Form No.
906698
Replaces
906377

4525/4625

Skid Loader

OPERATOR'S MANUAL

GEHL®

SAFETY
(Continued)

The stability of a Skid Loader is determined by its desirable but short wheel base. Any or all of the following elements: the terrain, Engine speed, load being carried or dumped, and/or abrupt T-Bar movements, can affect stability. **IF MISUSED, ANY OF THE ABOVE FACTORS CAN CAUSE THE LOADER TO TIP, THROWING YOU FORWARD OR OUT OF THE UNIT, CAUSING DEATH OR SERIOUS BODILY INJURY.** Therefore, ALWAYS have the Operator Secondary Restraint Bar "lowered" and wear the Seat Belt. Operate the Control T-Bars smoothly and gradually at an appropriate Engine speed which matches the operating conditions.

For additional stability when operating on inclines or ramps, ALWAYS travel with the heavier end of the Loader in the same direction as the top of the incline.

NEVER attempt to by-pass the Keyswitch to start the Loader Engine. Only use the jump-starting procedure detailed in the service chapter of this manual.

Do NOT attempt to remove the Radiator Cap after the Engine has reached operating temperature or if it is overheated because the Engine Coolant will be extremely HOT and under pressure. ALWAYS wait for the Engine to cool down BEFORE attempting to relieve pressure and remove the Radiator Cap. Failure to heed could result in severe burns.

NEVER use your hands to search for hydraulic fluid leaks, use a piece of paper or cardboard. Escaping fluid under pressure can be invisible and can penetrate the skin and cause a serious injury. If any fluid is injected into your skin, see a doctor at once. Injected fluid MUST be surgically removed by a doctor familiar with this type of injury or gangrene may result.

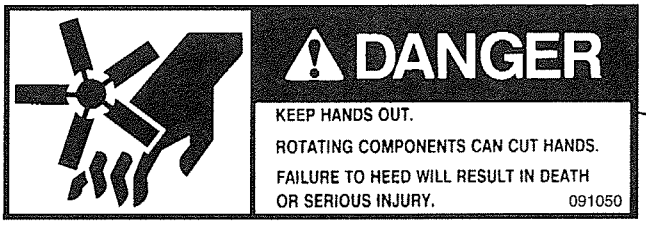
ALWAYS wear safety glasses with side shields when striking metal against metal. In addition, it is also recommended that a softer (non-chipable material) be used to cushion the blow. Failure to heed could lead to serious injury to the eye(s) or other part(s) of the body.

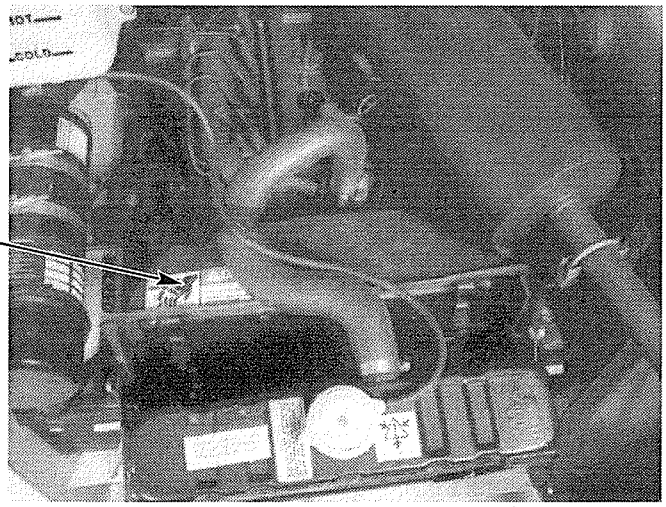
DO NOT raise or drop a loaded Bucket or Fork suddenly. Abrupt movements under load can cause serious instability.

DO NOT push the Lift/Tilt Control T-bar all the way forward (into the "float" position) with the Attachment loaded and the Lift Arm raised as this will cause the Lift Arm to drop, very rapidly.

