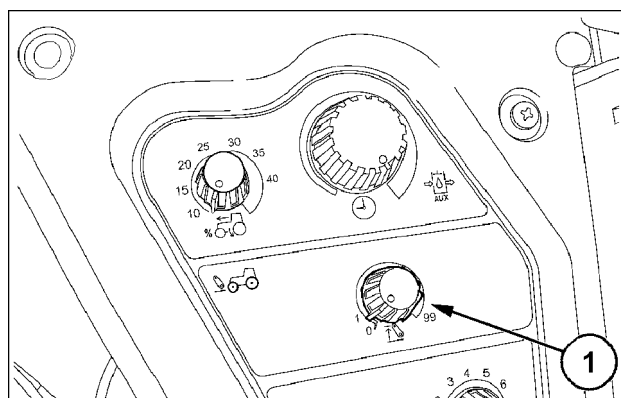
The front hitch may be operated by electronic rear remote valves or, where fitted, electronic mid-mount remote valves.

Setting the height of the front hitch with electronic remote valves only

A height limit control permits the operator to set a pre-determined limit on the maximum lift height of the hitch. Height limit adjustment is set by the knob **(1)** on the EHC console. Turn clockwise to set the maximum height, turn counterclockwise to reduce the height.

The position of the hitch will be shown in the display as a percentage (%) between 0 (fully lowered) and 100 (full raise).

Turn the control fully counterclockwise to disable the height limit function.



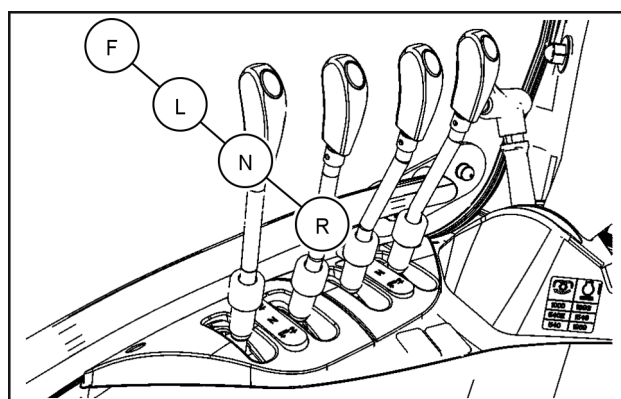
SS10K066 5

Hitch operation with mechanical rear remote valves:

With the front hitch connected to the appropriate valve, pull the lever rearwards **(R)** to raise the front hitch. Move the lever to **(N)** to halt hitch movement, the hitch will maintain its height position. Select **(L)** to lower the hitch. With the lever in the float position **(F)** the hitch can move up and down (float) allowing the implement to follow the ground contours.

The front hitch may be connected to any of the rear remote valves.

Where an implement requires additional hydraulic services, these may be connected to any unused valve.



SVIL18TR00246AA 6

Hitch operation with electronic rear remote valves:

Electronic rear remote valves may be used to operate the front hitch using the control lever (1) or the joystick, (where fitted).

As a factory fitted option, the default valve to operate the hitch will always be valve number 1 whether rear mount or mid-mount valves are used.

With the front hitch connected to valve number 1, move the lever rearwards (R) to raise the hitch. Move the lever to (N) to stop hitch movement, the hitch will remain at this height. Select (L) to lower the hitch. Moving the lever to the float position (F) will permit the hitch to 'float' up and down allowing the implement to follow the ground contours.

Valve number 1 is programmed to operate in conjunction with the front hitch height limiter previously described.

Hitch operation with joystick and electronic rear or mid-mount remote valves:

The joystick (1), can be used to control the front hitch using the electronic rear remote valves or, where fitted, the mid-mount remote valves.

Where a front hitch is supplied as a factory option, the tractor will be fitted with a joystick and electronic mid-mount remote valves. Valve number 1 will be used to operate the hitch.

On tractors equipped with both mid and rear mounted electronic valves, the joystick can be used to control either valve assembly.

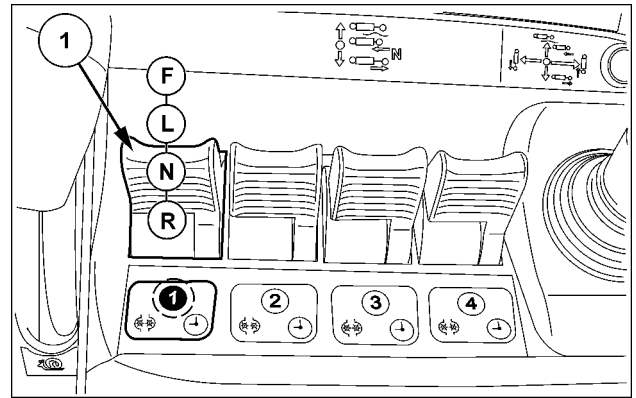
A selector switch (1) on the console allows the operator to switch joystick control between the mid-mount and rear mount valves.

Repeated pressing of the switch will cycle between the mid-mount and rear mount valves. Lights in the switch (2) and (3) will confirm which valves are activated.

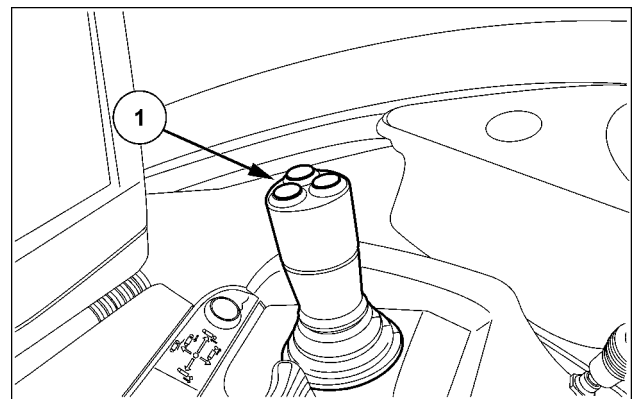
NOTE: If the joystick is configured to operate front loader than it is not possible to switch the joystick to operate rear remote valves.

NOTICE: Before switching joystick operation between mid and rear mount valves or vice versa, ensure all remote valve levers and the joystick are in the neutral position.

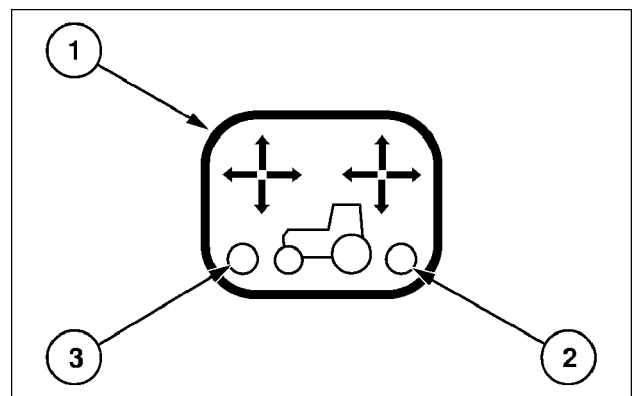
At key-off, the joystick function is deactivated. The joystick will be reactivated when the operator is in the seat with the engine running for more than three seconds.



SS10M105 7



SS10M118 8



BRK5676E 9

When the joystick is deactivated, the warning lights in the front/ rear selector switch will flash.

NOTE: Operation of the joystick will be disabled if the tractor engine is stopped.

Where it is required to operate the front hitch using the rear remote valves and joystick, depress the switch and the rear remote valve indicator light (2) will start to flash.

After five seconds the rear indicator light will stop flashing and will remain on, confirming joystick control of the rear remote valves has been activated.

Operation of the front hitch is now controlled by the joystick through the rear remote valves.

Both mid-mount and rear mount electronic remote valves offer the following functions when operated by the joystick.

Remote valve 1:

Move the joystick forwards or backwards to select raise, neutral, lower and float on the front hitch.

Remote valve 2:

Move the joystick left or right to provide oil flow through the front couplers (where fitted).

Where valves 3 or 4 are fitted, the joystick functions as follows. This applies to both rear mount or mid-mount valves.

Remote valve 3:

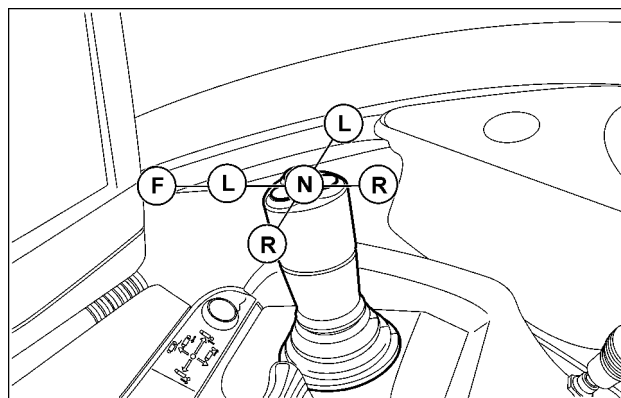
Depress and hold the switch (1) and move the joystick forwards or backwards to operate raise, neutral, lower and float.

Rear remote valve 4:

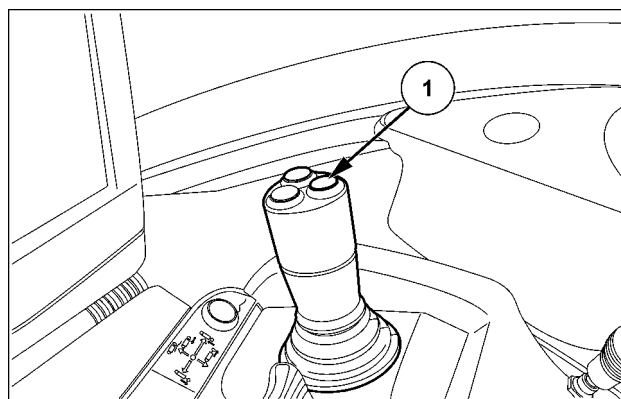
Depress and hold the switch (1) and move the joystick left or right to operate raise, neutral and lower.

