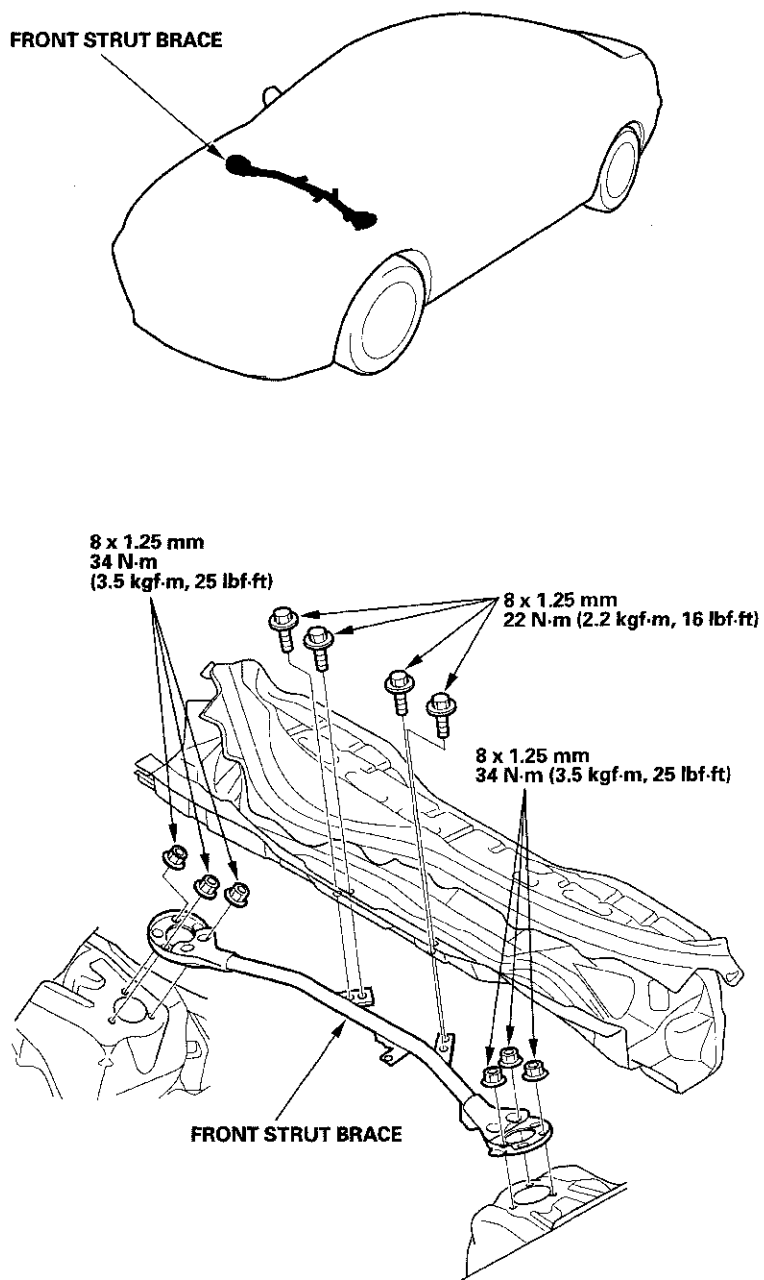




# Frame

## Frame Brace Replacement



# Frame

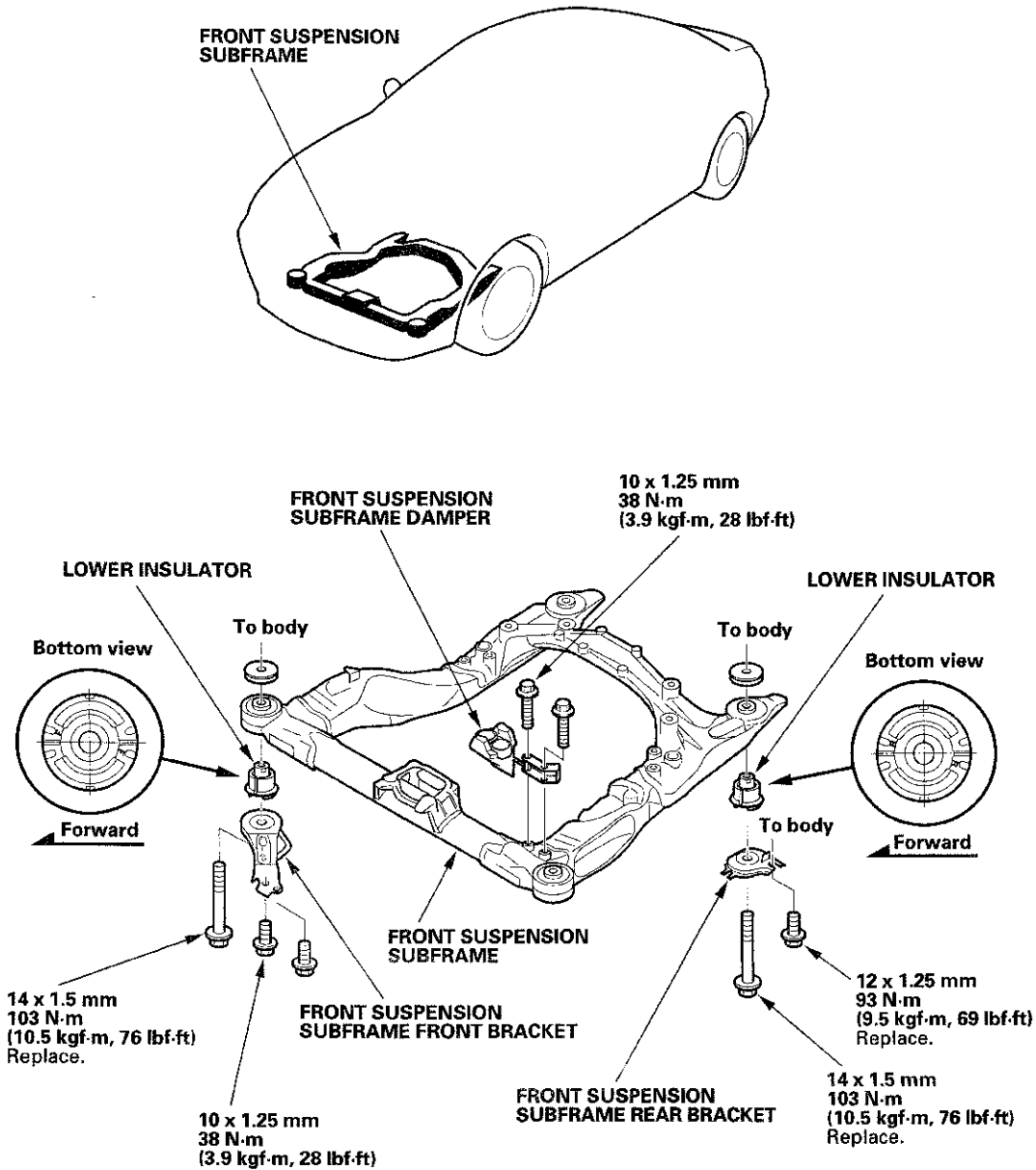
## Subframe Replacement

### Special Tools Required

Subframe alignment pin 070AG-SJAA10S

### Front Subframe Torque

After removing the subframe mounting bolts and front suspension subframe rear bracket mounting bolts, be sure to replace them with new ones.



