DTC	86 (5)	INJECTOR CIRCUIT MALFUNCTION (SHORT 5)

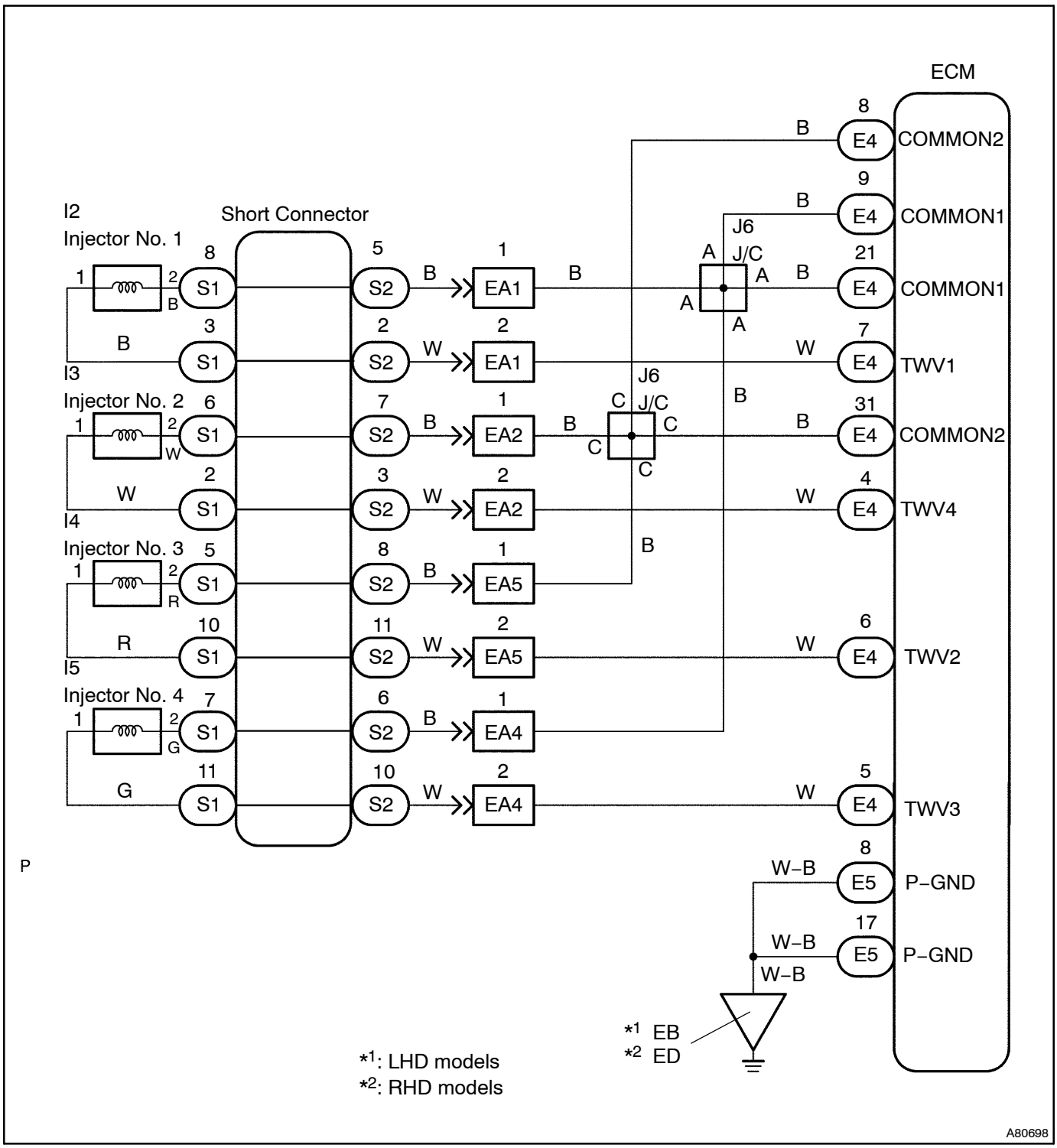
DTC	86 (6)	INJECTOR CIRCUIT MALFUNCTION (SHORT 6)

CIRCUIT DESCRIPTION

Refer to DTC 86 (1) on page 05–172.