NOTE: The yellow and green switches can be used to operate diverter valves fitted to an implement which is connected to the front hitch if correctly wired to do so.

NOTE: The joystick should not be used for hydraulic motor operation.



SS10M106 10



SS10M107 11

Move the joystick rearwards (**R**) to raise the implement. When the front hitch reaches the position set by the height limit control the hitch will stop.

Pushing the joystick forward to the 'lower' position (**L**) will cause the implement to lower to the ground at a controlled rate of descent.

Further forward movement of the joystick will select 'float' (**F**) which will allow the implement to lower under its own weight.

Float can also be used to let the hitch lift cylinder extend or retract freely allowing front mounted equipment to follow ground contours.

NOTE: Always use the 'float' position to lower a single-acting cylinder. The 'lower' position is for double-acting cylinders only.

NOTE: With the joystick operating the rear electronic remote valves, the float position for valves 2 and 4 (lateral movement of the joystick) is not available.

The joystick may also be moved laterally, (**R**) and (**L**) to provide oil flow for equipment connected to the optional front couplers.

By moving the joystick diagonally, two cylinders may be operated simultaneously.

To reinstate lever control of the rear valves, depress the selector switch to activate the mid-mount valves. The rear indicator light will go out and the mid-mount indicator light (1) will start to flash.

After 2 s the mid-mount light will stay on confirming joystick operation has been switched back to the mid-mount valves (where fitted).

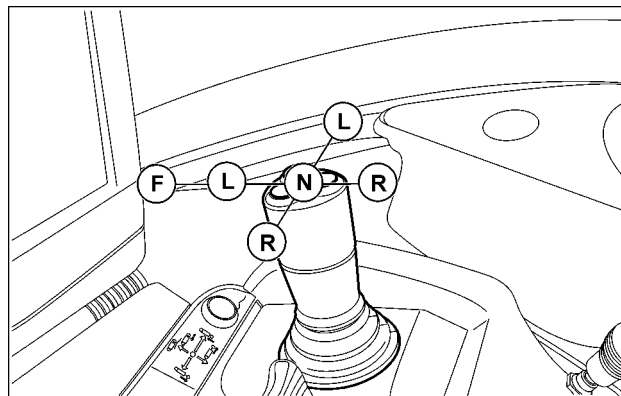
The rear remote valves are now controlled by their respective levers.

Joystick functionality screen (with color display)

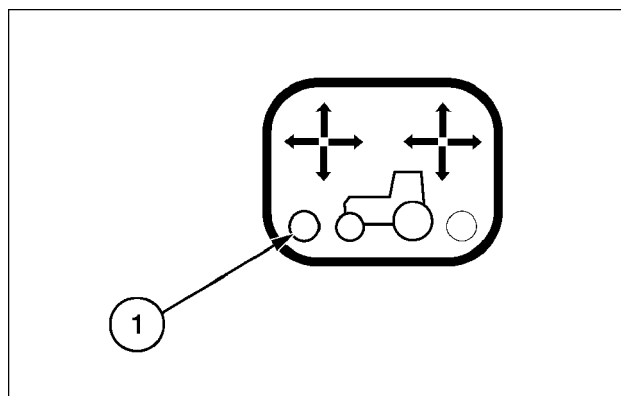
On tractors fitted with the color display, the operator can access the joystick screen which provides details on joystick functionality.

Remote valves

Use ▲▼ to scroll through the menu until joystick is displayed.



SS10M106 12



BRK5676B 13

Joystick

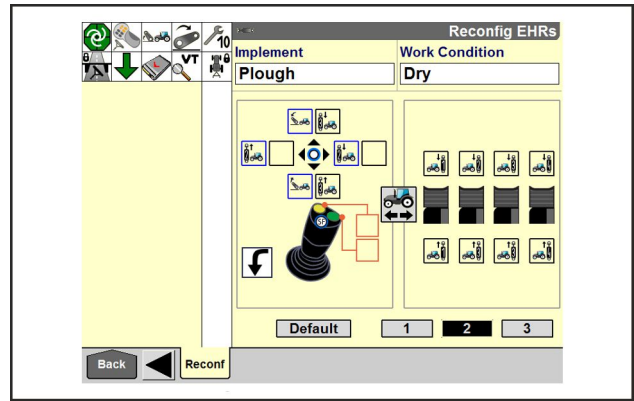
The joystick functionality screen identifies the number of valves controlled by the joystick and the corresponding movement required to operate each valve. Valves marked with a black border can be operated by simply moving the joystick, valves with a blue border require the switch to be depressed before moving the joystick, see figure 11.

When the switch is depressed a symbol will appear in the screen on the lower right-hand side.

As a valve is operated the white background will change to orange.

When joystick operation is transferred between rear and mid-mount valves, the valve identification will change from R1, R2 etc. to F1, F2. This feature is not available with mechanically operated remote valves.

If the tractor is fitted with a front hitch the joystick functionality screen also identifies the valve used to operate the front hitch.



SVIL17TR01298AA 14

Roading

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.

Failure to comply could result in death or serious injury.

W1587A

Always fully raise the hitch for road transport.

Use the Hydraulic master switch to lock the hitch and remote valves during road transport.

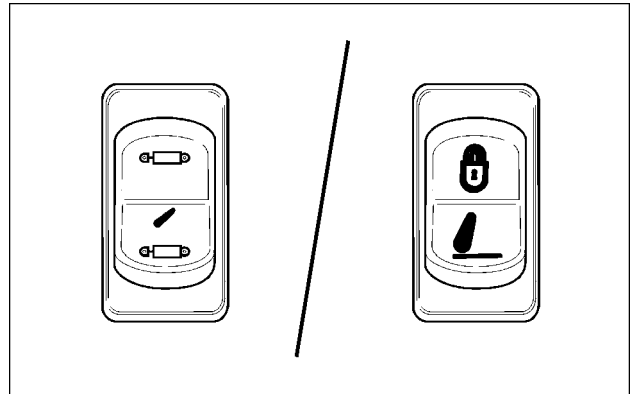
⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.

Failure to comply could result in death or serious injury.

W1789A



SVIL18TR02290AA 15

Remote control valves

⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.

Failure to comply could result in death or serious injury.

W1789A

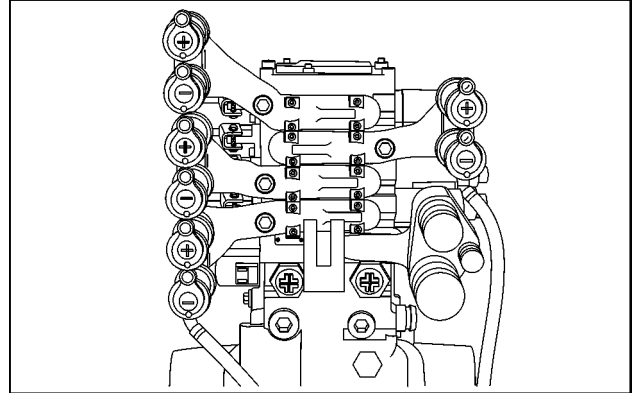
NOTE: See *Hydraulic oil level when using remote hydraulic equipment (21)* for available oil quantities when powering external hydraulic equipment.

The hydraulic remote control valves described here are of the load sensing type. By automatically sensing oil demand from the implement, load sensing valves continually adjust the oil flow from the tractor to suit implement requirements.

The valves are used to operate external hydraulic cylinders, motors etc. Up to four remote control valves (2 configurable + 2 non-configurable) may be installed and are located at the rear of the tractor. All remote valves incorporate an automatic lock valve in the left-hand (raise) port to prevent inadvertent leak down of the implement.

The valves are operated by levers which are located in the console to the right of the operator's seat. The levers and their respective valves are color-coded for identification.

Valve number 1 is located at the bottom of the stack with additional valves mounted directly above.



SVIL14TR00158AB 1

Control levers

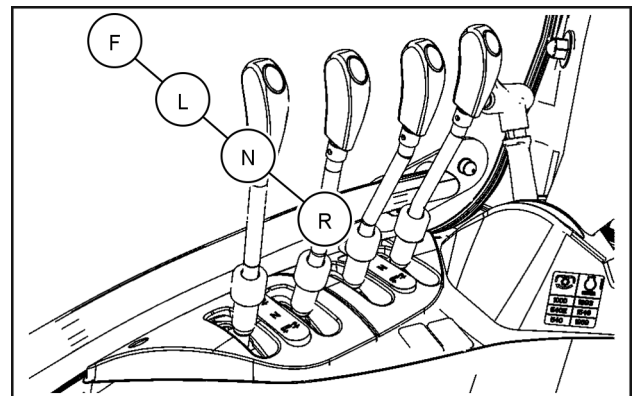
Each remote control valve lever has four operating positions, as follows:

(R) Raise (or Extend) — Pull a lever rearward to extend the cylinder to which it is connected and raise the implement.

(N) Neutral — Push the lever forward from the raise position to select neutral and deactivate the connected cylinder.

(L) Lower (or Retract) — Push the lever further forward, past neutral to retract the cylinder and lower the implement.

(F) Float — Push the lever fully forward, beyond the lower position, to select float. This will permit the cylinder to extend or retract freely, thereby allowing equipment such as scraper blades to 'float' or follow the ground contour.

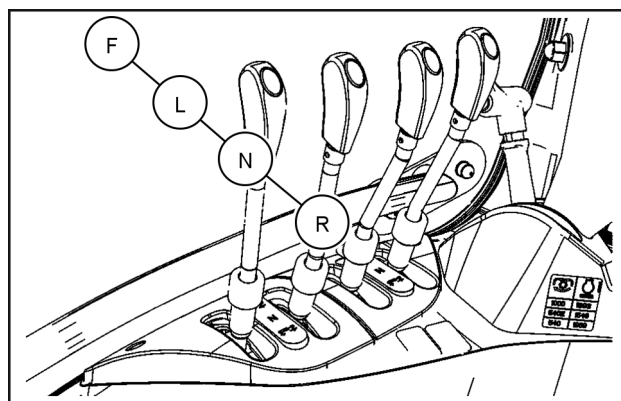


SVIL18TR00246AA 2

The raise, neutral, lower and float positions are identified by symbols on a decal next to the control levers.