DO NOT drive too close to an excavation or ditch; BE SURE that the surrounding ground has adequate strength to support the weight of the Loader and the load.

DO NOT smoke while filling the Fuel Tank or while working on the fuel or hydraulic systems.



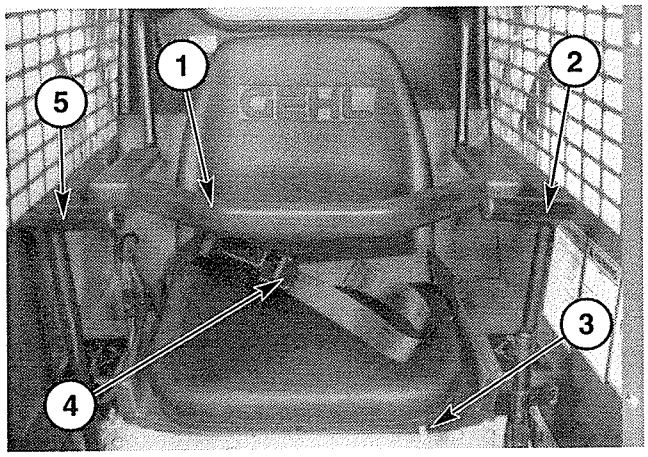


Operator's Compartment. When used in conjunction with the Seat Belt, the Restraint Bar serves to keep you in the Operator's Compartment. For operator comfort and convenience, the Restraint Bar is fully padded and can be used as an arm rest while operating the Loader.

The Restraint Bar Switch is wired in series with the Seat and Neutral Start Switches to form an interlock for the Lift Arm, Hydraulic and Starter circuits (refer to the "Interlocks" topic later in this chapter for additional information).

⚠ WARNING

NEVER attempt to electrically or mechanically defeat the Operator Secondary Restraint Bar and, in addition, ALWAYS wear your Seat Belt; both are there to protect you.



1 – Operator Secondary Restraint Bar (Shown in "Lowered" Position)
2 – Propulsion Control T-Bar
3 – Seat Adjustment Lever
4 – Seat Belt
5 – Lift/Tilt Control T-Bar

Fig. 3

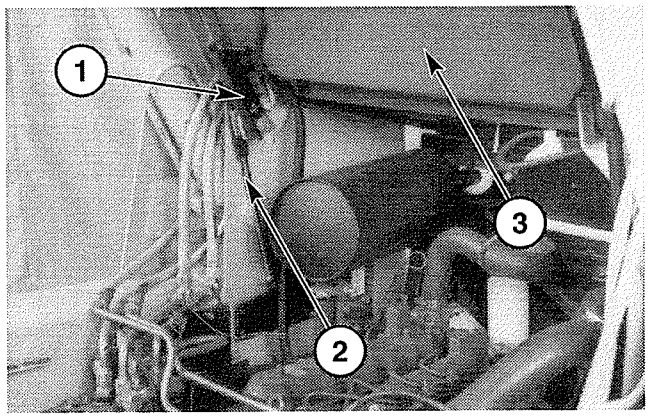
SEAT POSITIONING (See Fig. 3)

The Loader Seat is mounted on Rails to provide forward or backward repositioning to adapt to the operator's size and comfort. A spring-loaded Latch Handle is provided for activating the Seat Adjustment mechanism.

OVERHEAD GUARD (ROPS/FOPS) & LOCK MECHANISM (Fig. 4)

The Overhead Guard is SAE ROPS and FOPS approved. The Guard is designed to protect the operator from falling objects and to be a life-saving protection if the Loader is accidentally tipped-over or rolled, provided the operator is secured within the confines of the Overhead Guard by the Seat Belt and Restraint Bar. On SX and DX models, a Rear Window is provided to help reduce Engine noise.

For service, the Guard can be unbolted and tilted back. Two Gas-charged Springs are provided to assist in tilting the Guard back. A self-actuating Lock Mechanism engages to maintain the Guard in the rolled-back position. To lower the Guard, apply downward pressure on the Guard while pulling the Lock Mechanism Handle toward the front of the Loader. Then, lower the Guard into contact with the Chassis and reinstall and secure the anchor bolts.



