TOYOTA SERVICE BULLETIN

Group: 09 No.: 07 Date: Jan, 15

LandCruiser 200

Corrections to Repair Manual RM19U1E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Section	Title	Paragraph
SUSPENSION CONTROL	ACTIVE HEIGHT CONTROL SUSPENSION	DIAGNOSTIC TROUBLE CODE CHART (2011/09-2012/01)
		C1718 (2011/09-2012/01)
		C1718 (2012/01-)
		C1763 (2011/09-2012/01)
		C1763 (2012/01-)

The revised pages listed above are attached.
(The corrected parts are indicated by arrows.)

This Bulletin does not cause the Flat Rate Manual to be changed.

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SUSPENSION CONTROL – ACTIVE HEIGHT CONTROL SUSPENSION

DTC Code	Detection Item	Trouble Area	See page
C1755	Rear Gate Solenoid Valve Malfunction	- Harness or connector - No. 1 height control valve - Suspension control ECU - Each front suspension control valve (Each front spring rate switching valve)	SC-121
C1756	Suspension Control Relay Malfunction	- Harness or connector - Suspension control relay - Suspension control ECU	SC-137
C1763	[Added] Abnormal Pump Motor Oil Pressure	- Fluid level low - Harness or connector - Suspension control relay - Height control pump and motor - Suspension control ECU	SC-141
C1764	Abnormal Leveling Valve Oil Pressure	- No. 1 height control valve (Each solenoid valve is stuck) - Clog in the fluid line - Suspension control ECU	SC-151
C1765	Abnormal Accumulator Valve Oil Pressure	- No. 1 height control valve (Each solenoid valve is stuck) - Clog in the fluid line - Suspension control ECU	SC-151
C1766	Height Control Pump Motor Current	- Fluid leakage - No. 1 height control valve - Suspension control relay - Height control pump and motor - Clog in the fluid line - Suspension control ECU	SC-155
C1781	Suspension Control ECU Malfunction	Suspension control ECU	SC-161
C1782	Power Source Voltage Malfunction	- Battery - Charging system - Harness or connector - AHC-B fuse - AHC-B No. 2 fuse - Suspension control ECU	SC-163
C1783	Speed Signal Communication Error	- Vehicle stability control system - Suspension control ECU	SC-171
C1784	Steering Angle Sensor Communication Error	- Vehicle stability control system - Suspension control ECU	SC-175
C1785	Steering Control ECU Communication Error	- Variable gear ratio steering system (VGRS system) - Suspension control ECU	SC-179
C1787	Forward/Rearward/Sideways G Sensor Communication Error	- Vehicle stability control system - Suspension control ECU	SC-183
C1791	Absorber Control Switch Circuit (Test Mode DTC)	- Harness or connector - Suspension control switch (Damping force control switch) - Suspension control ECU	SC-187
C1792	Height Control Switch Circuit (Test Mode DTC)	- Harness or connector - Suspension control switch (Height control switch) - Suspension control ECU	SC-193
C1794	Height Control OFF Switch Circuit (Test Mode DTC)	- Harness or connector - Suspension control switch (Height control OFF switch) - Suspension control ECU	SC-199
C1796	Front Acceleration Sensor RH Malfunction (Test Mode DTC)	- Harness or connector - Front acceleration sensor RH - Suspension control ECU	SC-71
C1797	Front Acceleration Sensor LH Malfunction (Test Mode DTC)	- Harness or connector - Front acceleration sensor LH - Suspension control ECU	SC-71

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DTC	C1718	**Pressure Sensor Circuit Malfunction** (2011/09-2012/01)

