

PJ Ranger Body Repair Manual

(Part No. BR380)





RANGER

Body

Measurement

Chart

Manual

CONTENTS

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F340-20-05L

FOREWORD

This manual has been prepared to provide information covering normal service repairs and maintenance for the Ranger.

As all information in this manual was the best available at the time of printing, vehicle specification and other information will be updated in Service Information.

Ford Motor Company

APPLICATION:

This manual is applicable to vehicles beginning with the Vehicle Identification Numbers (VIN), and related materials shown on the following page.

GENERAL INFORMATION

00
SECTION

00

GENERAL INFORMATION . . . 00-00

00-00 GENERAL INFORMATION

VEHICLE IDENTIFICATION NUMBER

(VIN) CODE 00-00-1

VEHICLE IDENTIFICATION NUMBERS

(VIN) 00-00-1

HOW TO USE THIS MANUAL 00-00-2

ABBREVIATION 00-00-4

VEHICLE IDENTIFICATION NUMBER (VIN) CODE

DCF00000000B05

M	N	B	S	1	D	1	0	6	W	1	2	3	4	5	6
										Serial No.					
										Plant W=A. A. Thailand					
										Production year 6= 2006 7= 2007					
										No meaning 0					
										Engine type 1= WL-C (2.5 L-DI) 2= WL-3 (2.5 L Diesel-Emission Turbo) 9= WE-C (3.0 L-DI)					
										Gross vehicle weight D= 2268—2721 kg {5001—6000 lbs} E= 2722—3175 kg {6001—7000 lbs}					
										Body style A= Regular cab.-without box B= Regular cab.-with box E= Double cab.-without box F= Double cab.-with box 1= Stretch cab. (with Rear Access System) -without box 2= Stretch cab. (with Rear Access System) -with box					
										Product source S= Japan (for Thailand)					
										Air bag B= Seatbelt only D= with Air bag (Driver side) L= with Air bag (Driver and Passenger) U= with Air bag (Driver, Passenger and Side air bag)					
										World manufacturer identification MNB= FORD (Thailand)					

