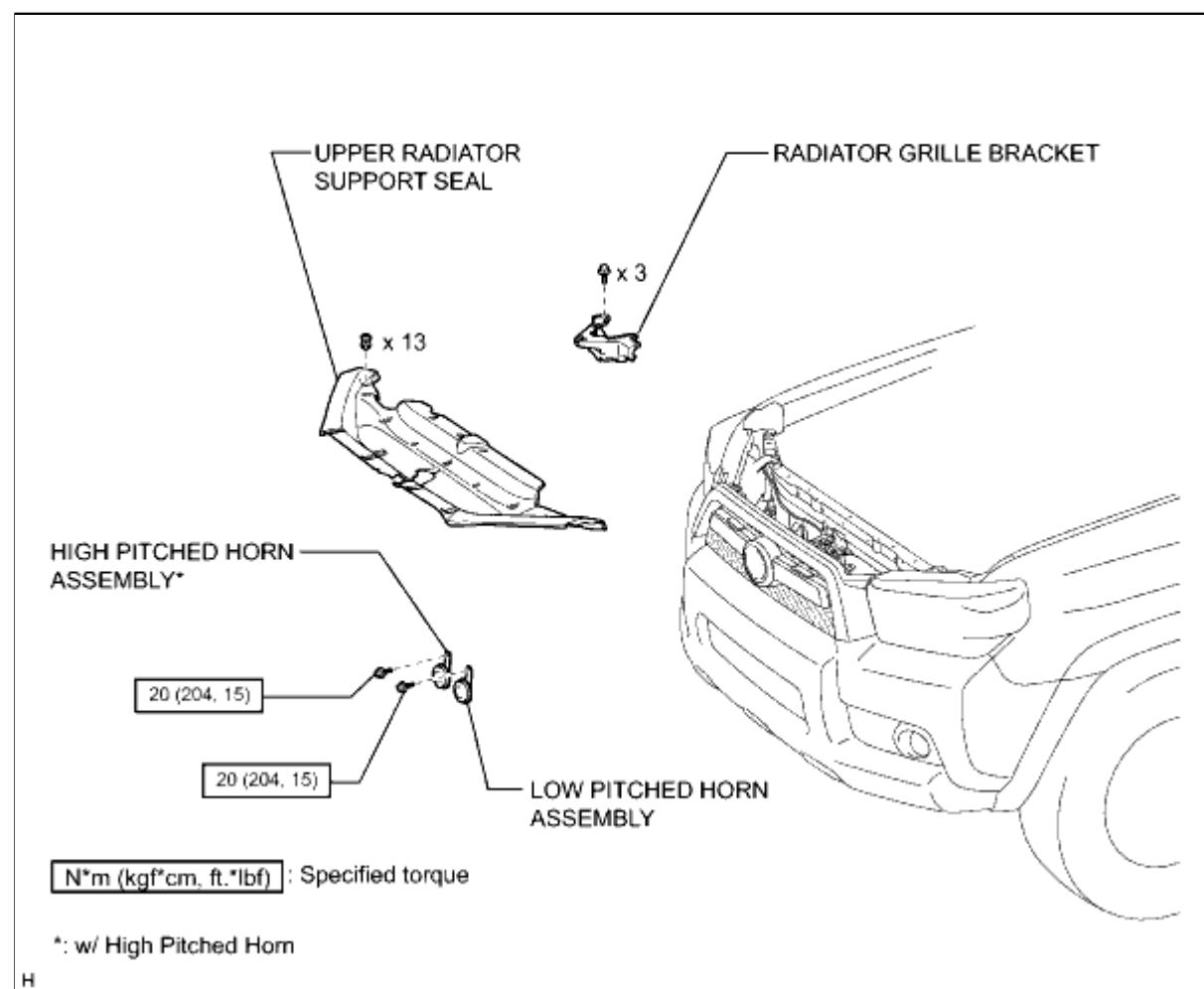


Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM00000475S000X
Title: HORN: HORN: COMPONENTS (2010 4Runner)		

