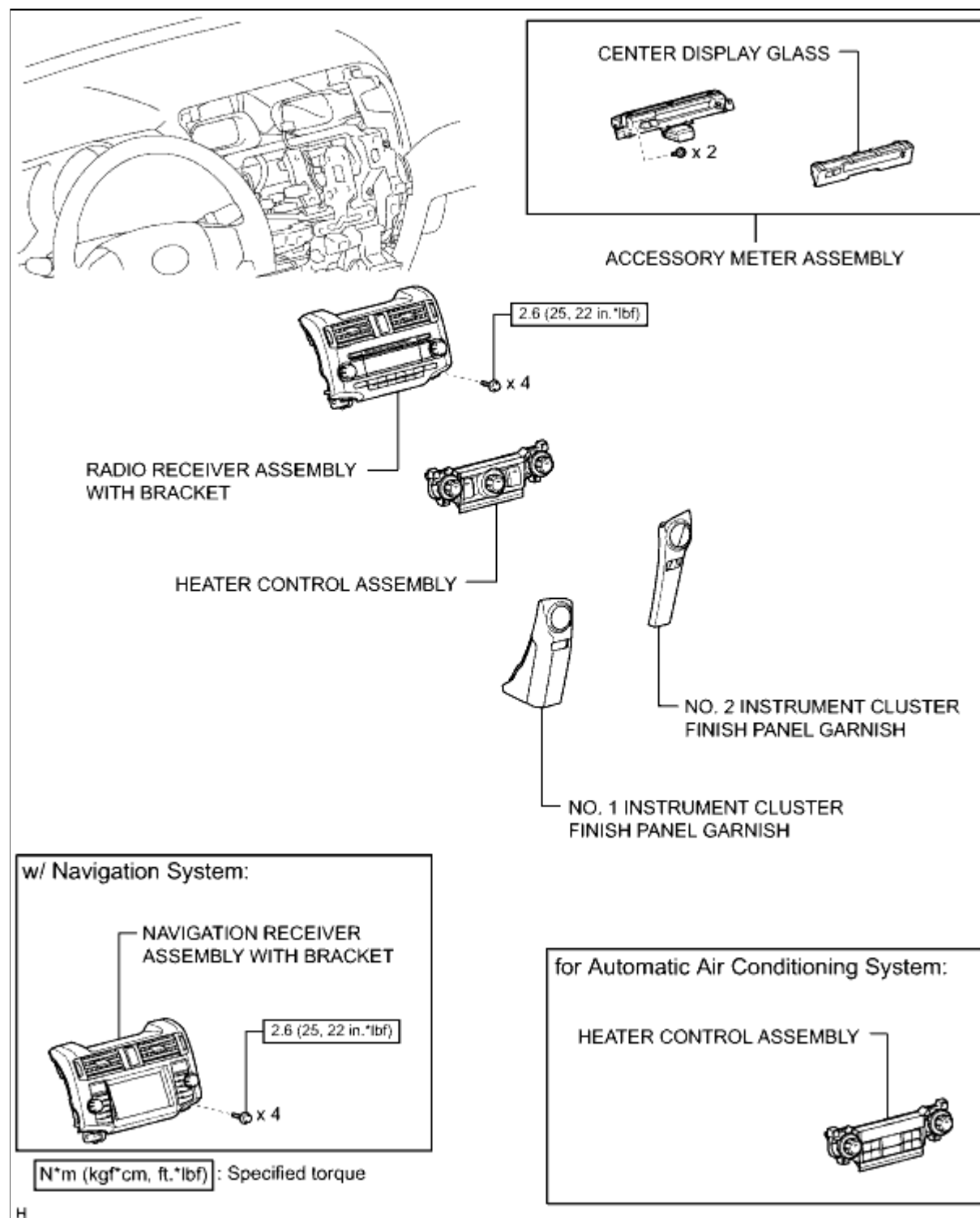


Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000045SB000X
Title: METER / GAUGE / DISPLAY: ACCESSORY METER: COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION





Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003B6H00IX
Title: METER / GAUGE / DISPLAY: ACCESSORY METER: REMOVAL (2010 4Runner)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected .

2. REMOVE NO. 1 INSTRUMENT CLUSTER FINISH PANEL GARNISH

3. REMOVE NO. 2 INSTRUMENT CLUSTER FINISH PANEL GARNISH

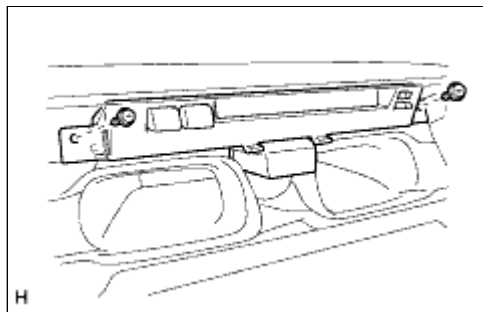
4. REMOVE HEATER CONTROL ASSEMBLY

5. REMOVE RADIO RECEIVER ASSEMBLY WITH BRACKET (w/ Audio)

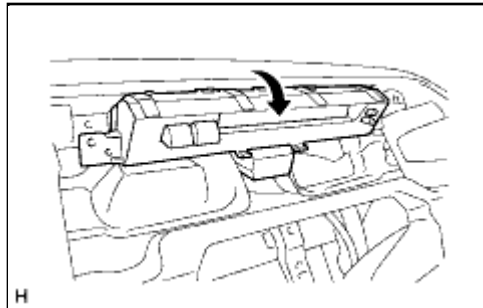
6. REMOVE NAVIGATION RECEIVER ASSEMBLY WITH BRACKET (w/ Navigation System)



7. REMOVE ACCESSORY METER ASSEMBLY



(a) Remove the 2 screws.

