TOYOTA
SERVICE BULLETIN
Group: 12 No.: 21 Date: May 11

## Camry ACV40, Aurion GSV40

# Changes to Repair Manual SC02N2EQ

Changes have been made to Camry / Aurion Repair Manual SC02N2EQ.

| Publication | Section | Title | Paragraph |
|---|---|---|---|
| SC02N2EQ | Theft Deterrent | Theft Deterrent System (w/ Smart Entry and Start System) | Engine Hood Courtesy Circuit |
| | | Theft Deterrent System (w/o Smart Entry and Start System) | Engine Hood Courtesy Circuit |
| | | Engine Hood Courtesy Switch | Components (2006/06 – 2006/10) |
| | | | Components (2006/10 – 2009/06) |
| | | | Components (2009/06 - ) |
| | | | Removal (2006/06 – 2006/10) |
| | | | Removal (2006/10 – 2009/06) |
| | | | Removal (2009/06 - ) |
| | | | Inspection |
| | | | Installation (2006/06 – 2006/10) |
| | | | Installation (2006/10 – 2009/06) |
| | | | Installation (2009/06 - ) |

Changes follow on from this page.

Additions and Changes are indicated by a blue arrow

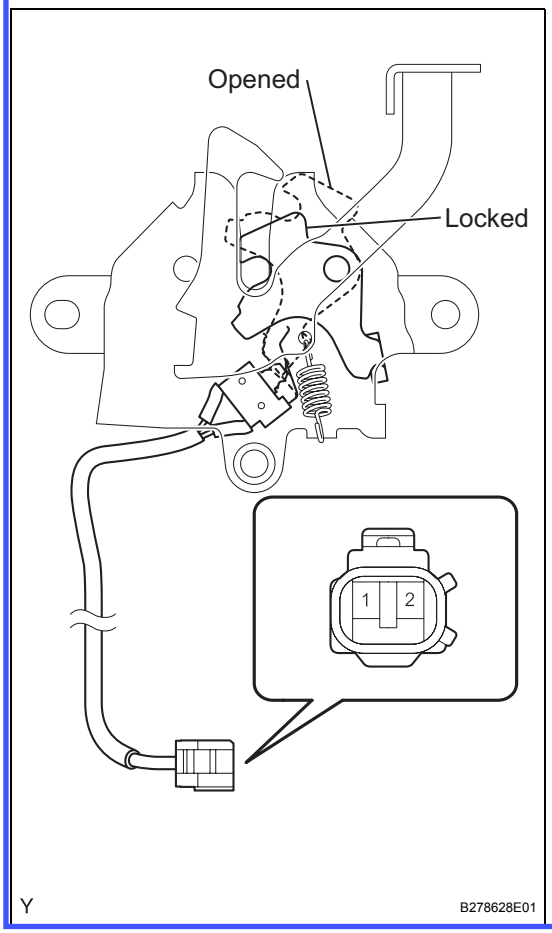
Deletions are indicated by a red arrow.

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## INSPECTION PROCEDURE

[Corrected]

| 1 | INSPECT HOOD LOCK ASSEMBLY (ENGINE HOOD COURTESY SWITCH) |
|---|---|




(a) Remove the hood lock assembly.
(b) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

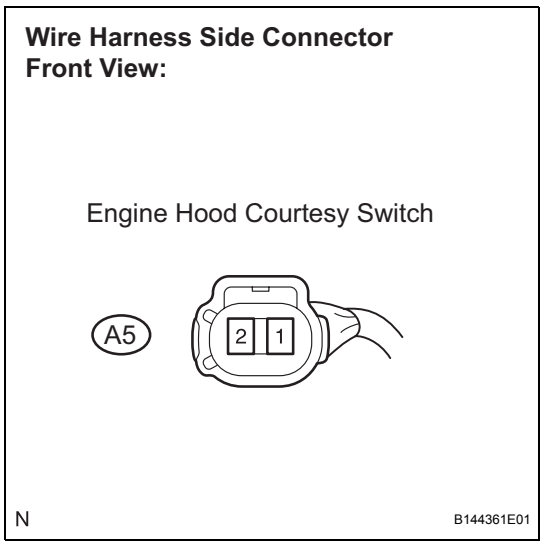
| Tester Connection | Switch Position | Specified Condition |
|---|---|---|
| 1 - 2 | Locked | Below 1 Ω |
| | Opened | 10 kΩ or higher |

**NG** → **REPLACE HOOD LOCK ASSEMBLY (ENGINE HOOD COURTESY SWITCH)**

TD

**OK**

| 2 | CHECK HARNESS AND CONNECTOR (ENGINE HOOD COURTESY SWITCH - BODY GROUND) |
|---|---|




(a) Disconnect the A5 switch connector.
(b) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A5-1 - Body ground | Below 1 Ω |

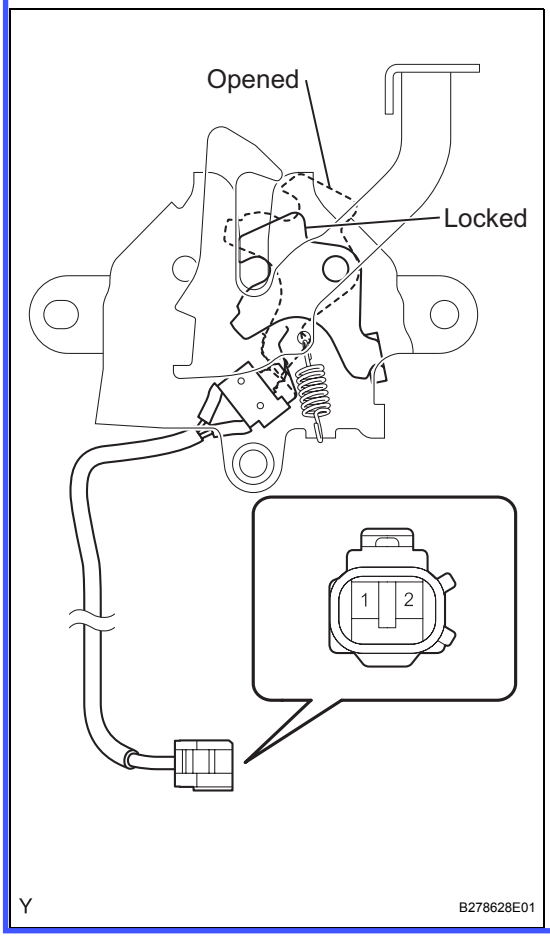
**NG** → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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## INSPECTION PROCEDURE

[Corrected]

| 1 | INSPECT HOOD LOCK ASSEMBLY (ENGINE HOOD COURTESY SWITCH) |
|---|---|




(a) Remove the hood lock assembly.
(b) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

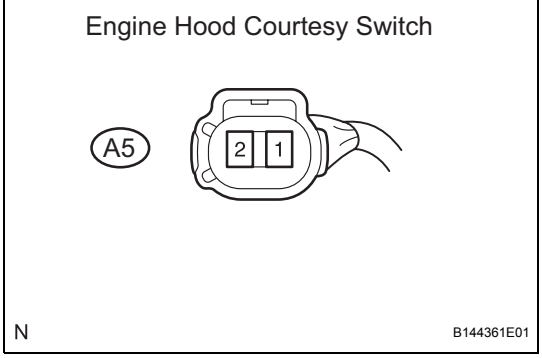
| Tester Connection | Switch Position | Specified Condition |
|---|---|---|
| 1 - 2 | Locked | Below 1 Ω |
| | Opened | 10 kΩ or higher |

**NG** → **REPLACE HOOD LOCK ASSEMBLY (ENGINE HOOD COURTESY SWITCH)**

**OK**

| 2 | CHECK HARNESS AND CONNECTOR (ENGINE HOOD COURTESY SWITCH - BODY GROUND) |
|---|---|

**Wire Harness Side Connector Front View:**




(a) Disconnect the A5 switch connector.
(b) Measure the resistance according to the value(s) in the table below.

