WSM

WORKSHOP MANUAL
TRACTOR

L3301,L3901,L4701

Kubota

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MECHANISM

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Symptom	Probable Cause	Solution	Reference Page
Vibration	Main shaft bent	Replace	3-S39, 3-S48, 3-S74, 3-S86
	Clutch disc rivet worn or broken	Replace	2-S21, 2-S22
	Clutch parts broken	Replace	–

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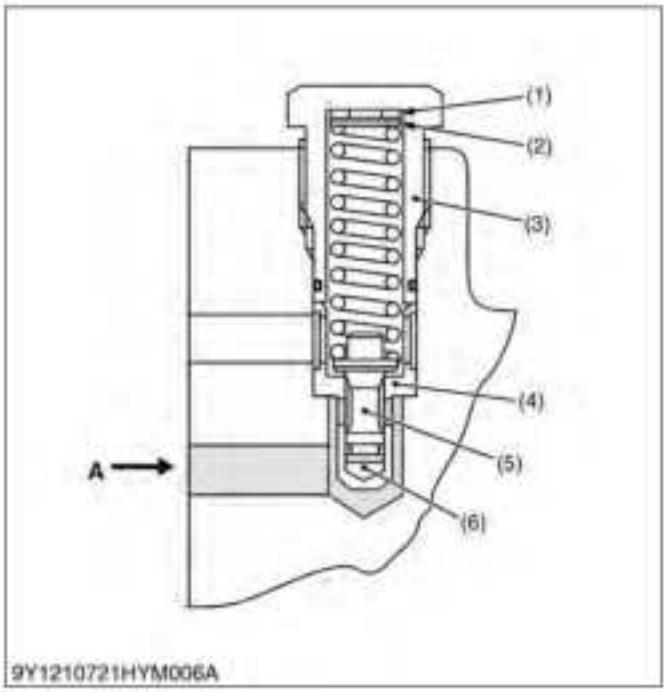
2. SERVICING SPECIFICATIONS

Item		Factory Specification	Allowable Limit
Brake Pedal	Free Travel	15 to 20 mm 0.6 to 0.8 in.	–
Cam Plate	Flatness	–	0.3 mm 0.01 in.
Cam Plate and Ball	Height	20.9 to 21.1 mm 0.823 to 0.830 in.	20.5 mm 0.807 in.
Brake Disc	Thickness	4.60 to 4.80 mm 0.182 to 0.188 in.	4.2 mm 0.17 in.
Plate	Thickness	2.54 to 2.66 mm 0.100 to 0.104 in.	2.1 mm 0.083 in.

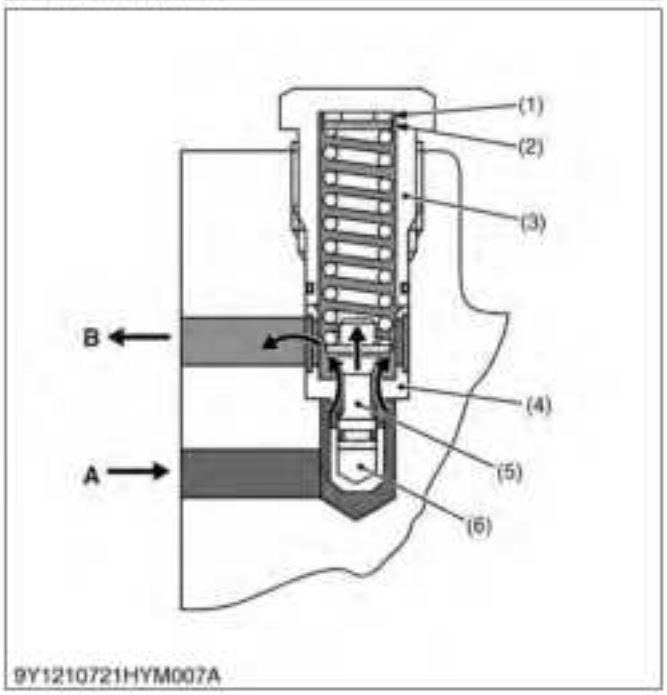
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[3] RELIEF VALVE



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The 3-point hydraulic circuit has a relief valve to restrict the maximum pressure in its circuit.

This is a guide piston relief valve with damper, a direct acting relief valve suitable for relatively high pressure and capacity, and constructed so as to prevent chattering and other unstableness associated with direct acting relief valves. As shown in the figure, the poppet (5) has a guide, and there is a valve chamber called a damping chamber (6) in the base of this guide piston.

The valve inlet is connected to this chamber through the clearance between the guide surface and the seat so that the chamber provides a damping effect, controlling valve vibration.

When the pressure in the circuit rises, the pressure in the damping chamber also rises, and when it exceeds the relief pressure setting the spring is compressed, making a clearance between the poppet and the seat.