A detent will hold the lever in the raise (extend) or lower (retract) position until the remote cylinder reaches the end of the stroke when the control lever will automatically return to neutral. Alternatively, the lever may be returned to neutral manually. The lever will not return automatically from the float position.

NOTE: Do not hold the lever in the extend or retract position once the remote cylinder has reached the end of the stroke as this will cause the hydraulic pump to generate maximum pressure. Maintaining maximum system pressure for extended periods may overheat the oil and cause premature failure of hydraulic or drive line components.



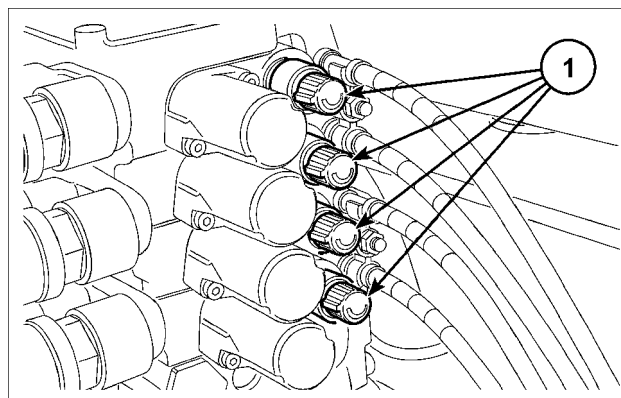
SVIL18TR00246AA 3

Flow control

Each remote valve has its own flow control (1) this provides individual flow settings for each valve.

Turn the flow control knob counterclockwise to increase the rate of oil flow.

For available flow rates, see the specification section in this manual.



BRE1562B 4

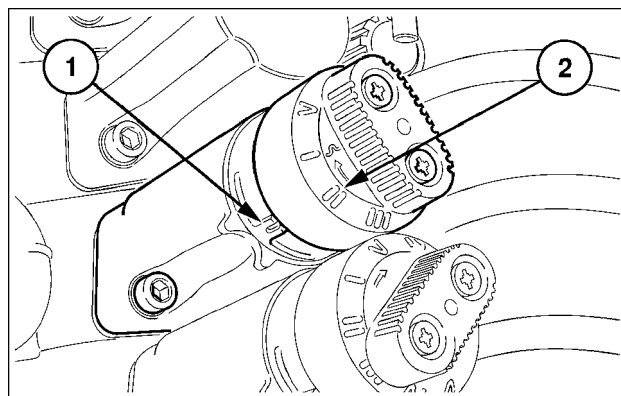
Configurable detent operation (where fitted)

Your tractor may be fitted with one or two remote valves having configurable detents. The rotary control (1) is used to select one of five detent settings.

To select a setting, rotate the control until the number (2) on the end cap aligns with the mark (1) on the valve body.

NOTE: If the number on the rotary control is not aligned correctly with the reference mark on the valve body, the performance of the valve may be affected.

Before turning the selector, ensure any residual pressure in the hydraulic system is exhausted. To do this, stop the tractor engine, cycle the remote valve lever through all positions and then place the lever in neutral.



BRH3755B 5

Each position offers the following functions:

I. — Raise (**R**), Neutral (**N**), Lower (**L**) and Float (**F**) positions available. Detent position in Float only. No lever auto return to neutral (kick out).

II. — Raise, Neutral and Lower positions only. No Float facility. No detent positions available. No lever auto return to neutral (kick out).

III. — Raise, Neutral, Lower and Float positions available. Detents in Raise, Lower and Float. Lever auto return to neutral (kick out) in Raise and Lower positions.

IV. —
Raise, Neutral, Lower and Float positions available. Detents in Raise, Lower and Float. No lever auto return to neutral (kick out).

V. — *Lower and Float positions available. Detents in Raise and Float. No lever auto return to neutral (kick out).

* To select position 5, place the remote valve lever in neutral, select position I or IV then move the lever to the Float position. With the lever in Float select position V.

To deselect position V, put the remote valve lever into float, turn the selector control to position I or IV and then move the remote valve lever to neutral. It is now possible to select positions I to IV.

WARNING

Unexpected movement!

When starting the machine engine, make sure the remote valve levers are in the correct position BEFORE you operate the key switch. This prevents an attached implement from moving unintentionally.

Failure to comply could result in death or serious injury.

W0433A

With the selector in positions I to IV - Neutral

With the selector in position V - Float

Remote control valves

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.
Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

W1789A

NOTE: See page *Hydraulic oil level when using remote hydraulic equipment (21)* for available oil quantities when powering external hydraulic equipment.

When operating in manual mode, electro hydraulic remote control valves (EHRs) perform in a similar manner to mechanical valves providing raise, neutral, lower and float functions selected by the operator.

However, where an implement requires repeated hydraulic movements, such as extending and retracting hydraulic cylinders, EHRs allow the operator to create an automated programme of these movements.

Each programme is supported by visual displays in the EHR display screen.

With the master switch in the mid position (power off), the warning lights on the ICP will illuminate confirming both EHRs (1) and three-point hitch (2) are locked out.

When starting the tractor engine, all remote valve levers and the joystick (where fitted) must be placed in the neutral position. Any control not in neutral will cause the corresponding valve to be disabled.

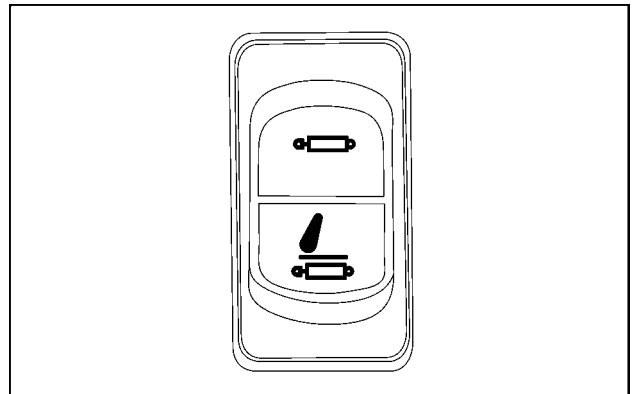
To reactivate a disabled valve, first ensure the hydraulic master switch is in the 'ON' position and then manually shift the remote valve control to neutral.

NOTE: Where a valve is not in neutral at start up, a symbol and the corresponding valve number will appear in the EHR display. Where more than one valve is not in neutral, the display will scroll sequentially through each valve number.

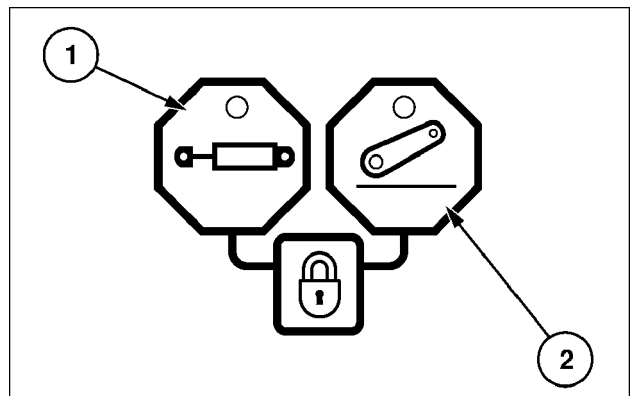
NOTE: At start up, EHR operation is disabled until the engine speed has been detected to be over **500 RPM** for approximately **3 s**.

Should a remote valve become inoperable or stuck in one position, that valve will become disabled until the fault is rectified or the valve electronically disconnected from the system. Should this occur, consult your authorized dealer.

NOTE: In the unlikely event that a remote valve ceases to operate or respond correctly to lever movements, the system will require the attention of your authorized dealer.



SVIL17TR00867AA 1



BRK5781B 2

Control lever operation

The default configuration is that the levers control rear EHR 1- 4, but they can be assigned to control rear or mid mount valves.

⚠ WARNING

Uncontrolled equipment movement!

Because the electronic remote control valves have detented lever positions, it is not recommended to use them for front-end loader operations. Consult your authorized dealer.

Failure to comply could result in death or serious injury.

W0428A

Each remote valve lever (**1**) has four positions, raise, neutral, lower and float. In raise and lower modes, the detented positions are used for timed remote valve functions.

In the following text lever positions may be described as raise, neutral, lower and float or extend, neutral, retract and float. The functionality however, remains the same.

The 'float' position is also used for retracting a single-acting cylinder and is the OFF position for operating hydraulic motors.

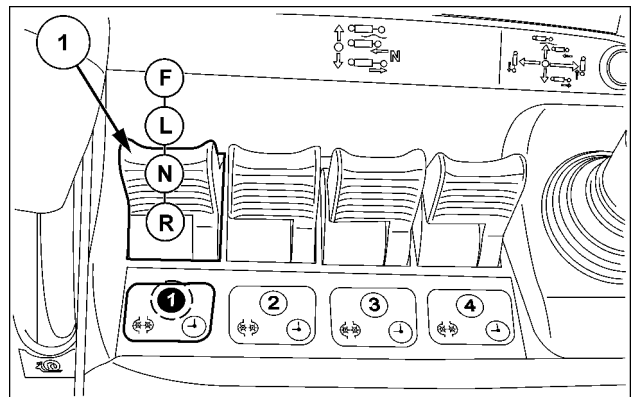
Pull the lever back from the neutral position, (**N**) to the raise position, (**R**). From neutral, push forward to the (lower) position, (**L**). Push the lever fully forward to the float position, (**F**). Float will permit a hydraulic cylinder to extend or retract freely, allowing equipment such as scraper blades to "float" or follow the ground contour.

NOTICE: Care must be taken when operating in the manual mode that the remote valve lever is not left in the detented extend or retract positions when using remote cylinders.