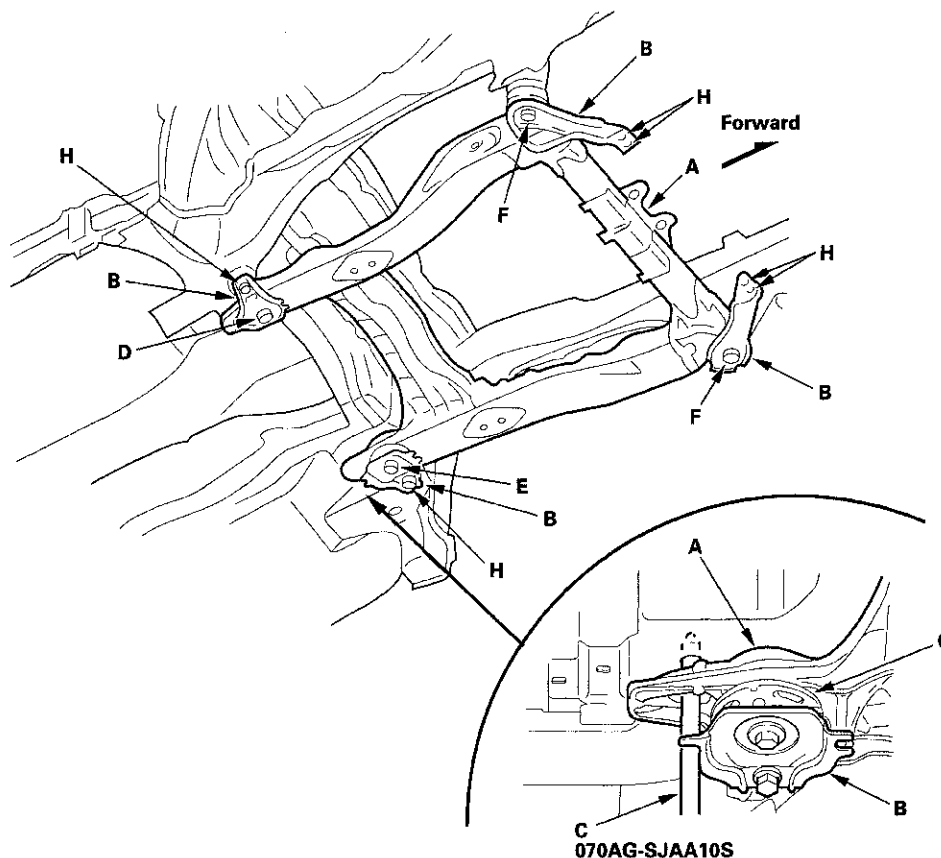


## Front Subframe Alignment

NOTE: Using the special tool, align the suspension subframe using the following sequence.

1. Align the front suspension subframe (A).

- 1 Lift the front suspension subframe up to the body, and loosely install new subframe mounting bolts and the brackets (B).
- 2 Insert the alignment pin (C) into the alignment hole in the right rear of the subframe, then align the subframe with the body.
- 3 Loosely tighten the subframe mounting bolt (D) at the right rear.
- 4 Insert the alignment pin into the positioning hole in the left rear of the subframe, and then align the subframe with the body.
- 5 Loosely tighten the subframe mounting bolt (E) at the left rear.
- 6 Loosely tighten both front subframe mounting bolts (F).
- 7 Insert the alignment pin into the positioning hole in the right rear of the subframe.
- 8 Loosen the subframe mounting bolt at the right rear, and fit the lower insulator (G), in the subframe, then tighten the mounting bolt to the specified torque.
- 9 Tighten the remaining subframe mounting bolts and the bracket mounting bolts (H) to the specified torque.