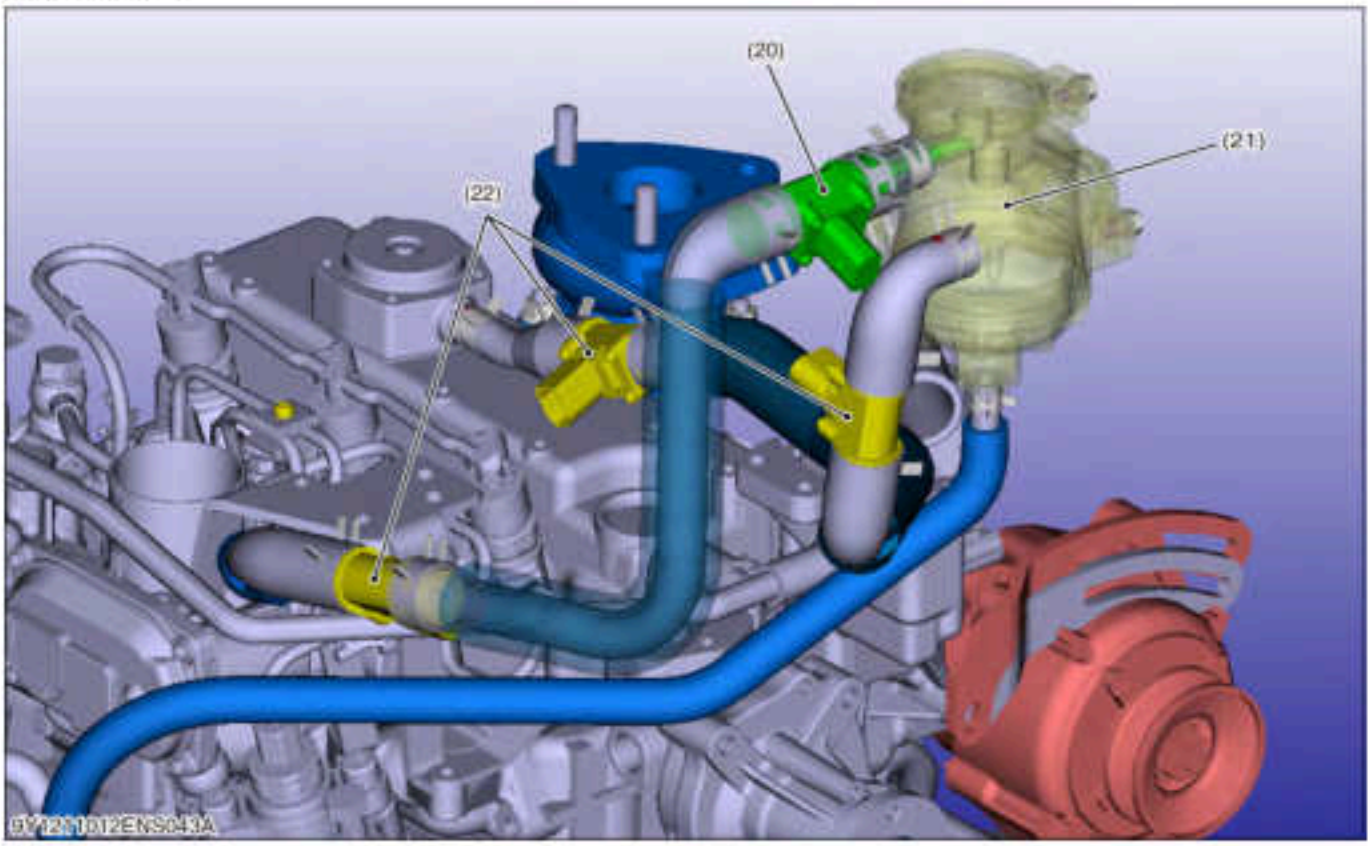
The hydraulic oil can escape to the transmission case through this clearance, controlling the pressure rise.

(1) Washer
(2) Shim
(3) Plug
(4) Seat
(5) Poppet
(6) Damping Chamber
A: From Pump
B: To Transmission Case