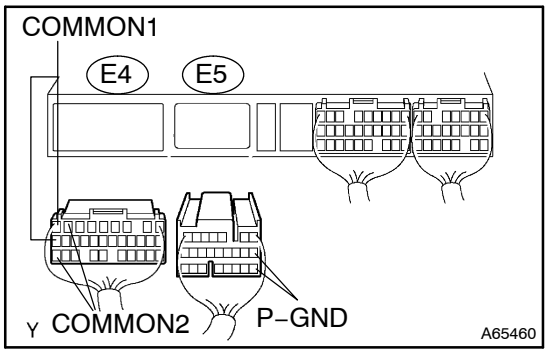
DTC No.	DTC Detection Condition	Trouble Area
86 (5)	Injector +B or GND harness short	• Open or short in injector circuit • Injector No. 1 • Injector No. 2 • ECM
86 (6)	Injector +B or GND harness short	

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK VOLTAGE AND CONTINUITY IN WIRE HARNESS



(a) Disconnect the E4 and E5 ECM connectors.
(b) Turn the ignition switch ON.
(c) Measure the voltage and continuity between the terminals of the ECM connector.

Standard (Check continuity):

Symbols (Terminal No.)	Specified Condition
COMMON1 (E4–9) ⇔ P–GND (E5–8, E5–17)	No continuity
COMMON1 (E4–21) ⇔ P–GND (E5–8, E5–17)	
COMMON2 (E4–8) ⇔ P–GND (E5–8, E5–17)	
COMMON2 (E4–31) ⇔ P–GND (E5–8, E5–17)	

Standard (Check voltage):

Symbols (Terminal No.)	Specified Condition
COMMON1 (E4–9) ⇔ P–GND (E5–8, E5–17)	2 V or less
COMMON1 (E4–21) ⇔ P–GND (E5–8, E5–17)	
COMMON2 (E4–8) ⇔ P–GND (E5–8, E5–17)	
COMMON2 (E4–31) ⇔ P–GND (E5–8, E5–17)	

NG → **Go to step 3**

OK

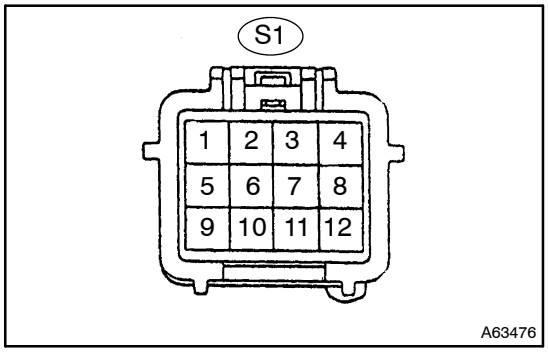
2 CHECK DTC (CHECK SAME DTC IS OUTPUT AGAIN?)

(a) Turn the ignition switch to LOCK and reconnect the ECM connector.
(b) Start the engine and clear the DTC.
(c) Is the same DTC output again?

YES → **REPLACE ECM**

NO

3 CHECK CONTINUITY IN WIRE HARNESS



(a) Turn the ignition switch to LOCK.
(b) Disconnect the short connector.
(c) Check the voltage or continuity of the terminals of the ECM connector.

Standard (Check continuity):

Symbols (Terminal No.)	Specified Condition
– (S1–2) ⇔ P–GND (E5–8, E5–17)	No continuity
– (S1–3) ⇔ P–GND (E5–8, E5–17)	
– (S1–5) ⇔ P–GND (E5–8, E5–17)	
– (S1–6) ⇔ P–GND (E5–8, E5–17)	
– (S1–7) ⇔ P–GND (E5–8, E5–17)	
– (S1–8) ⇔ P–GND (E5–8, E5–17)	
– (S1–10) ⇔ P–GND (E5–8, E5–17)	
– (S1–11) ⇔ P–GND (E5–8, E5–17)	

Standard (Check voltage):

Terminal No.	Specified Condition
S1–5 ⇔ S1–2, 10	2 V or less
S1–6 ⇔ S1–2, 10	
S1–7 ⇔ S1–3, 11	
S1–8 ⇔ S1–3, 11	

NG → **REPAIR OR REPLACE WIRE HARNESS AND CONNECTOR**

OK

INSPECT HARNESS INSIDE HEAD COVER