1 – Self-actuating Lock Mechanism (Engaged)
2 – Gas-charged Spring (1 of 2)
3 – Overhead Guard

Fig. 4: Overhead Guard Unbolted, Rolled-back & Locked

⚠ WARNING

NEVER attempt to operate the Skid Loader with the Overhead Guard removed or locked-back. BE SURE that the Lock Mechanism Pin is securely engaged when the Guard is tilted back. Properly support the Overhead Guard while unlatching the Lock Mechanism Handle and lowering the Overhead Guard. BE SURE to reinstall and secure the front anchor bolts and locknuts BEFORE resuming Loader operation.

Table of Common Materials and Densities

Material	Density in (lb./ft.^{3})
Ashes	35-50
Brick-common	112
Cement	110
Charcoal	23
Clay	80-100
Coal	53-63
Concrete	115
Cinders	50
Coal-anthracite	94
Coke	30
Earth-dry loam	30
Earth-wet loam	65
Granite	93-111
Gravel-dry	66
Gravel-wet	90
Gypsum-crushed	115
Iron Ore	145
Lime	60
Lime Stone	90
Manure-liquid	65
Manure-solid	45
Peat-solid	47
Phosphate-granular	90
Potash	68
Quartz-granular	110
Salt-dry	100
Salt-Rock-solid	135
Sand-dry	108
Sand-wet	125
Sand-foundry	95
Shale-crushed	90
Slag-crushed	70
Snow	15-50
Sulpha	95
Taconite	107

LOADER OPERATION

WARNING

ALWAYS maintain a safe distance from electric power lines and avoid contact with any electrically charged conductor or gas line! Accidental Contact or rupture can result in electrocution or an explosion! Contact the "Digger's Hotline" or proper local authorities for utility line locations BEFORE starting to dig!

NOTE: *Loader working ability is increased when travel speed is decreased. To obtain maximum Wheel torque, move the Propulsion Control T-Bar only a slight amount forward from its "neutral" position, while filling the Bucket.*

Digging with and Loading a Bucket (Figs. 15 through 18)

To dig with and load a Bucket, first lower the Lift Arm down into contact with the Loader Frame and then roll the Bucket's Cutting Edge down into contact with the ground. Move the Loader into material and, as Engine loads, roll Bucket back slowly and, at same time, pull back gradually on Propulsion T-Bar to decrease travel speed while still maintaining Wheel torque.

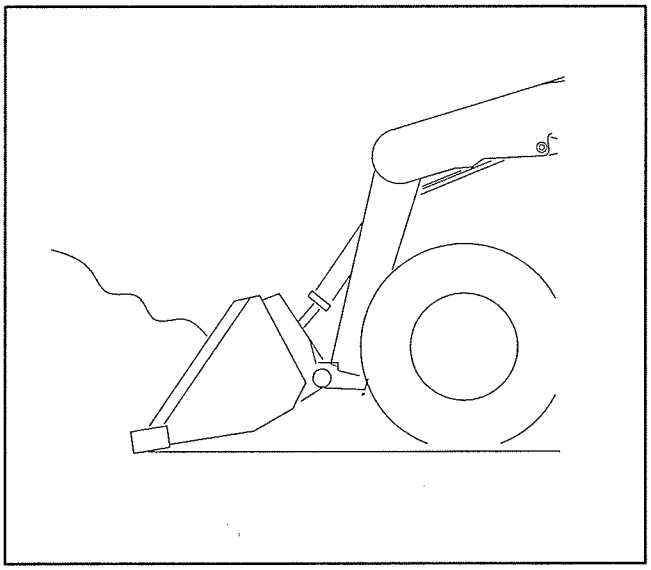


Fig. 15: Digging in Loose Materials

ACCESSORIES

NOTE: *All accessories are field-installed unless otherwise noted. Information for field installing all of the accessories will be provided in separate instructions packaged with the appropriate kit of parts, if applicable.*

All-weather Enclosures

When desired or where operating conditions require, a Rigid Weather Enclosure can be obtained by stock number 804939.