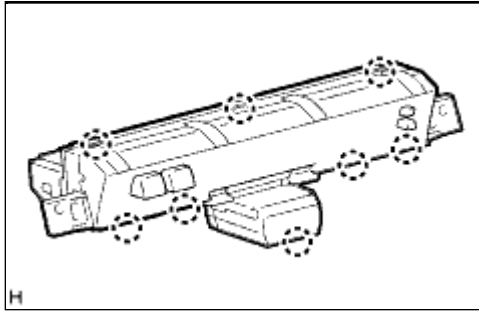


(b) Disconnect the connectors and remove the accessory meter.

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000045S9000X
Title: METER / GAUGE / DISPLAY: ACCESSORY METER: DISASSEMBLY (2010 4Runner)		

DISASSEMBLY

1. REMOVE CENTER DISPLAY GLASS



(a) Detach the 8 claws and remove the display glass.



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000045SA000X
Title: METER / GAUGE / DISPLAY: ACCESSORY METER: REASSEMBLY (2010 4Runner)		

REASSEMBLY

1. INSTALL CENTER DISPLAY GLASS

- (a) Attach the 8 claws to install the display glass.



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003B6F00IX
Title: METER / GAUGE / DISPLAY: ACCESSORY METER: INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL ACCESSORY METER ASSEMBLY

- (a) Connect the connector.
- (b) Install the accessory meter with the 2 screws.

2. INSTALL NAVIGATION RECEIVER ASSEMBLY WITH BRACKET (w/ Navigation System)



3. INSTALL RADIO RECEIVER ASSEMBLY WITH BRACKET (w/ Audio)



4. INSTALL HEATER CONTROL ASSEMBLY



5. INSTALL NO. 2 INSTRUMENT CLUSTER FINISH PANEL GARNISH



6. INSTALL NO. 1 INSTRUMENT CLUSTER FINISH PANEL GARNISH



7. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

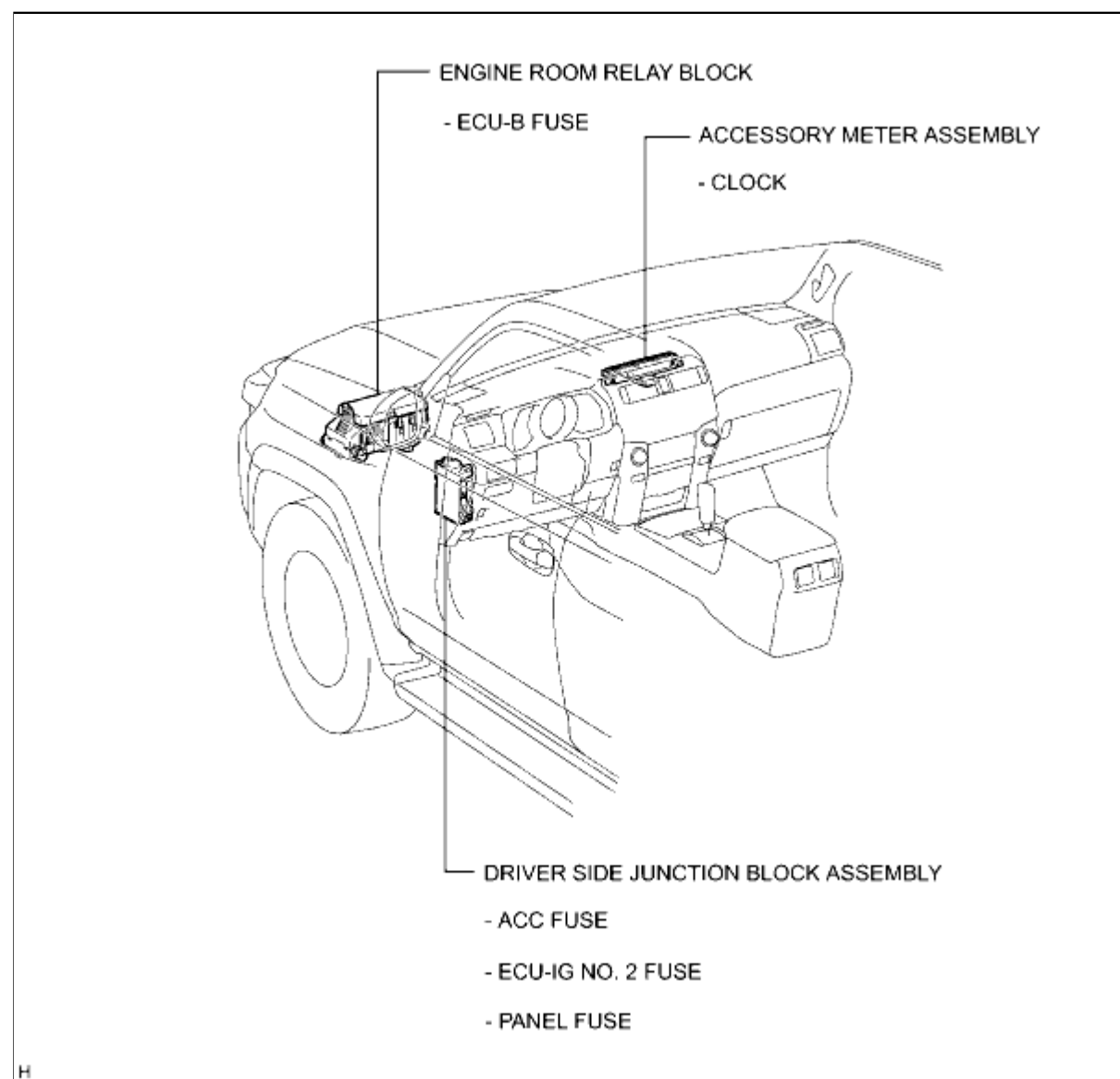
When disconnecting the cable, some systems need to be initialized after the cable is reconnected