**Standard resistance**

| Tester Connection | Specified Condition |
|---|---|
| A5-1 - Body ground | Below 1 Ω |

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

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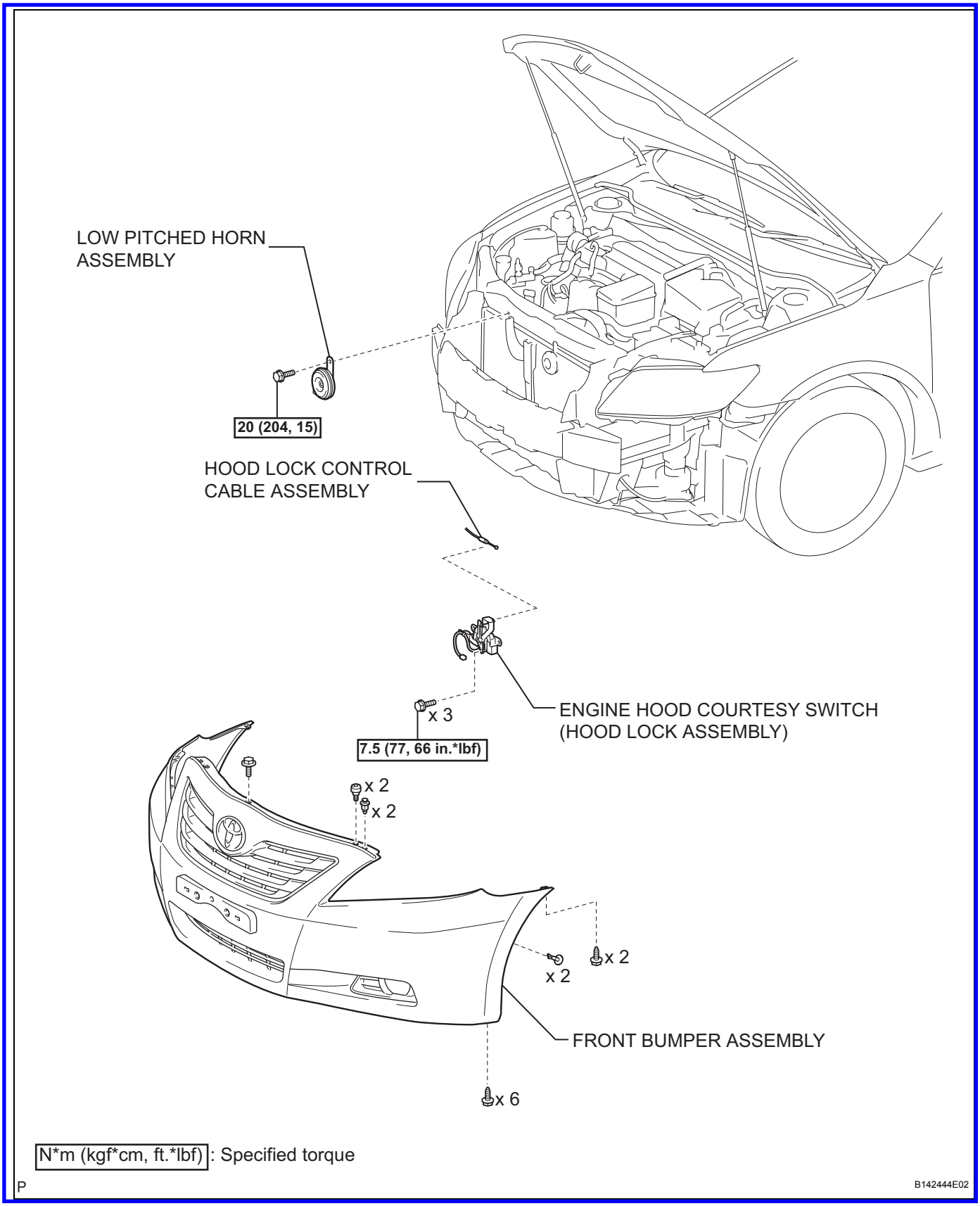
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# ENGINE HOOD COURTESY SWITCH

## COMPONENTS

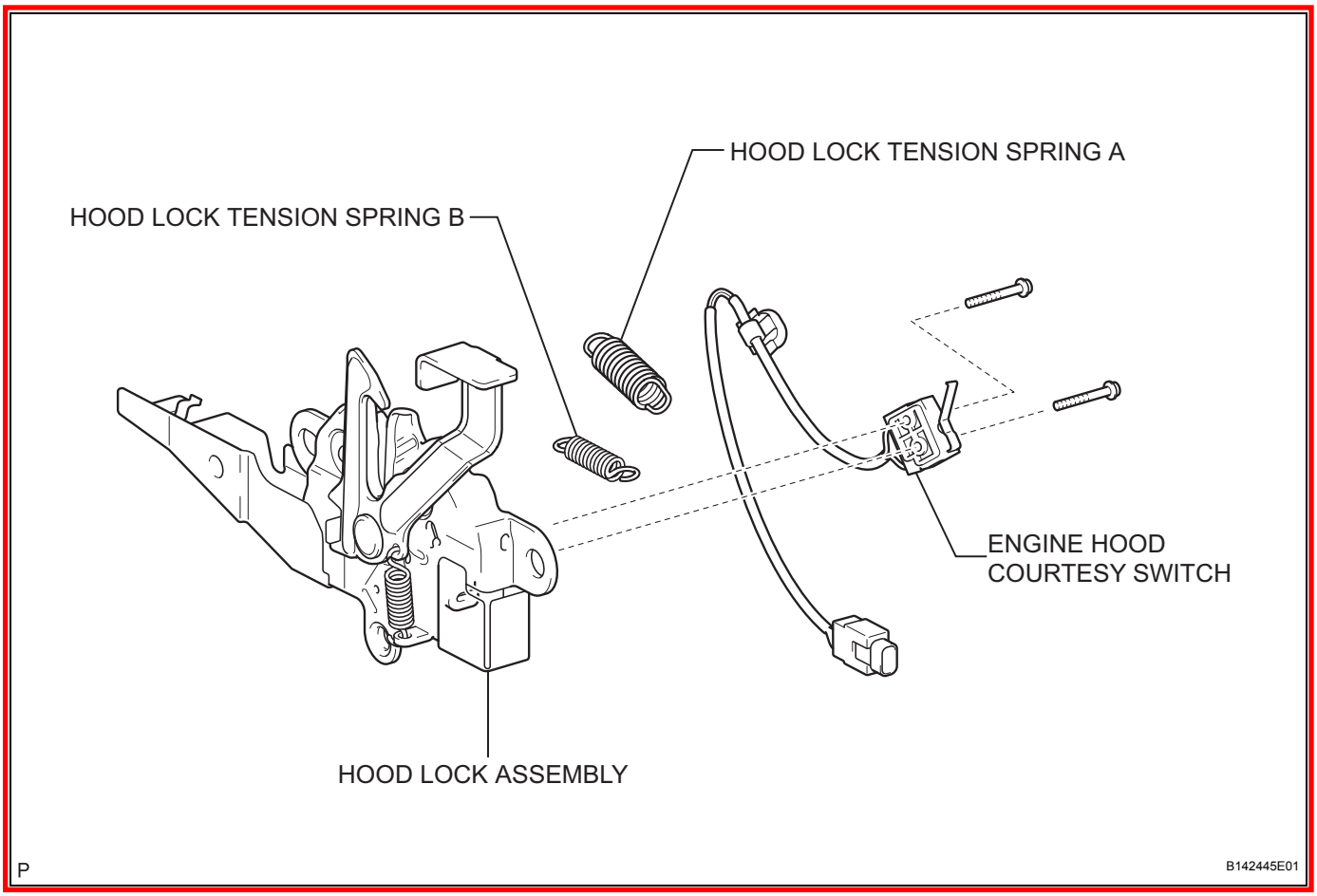
[Corrected]

(2006/06-2006/10)