When the cylinder has reached the end of its stroke the control lever must be returned to the neutral position manually.

Failure to observe this procedure may cause overheating of the hydraulic oil and may lead to failure of hydraulic or drive line components.

NOTICE: Never use the neutral position from the extend or retract position to stop a hydraulic motor. Sudden hydraulic lock up of the system may cause extensive damage to the motor. To operate hydraulic motors always use motor mode, see on page **Creating timer programs (35.204)** and the following.



SS10M105 3

Powershift control operation

The operation of rear EHR valve 1 is by two switches **(1)** on the powershift control.

NOTE: With the optional EHR implement setting, the EHR control on the powershift control can be set individually.

The switches provide extend, retract and float functions.

With timer mode not active for valve 1

Depress and hold the upper switch to extend. Depress and hold the lower switch to retract a hydraulic cylinder.

To engage the float facility, depress/hold the function switch **(2)** on the back of the powershift control then press/release the retract switch. This will put the valve into float.

To cancel the float facility, depress the extend or retract switch, this will put the valve into neutral **(N)**.

To reactivate extend or retract mode depress and hold the extend or retract switch.

With timer mode active for valve 1

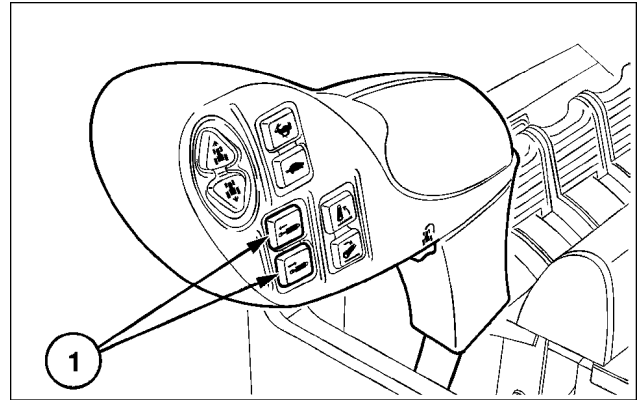
Activate timer mode for valve 1 as described in section 3 of the operator's manual. Depress the extend or retract switch to start and stop the timer.

Depress the upper switch to extend. Depress the lower switch to retract a hydraulic cylinder. Oil flow from the valve is given according the timer setting for extend and retract.

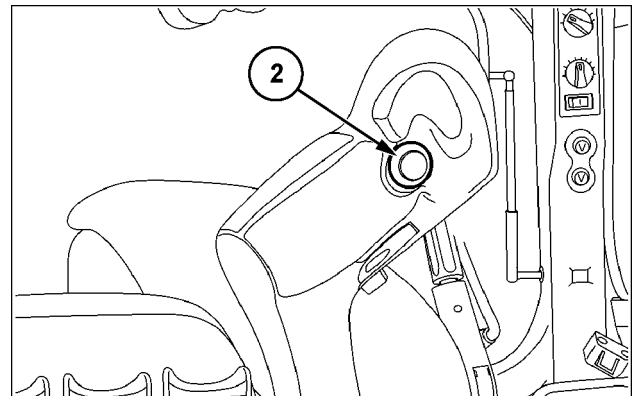
To engage the float facility, depress/hold the function switch **(2)** on the back of the powershift control then press/release the retract switch. This will put the valve into float.

To cancel the float facility:

- depress the retract switch. This will put the valve into neutral.
- depress the extend switch. This will immediately activate the valve into extend function according the timer setting.



SS11K171 4



SS11K173 5

Electronic joystick operation (where fitted)

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.
Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

W1789A

NOTE: The following descriptions of joystick operating procedures refer to tractors not equipped with a factory installed loader kit. For information on loader functions consult the loader Operator's Manual or see page **Joystick operation with a front loader (standard joystick) (90.151)**.

NOTE: The pictures of the joystick shown are symbolic pictures.

The optional electronic joystick (1) can be used to operate either mid mounted or rear mounted EHRs. Where the joystick is being used to control the rear mounted valves, the operation of the mid mount valves will be transferred to EHR lever control.

With mid and rear mounted EHRs, the switch on the integrated control panel, permits joystick control of either mid mounted or rear mounted valves.

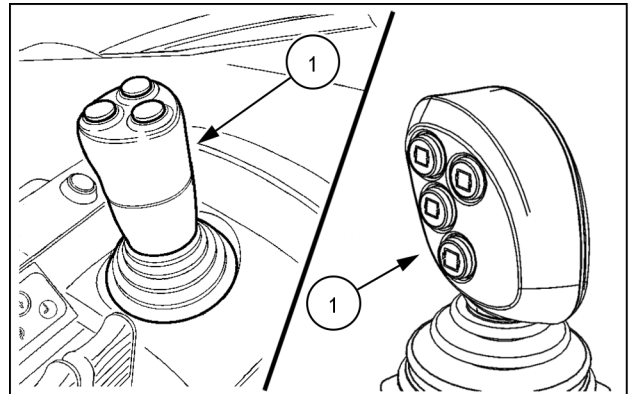
Indicator lights (1) and (2) confirm which valves are controlled by the joystick.

NOTE: Where tractors are fitted with mid mount EHRs and mechanical rear remote vales, depressing the switch (1) will have no effect and the light (2) will remain illuminated.

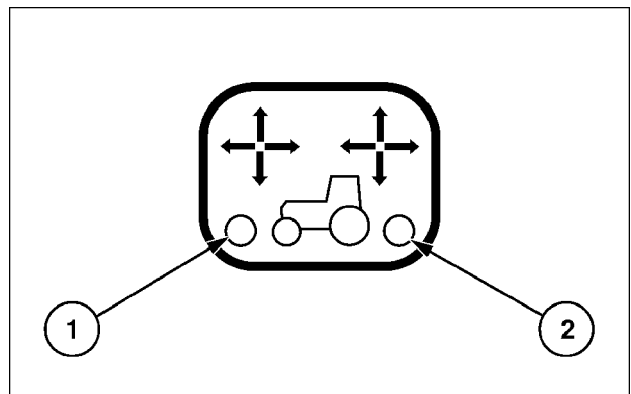
At key-ON, assuming the joystick set to operate the mid mount valves, the indicator light (1) will be on. To switch joystick control from mid mount to rear mount valves, depress and hold the switch for 2 s until light (1) is extinguished and light (2) starts to flash.

Release the switch and light (2) will stop flashing and will remain illuminated. Control is now transferred to the rear mounted valves.

Before transferring joystick control between EHRs, it is important that all remote valves are in neutral. Any valves not in neutral will be disabled and the EHR display will identify the number and 'R' (rear) or 'FR' (front). If a joystick transfer is attempted and one of the target valves is not in neutral the indicator light will flash until the disabled EHR has been reactivated.



SVIL18TR04273AA 1



SS10J123 2

To reactivate a valve, use the newly assigned EHR control (lever or joystick) and cycle the valve through neutral into raise or lower and back to neutral.

At key-OFF, the current joystick setting (mid or rear mount control) will be retained in the EHR memory for reactivation at key-ON.

Where mid-mount valves are not fitted to the tractor, the switch is used to select lever or joystick control of the rear EHR's only. Where no lights appear in the switch, operation of the valves is by lever, when light **(2)** is illuminated, operation is by joystick.

The joystick operates in two axis, forward/rearward and side/side. Forward/rearward movement provides raise, neutral, lower and float on valve 1, moving the joystick sideways gives raise, neutral and lower on valve 2.

Move the joystick rearwards or to the left **(R)** to extend a hydraulic cylinder.

Pushing the joystick forward or to the right, into the 'lower' position **(L)**, will retract the cylinder. Further forward movement of the joystick will select 'float' **(F)** which will allow the cylinder to extend or retract freely.

Two services can be operated simultaneously by moving the joystick diagonally.

Where additional hydraulic services are required, the joystick can offer optional functions activated by depressing and holding the switch **(1)** on top of the joystick.

Remote valve 1:

Move the joystick forwards or backwards to operate raise, neutral, lower and float.

Remote Valve 2:

Move the joystick left or right to operate raise, neutral and lower.

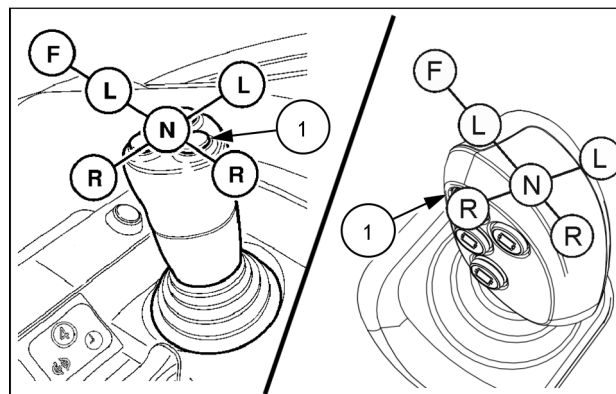
Remote valve 3:

Depress and hold the switch **(1)** and move the joystick forwards or backwards to operate raise, neutral, lower and float.

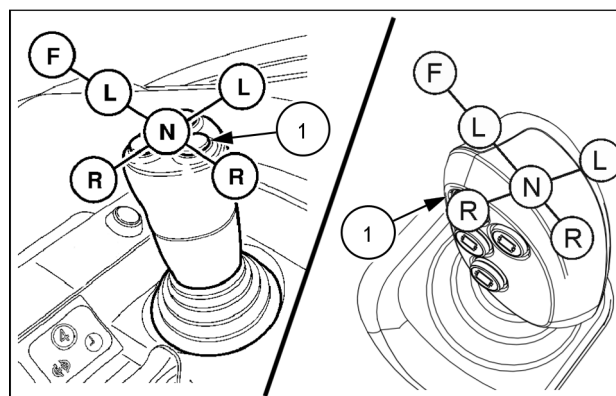
Remote Valve 4 (rear only):

Depress and hold the black switch **(1)** and move the joystick left or right to operate raise, neutral and lower.

