

4. CHECKING AND ADJUSTING

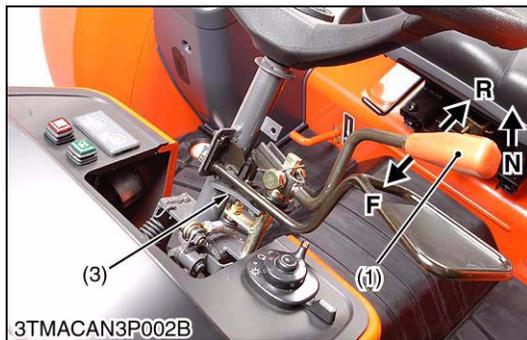
[1] SHUTTLE LEVER

(1) Hydraulic Shuttle Model



CAUTION

- Park the machine on a firm, flat and level surface, set the parking brake and place the gear shift in neutral.
- Stop the engine and remove the key before checking and adjusting.



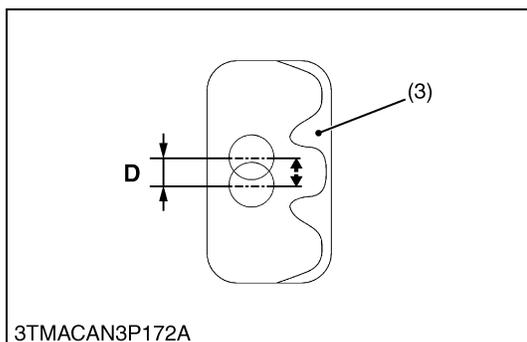
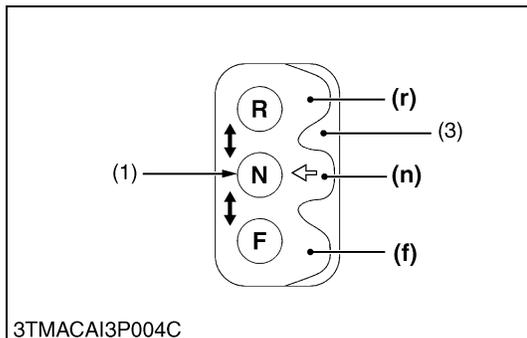
Adjusting Shuttle Valve Neutral Position and Lever Guide Neutral Position

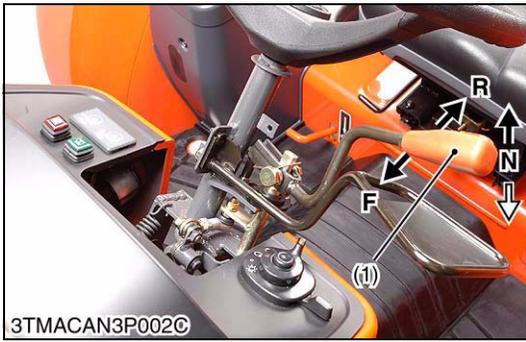
1. Remove the steering post cover (2).
2. The shuttle valve spool is provided with **F**, **N** and **R** ball detents. (Lift the shuttle lever (1) and slowly move it to the **F** and **R** directions until you feel the lever clicking at the ball detents.)
3. The shuttle lever guide (3) also has the **f**, **n** and **r** grooves for the shuttle lever.
4. In this adjustment procedure, make alignment between the shuttle valve neutral detent position and shuttle lever guide groove **N**.
5. Place the shuttle lever to the neutral position.
6. Lift the shuttle lever (1) then move it reverse and forward, and confirm the free play "**D**" of the shuttle lever (1) at neutral position.

- | | |
|-------------------------|--------------|
| (1) Shuttle Lever | (f) Groove F |
| (2) Steering Post Cover | (n) Groove N |
| (3) Shuttle Lever Guide | (r) Groove R |

F : Forward
R : Reverse
N : Neutral
D : Free Play

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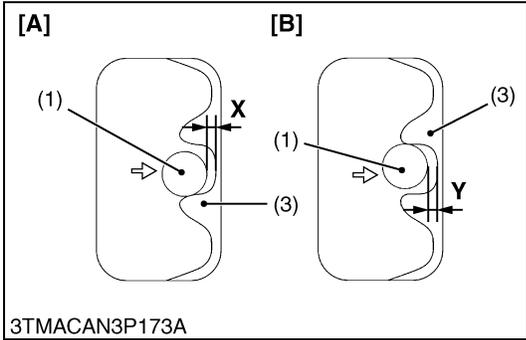


