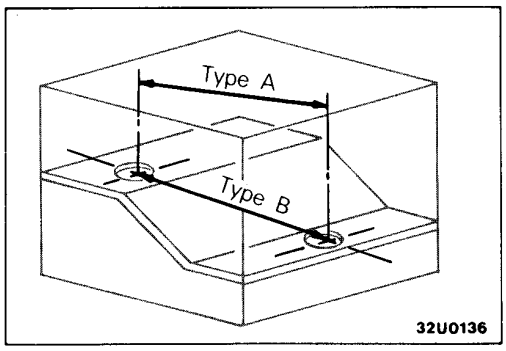
2 BODY DIMENSIONS



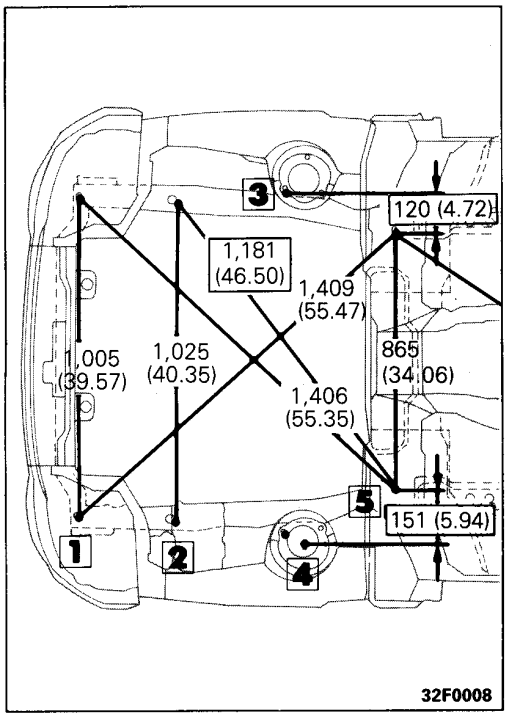
BODY DIMENSIONS AND MEASUREMENT METHODS

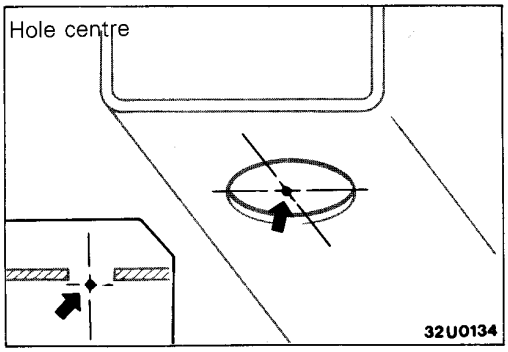
HOW BODY DIMENSIONS ARE INDICATED

1. Type A (Projected dimensions)
   These are the dimensions measured when the measurement points are projected into the reference plane, and are the reference dimensions used for body alterations.
2. Type B (Actual-measurement dimensions)
   These dimensions indicate the actual linear distance between measurement points, and are the reference dimensions for use if a tracking gauge is used for measurements.
3. The units given for the dimensions of both types (A and B) are mm (in.).

INDICATION OF REFERENCE DIMENSIONS

Dimension surrounded by □ means it is the same dimension as in a relative position.

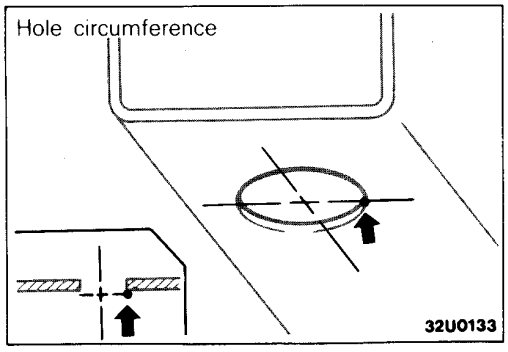




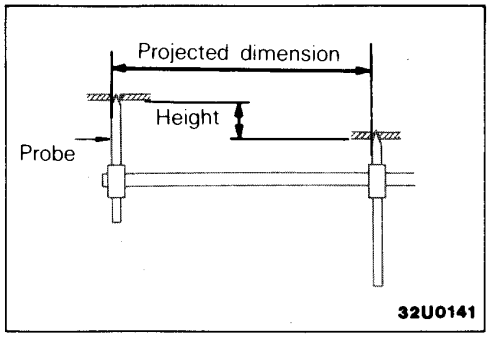
MEASUREMENT POINTS

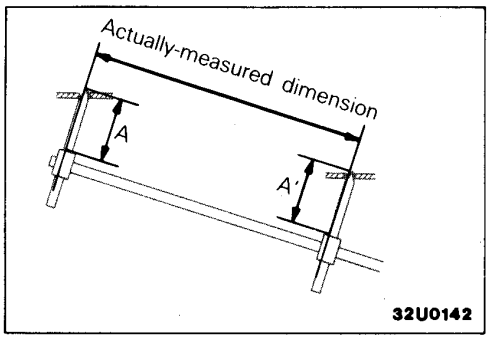
Measurement points are used to indicate the following:

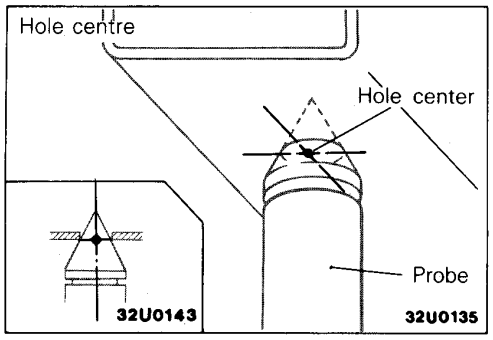
1. If a measurement is to be made at a hole center, the point of the surface from which the measuring instrument is applied is the measurement point.

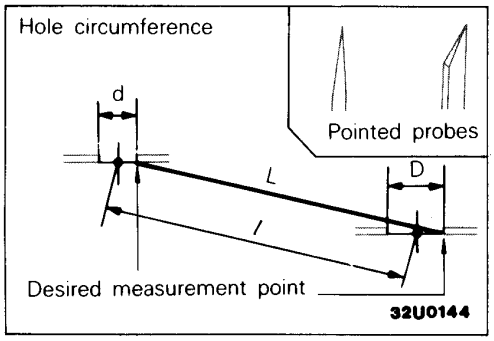


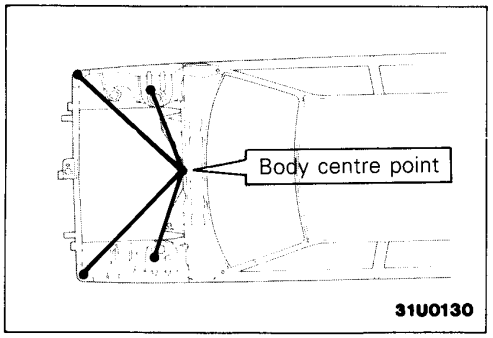
2. If a measurement is to be made at the circumference of a hole, the point of the hole circumference of the surface from which the measuring instrument is applied is the measurement point.











MEASUREMENT METHODS

USING A TRACKING GAUGE

NOTE
Use a tracking gauge without looseness between gauge body and probes.

1. TYPE A (PROJECTED DIMENSIONS)

If the length of the tracking gauge probes are adjustable, make the measurement by lengthening one probe by the amount equivalent to the difference in height of the two surfaces.

2. TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)

Measure by first adjusting both probes to the same length (A = A').

3. IF HOLE DIAMETERS ARE THE SAME AND THE PROBES ARE CONICAL

For both Type A and Type B, insert the probes into the holes, and then make the measurement. This method of measurement should be used if the diameters of the holes in the location to be measured are the same.

4. IF HOLE DIAMETERS ARE DIFFERENT, OR THE PROBES ARE POINTED

Because measurement at the hole centres is impossible, the circumferences must be used instead.

HOW TO DETERMINE DIMENSIONS

Desired dimensions : $L = l + \frac{D - d}{2}$

Example : mm (in.)

Reference dimensions : l = 600 (23.6)
Measured hole diameters : D = 20ø (0.79),
d = 10ø (0.39)

Desired dimensions :