NOTE: Always use the 'float' position to lower a single-acting cylinder. The 'lower' position is for double-acting cylinders only.



SVIL18TR04274AA 3



SVIL18TR04274AA 4

Switch function

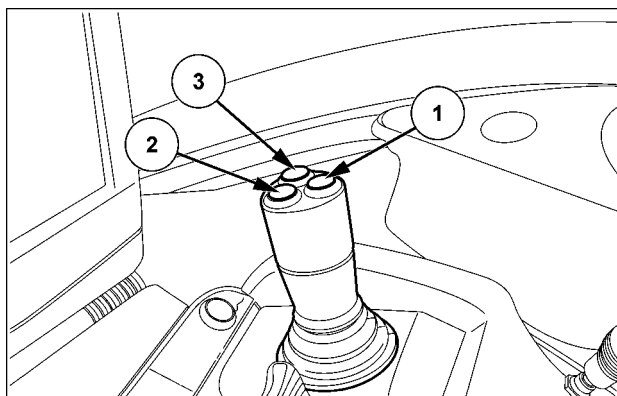
Standard joystick with 3 buttons, when operating up to 3 mid-mount remote valves

Control	Functionality
moving joystick left or right	Controls remote valve 1
moving joystick forward or rearward	Controls remote valve 2
depress/hold switch (1) while moving joystick left or right	Controls remote valve 3
depress/hold switch (1) while moving joystick forward or rearward	no function
Switch (2)	* Operates remote hydraulic service via relay and additional valve
Switch (3)	* Operates remote hydraulic service via relay and second additional valve

Standard joystick with 3 buttons, when operating up to 4 electronic rear remote valves

Control	Functionality
moving joystick left or right	Controls remote valve 1
moving joystick forward or rearward	Controls remote valve 2
depress/hold switch (1) while moving joystick left or right	Controls remote valve 3
depress/hold switch (1) while moving joystick forward or rearward	Controls remote valve 4
Switch (2)	* Operates remote hydraulic service via relay and additional valve
Switch (3)	* Operates remote hydraulic service via relay and second additional valve

*Applies only to tractors equipped with factory installed loader or diverter valve on implement.



SVIL18TR04272AA 5

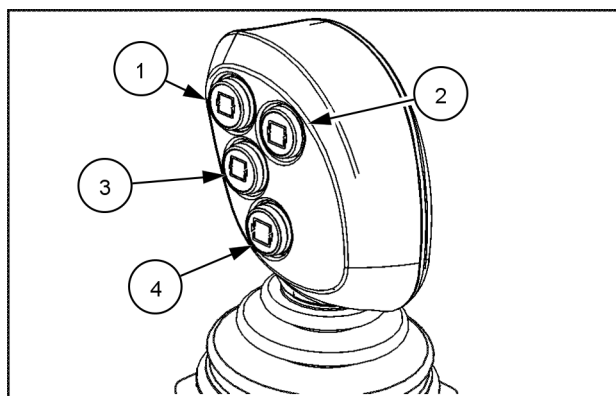
Advanced joystick (where fitted), when controlling up to 3 mid-mount remote valves

Control	Functionality
moving joystick left or right	Controls remote valve 1
moving joystick forward or rearward	Controls remote valve 2
depress/hold switch (1) while moving joystick left or right	Controls remote valve 3
depress/hold switch (1) while moving joystick forward or rearward	no function
Switch (2)	* Operates remote hydraulic service via relay and additional valve
Switch (3)	* Operates remote hydraulic service via relay and second additional valve
Switch (4)	* Operates remote hydraulic service via relay and third additional valve

Advanced joystick (where fitted), when controlling up to 4 electronic rear remote valves

Control	Functionality
moving joystick left or right	Controls remote valve 1
moving joystick forward or rearward	Controls remote valve 2
depress/hold switch (1) while moving joystick left or right	Controls remote valve 3
depress/hold switch (1) while moving joystick forward or rearward	Controls remote valve 4
Switch (2)	* Operates remote hydraulic service via relay and additional valve
Switch (3)	* Operates remote hydraulic service via relay and second additional valve
Switch (4)	* Operates remote hydraulic service via relay and third additional valve

*Applies only to tractors equipped with factory installed loader or diverter valve on implement.



SVIL17TR03459AA 6

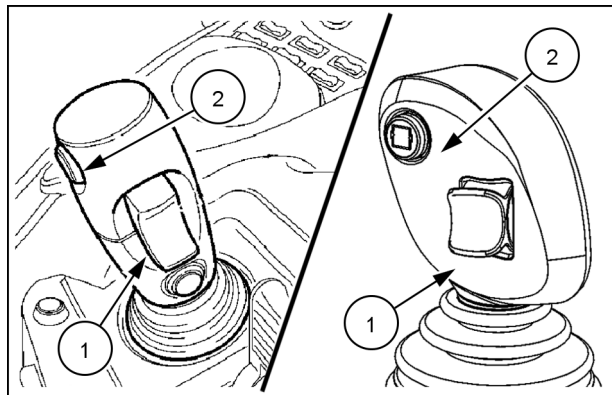
Joysticks with rocker switch, when operating up to 3 mid-mount remote valves

Control	Functionality
moving joystick left or right	Controls remote valve 1
moving joystick forward or rearward	Controls remote valve 2
rocker switch (1)	Controls remote valve 3
switch (2)	no function

Joysticks with rocker switch, when operating up to 4 electronic rear remote valves

Control	Functionality
moving joystick left or right	Controls remote valve 1
moving joystick forward or rearward	Controls remote valve 2
rocker switch (1)	Controls remote valve 3
depress/hold switch (2) while moving joystick forward or rearward	Controls remote valve 4
depress/hold switch (2) while moving joystick left or right	no function

*Applies only to tractors equipped with factory installed loader or diverter valve on implement.



SVIL18TR04268AA 7

Joystick functionality screen (with color display)

Remote Valves

Use ▲▼ to scroll through the menu until Joystick is displayed.

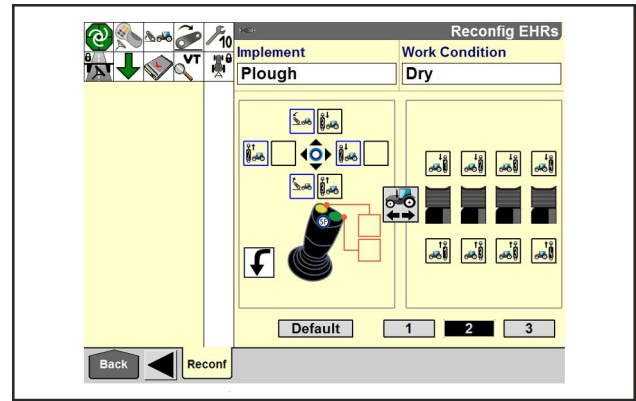
'Reconf'

The joystick functionality screen identifies the number of valves controlled by the joystick and the corresponding movement required to operate each valve.

When joystick operation is transferred between rear and mid mount valves, the screen will also change to display the new setting.

If the tractor is fitted with a front hitch the joystick functionality screen also identifies the valve used to operate the front hitch.

Where tractors are equipped with a factory fitted front loader, the functionality screen will show joystick movement for loader arm raise/lower and bucket roll out/roll back.



SVIL17TR01298AA 8

Joystick float operation

⚠ WARNING

Crushing hazard!

Make sure no one will be injured by moving equipment when relieving pressure in the system. Before disconnecting cylinders or equipment, make sure the equipment or implement is supported securely.

Failure to comply could result in death or serious injury.

W0424A

Where it is necessary to exhaust hydraulic pressure from valves 2 and 4, i.e. before disconnecting a hydraulic hose from the tractor, a float switch is provided on the armrest. The following procedure must be carried out with the engine running.

Valves 1 and 3: With the engine running move the joystick forward into the float position, then stop the engine (valve 1). For valve 3, depress the switch **(1)** and move the joystick forward into float. Stop the engine.

Valves 2 and 4:

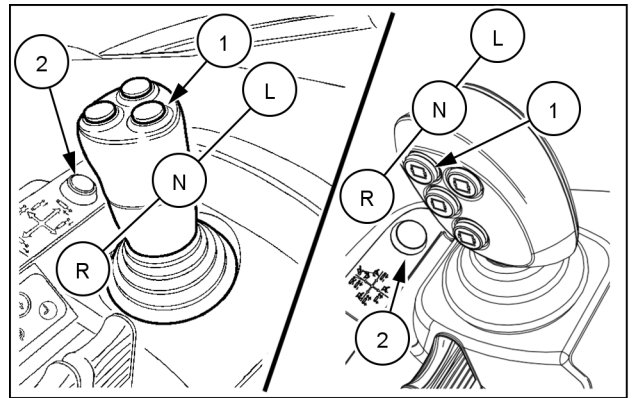
With the engine running, depress and hold the switch **(2)** move the joystick fully to the raise position **(R)** and then back to neutral **(N)**. Switch off the engine and disconnect the hydraulic hoses from remote valve number 2.

To release the pressure in the hoses for valve number 4 follow the same procedure but depress/hold switches **(1)** and **(2)**, before moving the joystick to the fully raise position **(R)**.

NOTE: The above procedure can also be used to select float on valves 2 and 4 during normal operation.

To cancel float mode, move the joystick in any direction to the raise or lower position and then back to neutral.

To cancel float mode, move the joystick in any direction to the raise or lower position and then back to neutral.



SVIL18TR00215AA 9

Joystick operation with a front loader (standard joystick)

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading.
Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while roading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

W1789A

Where a front loader is installed as a factory option, an electronic joystick is provided to control the electronic remote valves (EHRs) used for operating the loader and attachments. Up to three remote valves may be operated simultaneously by the joystick.

NOTE: Where a tractor is equipped with front loader and rear EHRs, the joystick is dedicated to operate the loader mid-mount valves only, it is not possible to control the rear EHR's using the joystick.