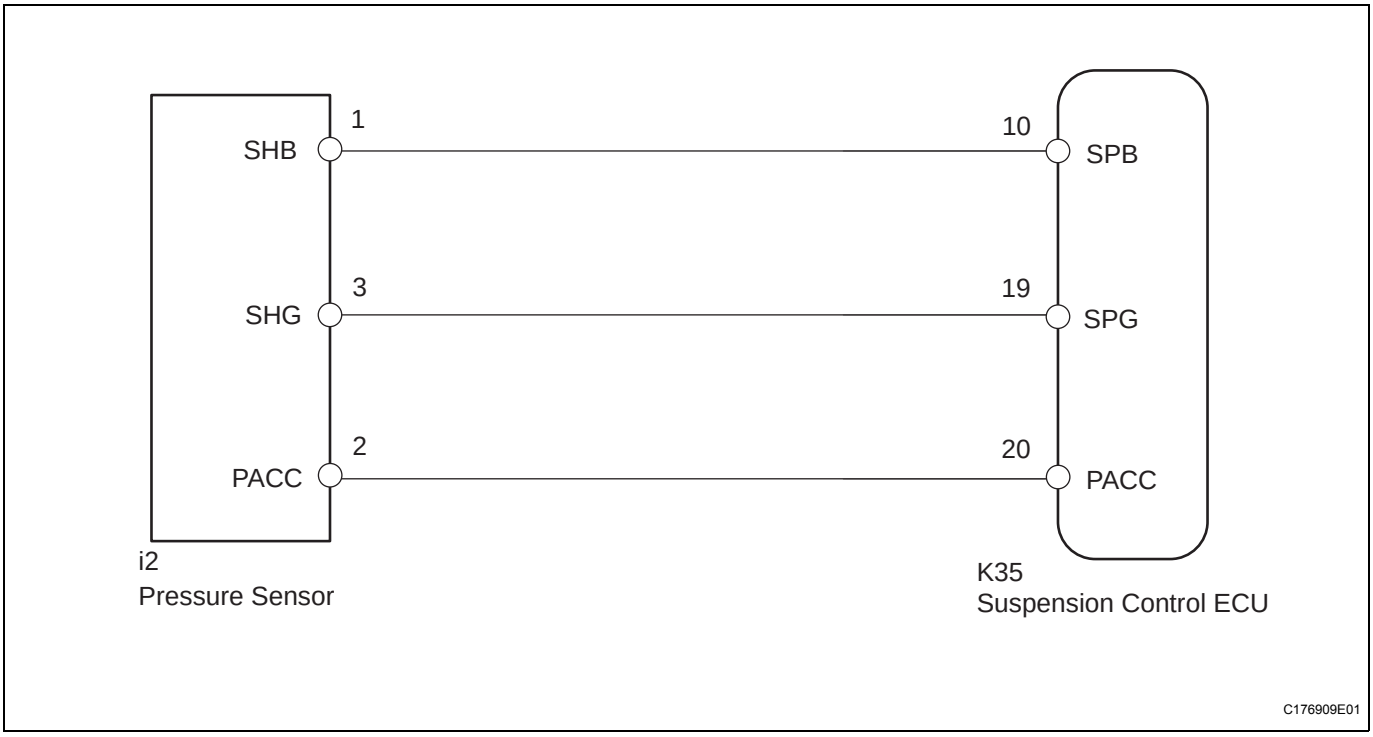
DESCRIPTION

This circuit is used for sending the data to detect the pressure output from the pump. The abnormality of the fluid pressure is judged by the ECU.

DTC Code	Detecting Condition	Trouble Area
C1718	When one of the following conditions is met: • When detecting an abnormal signal from the pressure sensor (pressure sensor terminal voltage of ECU is 0.3 V or less or 4.6 V or more) for 1 second. • When there is a pressure sensor power supply voltage malfunction. • When the pump motor is not operating and a pressure of 1 MPa (10.2 kgf/cm^2, 145 psi) or more is placed on the pressure sensor for 20 seconds or more.	• Harness or connector • Height control pump and motor (Pressure sensor) • Suspension control ECU

[Corrected]

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- **Before performing troubleshooting, inspect the connectors of related circuits.**
- **If the suspension control ECU or height control sensor is replaced, the vehicle height offset calibration must be performed (See page SC-25).**

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DTC	C1718	**Pressure Sensor Circuit Malfunction** (2012/01-)