Adjusting Shuttle Valve Neutral Position and Lever Guide Neutral Position (Continued)

7. Shift the free play "D" toward the forward direction and slowly lower the shuttle lever as shown in the figure. And visually inspect the clearance "X".
8. Shift the free play "D" toward the rear direction and slowly lower the shuttle lever (1) as shown in the figure. And visually inspect the clearance "Y".
9. Make sure the two clearance "X" and "Y" are just the same, with shuttle cable retaining nut (5).

NOTE

- The figure [C] is an example when the length of the shuttle cable (4) is misadjusted.



- (1) Shuttle Lever
- (2) Steering Post Cover
- (3) Shuttle Lever Guide
- (4) Shuttle Cable
- (5) Retaining Nut

[A] When the shuttle lever shift to forward.

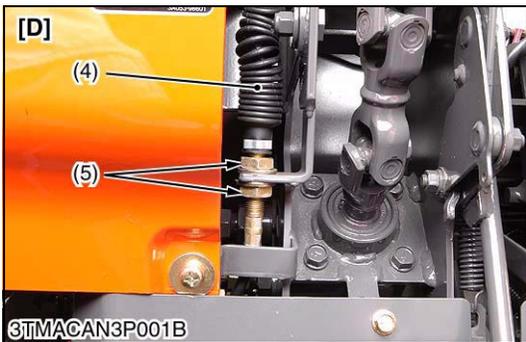
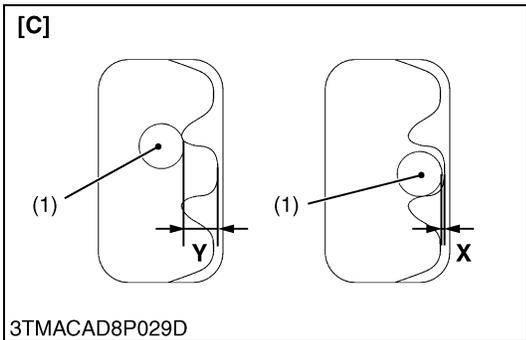
[B] When the shuttle lever shift to reverse.

[C] The cable is misadjusted

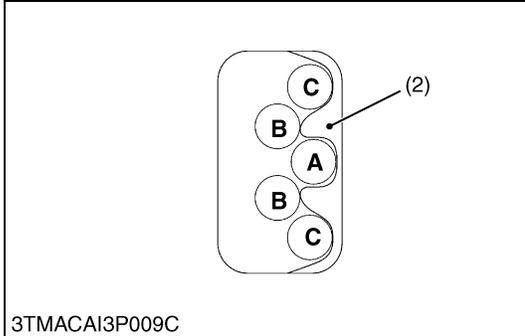
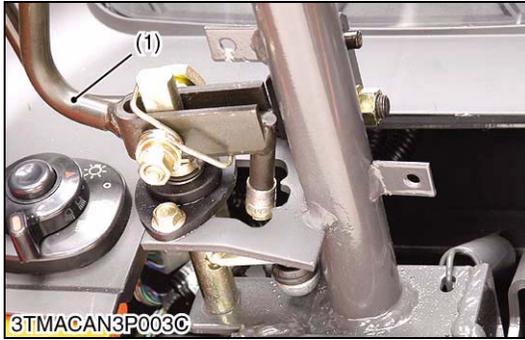
[D] ROPS Model

[E] CABIN Model

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(2) Engine Start Condition



Engine Start Condition

■ IMPORTANT

- Before starting the engine, make sure the gear shift lever at the neutral position.
- Place the PTO lever to the OFF position.
- Apply the parking brake.

1. Check the engine start condition as follows :

■ NOTE

- Do not touch the shuttle lever (1) when the shuttle lever (1) is at specified position as shown in figure.

(Reference)

- Position **A** : Engine start
 - Position **B** : Engine does not start
 - Position **C** : Engine does not start
2. If the engine started at position **B** and/or **C**, adjust the shuttle cable with retaining nut (refer with this section).

(1) Shuttle Lever

(2) Shuttle Lever Guide

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