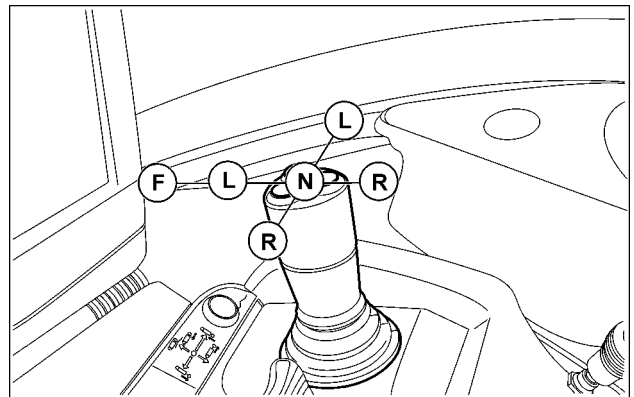
Joystick for 2 remote valves

Remote valve 1:

Move the joystick forwards (**L**) or backwards (**R**) to raise and lower the loader boom.

Pushing the joystick forward to the 'lower' position (**L**) will allow the loader boom to lower to the ground at a controlled rate of descent.

By moving the joystick fully forward into 'float' (**F**) the loader boom will lower quickly under its own weight. When float is engaged with the boom in the fully lowered position, the bucket or attachment will follow the ground contours.



SS10M106 1

⚠ WARNING

Crushing hazard!

Lower all components, attachments, or implements to the ground before leaving the cab.
Failure to comply could result in death or serious injury.

W0419A

NOTE: The 'float' position is not available on remote valve 2 and 3.

Remote Valve 2:

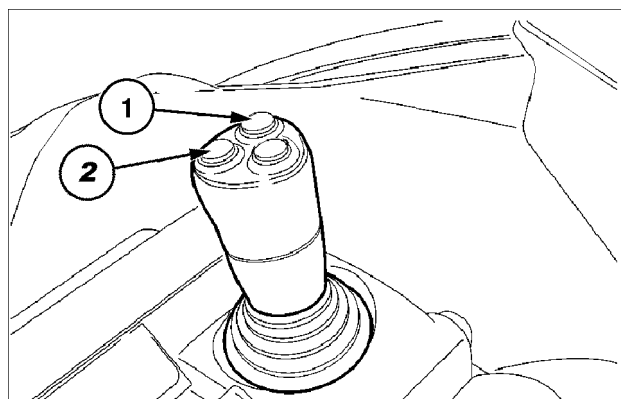
Moving the joystick to **(R)** operates bucket rollback, moving the joystick to **(L)** to operate bucket dump.

NOTE: By moving the joystick diagonally, both loader boom and bucket actions can be operated simultaneously.

Where additional hydraulic services are required, the joystick can offer optional functions activated by depressing and holding the switches **(1)** and **(2)** on the joystick.

Switch function

Switch number	Functionality
1	Operates remote hydraulic service via relay and additional valve
2	Operates remote hydraulic service via relay and second additional valve



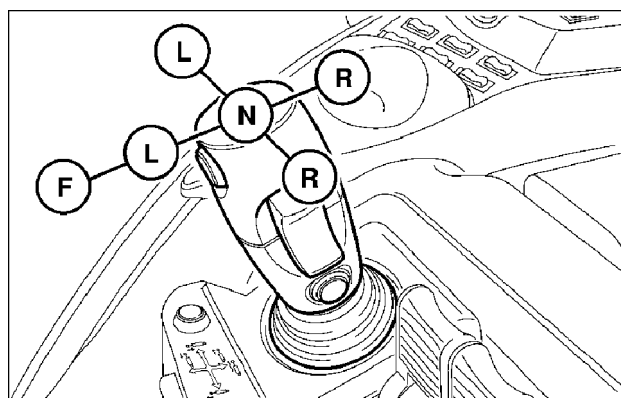
SS10M165 2

Joystick for 3 remote valves**Remote valve 1:**

Move the joystick forwards **(L)** or backwards **(R)** to raise and lower the loader boom.

Pushing the joystick forward to the 'lower' position **(L)** will allow the loader boom to lower to the ground at a controlled rate of descent.

By moving the joystick fully forward into 'float' **(F)** the loader boom will lower quickly under its own weight. When float is engaged with the boom in the fully lowered position, the bucket or attachment will follow the ground contours.



SS10M157 3

⚠ WARNING**Crushing hazard!**

Lower all components, attachments, or implements to the ground before leaving the cab.

Failure to comply could result in death or serious injury.

W0419A

NOTE: The 'float' position is not available on remote valve 2 and 3.

Remote Valve 2:

Moving the joystick to **(R)** operates bucket rollback, moving the joystick to **(L)** to operate bucket dump.

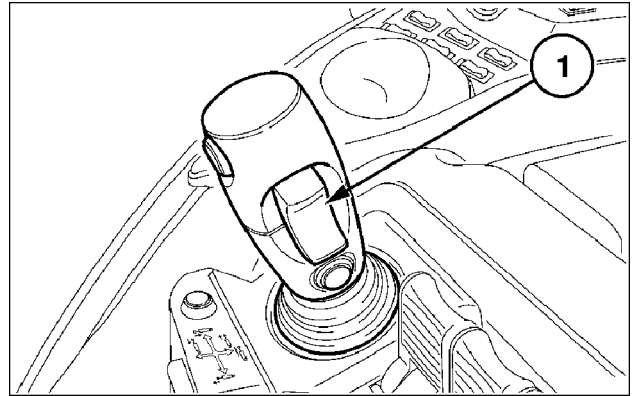
NOTE: By moving the joystick diagonally, both loader boom and bucket actions can be operated simultaneously.

Remote valve 3 (where fitted):

Where a third hydraulic service is required to operate an attachment such as a bale fork eject plate or 4 in1 bucket jaw, switch **(1)** is used to control the third valve.

The control for this valve is a progressive, self centring rocker switch. This type of switch allows the operator to control the speed at which a hydraulic cylinder is extended or retracted.

By lightly depressing the switch, a minimal oil flow is generated to provide a slow speed, depressing the switch further will increase the flow and therefore the speed.



SS10M156 4

Joystick activation and calibration

At key-off, the joystick function is deactivated. To activate the joystick, the operator must be in the seat with the engine running for more than **5 s**.

When the joystick is deactivated, the warning light **(2)** will flash.

NOTE: If the operator leaves the seat with the engine running, joystick operation will be deactivated and the warning light **(2)** will start to flash. When the operator is re-seated, joystick operation will be reactivated after **2 s**. The warning light will stop flashing and will remain illuminated.

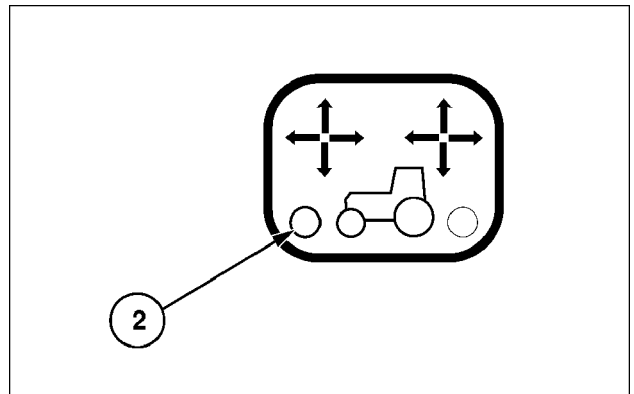
NOTICE: Where a loader has been retrofitted to a tractor having the remote valves configured for front hitch operation or front coupler operation, it is most important the valves are re-configured by your authorized dealer for loader operation.

This will provide the advanced features available when the loader is used in conjunction with the color display, and will also disable the auto function so joystick operation cannot be included in Easy Tronic HMC programmes.

The re-configuration procedure requires the use of special tools and must be carried out by an authorized dealer.

NOTE: Switching the joystick from mid-mount to rear valve operation will automatically suspend lever operation of the rear remote valves.

NOTICE: Before switching joystick operation between mid and rear valve packs or vice versa, ensure both remote valve levers and joystick are in the neutral position.



BRK5676D 5

Joystick functionality screen (where fitted)

Where tractors are equipped with a factory fitted front loader, the functionality screen will show joystick movement for loader arm raise/lower and bucket rollout/roll-back.

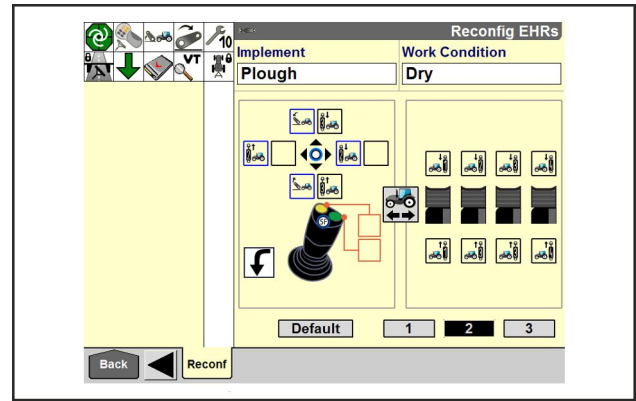
To access the joystick screen:

- ☞ Back
- ☞ Remote valves
- ☞ 'Reconf'

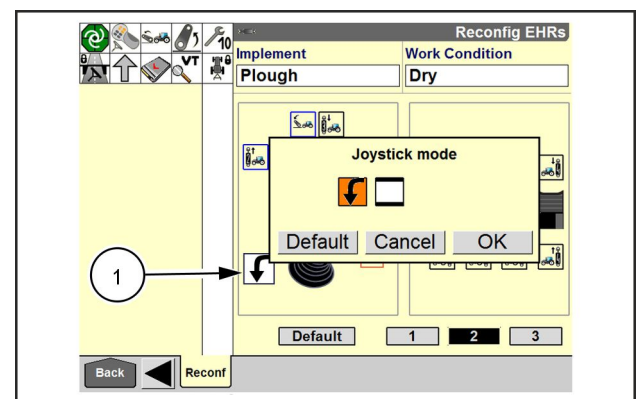
The screen shows the setting of the remote valves and front hitch to the joystick.