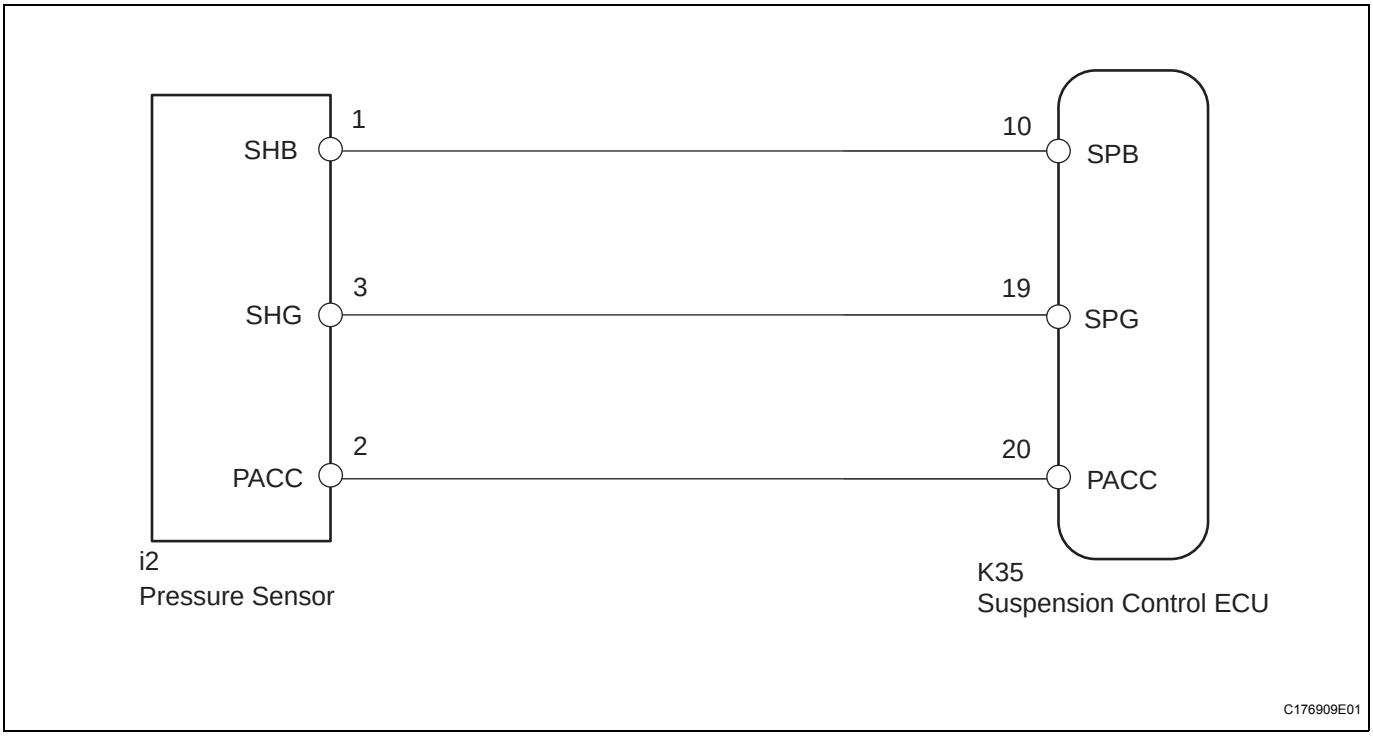
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This circuit is used for sending the data to detect the pressure output from the pump. The abnormality of the fluid pressure is judged by the ECU.

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[Corrected]

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- **Before performing troubleshooting, inspect the connectors of related circuits.**
- **If the suspension control ECU or height control sensor is replaced, the vehicle height offset calibration must be performed (See page SC-28).**