Last Modified: 5-10-2010	6.4 R	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000046LK000X
Title: METER / GAUGE / DISPLAY: CLOCK SYSTEM: PARTS LOCATION (2010 4Runner)		

PARTS LOCATION

ILLUSTRATION



H

Last Modified: 5-10-2010	6.4 D	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000003UKK003X
Title: METER / GAUGE / DISPLAY: CLOCK SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING (2010 4Runner)		

HOW TO PROCEED WITH TROUBLESHOOTING

Use these procedures to troubleshoot the clock system.

1.	VEHICLE BROUGHT TO WORKSHOP
-----------	------------------------------------

NEXT



2.	INSPECT BATTERY VOLTAGE
-----------	--------------------------------

Standard voltage:


11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.

NEXT



3.	PROBLEM SYMPTOMS TABLE
-----------	-------------------------------

(a) Refer to Problem Symptoms Table  .

Result


RESULT	PROCEED TO
Fault is not listed in problem symptoms table	A
Fault is listed in problem symptoms table	B

B  **Go to step 5**

A



4.	OVERALL ANALYSIS AND TROUBLESHOOTING
-----------	---

(a) Terminals of ECU  .

NEXT



5.	ADJUST, REPAIR OR REPLACE
-----------	----------------------------------

NEXT



6.	CONFIRMATION TEST
-----------	--------------------------

NEXT  **END**

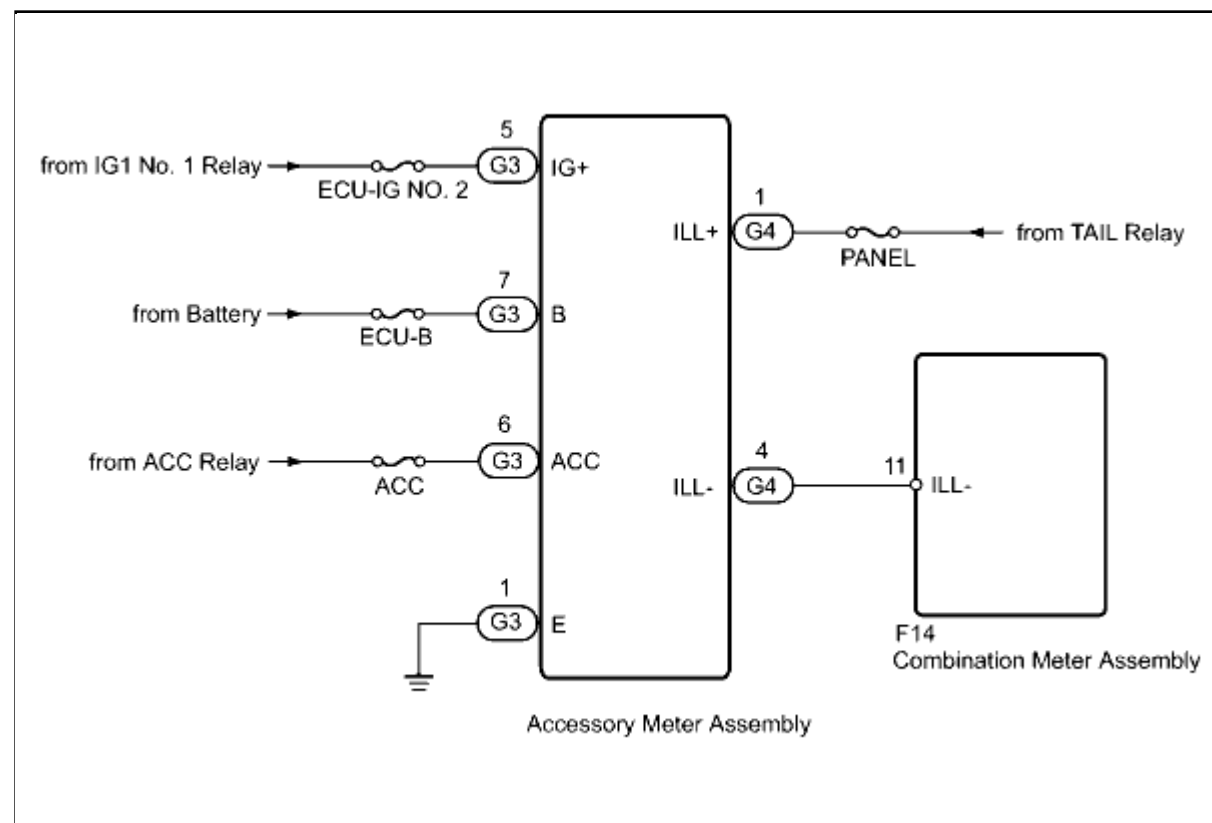


 **TOYOTA** 

Last Modified: 5-10-2010	6.4 U	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000012G4044X
Title: METER / GAUGE / DISPLAY: CLOCK SYSTEM: SYSTEM DIAGRAM (2010 4Runner)		