2. After reinstalling all removed parts, check and adjust the front wheel alignment (see page 18-5).

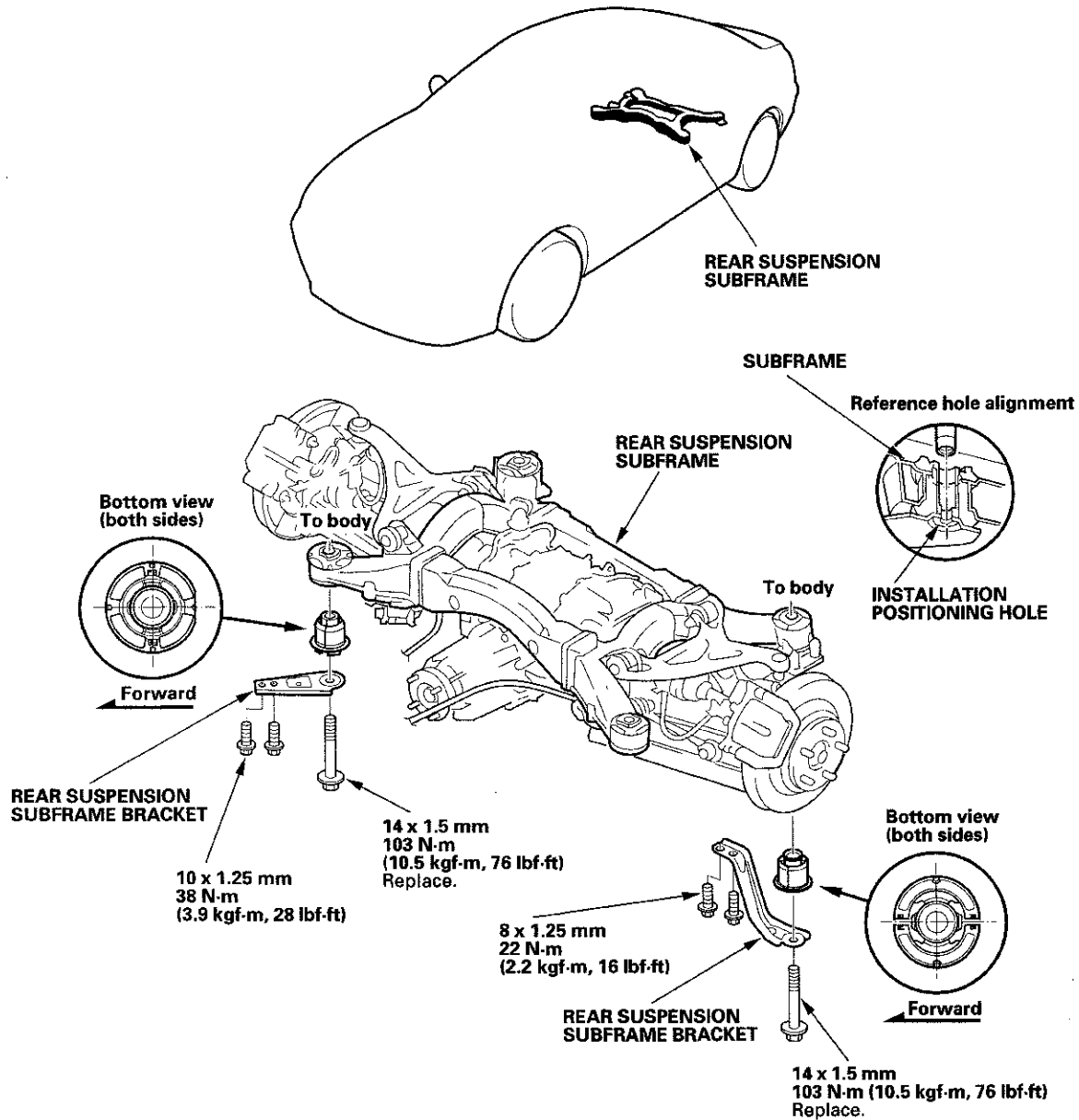
(cont'd)

# Frame

## Subframe Replacement (cont'd)

### Rear Subframe Torque

After removing the subframe mounting bolts, be sure to replace them with new ones.