COMPONENTS

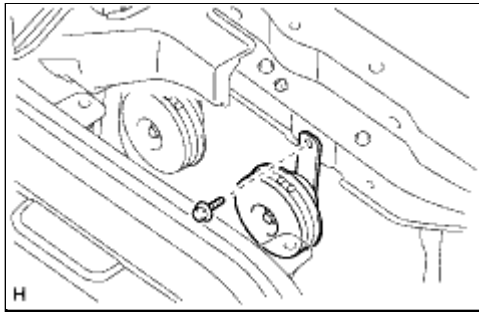
ILLUSTRATION



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM00000475T000X
Title: HORN: HORN: REMOVAL (2010 4Runner)		

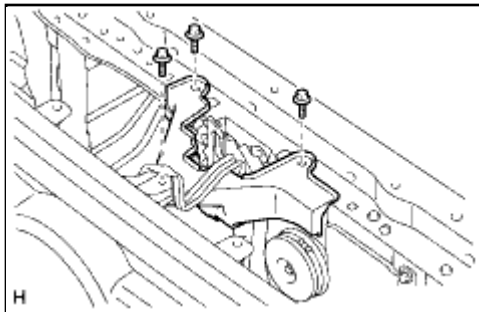
REMOVAL

1. REMOVE UPPER RADIATOR SUPPORT SEAL



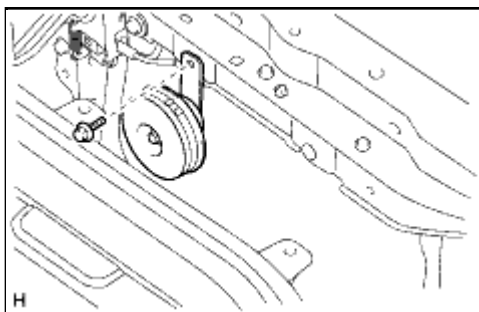
2. REMOVE LOW PITCHED HORN ASSEMBLY

- (a) Disconnect the connector.
- (b) Remove the bolt and low pitched horn.



3. REMOVE RADIATOR GRILLE BRACKET

- (a) Remove the 3 bolts and radiator grille bracket.



4. REMOVE HIGH PITCHED HORN ASSEMBLY (w/ High Pitched Horn)

- (a) Disconnect the connector.
- (b) Remove the bolt and high pitched horn.



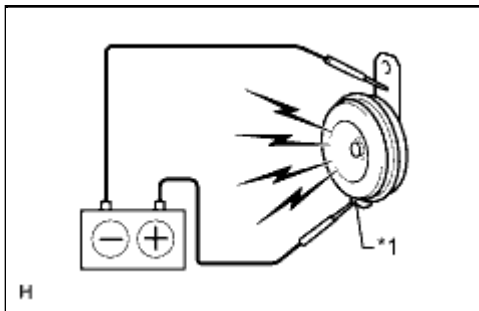
Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM00000475R000X
Title: HORN: HORN: INSPECTION (2010 4Runner)		

INSPECTION

1. INSPECT LOW PITCHED HORN ASSEMBLY

(a) Apply battery voltage and check the operation of the horn according to the table below.

OK:



MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 1 Battery negative (-) → Body ground	Low pitched horn sounds

If the result is not as specified, replace the low pitched horn assembly.

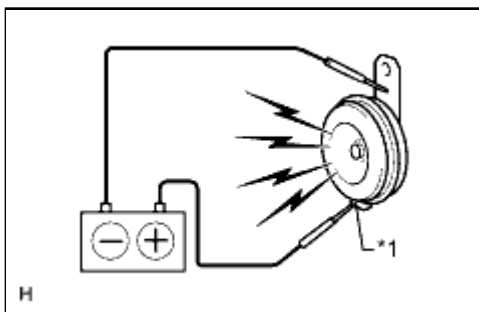
Text in Illustration

*1	Terminal 1
----	------------

2. INSPECT HIGH PITCHED HORN ASSEMBLY (w/ High Pitched Horn)

(a) Apply battery voltage and check the operation of the horn according to the table below.