Click on the joystick mode **(1)** to choose two different option modes:

- Normal
- Hold



SVIL17TR01298AA 6

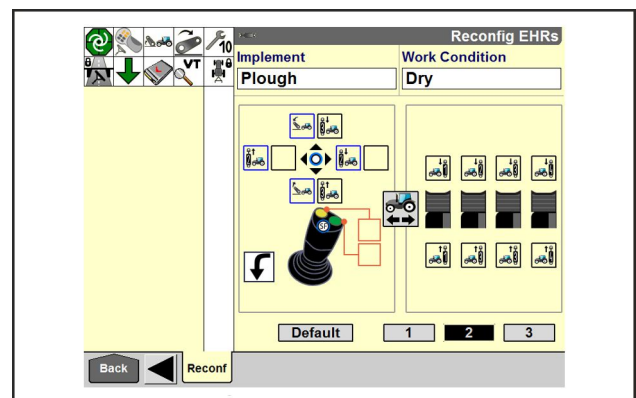


SVIL17TR01302AA 7

Normal mode

The joystick is by default set to normal mode. The operation is as described before.

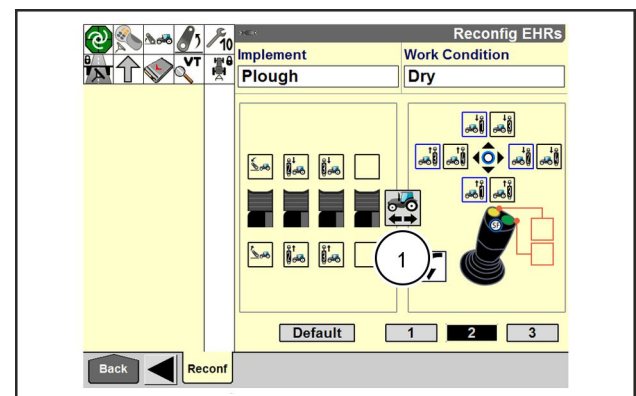
The joystick screen shows the movement direction of the joystick by illuminating the appropriate bucket symbol in red.



SVIL17TR01298AA 8

Joystick selection to front/rear EHRs

Click on the tractor symbol **(1)** to change the joystick selection from the front EHRs to the rear EHRs and vice versa.



SVIL17TR01304AA 9

Hold mode

This option is intended for a loader with pallet forks to be locked out e.g. during transporting.

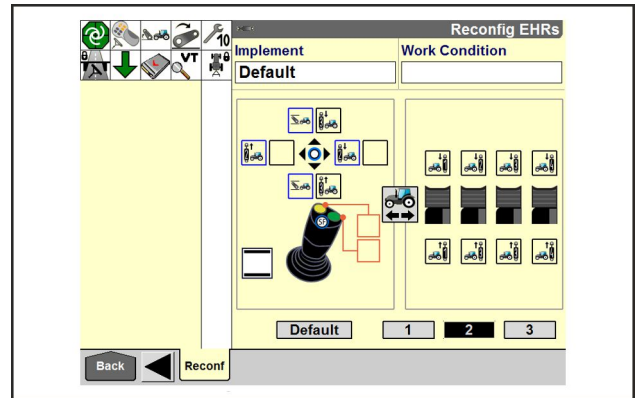
The option selected means the joystick is locked permanently in the left and right direction.

Move the joystick to the rear and press the joystick switch. The raising loader arms stop immediately. Move the joystick to neutral and again to the rear to continue the lift movement.

Every time when the joystick switch is pressed during the joystick is in the forward/lowering or reward/lifting movement, the loader arms stop.

The bucket symbol with horizontal lines appears on the screen for the left and right direction of the joystick and becomes red illuminated when the joystick is moved forward and reward and the joystick switch is pressed.

NOTE: Move the joystick out of neutral before pressing the joystick switch. In the other way the hold function can not be enabled.



SVIL17TR01306AA 10

Joystick operation with a front loader (advanced joystick)

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before loading.
Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

Unexpected machine movement!

Always use the machine's locking devices to prevent any unintentional movements of the machine (mounted or towed) or parts of it that may occur while loading or servicing (unfold, swing out, or other). Read and follow all related instructions in the manual provided by the machine manufacturer.
Failure to comply could result in death or serious injury.

W1789A

Where a front loader is installed as a factory option, an electronic joystick is provided to control the electronic remote valves (EHRs) used for operating the loader and attachments. Up to three remote valves may be operated simultaneously by the joystick.

NOTE: Where a tractor is equipped with front loader and rear EHRs, the joystick is dedicated to operate the loader mid-mount valves only, it is not possible to control the rear EHR's using the joystick.

NOTE: For the description of the switch functions, see **Advanced joystick (where fitted) (55.640)**.

Joystick for 2 remote valves

Remote valve 1:

Move the joystick forwards to position **(L)** or backwards to position **(R)** to raise and lower the loader boom.

Pushing the joystick forward to the **(L)** position will allow the loader boom to lower to the ground at a controlled rate of descent.

By moving the joystick fully forward into 'float' **(F)** the loader boom will lower quickly under its own weight. When float is engaged with the boom in the fully lowered position, the bucket or attachment will follow the ground contours.

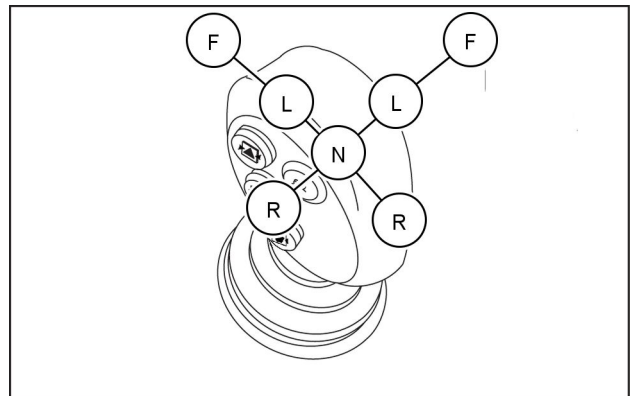
NOTE: When the joystick is configured to a front loader, the detent 'float' position **(F)** on the x-axis puts the assigned EHR into full retract / neutral.

Remote Valve 2:

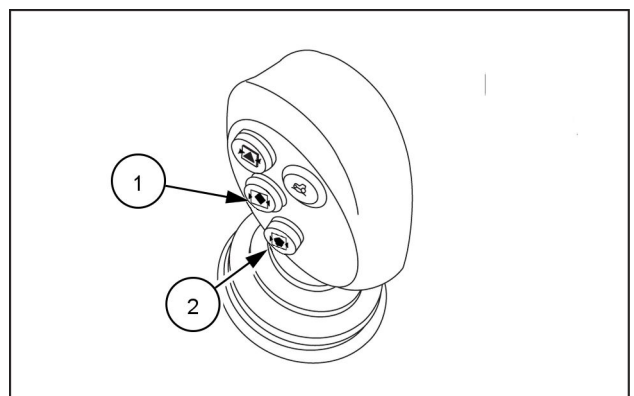
Moving the joystick to the left to position **(R)** operates bucket rollback, moving the joystick to the right to position **(L)** operates bucket unloading.

NOTE: By moving the joystick diagonally, both loader boom and bucket actions can be operated simultaneously.

Where additional hydraulic services are required, the joystick can offer optional functions activated by depressing and holding the switches **(1)** and **(2)** on the joystick.



SVIL21TR01327AB 1



SVIL21TR01327AB 2

Joystick for 3 remote valves

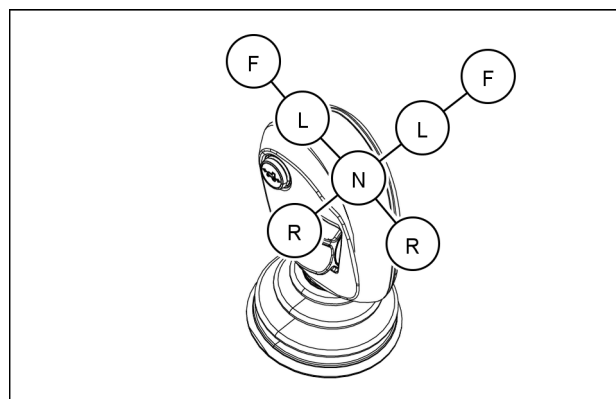
Remote valve 1:

Move the joystick forwards to position **(L)** or backwards to position **(R)** to raise and lower the loader boom.

Pushing the joystick forward to the **(L)** position will allow the loader boom to lower to the ground at a controlled rate of descent.

By moving the joystick fully forward into 'float' **(F)** the loader boom will lower quickly under its own weight. When float is engaged with the boom in the fully lowered position, the bucket or attachment will follow the ground contours.

NOTE: When the joystick is configured to a front loader, the detent 'float' position **(F)** on the x-axis puts the assigned EHR into full retract / neutral.



SVIL23TR02546AA 3

⚠ WARNING

Crushing hazard!

Lower all components, attachments, or implements to the ground before leaving the cab.
Failure to comply could result in death or serious injury.

W0419A

Remote Valve 2:

Moving the joystick to the left to position **(R)** operates bucket rollback, moving the joystick to the right to position **(L)** operates bucket unloading.

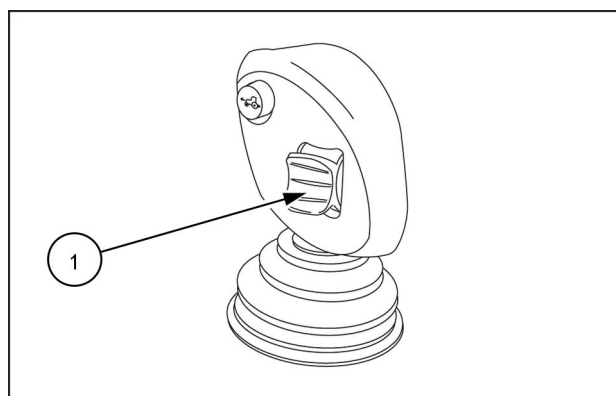
NOTE: By moving the joystick diagonally, both loader boom and bucket actions can be operated simultaneously.