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GENERAL INFORMATION

HOW TO USE THIS MANUAL

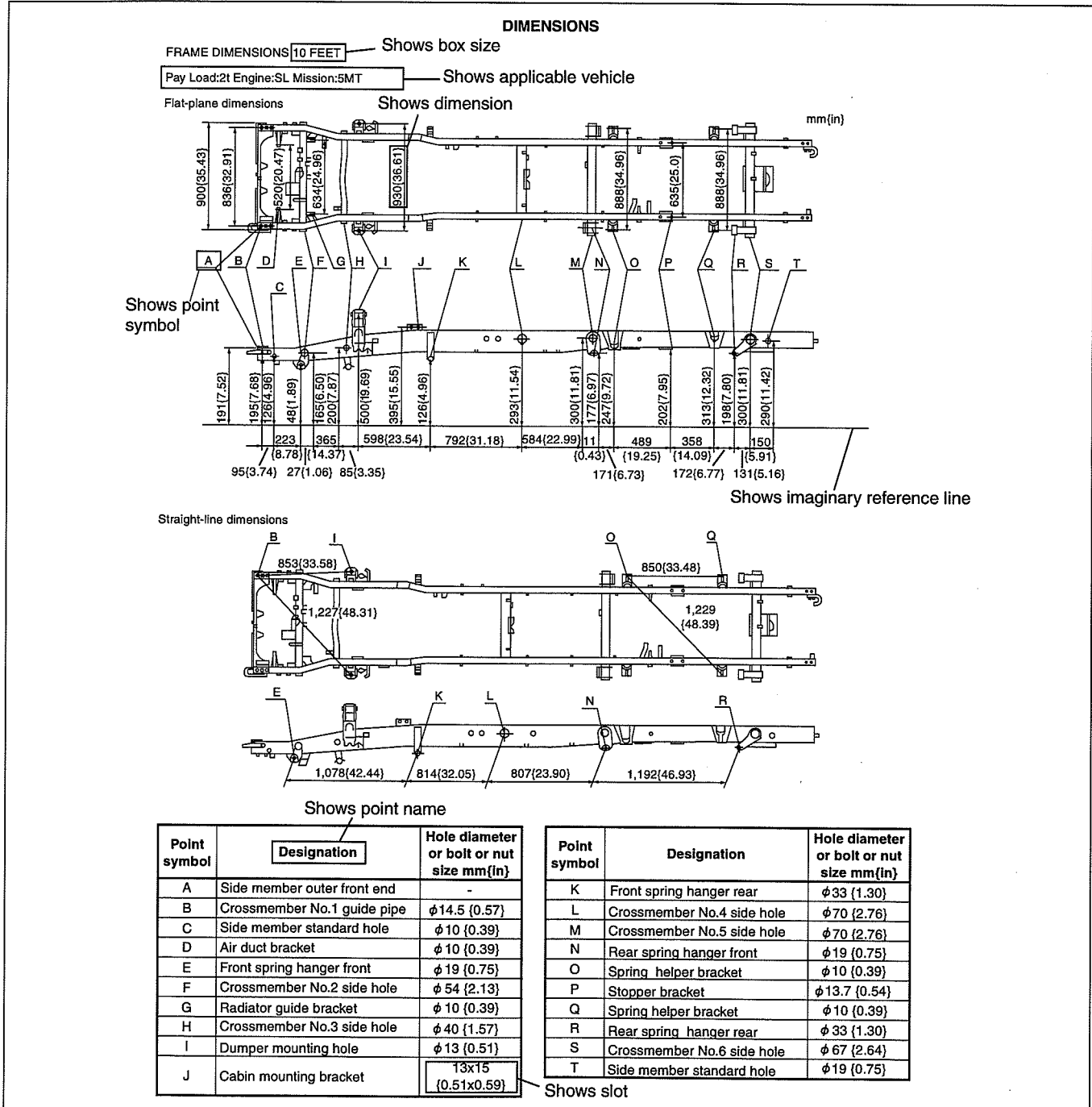
DCF000000000803

This manual contains frame and cabin dimensions. An explanation of how to read the dimensional drawing is given below.

How To Read Frame Dimensions

- Frame dimensions are the dimensions measured by projecting certain reference points onto a plane surface.
- When there are no specific indications, the standard points and dimensions are symmetrical in regard to the center of the vehicle.
- The hypothetical lines may differ according to the vehicle model.
- The outline drawing shows the figure that projected vehicle from the upper side.