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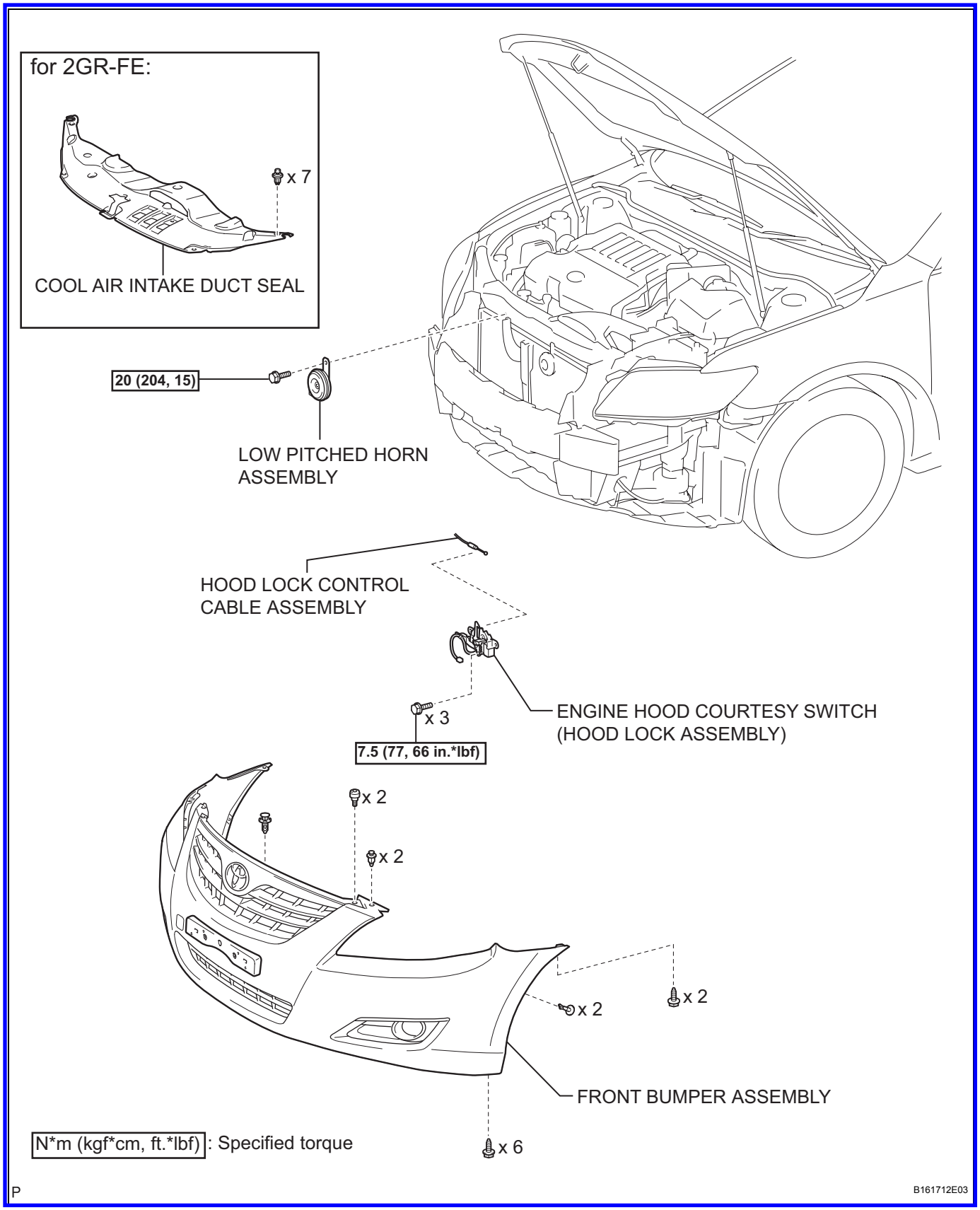

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# COMPONENTS

[Corrected]

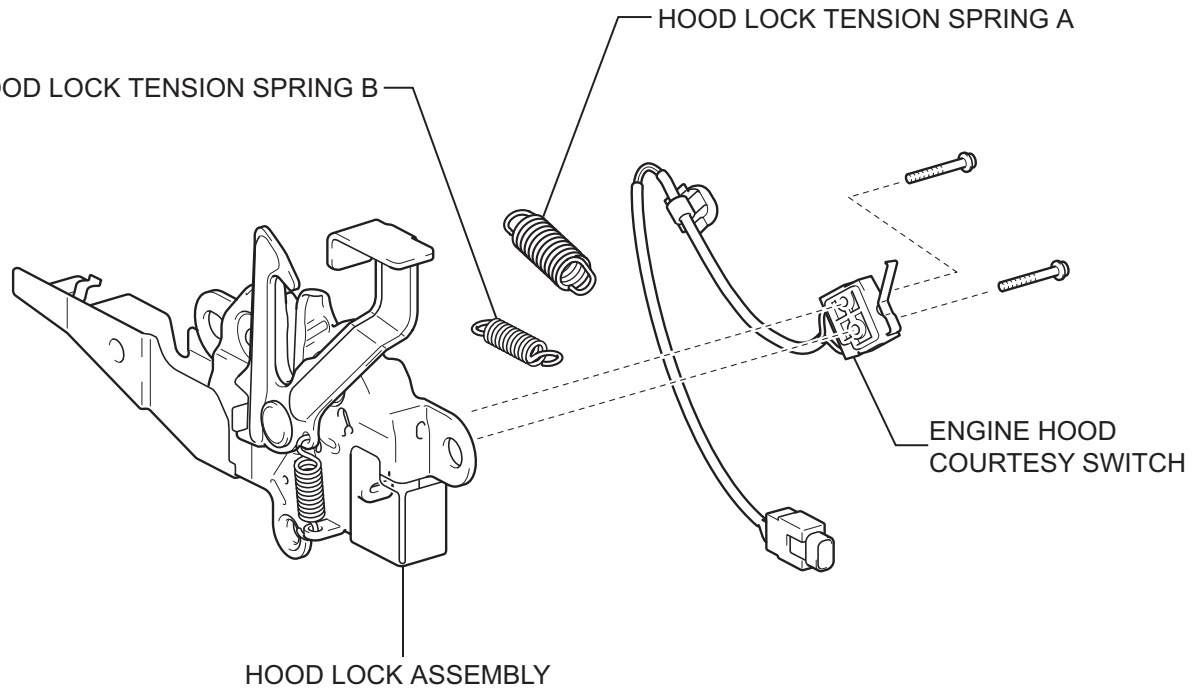
(2006/10-2009/06)




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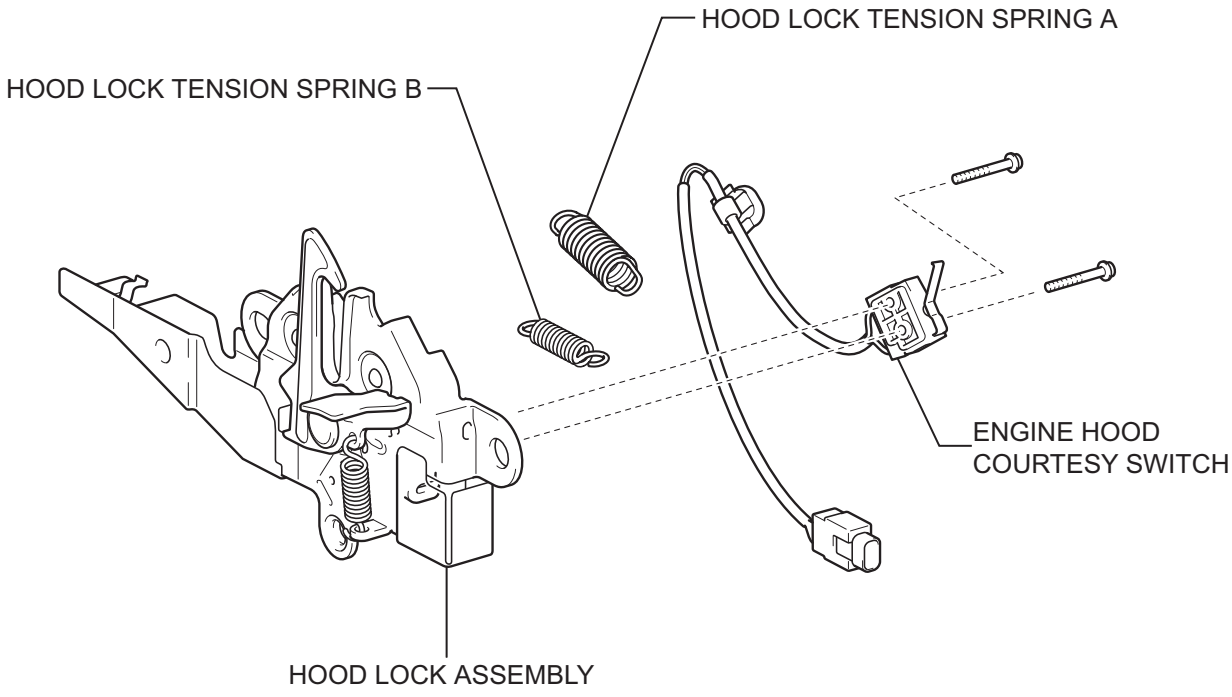
for 2AZ-FE:




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for 2GR-FE:



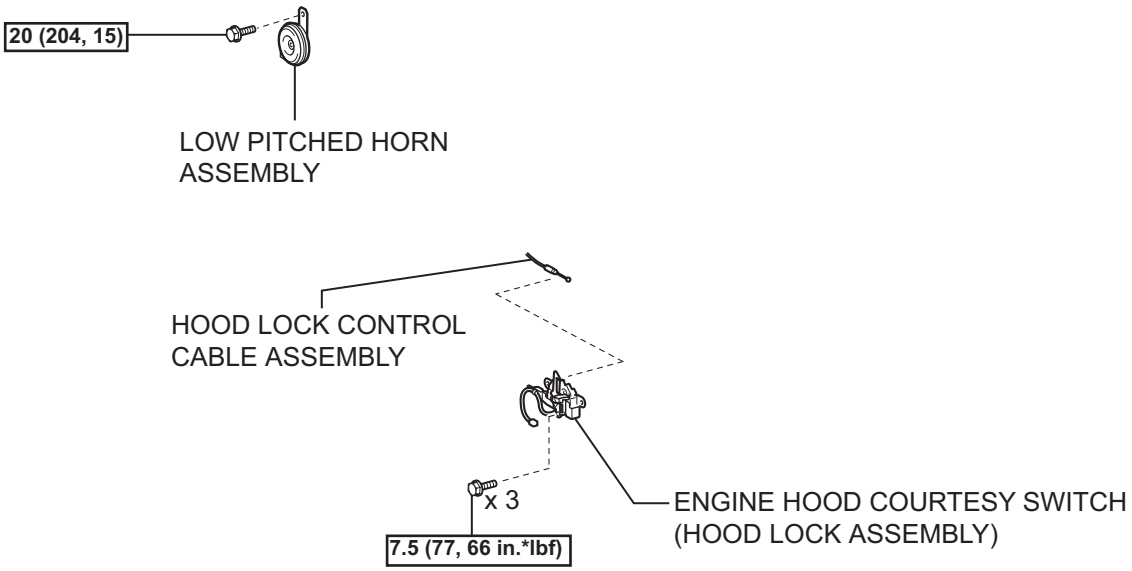

P B161713E01

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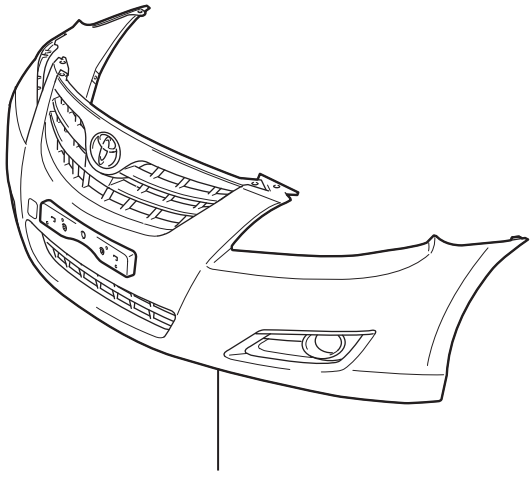
# COMPONENTS

[Corrected]

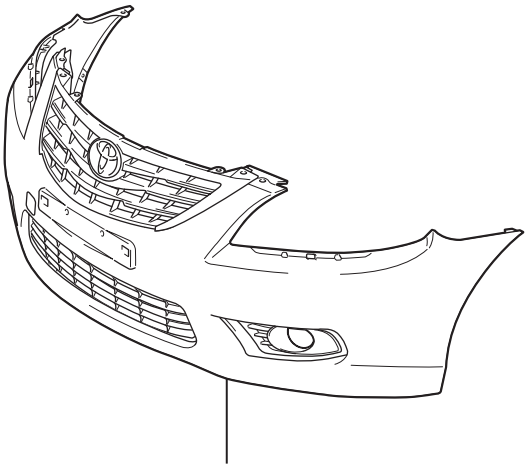
(2009/06- )




for 2AZ-FE:




for 2GR-FE:




N*m (kgf*cm, ft.*lbf): Specified torque

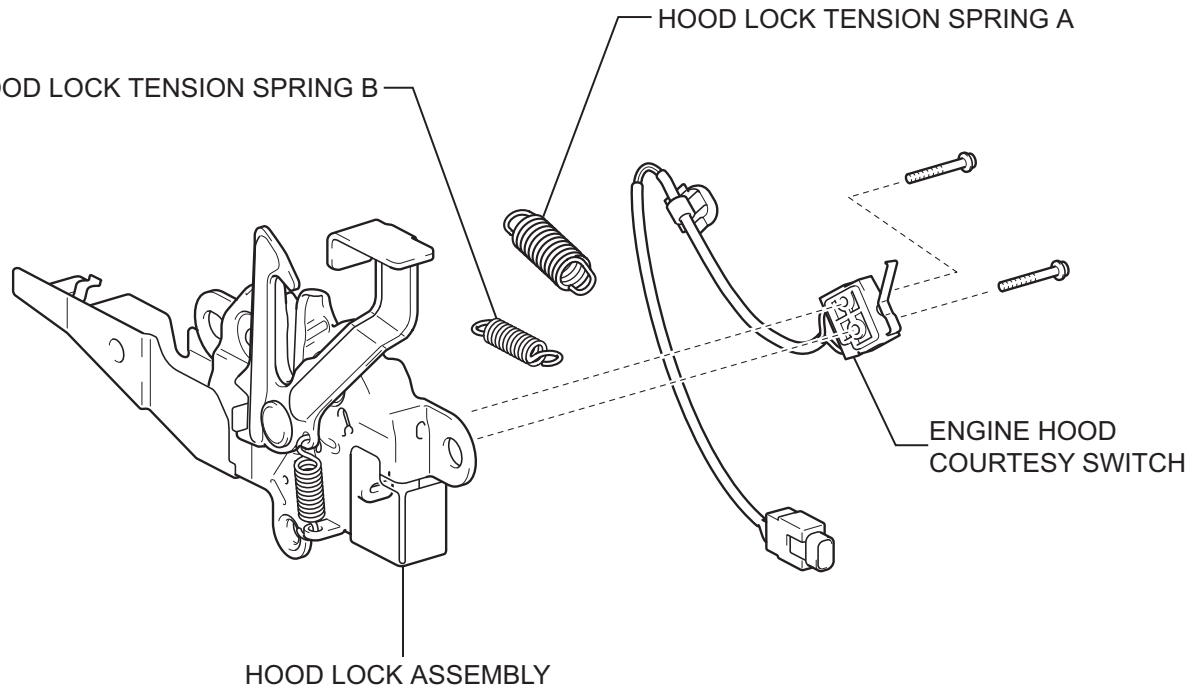
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for 2AZ-FE:

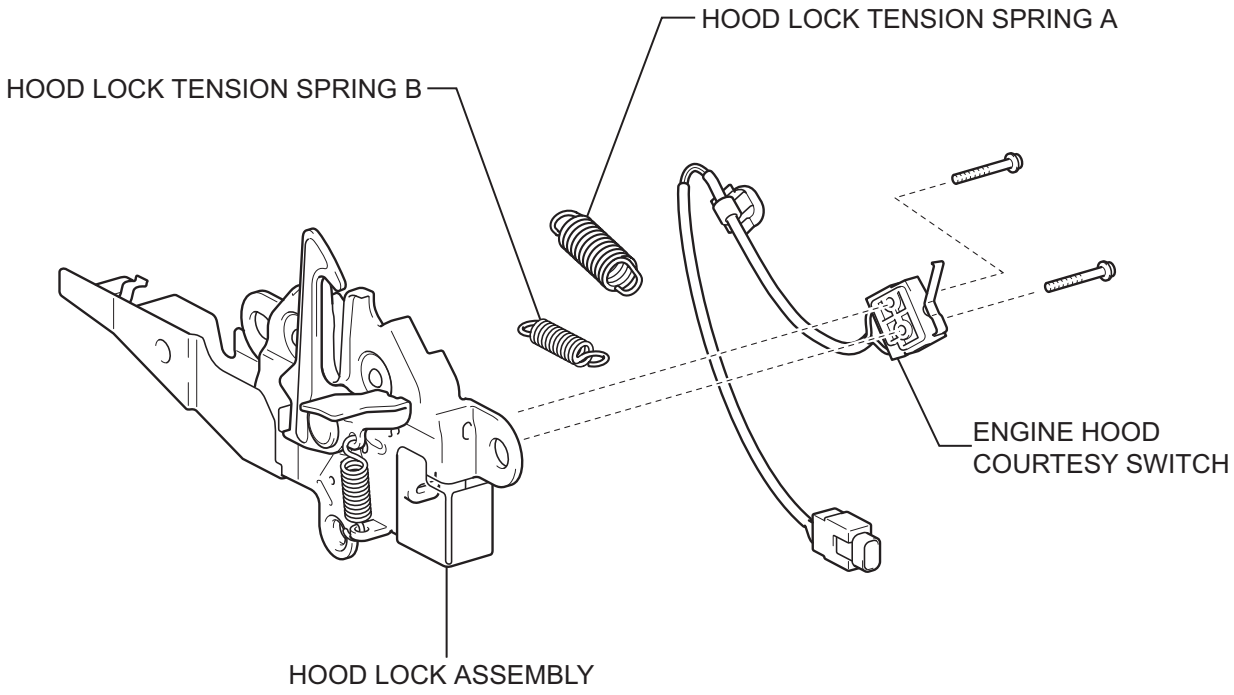



P

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for 2GR-FE:




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# REMOVAL

(2006/06-2006/10)