SYSTEM DIAGRAM

1. POWER SOURCE CIRCUIT



Last Modified: 5-10-2010	6.4 T	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000001R3A020X
Title: METER / GAUGE / DISPLAY: CLOCK SYSTEM: PROBLEM SYMPTOMS TABLE (2010 4Runner)		

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

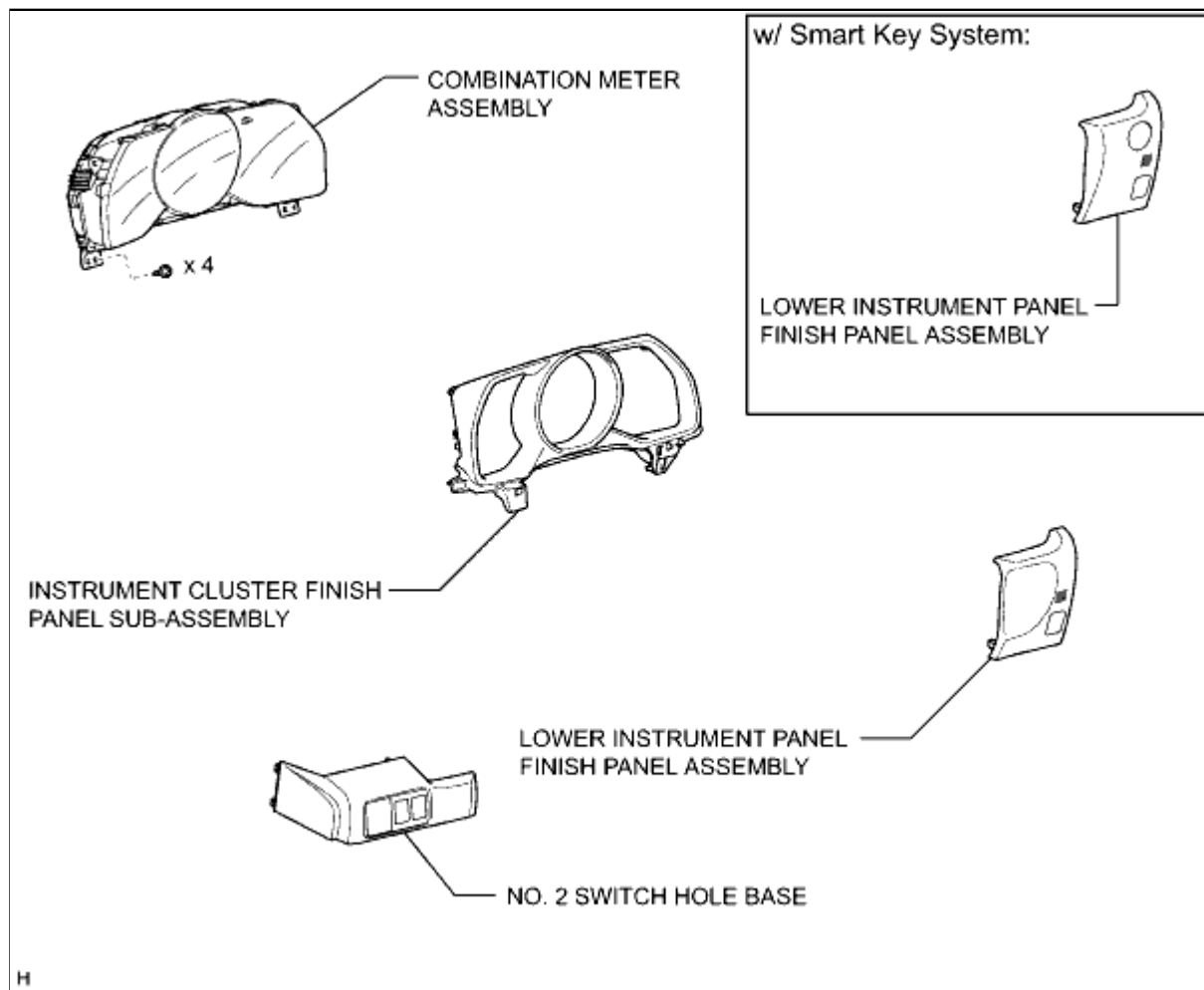
Clock System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Clock does not operate at all	Wire harness or connector	-
	Accessory meter assembly	INFO
Clock display illumination malfunction	Wire harness or connector	-
	Accessory meter assembly	INFO
	Combination meter assembly	INFO
Clock loses or gains time	Accessory meter assembly	INFO

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000039M1001X
Title: METER / GAUGE / DISPLAY: COMBINATION METER: COMPONENTS (2010 4Runner)		