$$L = 600\ (23.6) + \frac{20ø\ (0.79) - 10ø\ (0.39)}{2}$$

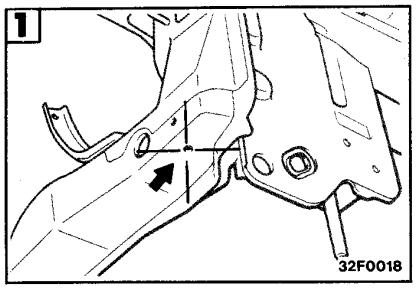
$$= 605\ (23.8)$$

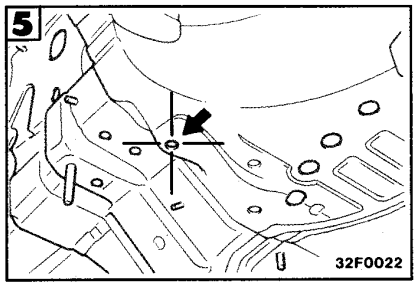
BODY CENTRE POINTS

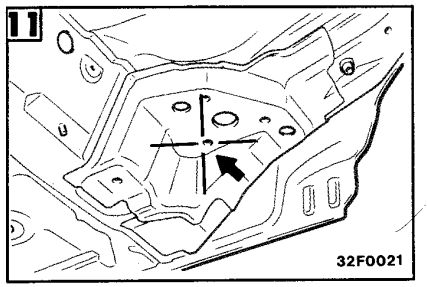
When measuring locations that should be symmetrical left and right and there are no specific instructions with regard to measurements in "Body Dimensions", the body centre points should be used to confirm that the left and right measurements from these points are the same. One body centre point is specified for the front of the body and another is specified for the rear.

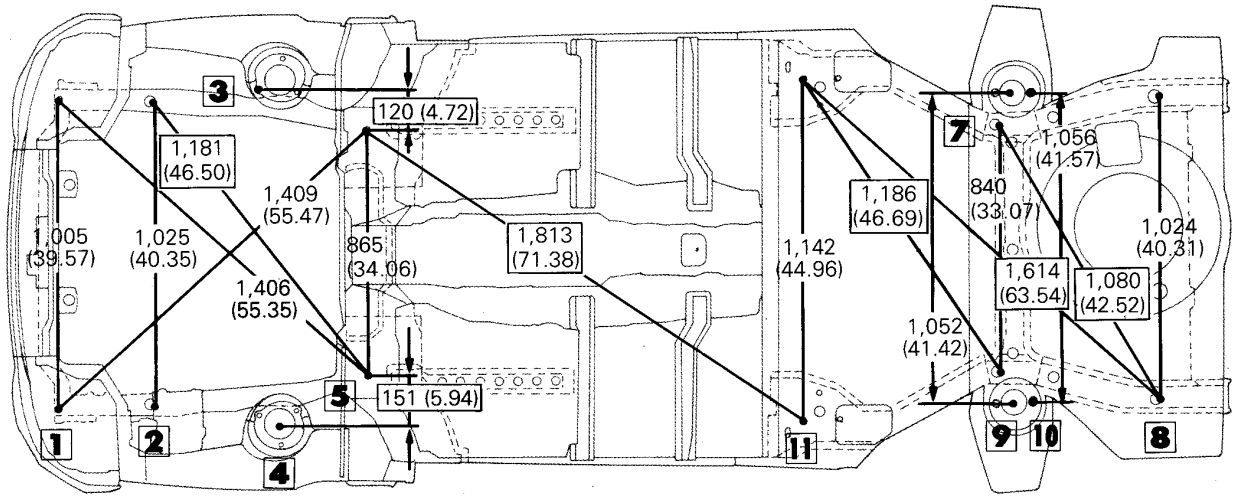
2

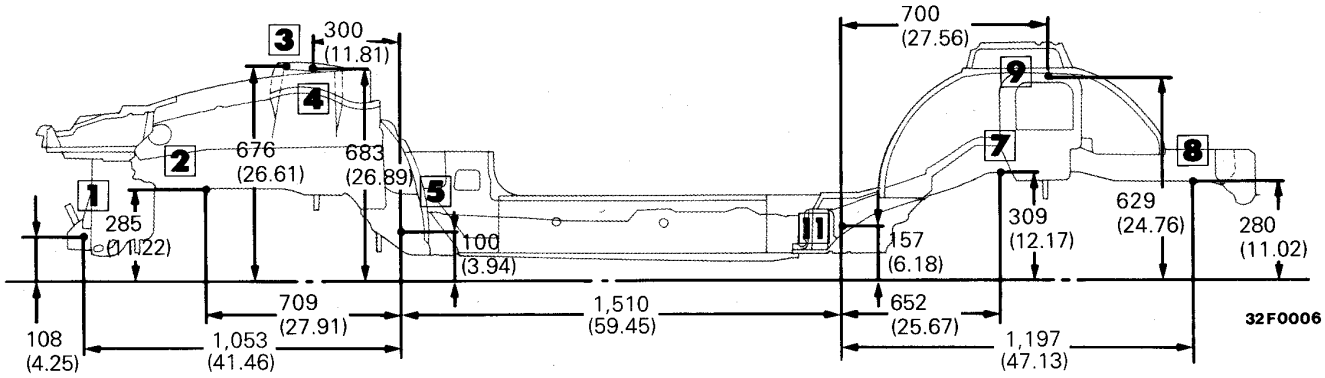
TYPE A (PROJECTED DIMENSIONS)