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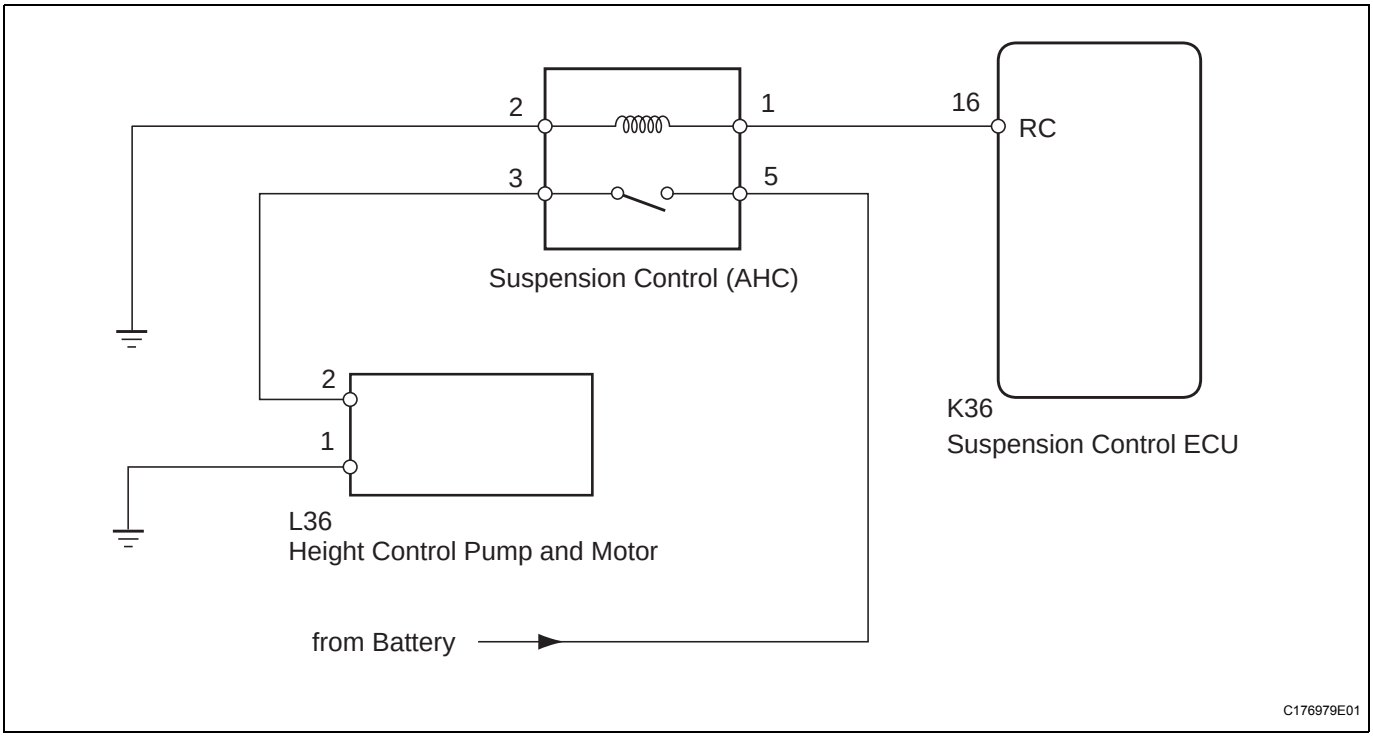
DTC	C1763	Abnormal Pump Motor Oil Pressure (2011/09-2012/01)

DESCRIPTION

DTC Code	Detection Condition	Trouble Area
C1763	When either of the following conditions is met: • While the motor relay is in operation, the condition that the fluid pressure is 0.6 MPa (6.1 kgf/cm^2, 87 psi) or less continues for 0.6 seconds. • When the vehicle is climbing a slope, no changes are detected in the fluid pressure for 8 seconds 3 times consecutively.	• Fluid level low [Added] • Harness or connector • Suspension control relay • Height control pump and motor • Suspension control ECU

[Corrected]

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- **Before performing troubleshooting, inspect the connectors of related circuits.**
- **If the suspension control ECU or height control sensor is replaced, the vehicle height offset calibration must be performed (See page SC-25).**

1	CHECK FOR DTC

(a) Check for DTCs (See page).