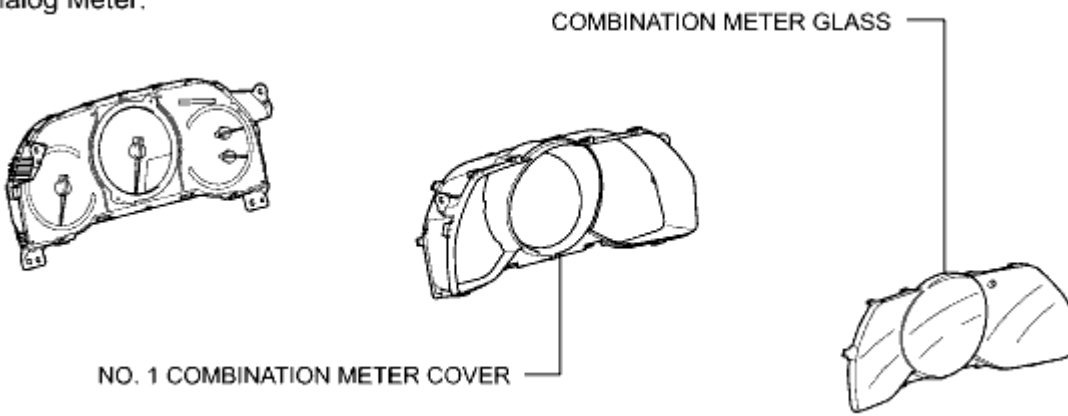
COMPONENTS

ILLUSTRATION



ILLUSTRATION

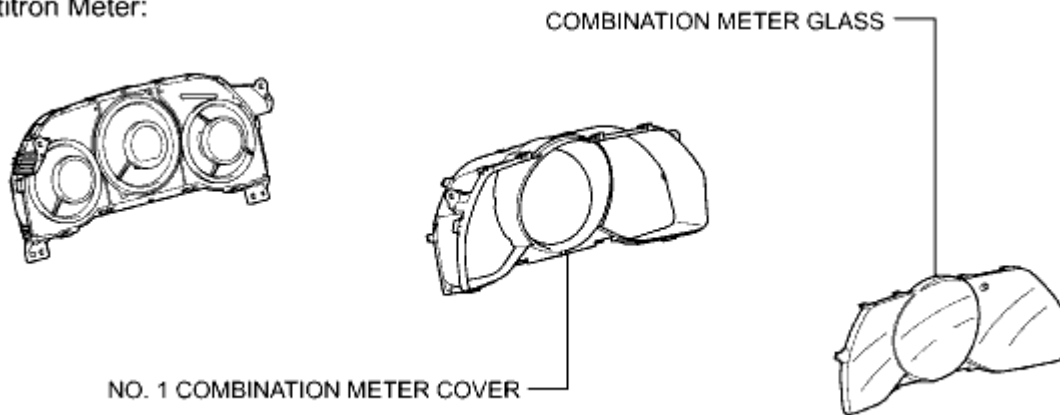
for Analog Meter:



H

ILLUSTRATION

for Optitron Meter:



H



TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000039M2001X
Title: METER / GAUGE / DISPLAY: COMBINATION METER: REMOVAL (2010 4Runner)		

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

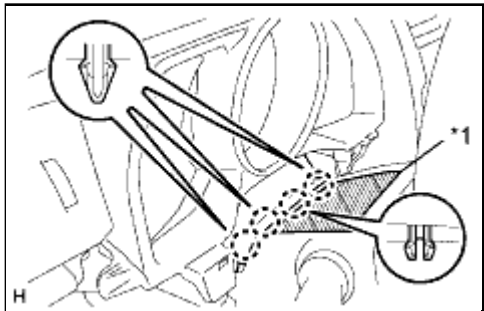
When disconnecting the cable, some systems need to be initialized after the cable is reconnected .

2. REMOVE NO. 2 SWITCH HOLE BASE

3. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY

4. REMOVE INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY

(a) Operate the tilt and telescopic lever to fully extend and lower the steering column assembly.

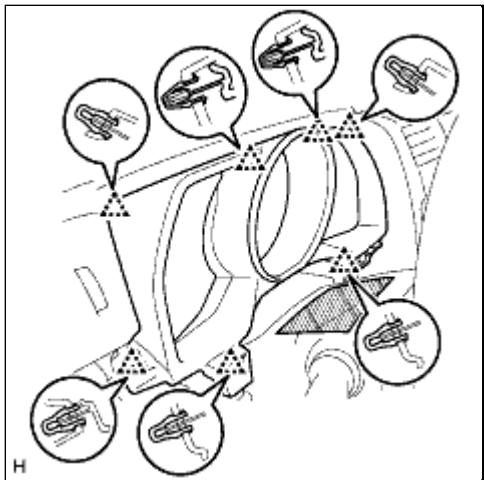


(b) Place protective tape as shown in the illustration.

Text in Illustration

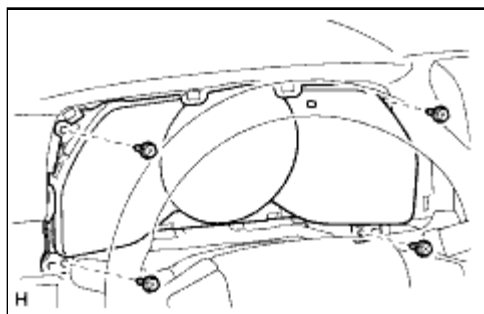
*1	Protective Tape
----	-----------------

(c) Detach the 4 claws.



(d) Detach the 7 clips and remove the finish panel.

5. REMOVE COMBINATION METER ASSEMBLY



(a) Remove the 4 screws.

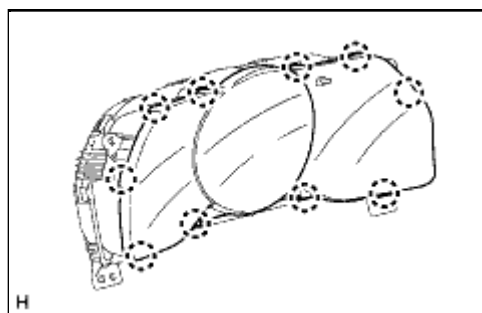
(b) Disconnect the connectors and remove the combination meter by pulling it up in the direction of the arrow in the illustration.



