

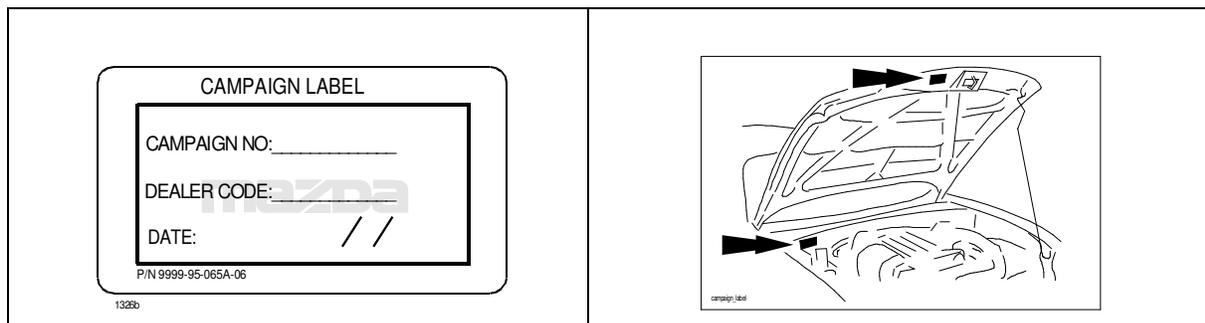
## A. VEHICLE INSPECTION PROCEDURE

1. Verify that the vehicle is within the following range:

Model Year	VIN Range	Build Date Range
2004 RX-8	JM1 FE**** 40 100053 – 138902	From April 10, 2003 through May 7, 2004

- If the vehicle is within the above range, proceed to Step 2.
  - If the vehicle is not within the above range, return vehicle to the customer or inventory.
2. Perform a Warranty Vehicle Inquiry using your eMDCS System and inspect vehicle for Campaign Labels **Recall 1117E** attached to the vehicle's hood or bulkhead. Refer to eMDCS System - Warranty Vehicle Inquiry Results table below.

**NOTE:** Be sure to verify Recall number as the vehicle may have multiple Recall labels.



### eMDCS System - Warranty Vehicle Inquiry Results:

If eMDCS displays:	Campaign Label is:	Action to perform:
RECALL 1117E OPEN	Present	Contact the Warranty Hotline at (877) 727-6626 option 3 to update vehicle history.
	Not present	Proceed to "B. REPAIR PROCEDURE".
RECALL 1117E CLOSED	Present	Return vehicle to inventory or customer.
	Not present	Complete a label and apply to vehicle's hood or bulkhead.
RECALL 1117E is not displayed	Does not apply	Recall does not apply to this vehicle. Return vehicle to inventory or customer.