Remote valve 3 (where fitted):

Where a third hydraulic service is required to operate an attachment such as a bale fork eject plate or 4 in 1 bucket jaw, the rocker switch **(1)** is used to control the third valve.

The control for this valve is a progressive, self centring rocker switch. This type of switch allows the operator to control the speed at which a hydraulic cylinder is extended or retracted.

By lightly pressing the switch, minimal oil flow is generated to provide a slow speed, pressing the switch further will increase the flow and therefore the speed.



MOIL19TR02377AA 4

Joystick activation and configuration

At key- off, the joystick function is deactivated. To activate the joystick, the operator must be in the seat with the engine running for more than **5 s**.

When the joystick is deactivated, the warning light **(1)** will flash.

NOTE: If the operator leaves the seat with the engine running, joystick operation will be deactivated and the warning light **(1)** will start to flash. When the operator is re-seated, joystick operation will be reactivated after **2 s**. The warning light will stop flashing and will remain illuminated.

NOTICE: Where a loader has been retrofitted to a tractor having the remote valves configured for front hitch operation or front coupler operation, it is most important the valves are re-configured by your authorized dealer for loader operation.

This will activate the advanced features available when the loader is used in conjunction with the monitor, and will also disable the auto function so joystick operation cannot be included in automated headland sequences.

The re-configuration procedure requires the use of special tools and must be carried out by an authorized dealer.

NOTE: Switching the joystick from mid-mount to rear valve operation will automatically suspend lever operation of the rear remote valves.

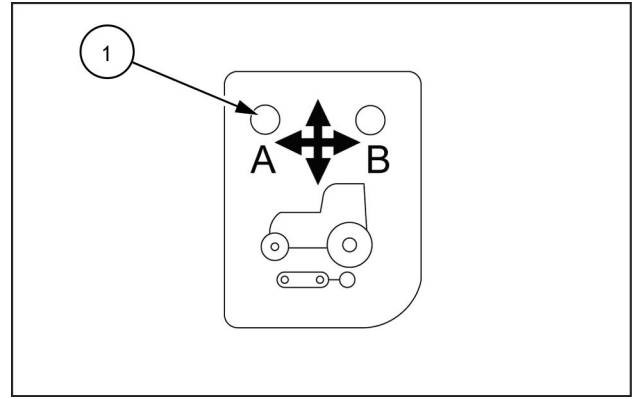
NOTICE: Before switching joystick operation between mid-mount and rear control valves or vice versa, ensure both control valve levers and the joystick are in the neutral position.

Joystick functionality screen with advanced joystick (where fitted)

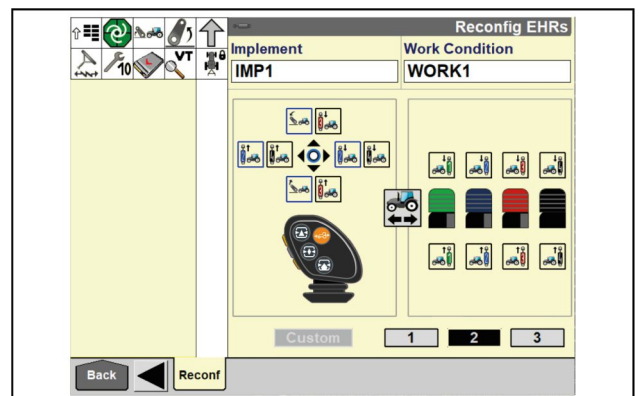
To access the joystick screen:

- ☞ Back
- ☞ Remote valves
- ☞ "Configuration"

The monitor shows the settings for the control valves and front hitch on the joystick.



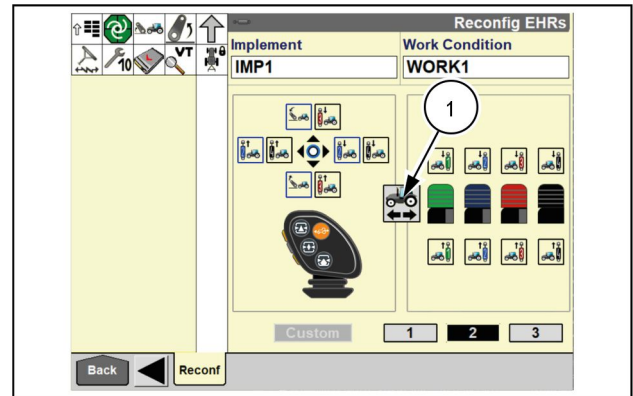
MOIL19TR02359AA 5



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Joystick selection to front/rear EHRs

Click on the tractor symbol **(1)** to change the joystick selection from the front EHRs to the rear EHRs and vice versa.



SVIL23TR02581PA 7

Mid mount remote valves

⚠ WARNING

Moving parts!

Always use the Hydraulic Master switch to disable the hitch and remote valve controls before roading. Failure to comply could result in death or serious injury.

W1587A

⚠ WARNING

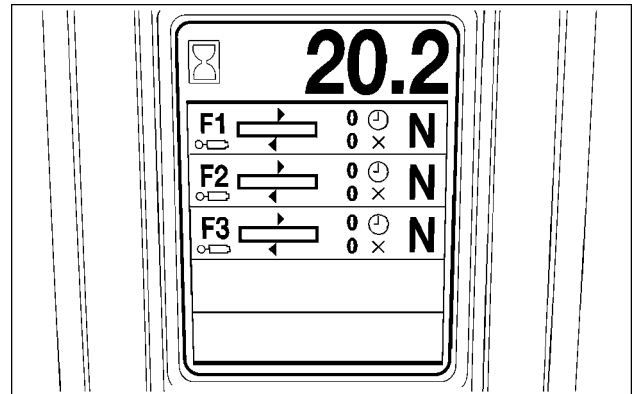
Unexpected machine movement!

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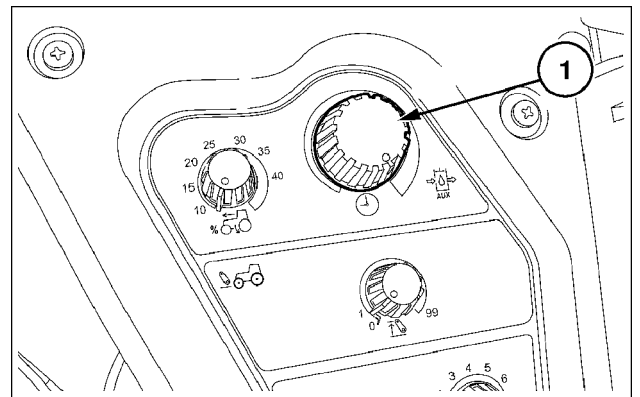
Setting the mid mount valve oil flow

Depress the EHR setting navigator (1), figure 3, in the armrest and the display will change to show the valve select screen. The numbers will be prefixed with R (rear) or F (front). Rotate the navigator to select the appropriate valve then depress to access the settings screen for that valve.



SS10D212 1

The navigator is used to select and change valve settings within the performance screen.

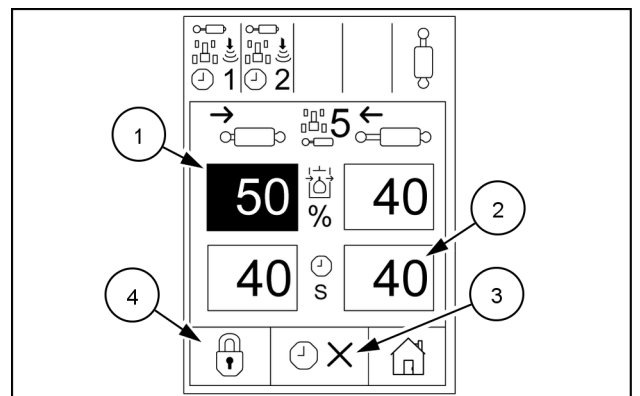


BRL6435C 2

EHR performance adjustments

1. Oil flow, retract and extend (percentage).
2. Timer settings, retract and extend (seconds).
3. Timer on/off.
4. Valve lock or unlock.

Full details on mid mount EHR adjustments can be found in this section beginning on page **Remote control valves (35.204)**.



SVIL17TR01186AA 3

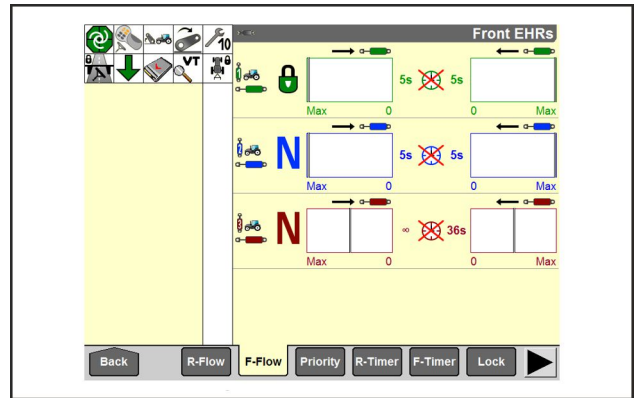
Mid mount EHR valve adjustments (with color display)

A number of settings and adjustments can be made to the mid mount EHR valves. This can be done using the navigator or the color display.

Adjustments and settings will include:

1. Oil flow adjustment, retract and extend.
2. Timer period settings, retract and extend.
3. Timer on/off.
4. Valve lock or unlock.
5. EHR valve priority.

Full details on mid mount EHR adjustments can be found in this section beginning on page **Remote control valves (35.204)**.



SVIL17TR01301AA 4

This maintenance step below is required **EVERY 750 HOURS OR EVERY 2 YEARS**.

Check the handbrake

The handbrake should be checked and adjusted by your authorized dealer as the procedures require the removal of some components.