

SKID LOADER POWER RAKE

OPERATING INSTRUCTIONS

NOTE: Read the skid loader operator's manual for connecting and removing instruction.

Position hydraulic hoses so they will not be pinched when connecting the power rake.
The skid steer coupler handles should be in the unlocked position, and the lock pins retracted.
Move to the skid steer operator seat and start engine.
Lower skid steer lift arms to their lowest position.
Carefully move and align the skid steer to the power rake.
The top of the skid steer coupler must index into the power rake flange.
Roll the skid steer coupler into the power rake so the coupler handles can be engaged.
Shut off the engine, set brake, and remove key.
Move the skid steer coupler handles to the locked position.
The lock pins must be completely extended and secured into the slots provided on the power rake.
Connect hydraulic hoses to skid steer auxiliary quick couplers.

POWER RAKE FUNCTION

The power rake hydraulic motor drives the roller which digs into the ground, cultivating and pulling up rocks, roots, and debris.
The soil goes between the roller and barrier while the rocks, roots, and debris work to the side. (Windrow)
With the endplates mounted in the working position and the rake straight, material can be moved along filling in the low spots.
Any rocks, roots, and debris can be collected and moved to another location for hauling away.
Start prime mover engine.
Lower power rake slowly to the ground.
Engage hydraulic control lever for auxiliary implements.
Increase engine rpm to give desired rpm at the roller.
Move the prime mover forward or backward as desired.
For the roller to operate effectively it must rotate in the opposite direction of the prime mover wheels.

GROUND SPEED

Ground speed should be between 3 and 5 mph under normal conditions.
In heavy rock, reduce the ground speed to 1 to 3 mph.

SHUTTING DOWN

Stop engine.
Purge any air in the system.
Hydraulic system leak, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly.
Shut off engine, set brake, remove key, remove seat belt, and release operator restraint before leaving the operator's seat.
On a hard level surface, lower attachment to the ground.
Move attachment coupler latches to the unlocked position.
Disconnect hydraulic hoses from quick couplers.
Install dust plugs and couple hoses together for storage.
Move to operator seat and start engine.
Release brake and roll attachment coupler until it is disengaged from the attachment.
The attachment should rest in a stable position for storage.

TROUBLESHOOTING

Problem:

Roller will not turn.

Cause:

Hydraulic valve on skid steer not engaged.
Hose ends not completely engaged.
Insufficient oil in system.
Obstruction between roller and barrier.

Problem:

Oil leaks.

Cause:

Worn or damaged seal.

Loose or damaged hoses.

Loose or damaged connections.