Example



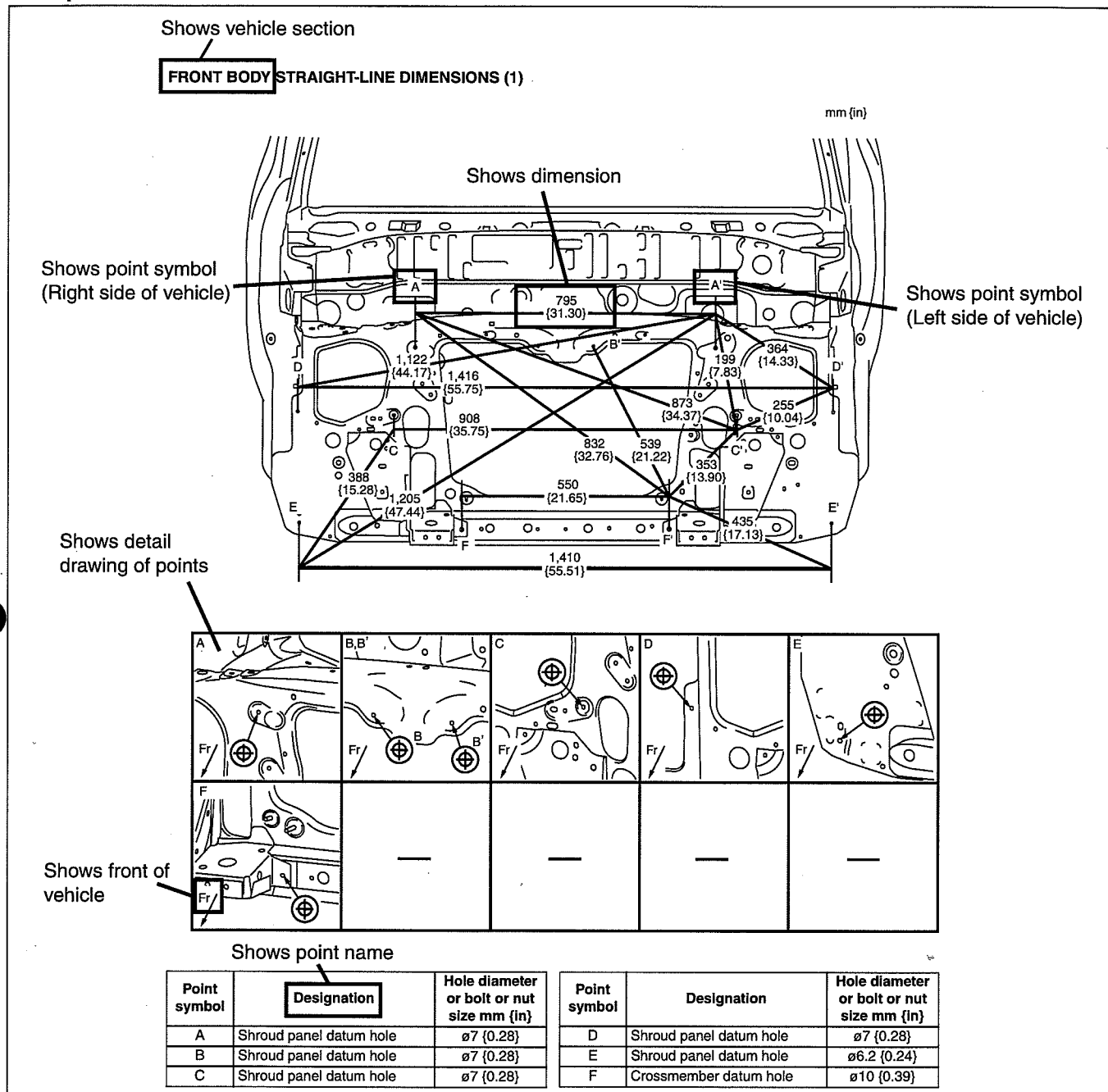
DBG0980B100

GENERAL INFORMATION

How To Rear Cabin Dimensions

- Cabin dimensions are the actual dimensions between two standard points.
- When there are no specific indications, the standard points and dimensions are symmetrical in regard to the center of the vehicle.

Example

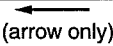


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GENERAL INFORMATION

Symbols of Body Dimensions

- The following 8 symbols are used to indicate the standard points.

SYMBOL	MEANING	SYMBOL	MEANING
	Center of circular hole		Bolt tip
	Center elliptical hole		Center of rectangular-shaped hole
	Notch		Edge of rectangular-shaped hole
	Panel seam, bead, etc.		

MZZ2010B016

ABBREVIATION

DCF00000000B04

CM	Control module
Ctr	Center
DSC	Dynamic stability control
Fr	Front
HU	Hydraulic unit
LH	Left
M	Metallic
MC	Mica
RH	Right
Rr	Rear

BODY & ACCESSORIES

09
SECTION

BODY STRUCTURE [DIMENSIONS] 09-80D

80D

09-80D BODY STRUCTURE [DIMENSIONS]