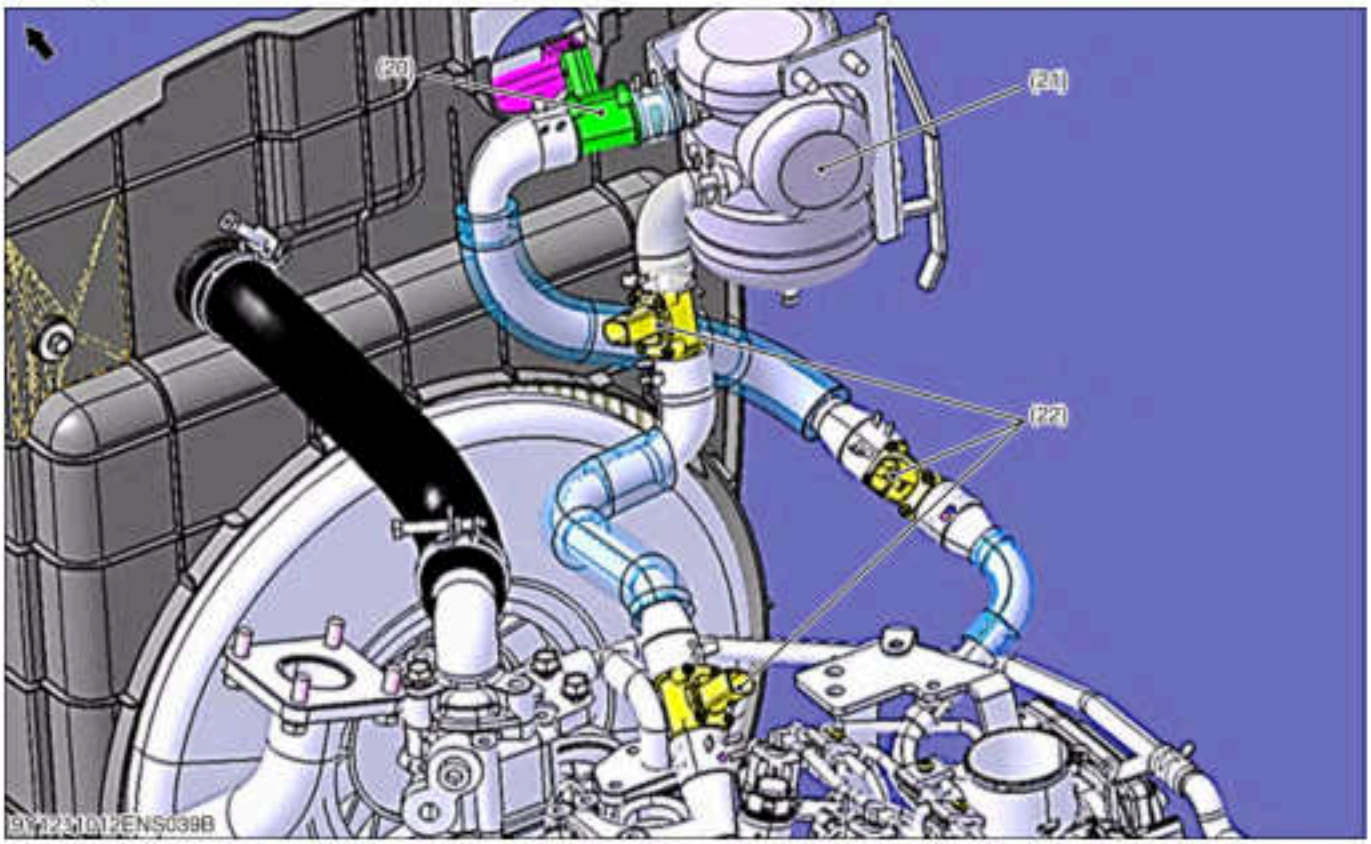
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(Continued)
[L3301, L3901]



[L4701]



(20) CCV Heater 1 (21) Separator (CCV) (22) CCV Heater 2

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PTO Switch (L4701 Only)

PTO switch (1) is attached to choose PTO on/off. By using signal from this switch, main ECU decide to send oil to PTO clutch or not. This switch also has a function as a safety switch. If this switch is in **ON** position, starter motor does not rotate.

(1) PTO Switch

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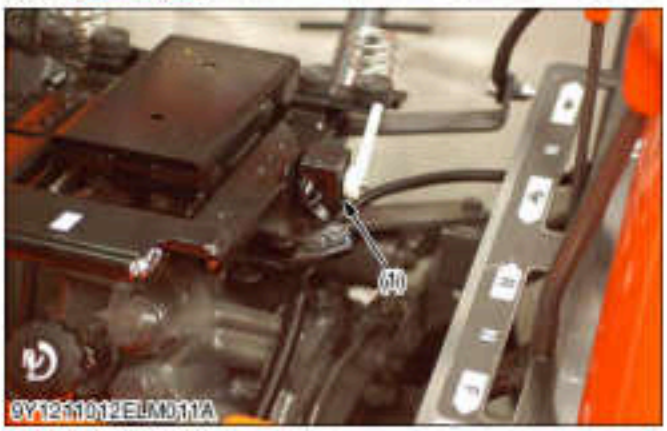


Shuttle Switch (Manual Transmission Model Only)

Shuttle switch (1) is attached at the bottom of shuttle lever. This switch is turned on when the shuttle lever is in **"NEUTRAL"** position. This switch also has a function as a safety switch. If this switch is in **OFF** position, starter motor does not rotate.