# Frame

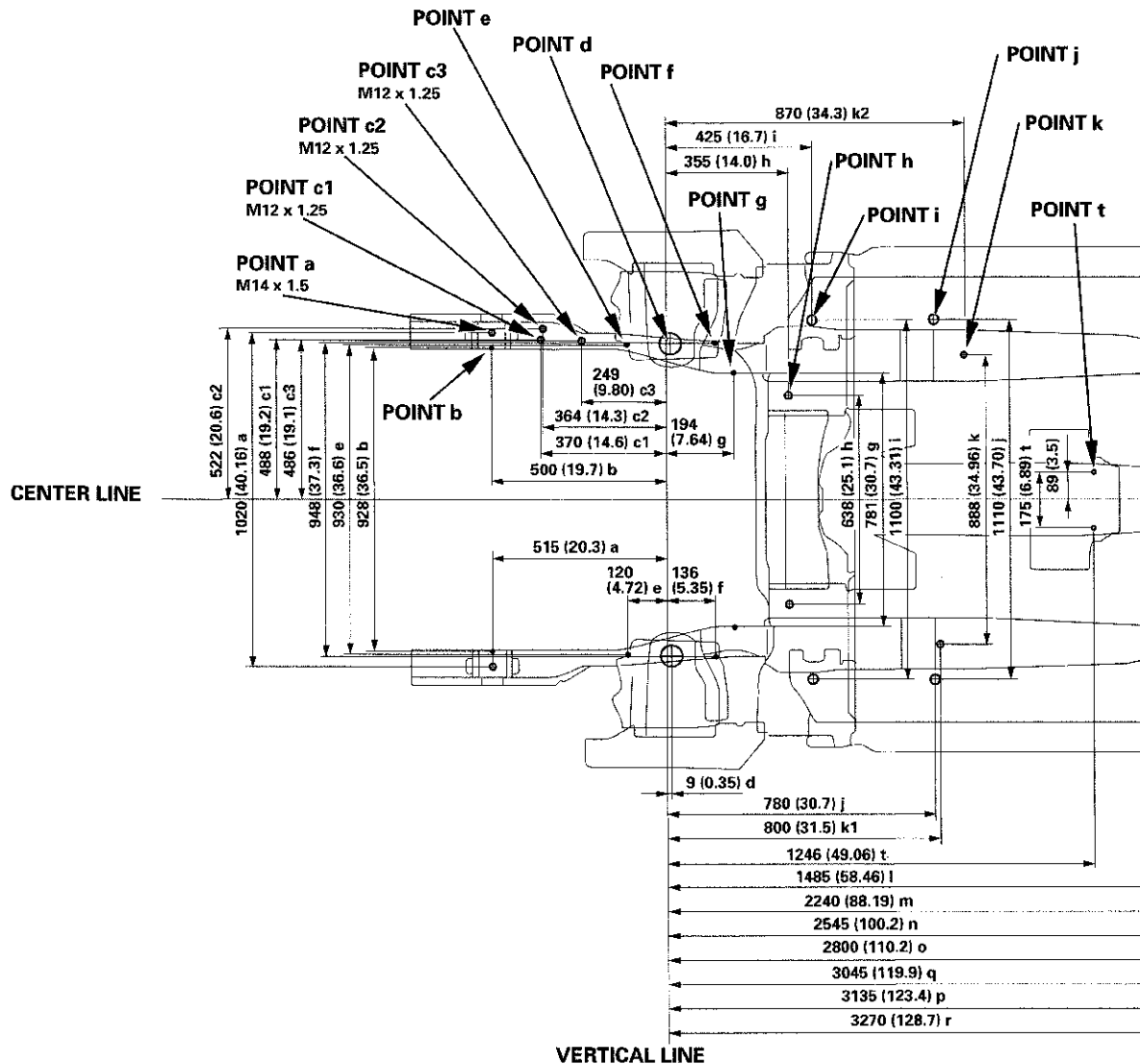
## Frame Repair Chart

### Top View

Unit: mm (in)