## B. REPAIR PROCEDURE

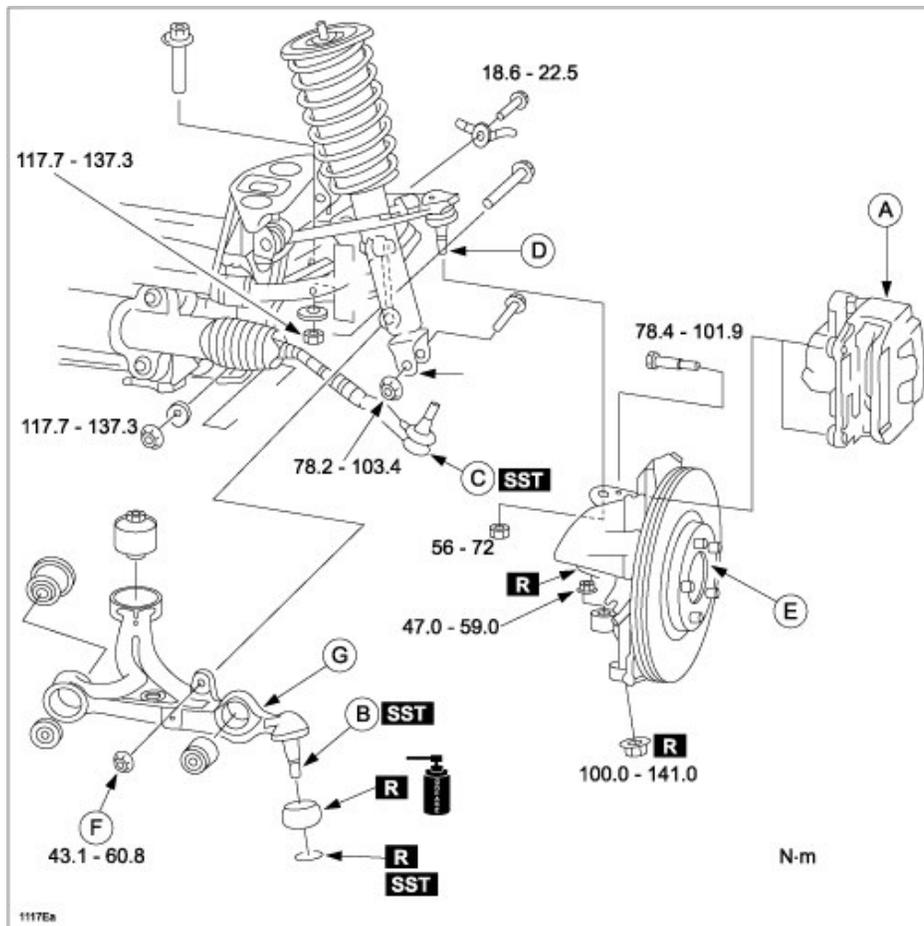
### CAUTION:

- Performing the following procedures without first removing the ABS wheel-speed sensor may possibly cause an open circuit in the wiring harness if it is pulled by mistake. Before performing the following procedures, remove the ABS wheel-speed sensor (axle side) and fix it to an appropriate place where the sensor will not be pulled while servicing the vehicle.
- Be sure to use SST when disconnecting the ball joint from the steering knuckle.

**WARNING:** **DO NOT hit the steering knuckle when removing the ball joint.** Otherwise, the collar which is pressed into the steering knuckle will be damaged.

1. Disconnect the negative battery cable.
2. Lift the vehicle up.
3. Remove the front wheels (both-sides).
4. Remove the front lower arms (left side shown).

**NOTE:** For SST, use OTC6287 Ball Joint Separator available on Mazda Estore.

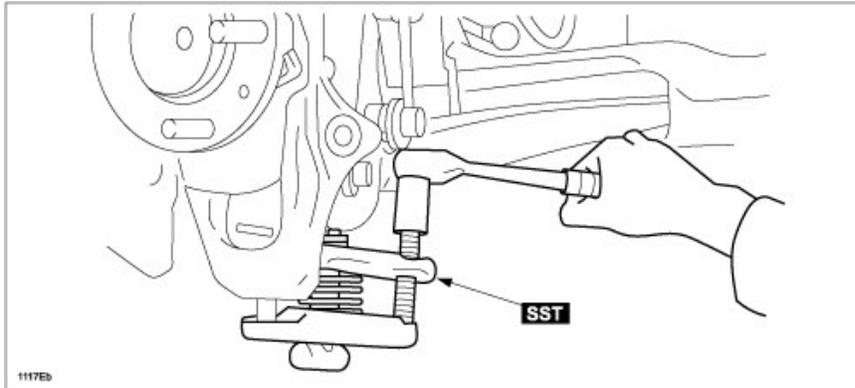


- a. Remove the caliper and mounting support (A).

**NOTE:** Remove the caliper and mounting support from the steering knuckle and suspend it with a cable in a location out of the way.