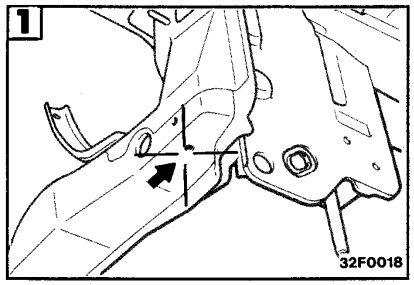


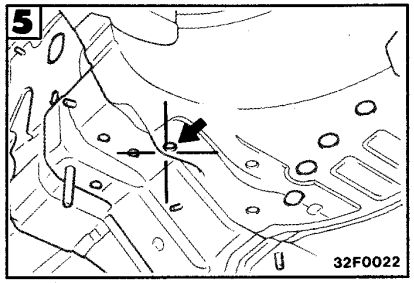
mm (in.)

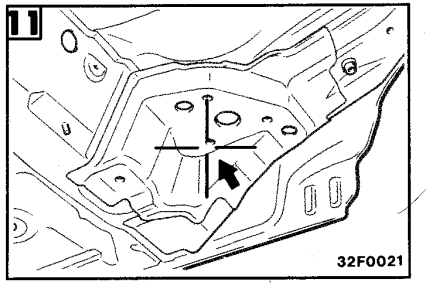
No.	Measurement points	Diameters
1	Centre of air dam mounting hole	7 mm (0.28 in.)
*2	Rear of front sidemember locating hole	25 mm (0.98 in.)
3	Centre of front strut mounting hole	11 mm (0.43 in.)
4	Centre of strut insulator	—
*5	Centre of suspension crossmember mounting hole	15 mm (0.59 in.)
7	Rear of rear floor crossmember water drain hole	24 mm (0.94 in.)
*8	Rear of rear floor sidemember locating hole	35 mm (1.38 in.)
9	Centre of rear spring housing hole	—
10	Centre of shock absorber mounting hole	11 mm (0.43 in.)
*11	Centre of crossmember mounting hole	15 mm (0.59 in.)

NOTE The *mark in the No. column indicates the frame centering gauge mounting positions.

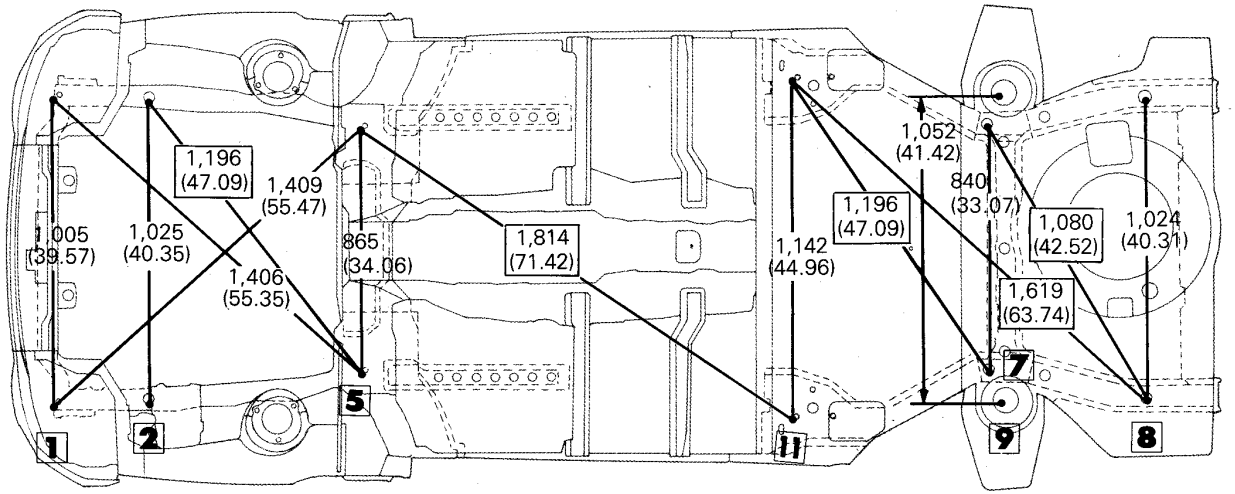
TYPE B (ACTUAL-MEASUREMENT DIMENSIONS)