OK:



MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 1 Battery negative (-) → Body ground	High pitched horn sounds

If the result is not as specified, replace the high pitched horn assembly.

Text in Illustration

* 1	Terminal 1
-----	------------



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM00000475Q000X
Title: HORN: HORN: INSTALLATION (2010 4Runner)		

INSTALLATION

1. INSTALL HIGH PITCHED HORN ASSEMBLY (w/ High Pitched Horn)

(a) Install the high pitched horn with the bolt.

Torque: 20 N·m (204 kgf·cm, 15ft·lbf)

(b) Connect the connector.

2. INSTALL RADIATOR GRILLE BRACKET

(a) Install the radiator grille bracket with the 3 bolts.

3. INSTALL LOW PITCHED HORN ASSEMBLY

(a) Install the low pitched horn with the bolt.

Torque: 20 N·m (204 kgf·cm, 15ft·lbf)

(b) Connect the connector.

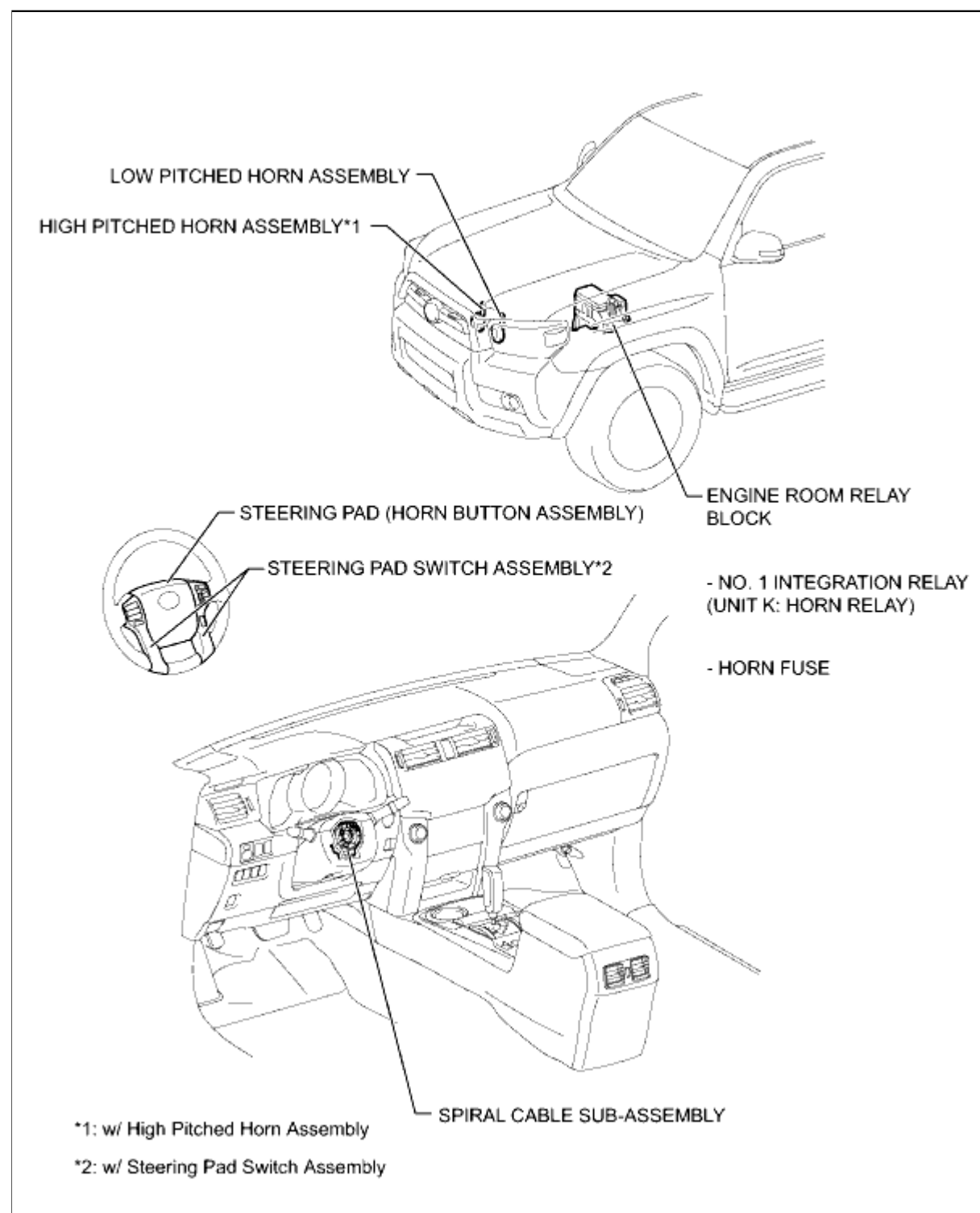
4. INSTALL UPPER RADIATOR SUPPORT SEAL



Last Modified: 5-10-2010	6.4 R	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000045XM000X
Title: HORN: HORN SYSTEM: PARTS LOCATION (2010 4Runner)		