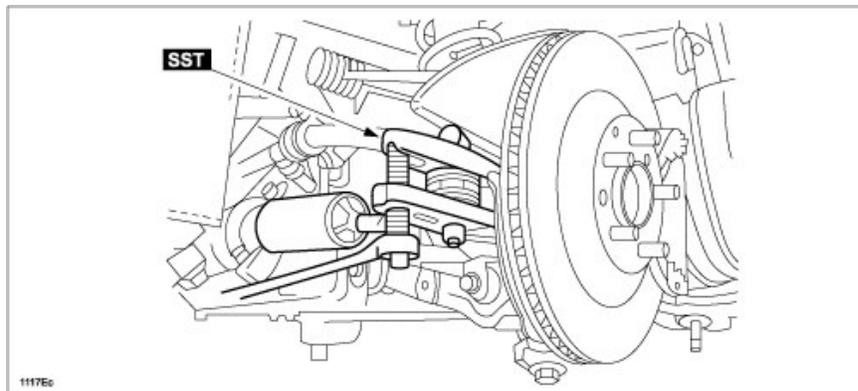
- b. Remove the front lower arm ball joint (B).

**NOTE:** Disconnect the front lower arm ball joint from the steering knuckle using the SST. When removing the front lower arm ball joint, the steering knuckle bushing may also come off. If it comes off, replace the steering knuckle.



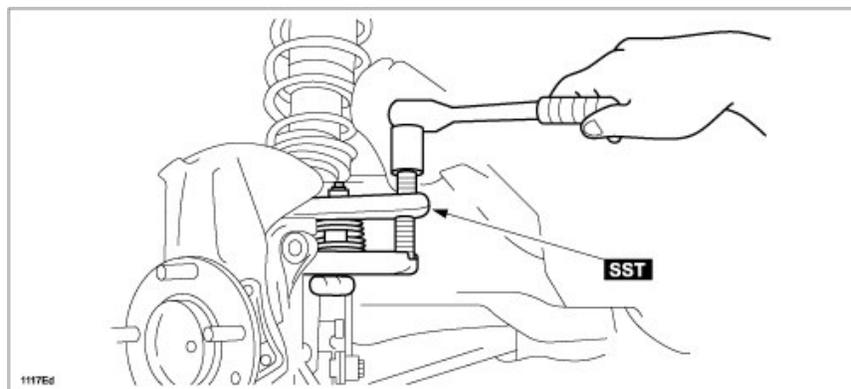
- c. Remove the tie-rod end (C).

- 1) Remove the outer ball joint locknut.
- 2) Detach the outer ball joint from the steering knuckle using the SST.



- d. Remove the front upper arm ball joint (D).

- 1) Loosen the bolts on the vehicle side.
- 2) Disconnect the upper arm ball joint using the SST.