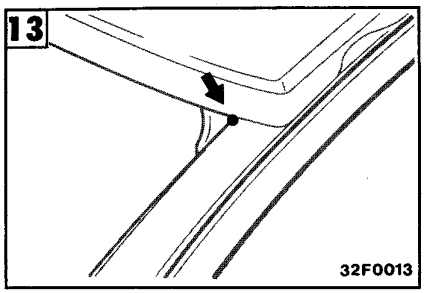


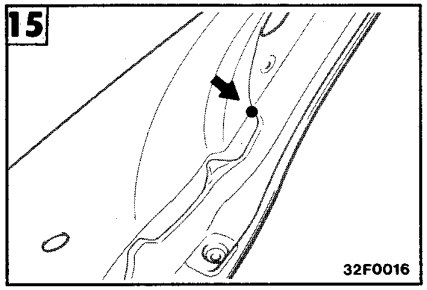
UNDER BODY

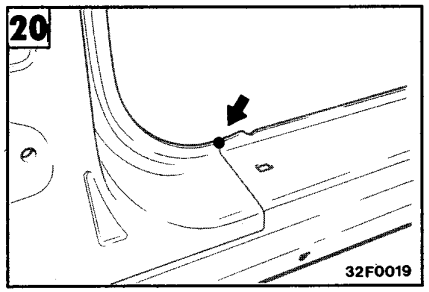


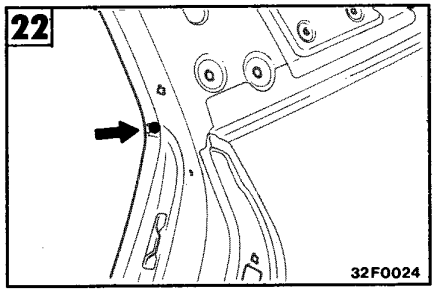
mm (in.)

No.	Measurement points	Diameters	No.	Measurement points	Diameters
1	Centre of air dam mounting hole	7 mm (0.28 in.)	8	Rear of rear floor sidemember locating hole	35 mm (1.38 in.)
2	Rear of front sidemember locating hole	25 mm (0.98 in.)	9	Centre of rear spring housing hole	—
5	Centre of suspension crossmember mounting hole	15 mm (0.59 in.)	11	Centre of crossmember mounting hole	15 mm (0.59 in.)
7	Rear of rear floor crossmember water drain hole	24 mm (0.94 in.)			

