

# PARTS & SERVICE NEWS

REF NO.	AA04185
DATE	January 3, 2005

**SUBJECT:** AUTOMATIC TRANSMISSION CONTROLLER (ATC)

**PURPOSE:** To announce a special feature of the automatic transmission controller.

**APPLICATION:** Komatsu Mechanical Drive Dump Trucks:  
530M: A30001-A30038, 32628;  
HD1500-5: A30039 & Up;

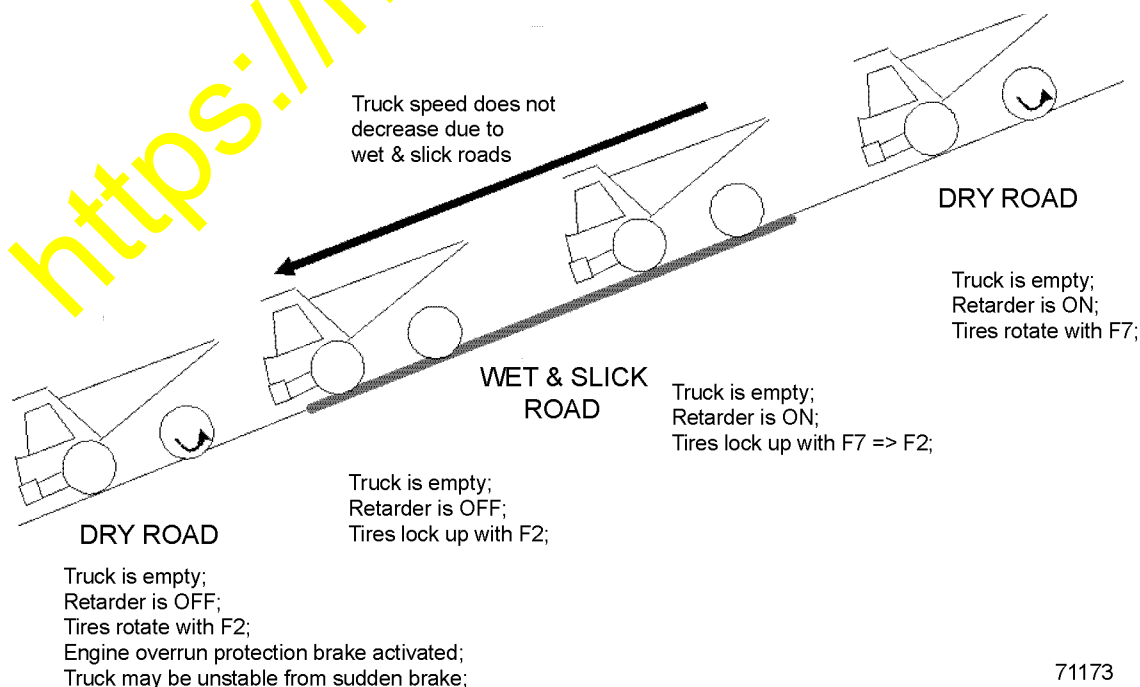
**FAILURE CODE:** 1590Z9

**DESCRIPTION:** Set downshift inhibit time during rear tire lock for ATC (7818-95-9000)

Some trucks may experience engine overrun while traveling down a slippery haul road. Engine overrun is caused by a rapid downshift to the lowest transmission gear range (F1 or F1) during rear tire lock-up. This would most likely occur when an empty truck is traveling down a recently watered haul road. Refer to Figure 1 below.

When the rear tires recover traction, the ATC will attempt to shift up to the appropriate gear. If shift up speed is not quick enough when compared to actual rear tire rotating speed, then the engine speed will increase and may initiate overrun protection. This activity results in the activation of the engine overrun protection brake. The truck may then become unstable.

In order to stabilize the truck in this situation, the ATC downshift inhibit time has been set to prevent the transmission from downshifting to a lower gear. While downshifting, the transmission will hold the previous gear. The exact time of the downshifting will vary depending on the deceleration speed of the rear tires. To add this feature replace the standard ATC control with ATC control 7818-95-9000.



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*Note: Operators may find it difficult to downshift due to the special logic of the ATC. In such cases, the standard transmission controller is recommended.*

Refer to the rotary switch settings found in Parts & Service News AA04184.

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