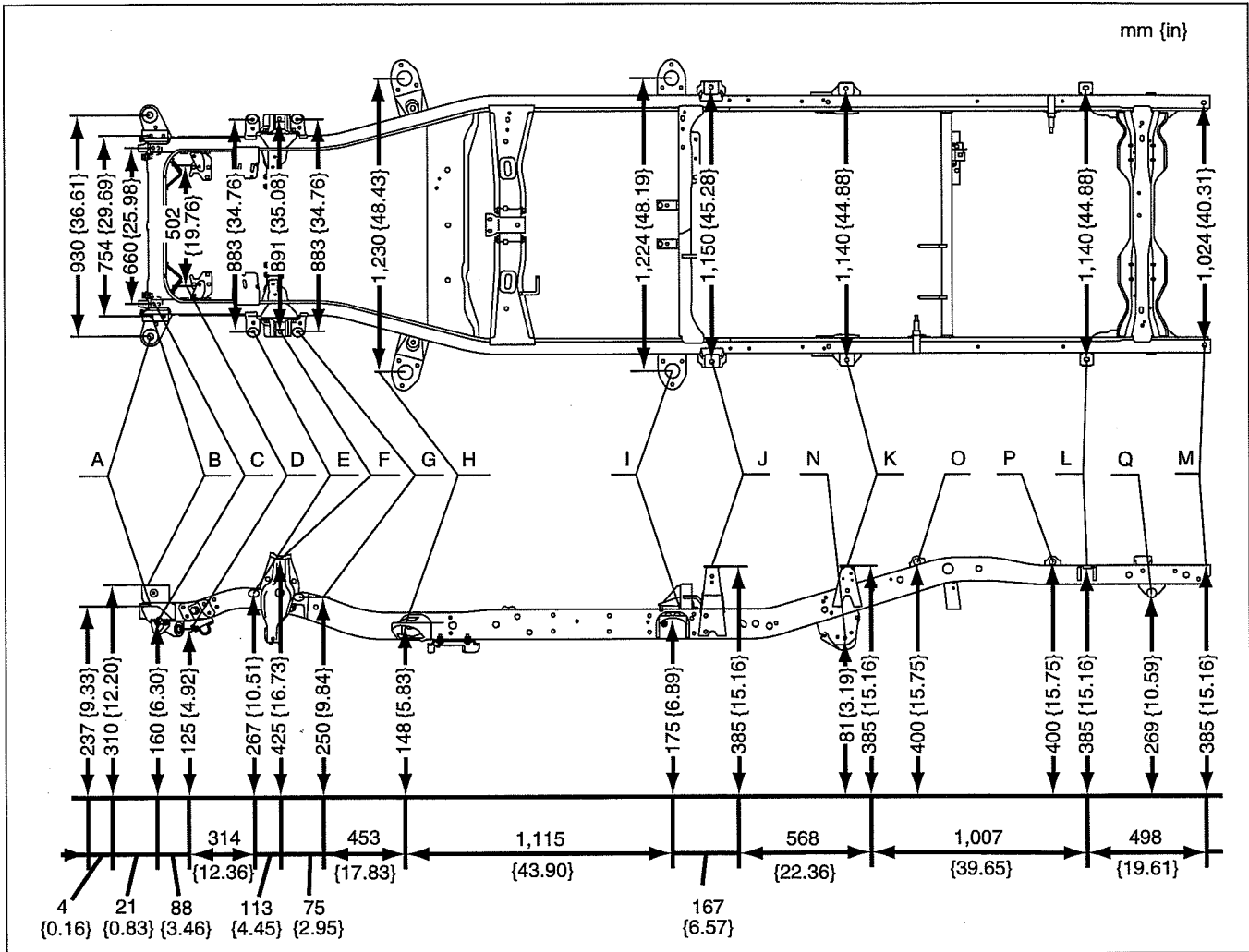
FRAME DIMENSIONS (UNDERBODY REGULAR CAB 2WD)	09-80D-2	FRONT BODY STRAIGHT-LINE DIMENSIONS (2)	09-80D-15
FRAME DIMENSIONS (UNDERBODY DOUBLE CAB 2WD)	09-80D-4	CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS (REGULAR CAB)	09-80D-17
FRAME DIMENSIONS (UNDERBODY STRETCH CAB {WITH REAR ACCESS SYSTEM} 2WD)	09-80D-6	CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS (DOUBLE CAB)	09-80D-18
FRAME DIMENSIONS (UNDERBODY STRETCH CAB {WITH REAR ACCESS SYSTEM} HI-RIDER)	09-80D-8	CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS (STRETHC CAB {WITH REAR ACCESS SYSTEM}, HI-RIDER)	09-80D-19
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BODY STRUCTURE [DIMENSIONS]