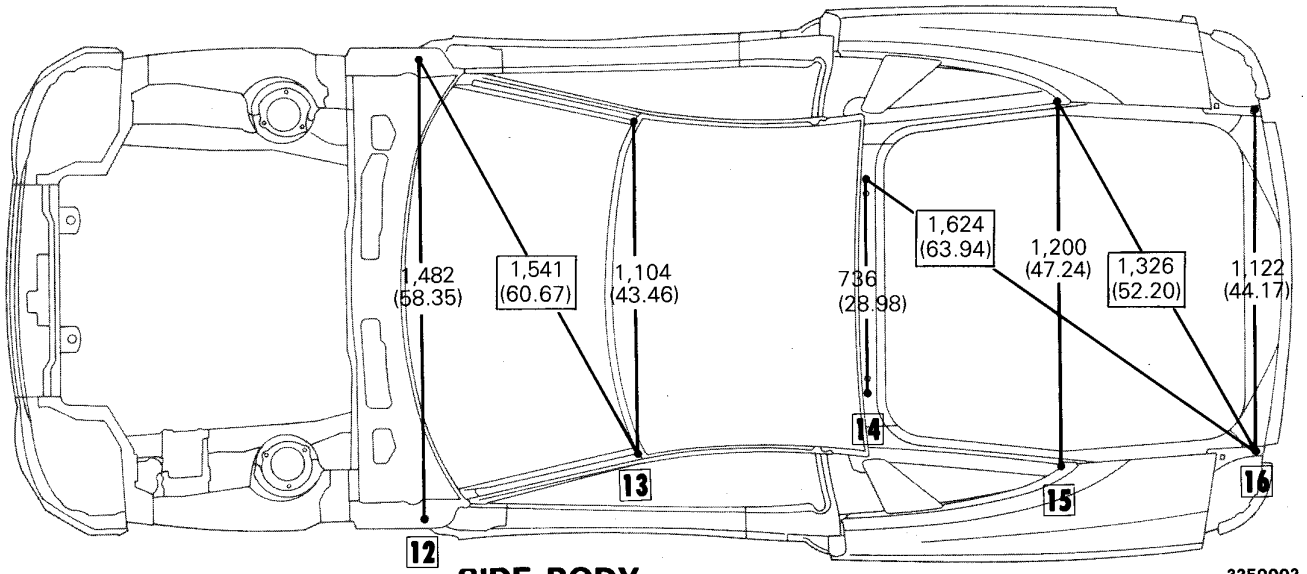




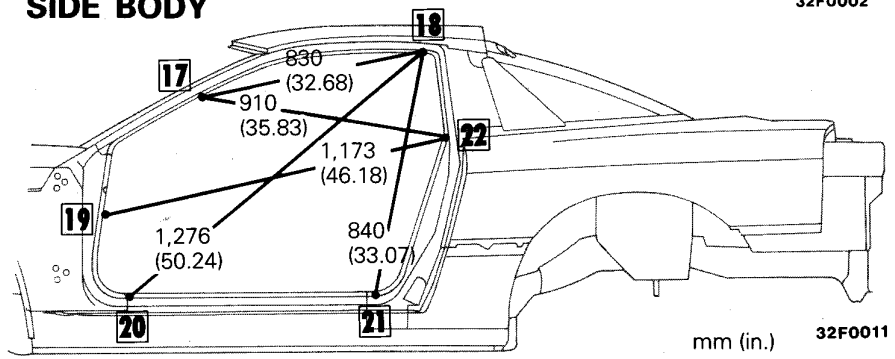




UPPER BODY

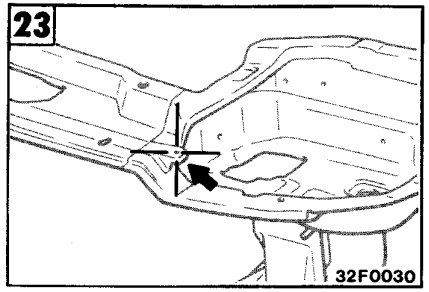


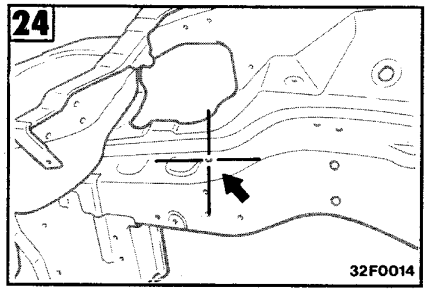
SIDE BODY

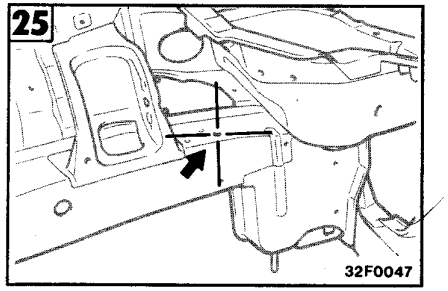


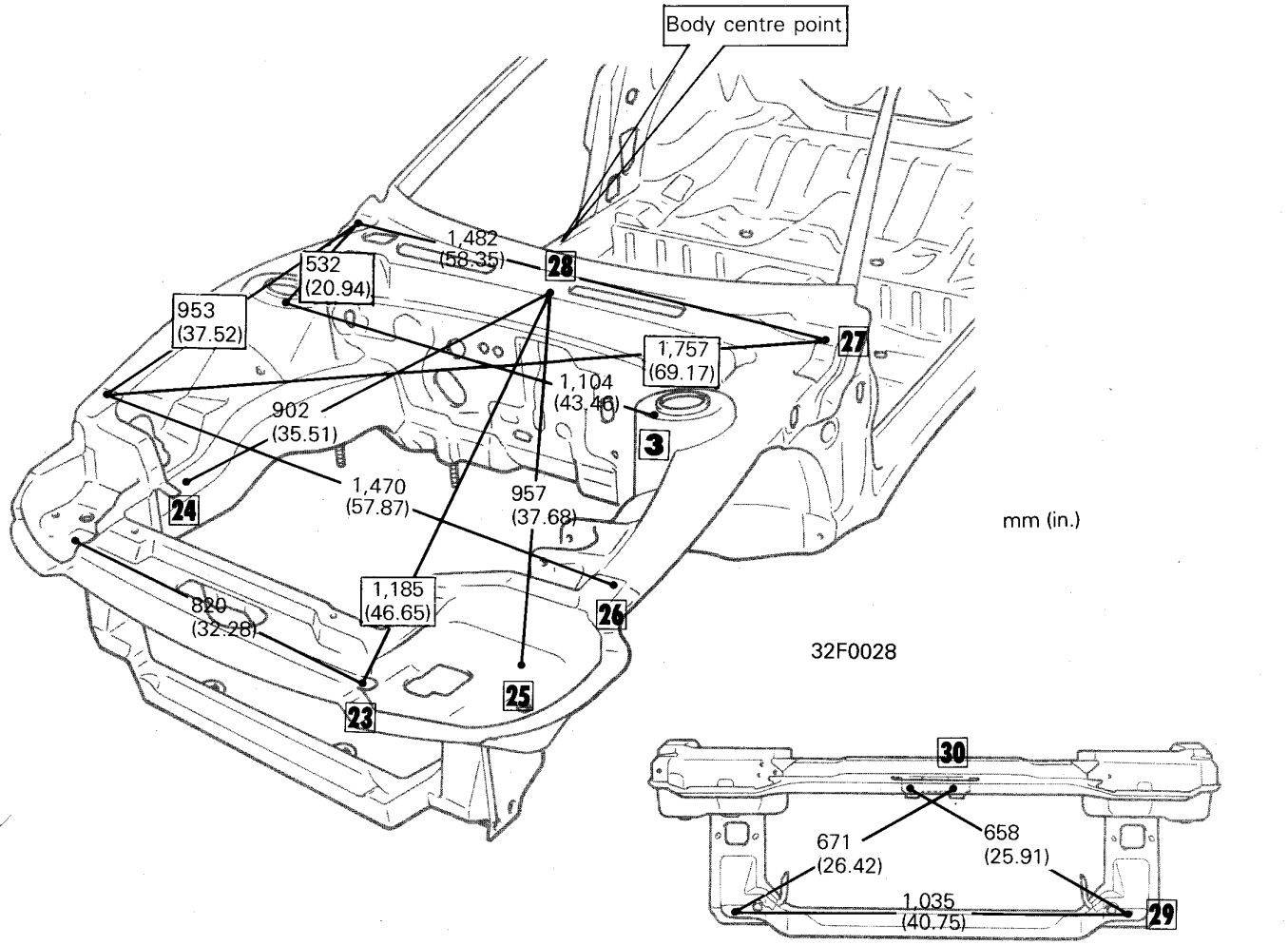
No.	Measurement points	Diameters	No.	Measurement points	Diameters	No.	Measurement points	Diameters
12	Centre of front fender mounting hole	6.6 mm (0.26 in.)	**16**	Centre of rear lamp mounting hole	□8.5 mm (□0.33 in.)	**20**	Front pillar and side sill connection	—
13	Front pillar and roof connection	—	**17**	Notch on front pillar (upper)	—	**21**	Centre of center pillar reference point (lower)	8 mm (0.31 in.)
14	Centre of tailgate hinge mounting hole	12 mm (0.47 in.)	**18**	Centre of center pillar reference point (upper)	8 mm (0.31 in.)	**22**	Center pillar reference point	—
15	Rear pillar and quarter panel connection	—	**19**	Notch on front pillar (lower)	—			