PARTS LOCATION

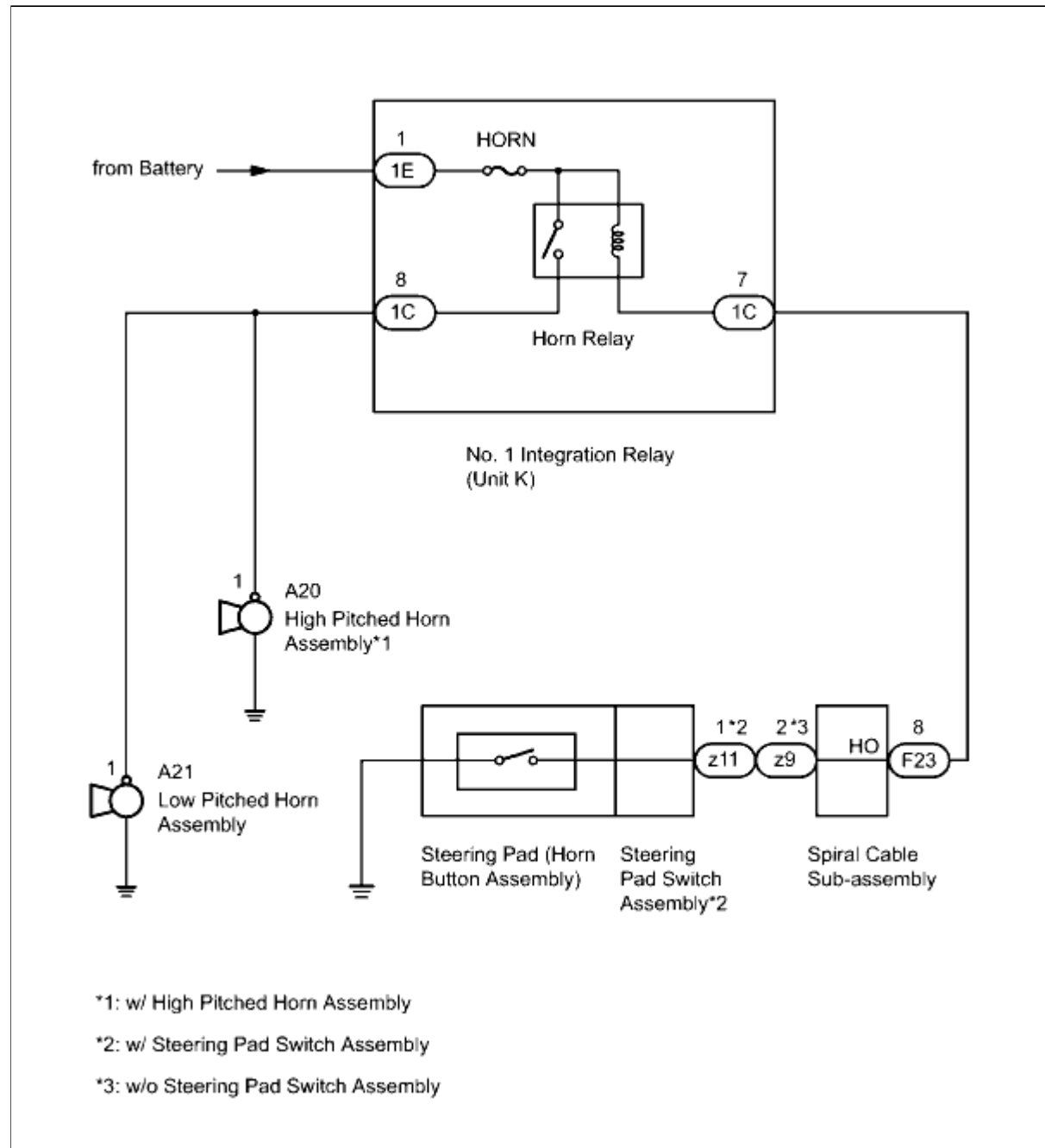
ILLUSTRATION





Last Modified: 5-10-2010	6.4 U	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000045XO000X
Title: HORN: HORN SYSTEM: SYSTEM DIAGRAM (2010 4Runner)		

SYSTEM DIAGRAM









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Model Year: 2010	Model: 4Runner	Doc ID: RM0000045XN000X
Title: HORN: HORN 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.

Horn System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Horn does not sound	HORN fuse	
	Low pitched horn assembly	
	High pitched horn assembly* 1	
	Engine room relay block (No. 1 integration relay)	
	Steering pad (Horn button assembly)	
	Steering pad switch assembly* 2	-
	Spiral cable sub-assembly	
	Harness or connector	-

* 1 : w/ High Pitched Horn Assembly

* 2 : w/ Steering Pad Switch Assembly

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM00000455X001X
Title: HORN: INTEGRATION RELAY: ON-VEHICLE INSPECTION (2010 4Runner)		

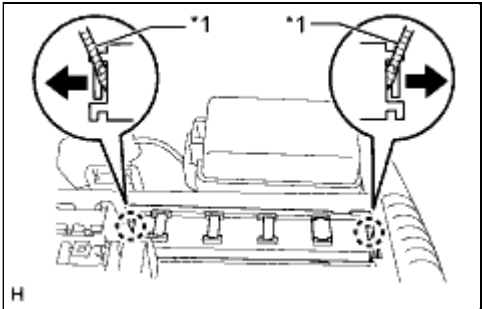
ON-VEHICLE INSPECTION

1. REMOVE NO. 1 RELAY BLOCK COVER