Similarly, a Vinyl All-weather Enclosure can be obtained by stock number 804938.

NOTE: *A Rear Window Kit will also have to be ordered separately except for SX or DX Loaders.*

Amber Strobe Light

When desired or where required, an Amber Strobe Light can be obtained by stock number 805803.

Auxiliary Hydraulics Package (Standard Flow)

NOTE: *Front Auxiliary Hydraulics Outlets are standard equipment on all SX and DX models.*

A Standard-Flow Front Auxiliary Hydraulics system can be obtained by stock number 805808.

Back-up Alarm

An Audible Back-up Alarm can be obtained by stock number 805797.

Bobcat Attachment Adapter Plate

An Adapter Plate is available by stock number 805016. This Adapter Plate allow use of Bobcat Attachment on a Gehl Loader.

Bobcat Hand/Foot Control Option

A Bobcat Control package is available by stock number 805807. This Control package enable converting the Gehl Propulsion and Lift/'Tilt T-Bars to the Bobcat Foot Pedals.

Dirt & Rock Teeth

When desired, the 60 or 65" Utility Buckets can be equipped with a Dirt and Rock Teeth package (stock number 800679) which contains a total of eight (8) Teeth. The Teeth are designed to be evenly spaced and welded onto the Bucket Cutting Edge.

Drawbar

The Loader can be equipped with a Drawbar by ordering stock number 805757.

Dual Element Air Cleaner

NOTE: *The Dual Element Air Cleaner is standard equipment on all SX and DX models.*

A Dual Element Air Cleaner can be obtained by stock number 805795.

Dual Flasher & Tail Light Kit

A Dual Flasher & Tail Light Kit can be obtained by stock number 805802.

Enclosed Alternator

When desired or where operating conditions require, an Enclosed Alternator can be obtained by stock number 804943.

Engine Block Heater

When desired or where operating conditions require, an Engine Block Heater can be obtained by stock number 804945.

Exhaust Purifier Kit

An Exhaust Purifier Kit can be obtained by stock number 805796.

Front Door Assembly for Enclosure

When desired or where operating conditions require, a Front Door Assembly can be obtained by stock number 805843.

NOTE: *The Front Door Assembly is designed only to be used in conjunction with a Rigid All-weather Enclosure.*

Heater/Defroster

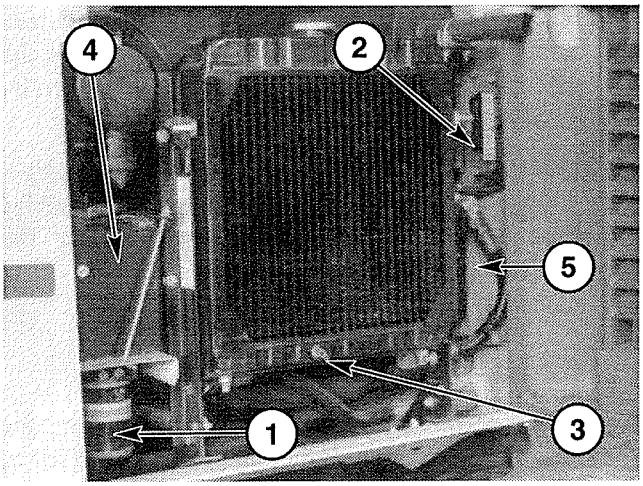
A Heater/Defroster Kit can be obtained by stock number 805799.

NOTE: *The Heater and Defroster is designed for use with a Rigid All-weather Enclosure.*

High Flow (Dual) Pump Package

NOTE: *The* High Flow (Dual) Pump *is standard equipment on the 4625DX model.*

A High Flow Pump Package is available by ordering stock number 804944. Models 4525 and 4625 MUST be equipped with Standard Auxiliary Hydraulics (Kit 805808) before this Kit can be installed.