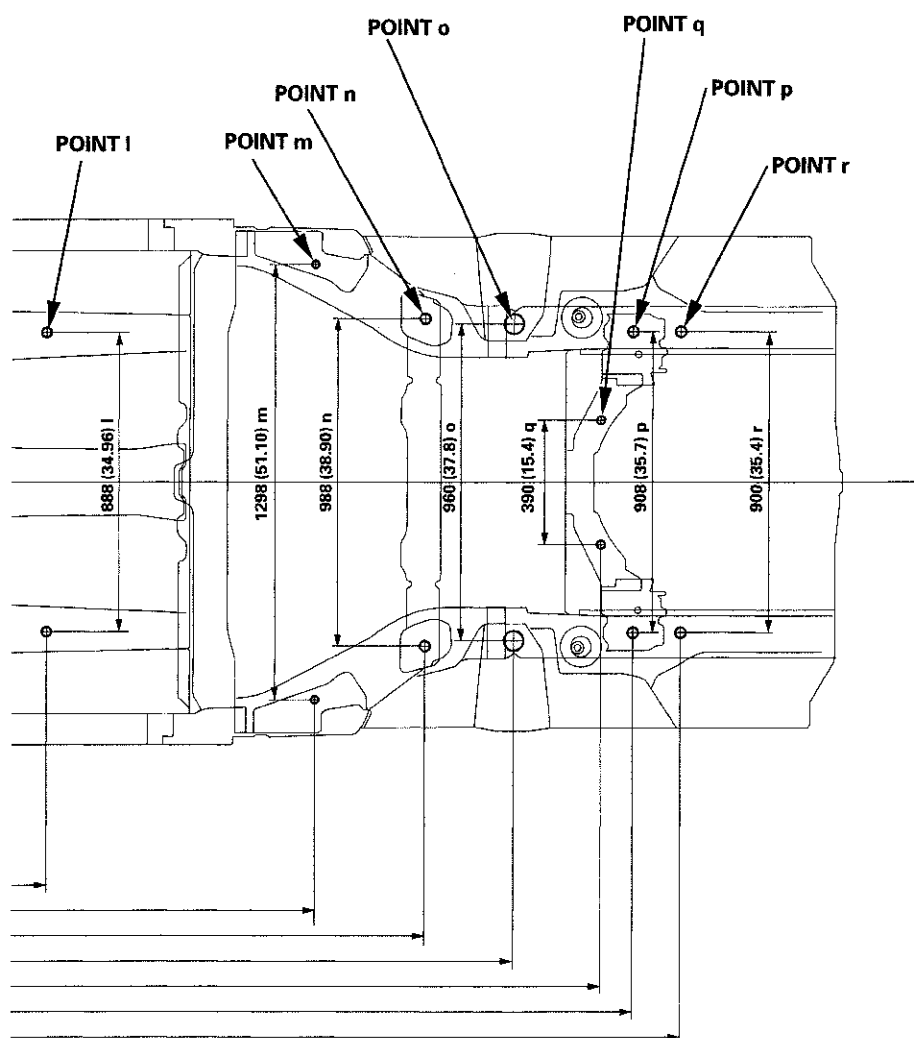
Ø: Inner diameter

|    |                                             |    |                                     |
|----|---------------------------------------------|----|-------------------------------------|
| a  | For front subframe Ø16 (0.63)               | g  | Locating hole Ø15 (0.59)            |
| b  | Locating hole Ø25 (0.98)                    | h  | For front subframe Ø16 (0.63)       |
| c1 | For engine side mount Ø13 (0.51) right side | i  | Locating hole Ø25 (0.98)            |
| c2 | For engine side mount Ø15 (0.59) right side | j  | Locating hole Ø25 (0.98)            |
| c3 | For engine side mount Ø15 (0.59) right side | k1 | Locating hole Ø15 (0.59) left side  |
| d  | Front damper center Ø50 (1.97)              | k2 | Locating hole Ø15 (0.59) right side |
| e  | For upper arm Ø11 (0.43)                    | t  | For CBS mount Ø11 (0.43)            |
| f  | For upper arm Ø11 (0.43)                    |    |                                     |





- l** Locating hole  $\varnothing 25$  (0.98)
- m** Locating hole  $\varnothing 20$  (0.79)
- n** For rear subframe  $\varnothing 26.1$  (1.03)
- o** Rear damper center  $\varnothing 59.5$  (2.34)
- p** For rear subframe  $\varnothing 26.1$  (1.03)
- q** Locating hole  $\varnothing 20$  (0.79)
- r** Locating hole  $\varnothing 25$  (0.98)



(cont'd)