(a) Remove the No. 1 relay block cover.

2. INSPECT NO. 1 INTEGRATION RELAY

(a) Using a screwdriver, detach the 2 claws and disconnect the No. 1 integration relay from the engine room junction block.

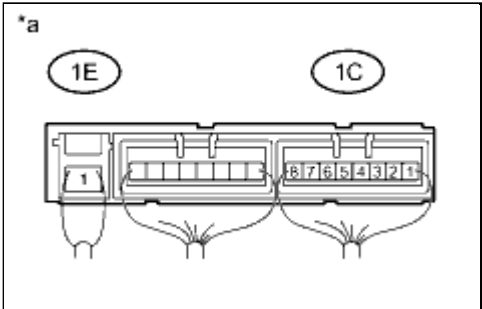


HINT:
Tape the screwdriver tip before use.

Text in Illustration

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

(b) Measure the resistance according to the value(s) in the table below.
Standard Resistance:



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1E-1 - 1C-8	Battery voltage is not applied to terminals 1C-6 and 1C-7	10 kΩ or higher
1E-1 - 1C-8	Battery voltage is applied to terminals 1C-6 and 1C-7	Below 1 Ω

If the result is not as specified, replace the No. 1 integration relay.

Text in Illustration

*a	Component with harness connected
----	----------------------------------

(No. 1 Integration Relay)

(c) Attach the 2 claws to install the No. 1 integration relay to the engine room junction block.

3. INSTALL NO. 1 RELAY BLOCK COVER

(a) Install the No. 1 relay block cover.