1 – Spin-on Fuel Filter/Water Trap (Diesel)
2 – Hydraulic Oil Strainer Access Cover & Fluid Level Gauge (Typical)
3 – Radiator Drain Cock Location (Diesel)
4 – Battery (Typical)
5 – Spin-on Hydraulic Filter (Typical)

Fig. 32

4. Check Engine Oil Level (See Figs. 29 & 30)

Open the Engine Access Cover. Pull out the dipstick, located on the right side of Engine, and check the oil level. Markings on the dipstick represent both full and low (add oil) levels. Refer to the "Changing Engine Oil & Filter" subtopic under the Service Every 100 Hours topic in this chapter for the proper location and procedures for adding Engine oil. Also, refer to the Lubrication Chapter and/or the separate Engine manual for oil viscosity and requirements information.

5. Check Hydraulic Oil Level (See Fig. 32)

The Loader is provided with a Visual Hydraulic Oil Level Indicator which is located on the Chassis Right Riser. Refer to the Lubrication chapter for oil recommendations and to the "Hydraulic Reservoir Oil" subtopic, under the 500 hour (or One Year) topic, for draining and replacement information.

6. Lubricate All Cylinder Pivots

Lubricate the fittings on both ends of all four Cylinders; refer to details in the Lubrication chapter.

7. Lubricate Lift Arm Pivots

Lubricate both Lift Arm Pivot fittings; refer to details in the Lubrication chapter.

8. Check Seat and Restraint Bar Operation

Check that both items function properly and are NOT damaged. Electrical Switches in the Seat and Restraint Bar MUST be closed (operator sitting on the Seat and the Restraint Bar lowered) to complete the starter circuit for starting the Loader Engine. (NOTE: Propulsion Control T-Bar must be in the "neutral" position, also.)

9. Check Instrument Lights/Buzzer

All Indicators should illuminate and the Buzzer should sound for two seconds when the Keyswitch is turned to the "RUN" position.

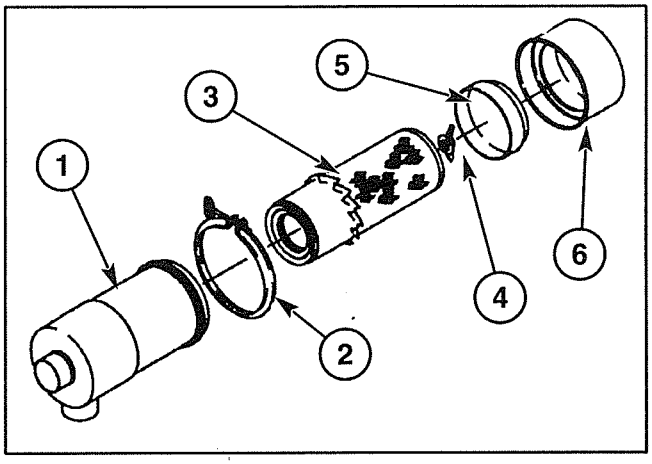
Service Every 100 Hours

1. Replace Air Cleaner Element (Figs. 33 & 34)

NOTE: *Depending on operating conditions, the Air Cleaner Element may require more frequent servicing than once every 100 hours.*

Element(s) Removal & Installation

Single Element Type Air Cleaner - To remove the Air Cleaner Element, first, unlatch and open the Rear Grill and open the Engine Access Cover. Next, loosen (but do NOT remove) the Clamp Band Eyebolt which secures the Element Cover and remove the Cover. Then, remove the Wing Nut which secures the Element and remove the Element from the Housing. To replace the Element, reverse the removal procedure. A new Element can be obtained by Gehl part number 055017.