(1) Shuttle Switch

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Seat Switch

This switch is attached under the seat. When sitting the seat, the seat switch (1) is pushed in, and electrical circuit is closed. When the seat is vacant, this switch is not pushed and electrical circuit is opened. This switch is adopted to achieve OPC (operator presence control) function.

(1) Seat Switch

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HST Pedal Switch

The HST pedal switch (1) is attached to detect whether the HST pedal is in neutral position. When the HST pedal is in **"NEUTRAL"** position, this switch is **ON** position.

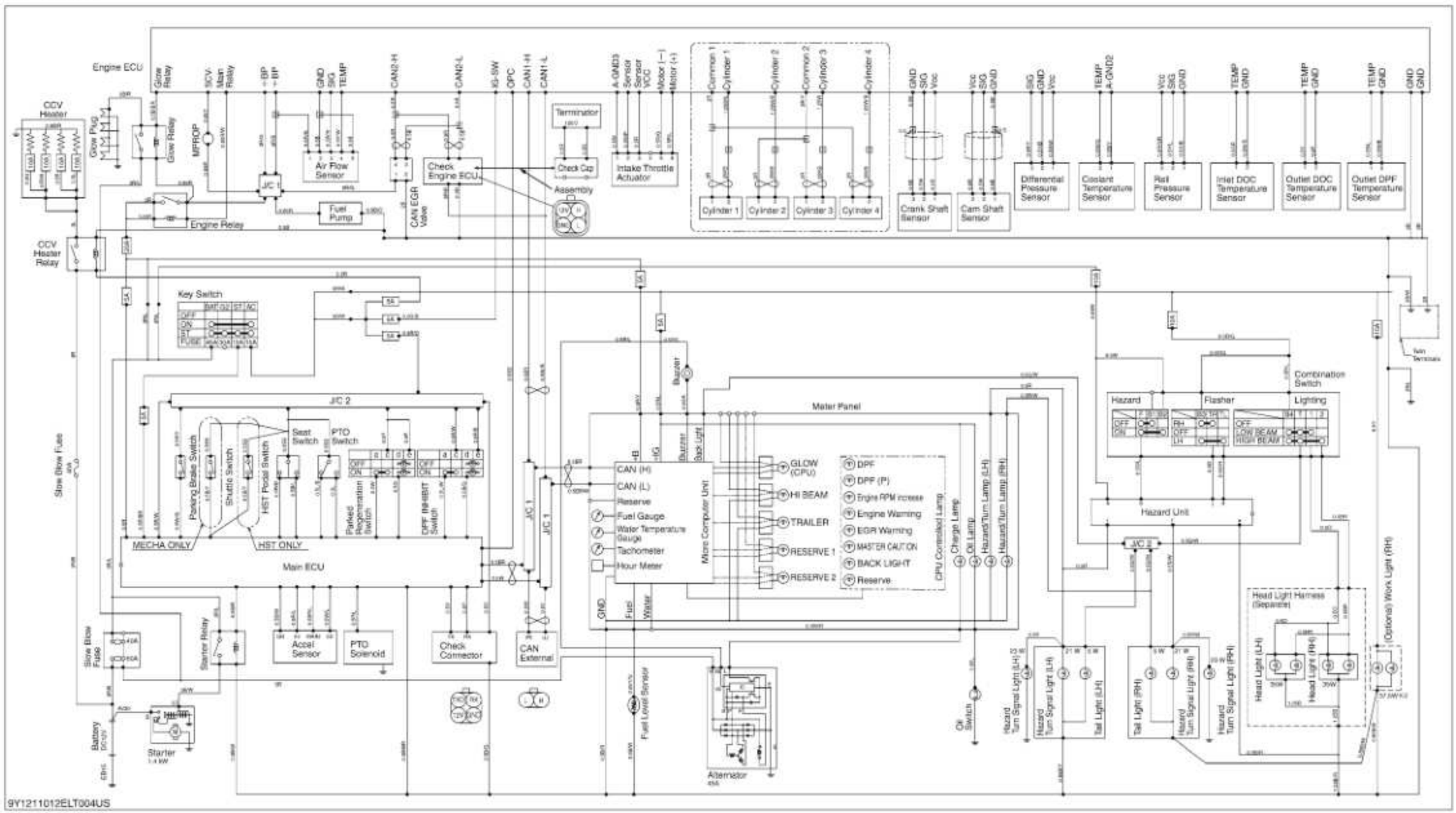
This switch also has a function as a safety switch. If this switch is **OFF** position, starter motor does not rotate.

(1) HST Pedal Switch

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[2] L4701



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