

744/824/844 X-TIER 4WDL



Key Feature Identification

A: Automatic Differential Lock Switch

B: Coast Control Switch

C: Spin Control Switch

D: Ride Control Switch

E: Performance Mode Switch



A: AUTOMATIC DIFFERENTIAL LOCK (OPTIONAL):

* Differential lock is activated any time the differential lock switch is pressed, regardless of whether automatic differential lock system is enabled or not.

FUNCTION STATE BY NUMBER OF LIGHTS

- No LED Lights – AUTO Differential Lock Disabled
- 1 LED Light – AUTO Differential Lock Enabled (The automatic differential lock system locks the axles so that the left and right wheels turn together when wheel slip is detected, and machine speed is below 7.5 mph)

RECOMMENDATION

Auto Differential Lock should be enabled on most surfaces, allowing maximum traction and productivity. On hard packed surfaces, or dry asphalt/concrete, this feature should be disabled to prevent the differential from locking during sharp turns, which could potentially accelerate powertrain and tire wear.

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B: COAST CONTROL (STANDARD):

*** Enables dynamic braking to slow the machine and reduce fuel consumption.**

FUNCTION STATE BY NUMBER OF LIGHTS

- i. LED Lights Off – Lowest Deceleration Setting (Traditional Powertrain Feel)
- ii. 1 LED Light – Moderately Low Deceleration (Slight Hydrostat Feel)
- iii. 2 LED Lights – Moderately High Deceleration (Moderate Hydrostat Feel)
- iv. 3 LED Lights – Highest Deceleration (Full Hydrostat Feel)

RECOMMENDATION

Coast Control changes the way the machine slows down when the accelerator pedal is released. On jobsites with large elevation changes, such as significant ramp climb/descent, three lights may be used, mimicking a hydrostat feel. This will cause the machine to use its electric drive to help slow the machine, extending service brake life while improving fuel efficiency. Each sequential LED light reduction on the SSM button will adjust the machine braking away from a hydrostat feel to a traditional torque converter feel. All LED Lights off will eliminate dynamic braking. Coast Control setting is recommended to be set in the highest setting for job site limitations and operator comfort.

C: SPIN CONTROL (STANDARD):

*** Spin control operates in first gear forward to reduce rim pull by reducing power to the ground when loading the bucket.**

FUNCTION STATE BY NUMBER OF LIGHTS

- i. 1 LED Light – Minimum Decrease
- ii. 2 LED Lights – Moderate Decrease
- iii. 3 LED Lights – Elevated Decrease
- iv. 4 LED Lights – Maximum Decrease

RECOMMENDATION

Spin Control should be used when the floor conditions allow the tires to spin under heavy load in first gear. When floor conditions allow maximum traction and tire spinning is not observed, the number of lights may be reduced, down to zero lights. As floor conditions change and the tires begin to slip while loading, additional lights should be illuminated one at a time until no further tire spin is observed. Proper use of this button can enhance tire life, increase productivity, and reduce fuel burn.

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D: RIDE CONTROL (STANDARD)

FUNCTION STATE BY NUMBER OF LIGHTS

- i. No LED Lights – Ride Control OFF
- ii. 1 LED Light – Ride Control ON (All the time)
- iii. 2 LED Lights – AUTO (active when ground speed is greater than the set point; Default set point is approximately 3.5 mph)

RECOMMENDATION

Applications that utilize a bucket on the front of the loader will benefit from the AUTO setting (2 LED Lights), as this feature was designed to optimize the point that ride control turns on and off. By having AUTO mode enabled, the operator can expect to get max bucket fill in the pile and minimum material spill during the carry. While this feature improves fuel economy of the loader, it can also improve the life of the ride control components. If the machine is outfitted with forks, an operator may experience a more consistent operation by turning ride control ON (1 LED Light), especially in very low speed, poor underfoot applications.

E: PERFORMANCE MODE

FUNCTION STATE BY NUMBER OF LIGHTS

- i. No LED Lights – Standard Mode (Engine RPM is limited to 1500)
- ii. 1 LED Light – Performance Mode (Allows Engine RPM “+100 RPM” over Standard Mode)

RECOMMENDATION

It is recommended to have Standard Mode enabled in nearly all applications. This setting is best for fuel consumption, noise reduction, and component longevity. There are slight productivity gains when enabling Performance Mode, however this comes at the expense of fuel consumption and increased engine noise. Performance Mode may also be best used when using the loader to crane an object.