ENGINE COMPARTMENT



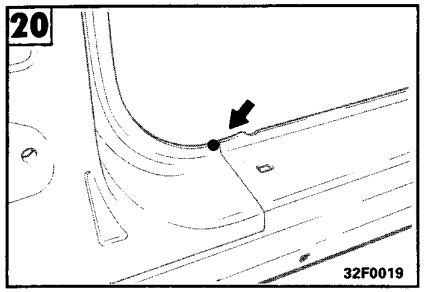


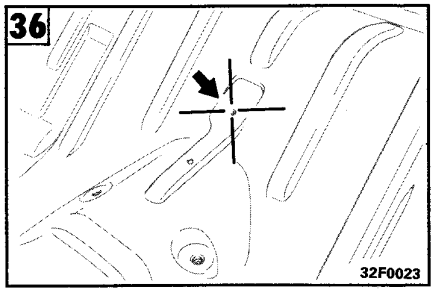


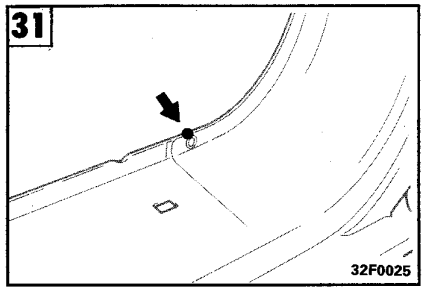


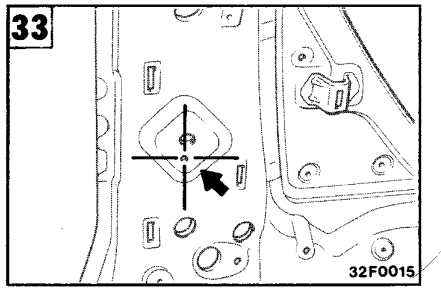
No.	Measurement points	Diameters	No.	Measurement points	Diameters	No.	Measurement points	Diameters
3	Centre of front strut mounting hole	11 mm (0.43 in.)	**25**	Centre of air conditioner pipe bracket mounting hole	9 mm (0.35 in.)	**28**	Body centre point (weatherstrip mounting hole)	5 mm (0.20 in.)
23	Centre of front bumper face	6.6 mm (0.26 in.)	**26**	Centre of front fender mounting hole	6.6 mm (0.26 in.)	**29**	Centre of harness clip mounting hole	7 mm (0.28 in.)
24	Centre of harness clip mounting hole	7 mm (0.28 in.)	**27**	Centre of front fender mounting hole	6.6 mm (0.26 in.)	**30**	Centre of hood latch mounting hole	6.6 mm (0.26 in.)

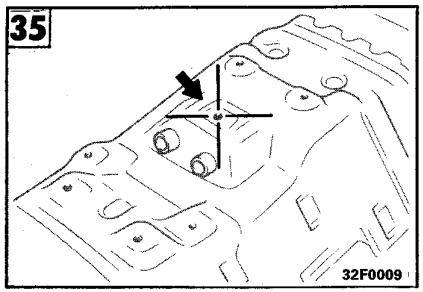
INTERIOR

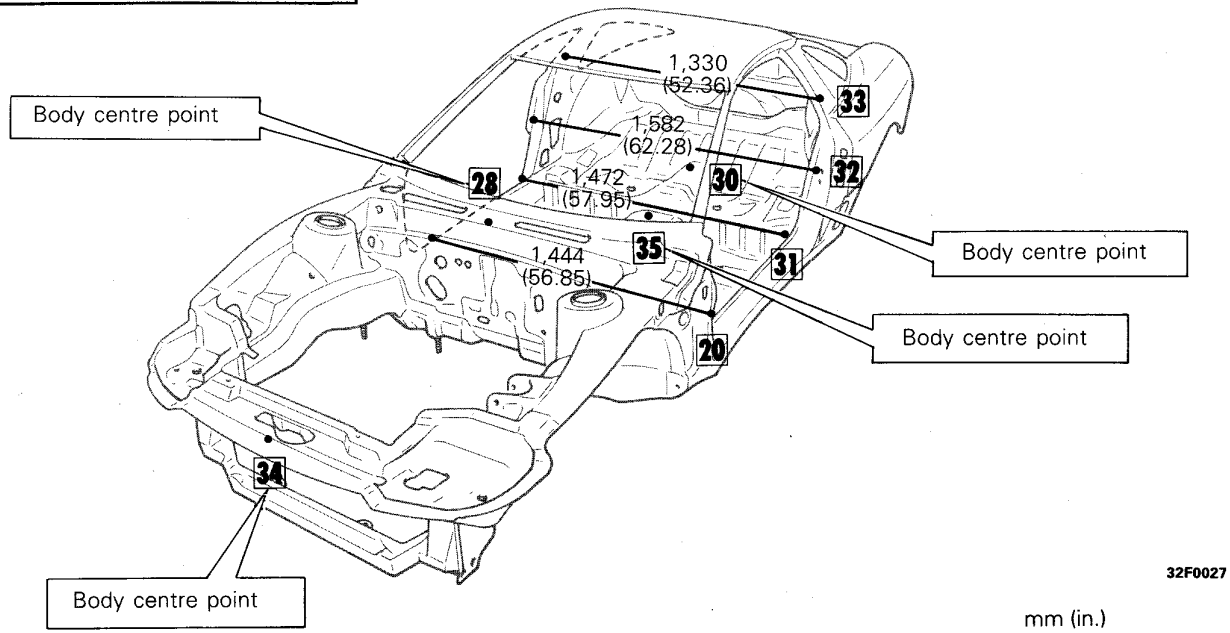












mm (in.)

No.	Measurement points	Diameters	No.	Measurement points	Diameters
20	Front pillar and side sill connection	—	**33**	Centre of front seat belt locating hole	8 mm (0.31 in.)
28	Body centre point (weatherstrip mounting hole)	5 mm (0.20 in.)	**34**	Body centre point (front bumper face mounting hole)	6.6 mm (0.26 in.)
31	Top of center pillar reference point	—	**35**	Body centre point	6.6 mm (0.26 in.)
32	Centre of front door striker mounting hole	14 mm (0.55 in.)	**36**	Body centre point	7 mm (0.28 in.)

INCLINATION OF SPRING HOUSE PANEL