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000039M3001X
Title: METER / GAUGE / DISPLAY: COMBINATION METER: DISASSEMBLY (2010 4Runner)		

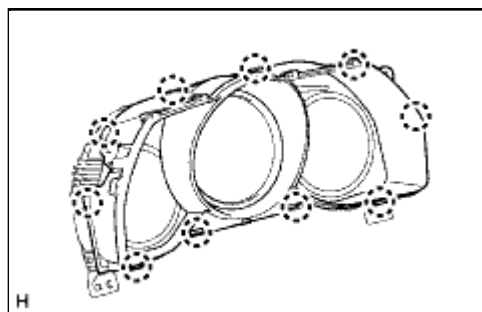
DISASSEMBLY

1. REMOVE COMBINATION METER GLASS



(a) Detach the 10 claws and remove the meter glass.

2. REMOVE NO. 1 COMBINATION METER COVER



(a) Detach the 10 claws and remove the cover.

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000039M4001X
Title: METER / GAUGE / DISPLAY: COMBINATION METER: REASSEMBLY (2010 4Runner)		

REASSEMBLY

1. INSTALL NO. 1 COMBINATION METER COVER

(a) Attach the 10 claws to install the cover.

2. INSTALL COMBINATION METER GLASS

(a) Attach the 10 claws to install the meter glass.



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000039M0001X
Title: METER / GAUGE / DISPLAY: COMBINATION METER: INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL COMBINATION METER ASSEMBLY

- (a) Connect the connectors.
- (b) Install the combination meter with the 4 screws.

2. INSTALL INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY

- (a) Attach the 7 claws to install the finish panel.
- (b) Attach the 4 claws.

3. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY



4. INSTALL NO. 2 SWITCH HOLE BASE



5. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

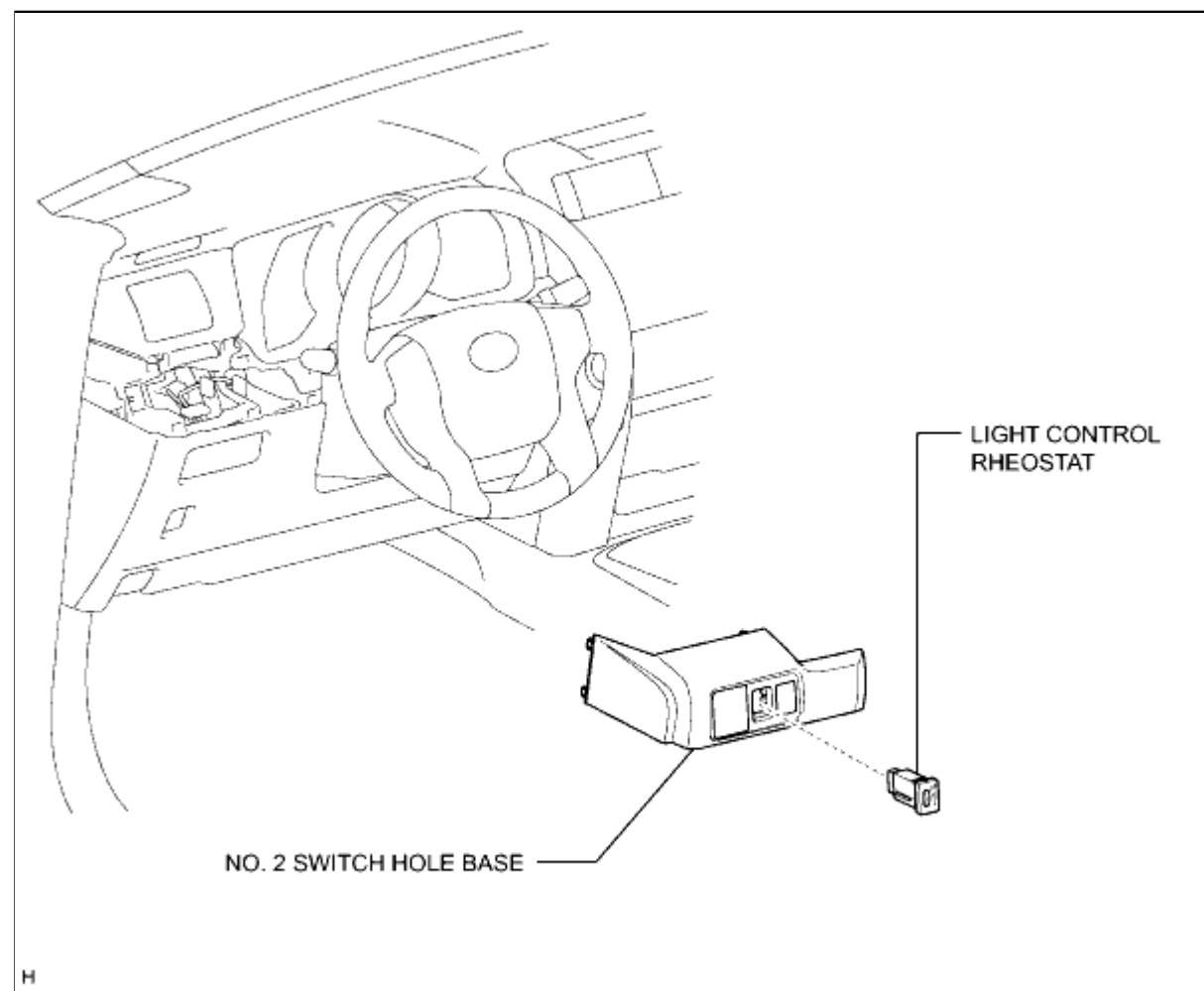
When disconnecting the cable, some systems need to be initialized after the cable is reconnected



Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002V5F008X
Title: METER / GAUGE / DISPLAY: LIGHT CONTROL RHEOSTAT: COMPONENTS (2010 4Runner)		

COMPONENTS

ILLUSTRATION



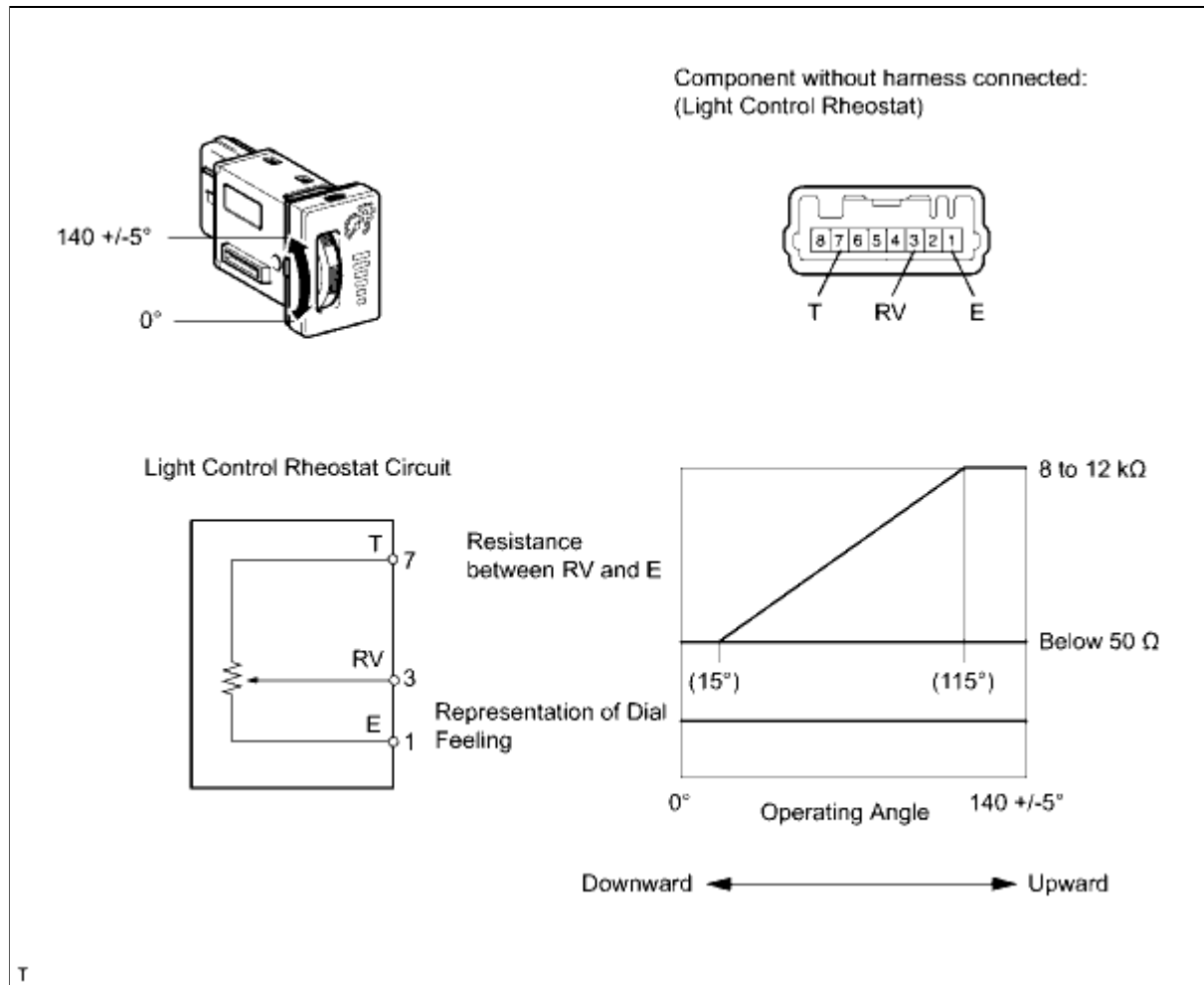
H

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002V5E008X
Title: METER / GAUGE / DISPLAY: LIGHT CONTROL RHEOSTAT: INSPECTION (2010 4Runner)		

INSPECTION

1. INSPECT LIGHT CONTROL RHEOSTAT (w/o TAIL Cancel Switch)

(a) Measure the resistance according to the value(s) in the table below.