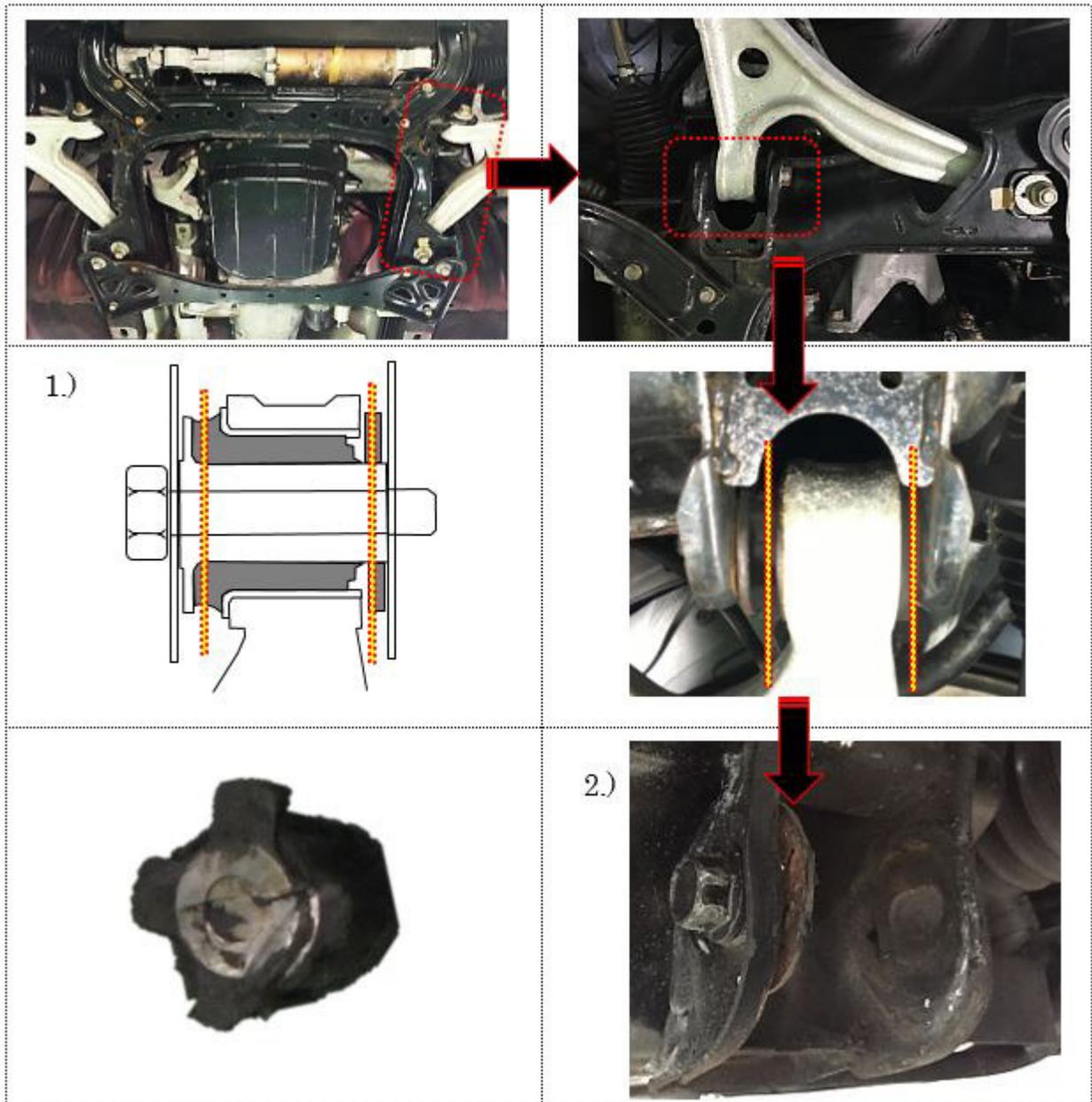


- e. Remove the front hub, steering knuckle component (E).
- f. Remove the stabilizer control link nut (front lower arm side) (F).

**NOTE:** In case that the lower arm bolt is unable to remove due to severe rust. Please use the following special removal method to remove the lower arm from cross member. Do not attempt to hit the bolt by hammer etc. since it may cause deformation of cross member.

**Special removal method**

- 1) Use air assist saw (Sawzall) to cut the bush rubber, collar and bolt.
- 2) Remove the part of the bush and bolt which remains at cross member side by screw driver, file or grinder.



- g. Remove the front lower arm (G), and install the modified one.
5. Install in the reverse order of removal.
6. Inspect the front wheel alignment according to the instructions on MGSS "FRONT WHEEL ALIGNMENT".

### C. CAMPAIGN LABEL INSTALLATION

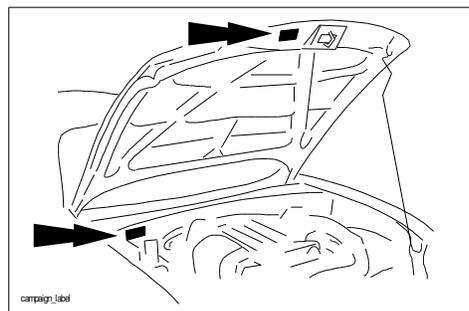
1. Fill out a blue "Campaign Label" (9999-95-065A-06) with Campaign No: "1117E", your dealer code, today's date.

CAMPAIGN LABEL	
CAMPAIGN NO:	_____
DEALER CODE:	_____
DATE:	/  /

P/N 9999-95-065A-06

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2. Affix it to the hood or bulkhead as shown:



3. Return the vehicle to customer.