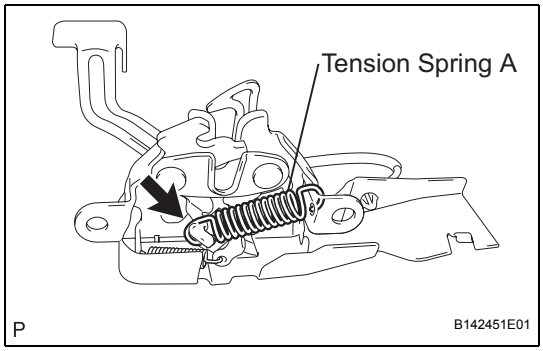
1. **REMOVE FRONT BUMPER ASSEMBLY (w/o Fog Light) ( See*1 )**
2. **REMOVE FRONT BUMPER ASSEMBLY (w/ Fog Light) ( See*1 )**
3. **REMOVE LOW PITCHED HORN ASSEMBLY ( See*2 )**

[Corrected]

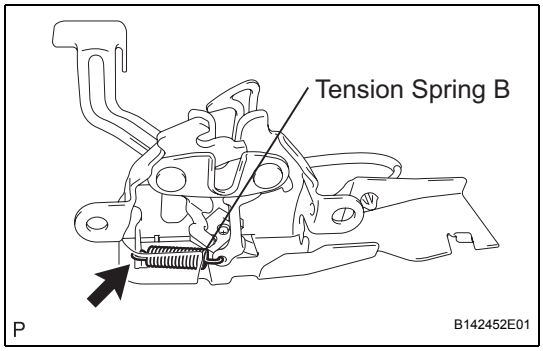
4. **REMOVE ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for RHD) ( See*3 )**

See*1 : EXTERIOR - FRONT BUMPER(for 2AZ-FE) - REMOVAL (2006/06 - 2009/06)
See*2 : HORN - LOW PITCHED HORN - REMOVAL (2006/06 - 2006/10)
See*3 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY - REMOVAL (2006/06 - 2006/10)

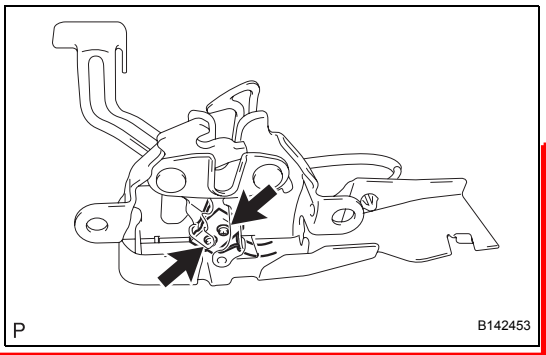
5. **REMOVE HOOD LOCK TENSION SPRING A (for RHD)**
   (a) Remove the tension spring A.




6. **REMOVE HOOD LOCK TENSION SPRING B (for RHD)**
   (a) Remove the tension spring B.




7. **REMOVE ENGINE HOOD COURTESY SWITCH (for RHD)**
   (a) Remove the 2 screws and the engine hood courtesy switch.




[Deleted]

# REMOVAL

(2006/10-2009/06)

1. **REMOVE COOL AIR INTAKE DUCT SEAL (for 2GR-FE) ( See*4 )**
2. **REMOVE FRONT BUMPER ASSEMBLY (for 2AZ-FE)**
   without Fog Light: ( See*1 )
   with Fog Light: ( See*1 )
3. **REMOVE FRONT BUMPER ASSEMBLY (for 2GR-FE)**
   without Fog Light: ( See*5 )
   with Fog Light: ( See*5 )
   with Clearance Sonar System: ( See*5 )
   with Headlight Cleaner System: ( See*5 )

See*4 : 2GR-FE ENGINE MECHANICAL - ENGINE ASSEMBLY - REMOVAL (2006/10 - 2009/06)
See*5 : EXTERIOR - FRONT BUMPER(for 2GR-FE) - REMOVAL (2006/10 - 2009/06)

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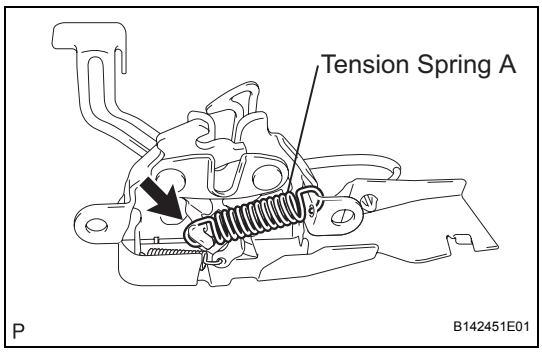
See*6 : HORN - LOW PITCHED HORN(for 2AZ-FE) - REMOVAL (2006/10 - 2009/06)
See*7 : HORN - LOW PITCHED HORN(for 2GR-FE) - REMOVAL (2006/10 - 2009/06)
See*8 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2AZ-FE) - REMOVAL (2006/10 - 2009/06)
See*9 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2GR-FE) - REMOVAL (2006/10 - 2009/06)

4. **REMOVE LOW PITCHED HORN ASSEMBLY (for 2AZ-FE) ( See*6 )**

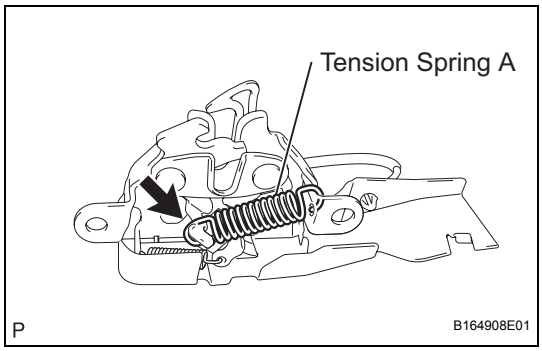
5. **REMOVE LOW PITCHED HORN ASSEMBLY (for 2GR-FE) ( See*7 )**

6. **REMOVE ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2AZ-FE RHD) ( See*8 )** [Corrected]

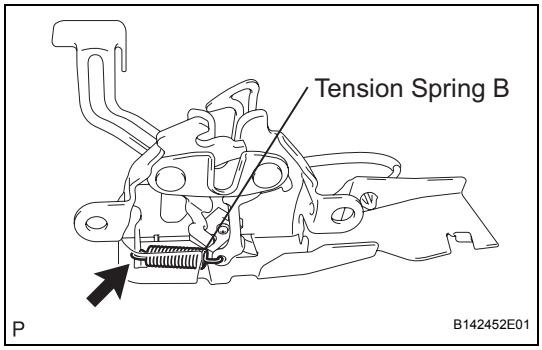
7. **REMOVE ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2GR-FE RHD) ( See*9 )** [Corrected]




8. **REMOVE HOOD LOCK TENSION SPRING A (for 2AZ-FE RHD)**
   (a) Remove the tension spring A.



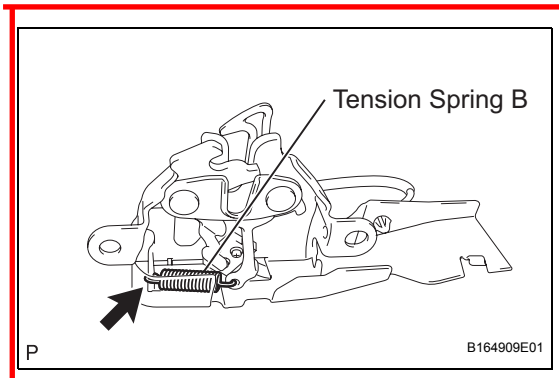

9. **REMOVE HOOD LOCK TENSION SPRING A (for 2GR-FE RHD)**
   (a) Remove the tension spring A.




10. **REMOVE HOOD LOCK TENSION SPRING B (for 2AZ-FE RHD)**
    (a) Remove the tension spring B.

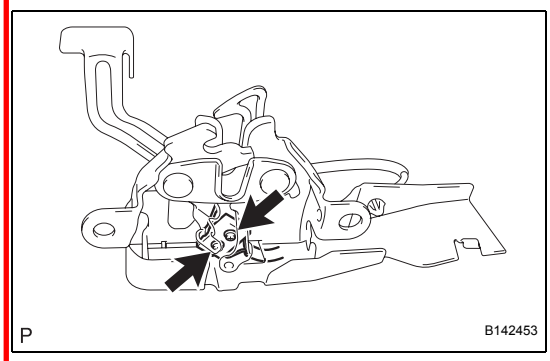
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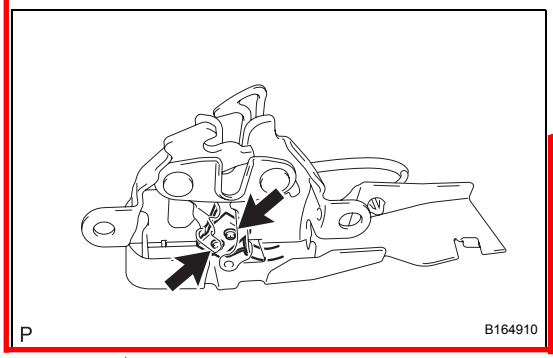

**11. REMOVE HOOD LOCK TENSION SPRING B (for 2GR-FE RHD)**

(a) Remove the tension spring B.