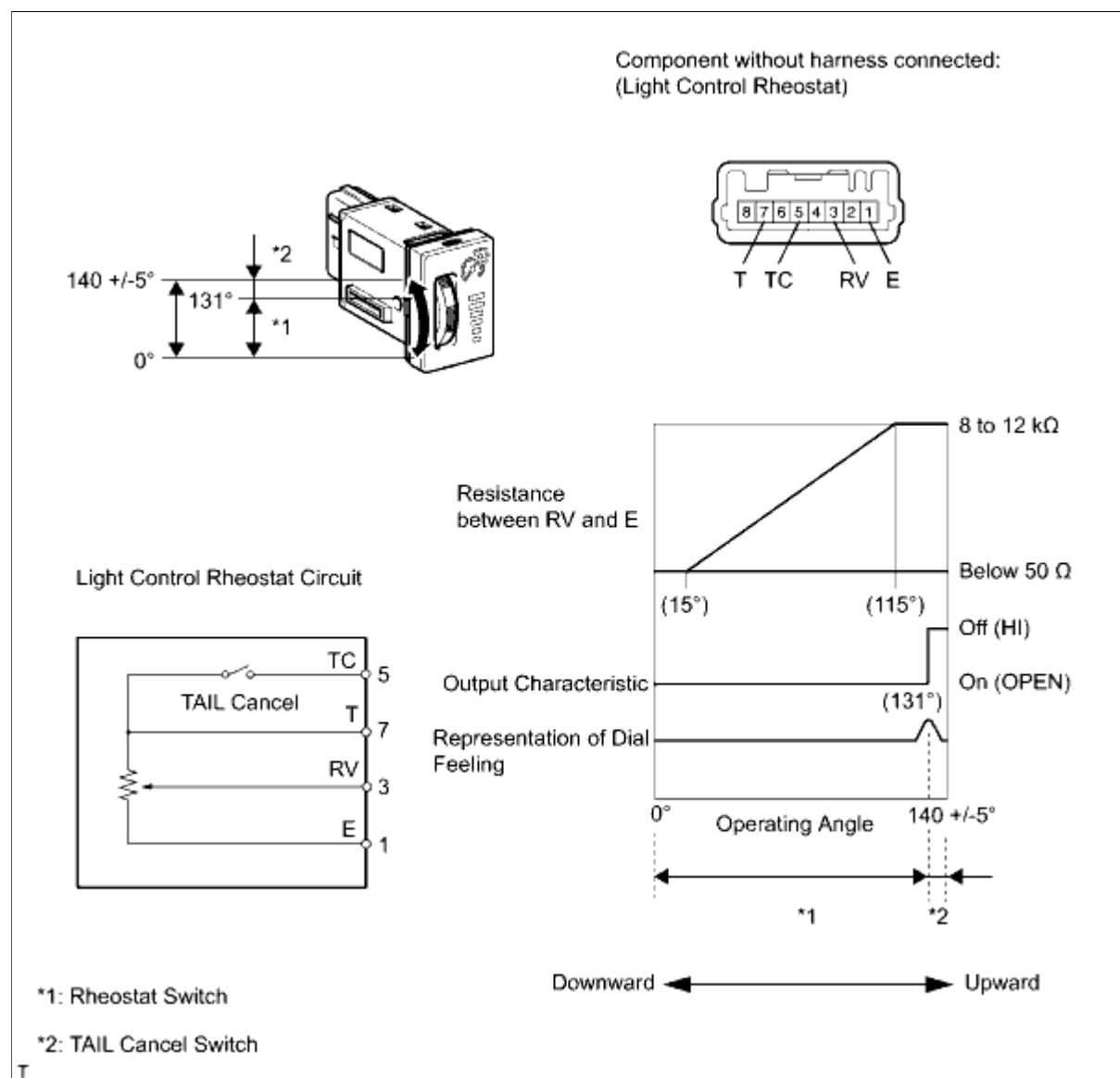
Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
7 (T) - 1 (E)	Always	8 to 12 k Ω
3 (RV) - 1 (E)	Light control rheostat fully turned upward → fully turned downward	8 to 12 k Ω → Below 50 Ω

If the result is not as specified, replace the rheostat.

2. INSPECT LIGHT CONTROL RHEOSTAT (w/ TAIL Cancel Switch)

(a) Measure the resistance according to the value(s) in the table below.



Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
7 (T) - 1 (E)	Always	8 to 12 k Ω
5 (TC) - 7 (T)	TAIL cancel switch off \rightarrow on	1 M Ω or higher \rightarrow Below 1 Ω
3 (RV) - 1 (E)	Light control rheostat fully turned upward \rightarrow fully turned downward	8 to 12 k Ω \rightarrow Below 50 Ω

If the result is not as specified, replace the rheostat.

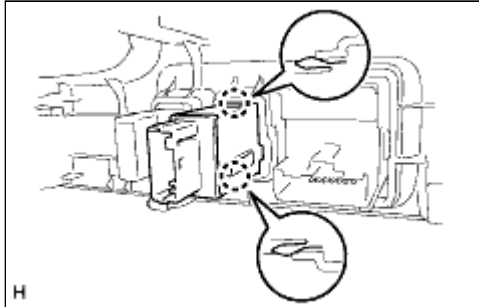
Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002V5G008X
Title: METER / GAUGE / DISPLAY: LIGHT CONTROL RHEOSTAT: REMOVAL (2010 4Runner)		

REMOVAL

1. REMOVE NO. 2 SWITCH HOLE BASE

INFO

2. REMOVE LIGHT CONTROL RHEOSTAT



(a) Detach the 2 claws and remove the rheostat.



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Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002V5D008X
Title: METER / GAUGE / DISPLAY: LIGHT CONTROL RHEOSTAT: INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL LIGHT CONTROL RHEOSTAT

(a) Attach the 2 claws to install the rheostat.

2. INSTALL NO. 2 SWITCH HOLE BASE