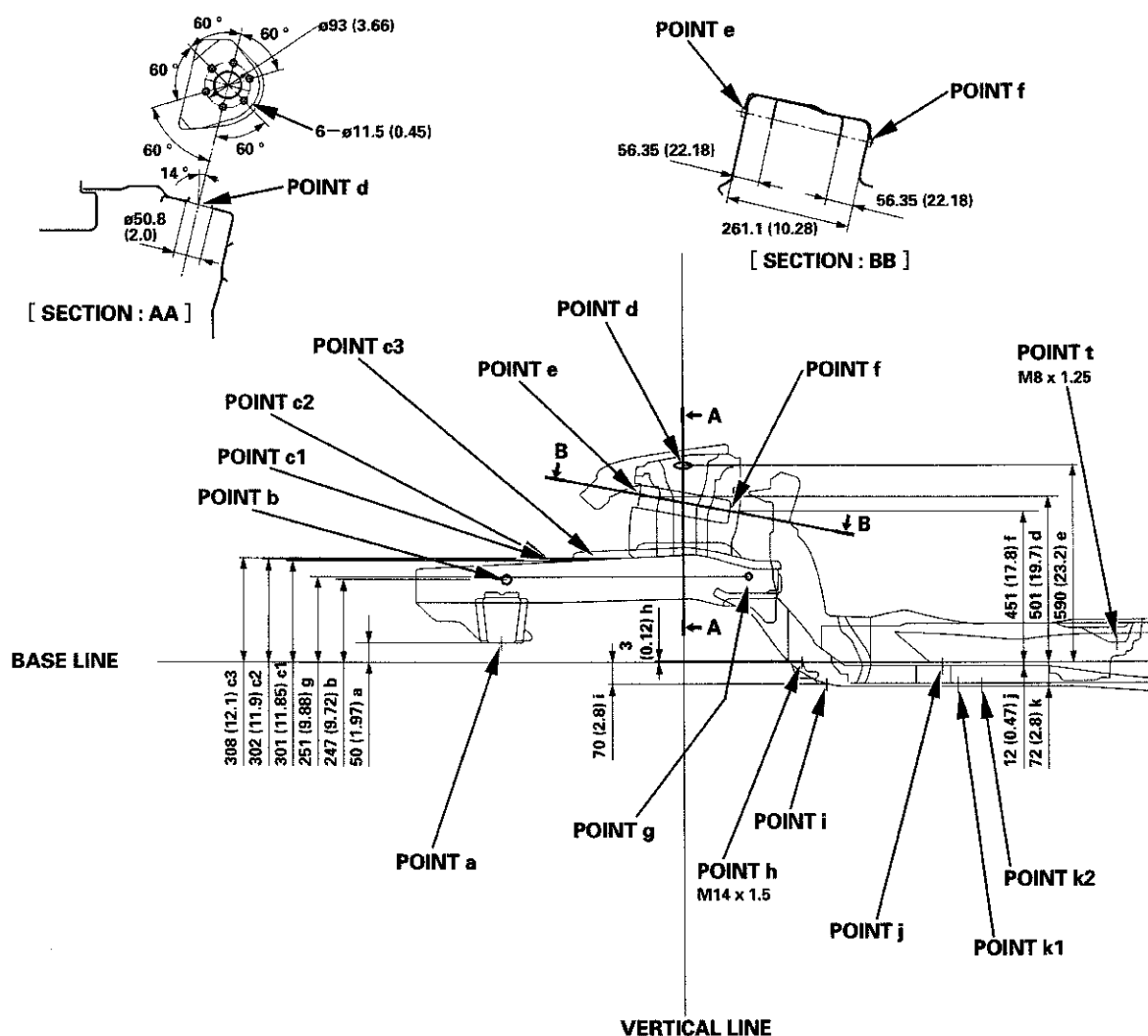
# Frame

## Frame Repair Chart (cont'd)

### Side View

Unit: mm (in)  
 ø: Inner diameter

|    |                                             |    |                                     |
|----|---------------------------------------------|----|-------------------------------------|
| a  | For front subframe ø16 (0.63)               | g  | Locating hole ø15 (0.59)            |
| b  | Locating hole ø25 (0.98)                    | h  | For front subframe ø16 (0.63)       |
| c1 | For engine side mount ø13 (0.51) right side | i  | Locating hole ø25 (0.98)            |
| c2 | For engine side mount ø15 (0.59) right side | j  | Locating hole ø25 (0.98)            |
| c3 | For engine side mount ø15 (0.59) right side | k1 | Locating hole ø15 (0.59) left side  |
| d  | Front damper center ø50 (1.97)              | k2 | Locating hole ø15 (0.59) right side |
| e  | For upper arm ø11 (0.43)                    | t  | For CBS mount ø11 (0.43)            |
| f  | For upper arm ø11 (0.43)                    |    |                                     |





- l Locating hole  $\varnothing 25$  (0.98)
- m Locating hole  $\varnothing 20$  (0.79)
- n For rear subframe  $\varnothing 26.1$  (1.03)
- o Rear damper center  $\varnothing 59.5$  (2.34)
- p For rear subframe  $\varnothing 26.1$  (1.03)
- q Locating hole  $\varnothing 20$  (0.79)
- r Locating hole  $\varnothing 25$  (0.98)