**12. REMOVE ENGINE HOOD COURTESY SWITCH (for 2AZ-FE RHD)**

(a) Remove the 2 screws and the engine hood courtesy switch.




**13. REMOVE ENGINE HOOD COURTESY SWITCH (for 2GR-FE RHD)**

(a) Remove the 2 screws and the engine hood courtesy switch.

[Deleted]

# REMOVAL

(2009/06- )

TD

**1. REMOVE FRONT BUMPER ASSEMBLY (for 2AZ-FE)**

(a) Remove the front bumper assembly ( See*10 ).

**2. REMOVE FRONT BUMPER ASSEMBLY (for 2GR-FE)**

(a) Remove the front bumper assembly ( See*11 ).

**3. REMOVE LOW PITCHED HORN ASSEMBLY (for 2AZ-FE) ( See*12 )**

**4. REMOVE LOW PITCHED HORN ASSEMBLY (for 2GR-FE) ( See*13 )**

[Corrected]

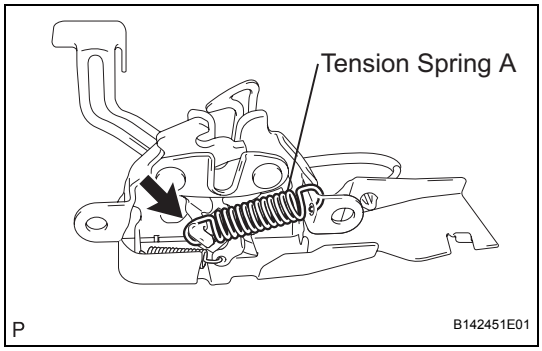
**5. REMOVE ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2AZ-FE RHD) ( See*14 )**

[Corrected]

**6. REMOVE ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2GR-FE RHD) ( See*15 )**

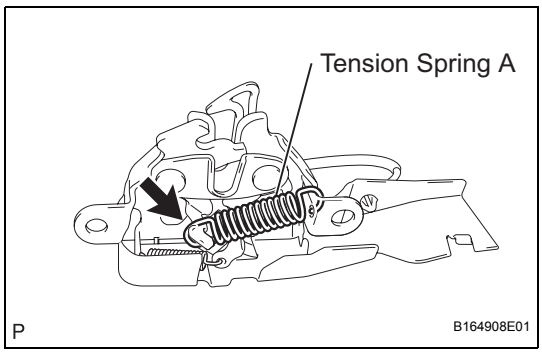
See*10 : EXTERIOR - FRONT BUMPER(for 2AZ-FE) - REMOVAL (2009/06 -)
See*11 : EXTERIOR - FRONT BUMPER(for 2GR-FE) - REMOVAL (2009/06 -)
See*12 : HORN - LOW PITCHED HORN(for 2AZ-FE) - REMOVAL (2009/06 -)
See*13 : HORN - LOW PITCHED HORN(for 2GR-FE) - REMOVAL (2009/06 -)
See*14 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2AZ-FE) - REMOVAL (2009/06 -)
See*15 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2GR-FE) - REMOVAL (2009/06 -)

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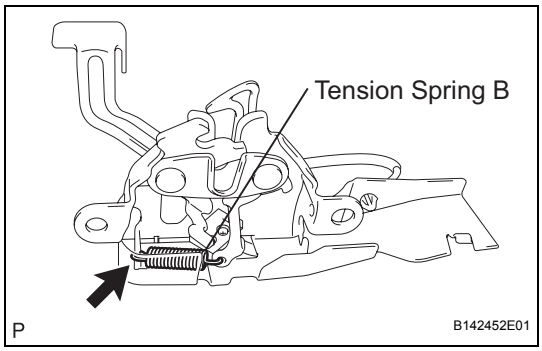

**7. REMOVE HOOD LOCK TENSION SPRING A (for 2AZ-FE RHD)**

(a) Remove the tension spring A.



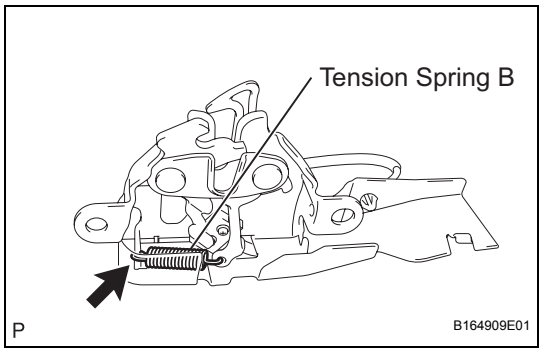

**8. REMOVE HOOD LOCK TENSION SPRING A (for 2GR-FE RHD)**

(a) Remove the tension spring A.



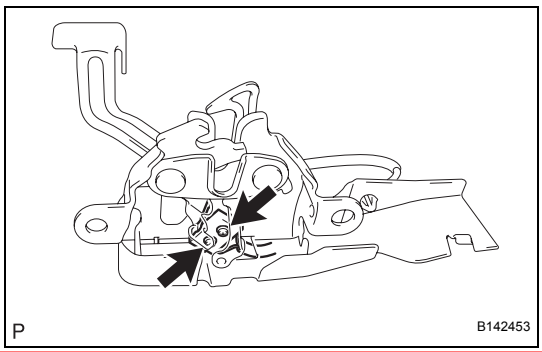

**9. REMOVE HOOD LOCK TENSION SPRING B (for 2AZ-FE RHD)**

(a) Remove the tension spring B.




**10. REMOVE HOOD LOCK TENSION SPRING B (for 2GR-FE RHD)**

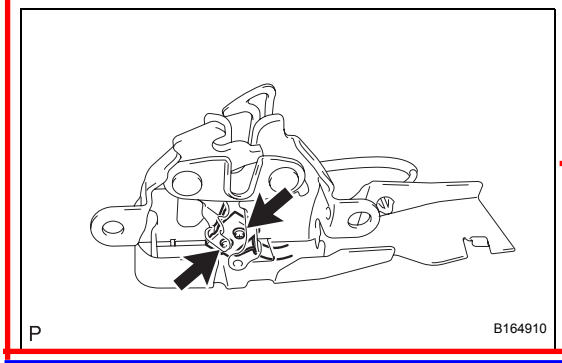
(a) Remove the tension spring B.




**11. REMOVE ENGINE HOOD COURTESY SWITCH (for 2AZ-FE RHD)**

(a) Remove the 2 screws and the engine hood courtesy switch.

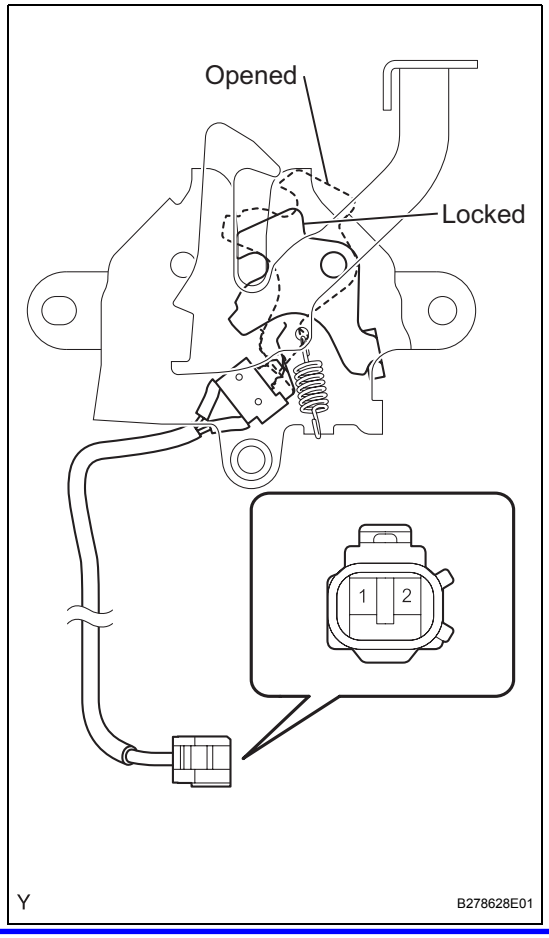
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12. **REMOVE ENGINE HOOD COURTESY SWITCH (for 2GR-FE RHD)**
    (a) Remove the 2 screws and the engine hood courtesy switch.