Result

See SUSPENSION CONTROL - ACTIVE HEIGHT CONTROL SUSPENSION - DTC CHECK / CLEAR (2011/09-2012/01)

Result	Proceed to
C1763 only is output	A
C1718 is output simultaneously	B

[Added]

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B → **GO TO DTC CHART (C1718) (See page** See*1 **)**

A

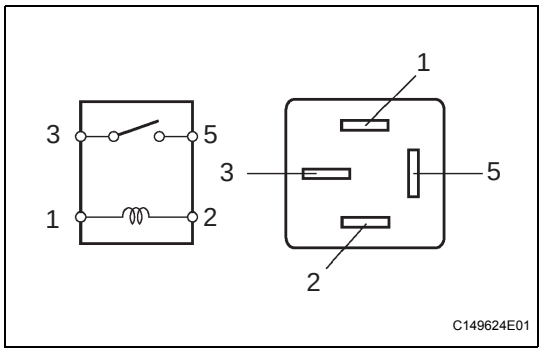
2 INSPECT FOR FLUID LEAK

(a) Inspect for fluid leaks (See page See*2).
OK:
No fluid leakage.

NG → **REPAIR FLUID LEAK OR REPLACE LEAKING PART(S)**

OK

3 INSPECT SUSPENSION CONTROL RELAY (AHC)



(a) Remove the suspension control relay from the engine room relay block.
(b) Measure the resistance according to the value(s) in the table below.
Standard Resistance

Tester Connection	Condition	Specified Condition
3 - 5	Battery voltage is not applied to terminal 1 and 2	10 kΩ or higher
	Battery voltage is applied to terminal 1 and 2	Below 1 Ω

NG → **REPLACE SUSPENSION CONTROL RELAY**

OK

See*1: SUSPENSION CONTROL - ACTIVE HEIGHT CONTROL SUSPENSION - DIAGNOSTIC TROUBLE CODE CHART (2011/09-2012/01)
See*2: SUSPENSION CONTROL - SUSPENSION CONTROL SYSTEM - ON-VEHICLE INSPECTION (2011/09-)

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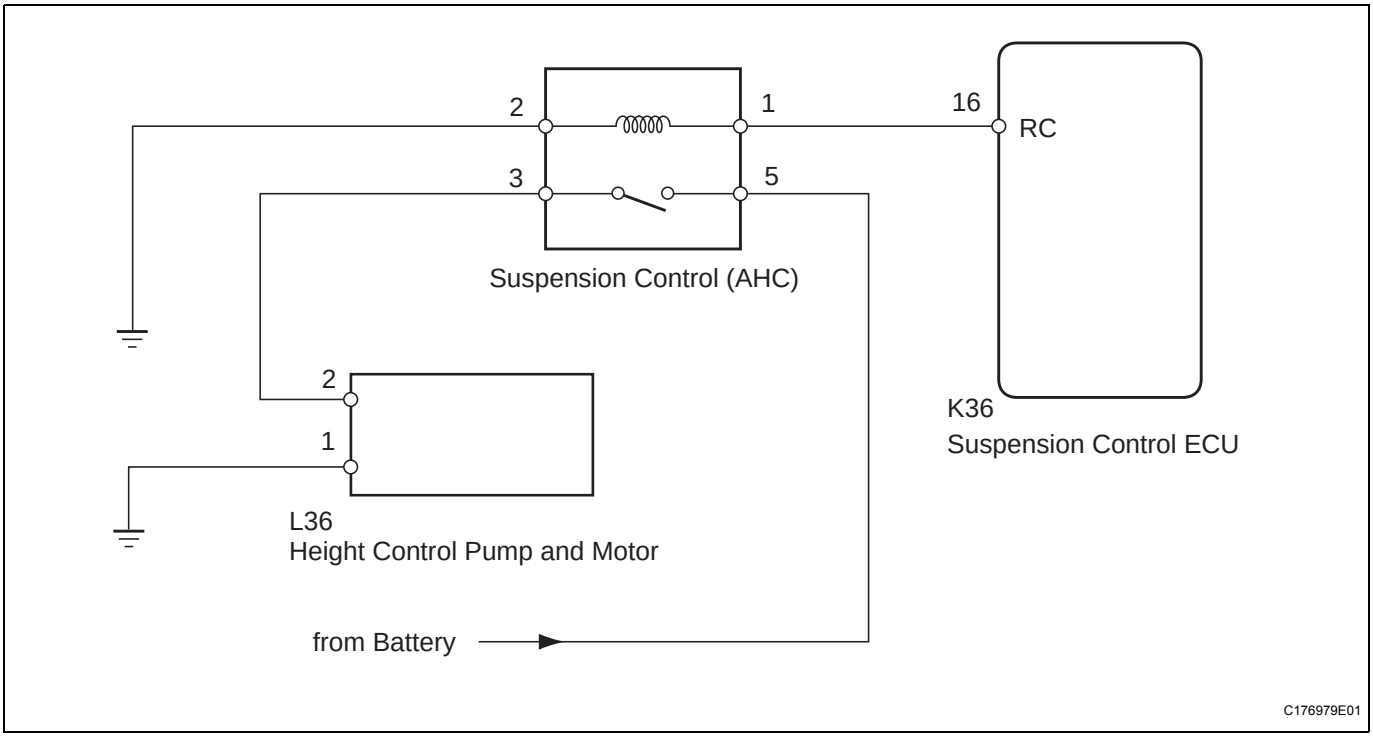
DTC	C1763	Abnormal Pump Motor Oil Pressure (2012/01-)