1 – Element Housing & Inlet Assembly
2 – Clamp Band & Tightener Eyebolt
3 – Filter Element
4 – Wing Nut
5 – Baffle
6 – Element Cover

Fig. 33: Single Element Type Air Cleaner

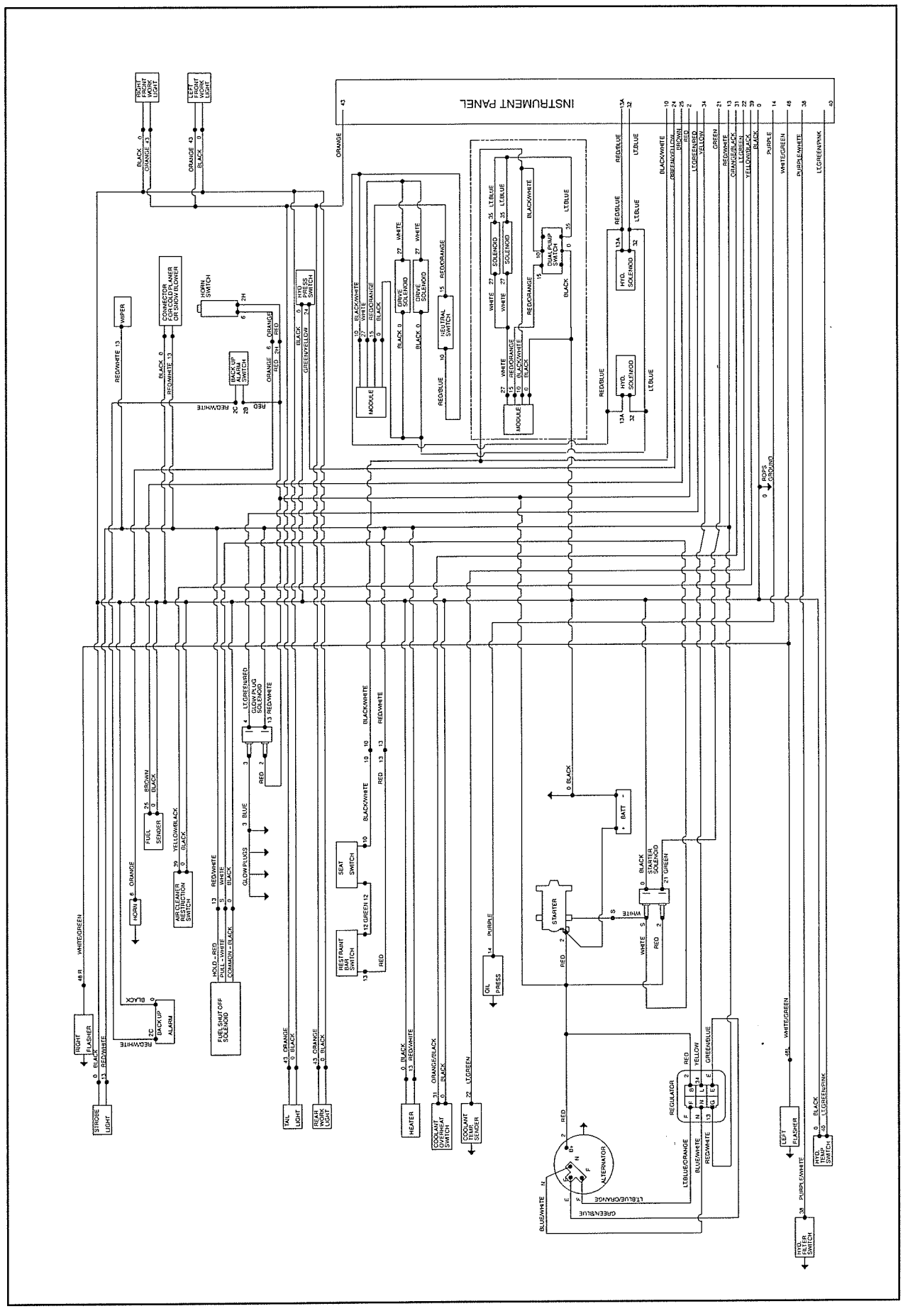


Fig. 41: Loader Wiring Diagram (4625, 4625SX , 4625DX Before SN17248)