[Deleted]

# INSPECTION




1. **INSPECT ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY)**
    (a) Measure the resistance according to the value(s) in the table below.
    **Standard resistance**

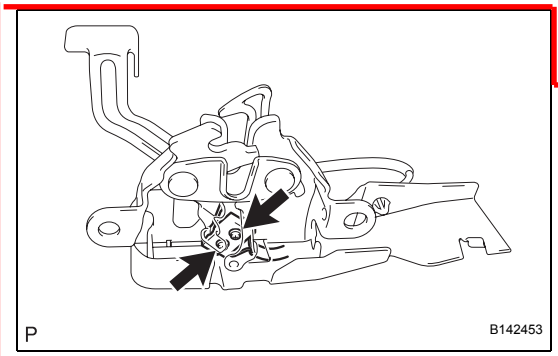
| Tester Connection | Switch Position | Specified Condition |
|---|---|---|
| 1 - 2 | Locked | Below 1 Ω |
| | Opened | 10 kΩ or higher |

If the result is not as specified, replace the engine hood courtesy switch (hood lock assembly).

[Corrected]

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# INSTALLATION

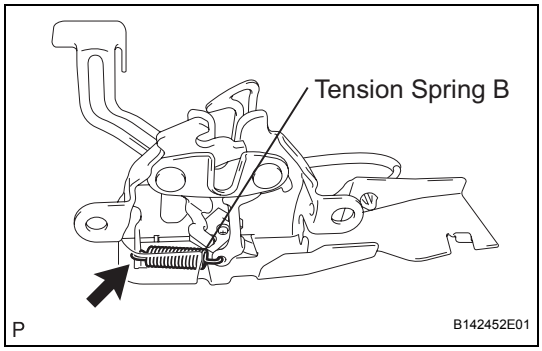


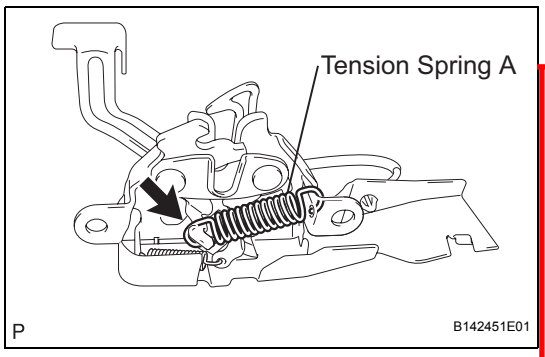

(2006/06-2006/10)

1. **INSTALL ENGINE HOOD COURTESY SWITCH (for RHD)**
    (a) Install the engine hood courtesy switch with the 2 screws.

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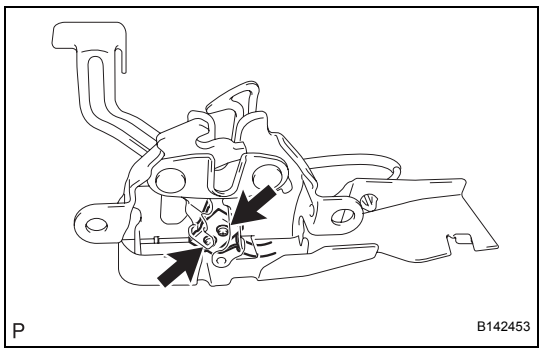


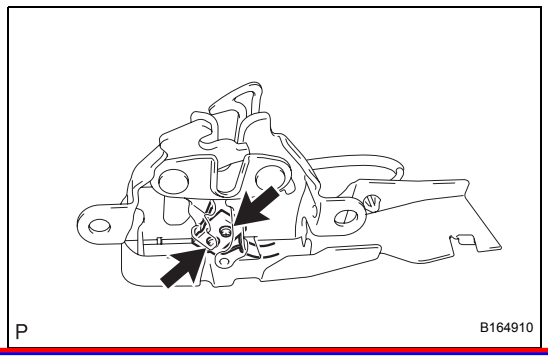




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2. **INSTALL HOOD LOCK TENSION SPRING B (for RHD)**
   (a) Install the tension spring B.

3. **INSTALL HOOD LOCK TENSION SPRING A (for RHD)**
   (a) Install the tension spring A.

4. **INSTALL ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for RHD) (** See*16 **)**

[Corrected]

5. **INSTALL LOW PITCHED HORN ASSEMBLY (** See*17 **)**

6. **INSTALL FRONT BUMPER ASSEMBLY (w/o Fog Light) (** See*18 **)**

7. **INSTALL FRONT BUMPER ASSEMBLY (w/ Fog Light) (** See*18 **)**

8. **VEHICLE PREPARATION FOG LIGHT AIM ADJUSTMENT (** See*19 **)**

9. **PREPARATION FOR FOG LIGHT AIMING (** See*19 **)**

10. **FOG LIGHT AIMING INSPECTION (** See*19 **)**

11. **FOG LIGHT AIMING ADJUSTMENT (** See*19 **)**

## INSTALLATION

(2006/10-2009/06)

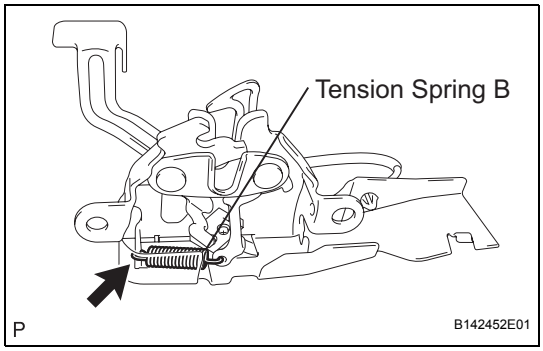
1. **INSTALL ENGINE HOOD COURTESY SWITCH (for 2AZ-FE RHD)**
   (a) Install the engine hood courtesy switch with the 2 screws.

2. **INSTALL ENGINE HOOD COURTESY SWITCH (for 2GR-FE RHD)**
   (a) Install the engine hood courtesy switch with the 2 screws.

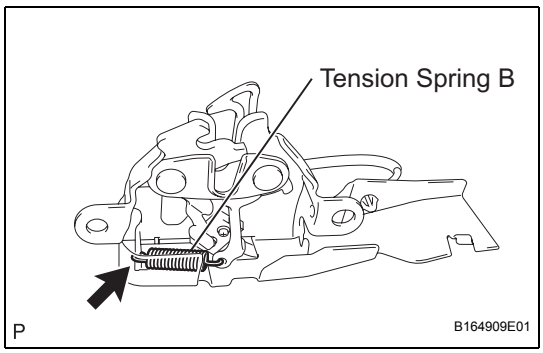
See*16 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY - INSTALLATION (2006/06 - 2006/10)
See*17 : HORN - LOW PITCHED HORN - INSTALLATION (2006/06 - 2006/10)
See*18 : EXTERIOR - FRONT BUMPER(for 2AZ-FE) - INSTALLATION (2006/06 - 2009/06)
See*19 : LIGHTING - FOG LIGHT ASSEMBLY - ADJUSTMENT (2006/06 -)

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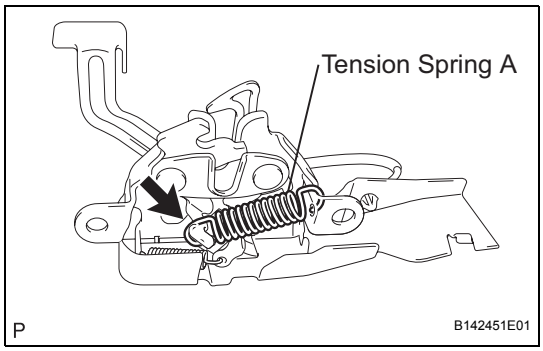
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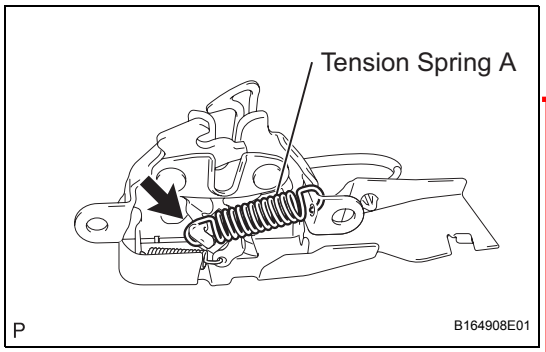

3. **INSTALL HOOD LOCK TENSION SPRING B (for 2AZ-FE RHD)**
   (a) Install the tension spring B.




4. **INSTALL HOOD LOCK TENSION SPRING B (for 2GR-FE RHD)**
   (a) Install the tension spring B.