DESCRIPTION

DTC Code	Detection Condition	Trouble Area
C1763	When either of the following conditions is met: • While the motor relay is in operation, the condition that the fluid pressure is 0.6 MPa (6.1 kgf/cm^2, 87 psi) or less continues for 0.6 seconds. • When the vehicle is climbing a slope, no changes are detected in the fluid pressure for 8 seconds 3 times consecutively.	• Fluid level low [Added] • Harness or connector • Suspension control relay • Height control pump and motor • Suspension control ECU

[Corrected]

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- **Before performing troubleshooting, inspect the connectors of related circuits.**
- **If the suspension control ECU or height control sensor is replaced, the vehicle height offset calibration must be performed (See page SC-28).**

1	CHECK FOR DTC

(a) Check for DTCs (See page).

Result

See SUSPENSION CONTROL - ACTIVE HEIGHT CONTROL SUSPENSION - DTC CHECK / CLEAR (2012/01-)

Result	Proceed to
C1763 only is output	A
C1718 is output simultaneously	B

[Added]

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[Added]

B → GO TO DTC CHART (C1718) (See page See*1)

A

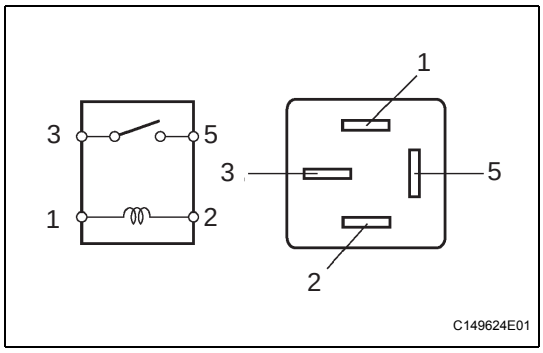
2 INSPECT FOR FLUID LEAK

(a) Inspect for fluid leaks (See page See*2).
OK:
No fluid leakage.

NG → **REPAIR FLUID LEAK OR REPLACE LEAKING PART(S)**

OK

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(a) Remove the suspension control relay from the engine room relay block.
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3 - 5	Battery voltage is not applied to terminal 1 and 2	10 kΩ or higher
	Battery voltage is applied to terminal 1 and 2	Below 1 Ω

NG → **REPLACE SUSPENSION CONTROL RELAY**

OK

See*1: SUSPENSION CONTROL - ACTIVE HEIGHT CONTROL SUSPENSION - DIAGNOSTIC TROUBLE CODE CHART (2012/01-)
See*2: SUSPENSION CONTROL - SUSPENSION CONTROL SYSTEM - ON-VEHICLE INSPECTION (2011/09-)

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