5. **INSTALL HOOD LOCK TENSION SPRING A (for 2AZ-FE RHD)**
   (a) Install the tension spring A.




6. **INSTALL HOOD LOCK TENSION SPRING A (for 2GR-FE RHD)**
   (a) Install the tension spring A.

7. **INSTALL ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2AZ-FE RHD)** ( See*20 ) [Corrected]

8. **INSTALL ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2GR-FE RHD)** ( See*21 ) [Corrected]

9. **INSTALL LOW PITCHED HORN ASSEMBLY (for 2AZ-FE) (** See*22 **)**

10. **REMOVE LOW PITCHED HORN ASSEMBLY (for 2GR-FE) (** See*23 **)**

11. **INSTALL FRONT BUMPER ASSEMBLY (for 2AZ-FE)**
    without Fog Light: ( See*18 )
    with Fog Light: ( See*18 )

12. **INSTALL FRONT BUMPER ASSEMBLY (for 2GR-FE)**
    without Fog Light: ( See*24 )
    with Fog Light: ( See*24 )

See*20 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2AZ-FE) - INSTALLATION (2006/10 - 2009/06)
See*21 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2GR-FE) - INSTALLATION (2006/10 - 2009/06)
See*22 : HORN - LOW PITCHED HORN(for 2AZ-FE) - INSTALLATION (2006/10 - 2009/06)
See*23 : HORN - LOW PITCHED HORN(for 2GR-FE) - INSTALLATION (2006/10 - 2009/06)

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See*24 : EXTERIOR - FRONT BUMPER(for 2GR-FE) - INSTALLATION (2006/10 - 2009/06)
See*25 : 2GR-FE ENGINE MECHANICAL - ENGINE ASSEMBLY - INSTALLATION (2006/10 - 2009/06)

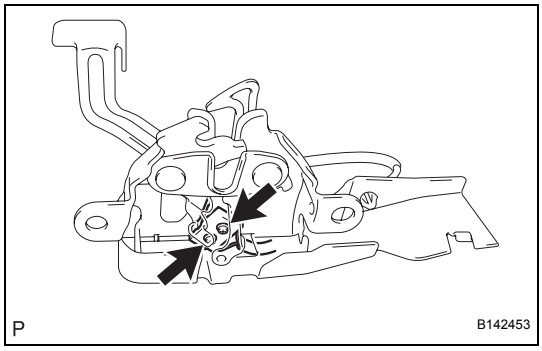
with Clearance Sonar System: ( See*24 )
with Headlight Cleaner System: ( See*24 )

13. **INSTALL COOL AIR INTAKE DUCT SEAL (for 2GR-FE) ( See*25 )**
14. **VEHICLE PREPARATION FOG LIGHT AIM ADJUSTMENT ( See*19 )**
15. **PREPARATION FOR FOG LIGHT AIMING ( See*19 )**
16. **FOG LIGHT AIMING INSPECTION ( See*19 )**
17. **FOG LIGHT AIMING ADJUSTMENT ( See*19 )**

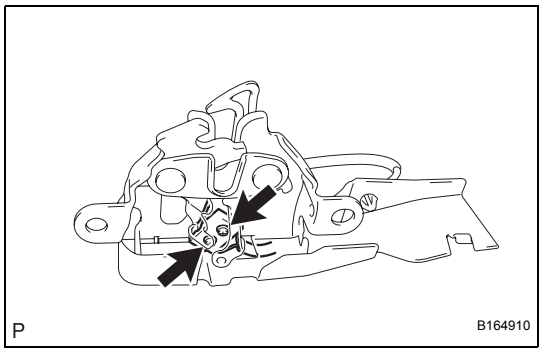
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# INSTALLATION

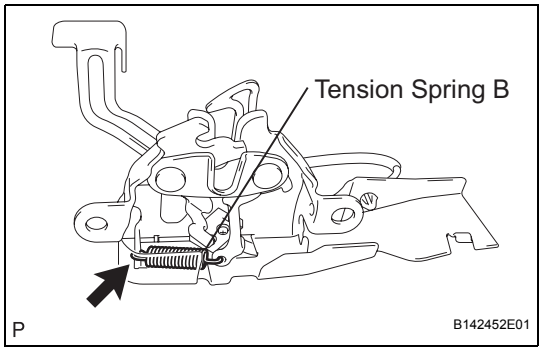
(2009/06- )



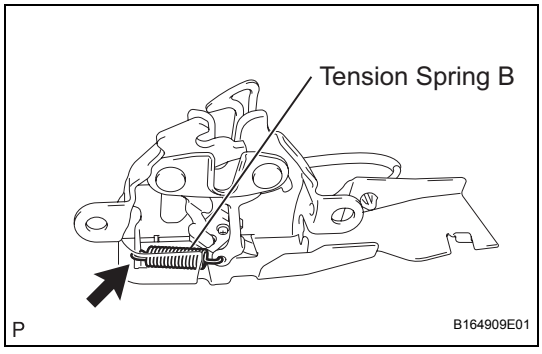

1. **INSTALL ENGINE HOOD COURTESY SWITCH (for 2AZ-FE RHD)**
   (a) Install the engine hood courtesy switch with the 2 screws.




2. **INSTALL ENGINE HOOD COURTESY SWITCH (for 2GR-FE RHD)**
   (a) Install the engine hood courtesy switch with the 2 screws.



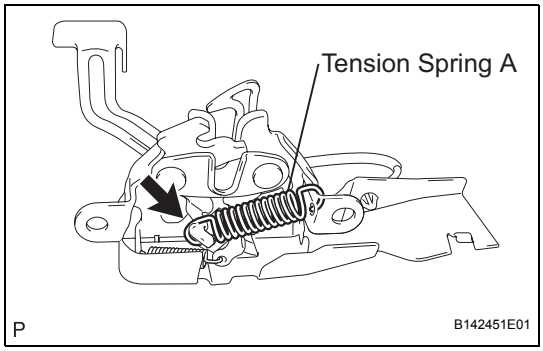

3. **INSTALL HOOD LOCK TENSION SPRING B (for 2AZ-FE RHD)**
   (a) Install the tension spring B.



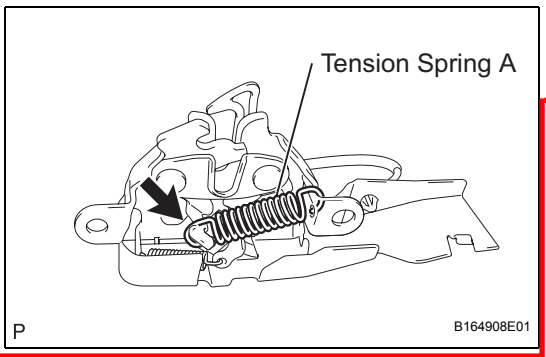

4. **INSTALL HOOD LOCK TENSION SPRING B (for 2GR-FE RHD)**
   (a) Install the tension spring B.

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5. **INSTALL HOOD LOCK TENSION SPRING A (for 2AZ-FE RHD)**
   (a) Install the tension spring A.




6. **INSTALL HOOD LOCK TENSION SPRING A (for 2GR-FE RHD)**
   (a) Install the tension spring A.

[Deleted]

7. **INSTALL ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2AZ-FE RHD)** ( See*26 ) [Corrected]

8. **INSTALL ENGINE HOOD COURTESY SWITCH (HOOD LOCK ASSEMBLY) (for 2GR-FE RHD)** ( See*27 ) [Corrected]

9. **INSTALL LOW PITCHED HORN ASSEMBLY (for 2AZ-FE) ( See*28 )**

10. **INSTALL LOW PITCHED HORN ASSEMBLY (for 2GR-FE) ( See*29 )**

11. **INSTALL FRONT BUMPER ASSEMBLY (for 2AZ-FE)**
    (a) Install the front bumper assembly ( See*30 ).

12. **INSTALL FRONT BUMPER ASSEMBLY (for 2GR-FE)**
    (a) Install the front bumper assembly ( See*31 ).

See*26 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2AZ-FE) - INSTALLATION (2009/06 -)
See*27 : ENGINE HOOD / DOOR - HOOD LOCK CONTORL CABLE ASSEMBLY(for 2GR-FE) - INSTALLATION (2009/06 -)
See*28 : HORN - LOW PITCHED HORN(for 2AZ-FE) - INSTALLATION (2009/06 -)
See*29 : HORN - LOW PITCHED HORN(for 2GR-FE) - INSTALLATION (2009/06 -)
See*30 : EXTERIOR - FRONT BUMPER(for 2AZ-FE) - INSTALLATION (2009/06 -)
See*31 : EXTERIOR - FRONT BUMPER(for 2GR-FE) - INSTALLATION (2009/06 -)

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