FRAME DIMENSIONS (UNDERBODY REGULAR CAB 2WD)

DCF098038010B01

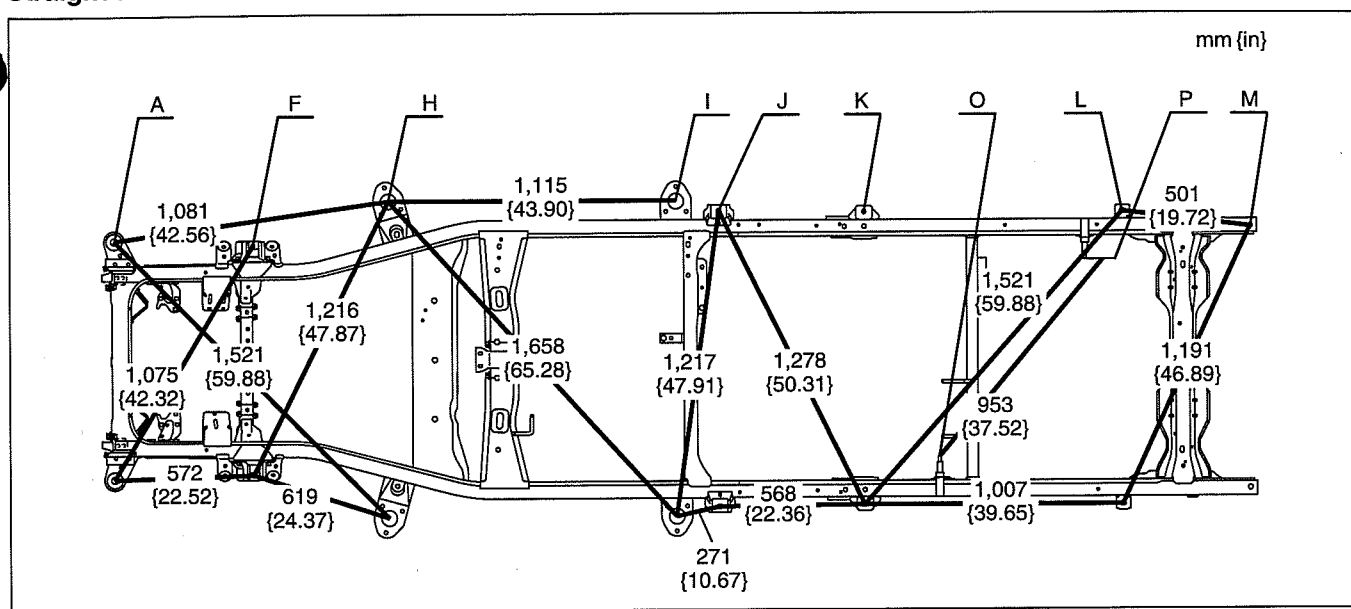
Flat-plane dimensions



DBG0980B001

BODY STRUCTURE [DIMENSIONS]

Straight-line dimensions



80D

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Cabin mounting bracket No.1	ø27 {1.06}
B	Bumper stay bracket	ø15 {0.59}
C	Tie down hook mounting hole	ø13.5 {0.53}
D	Front suspension bracket tension rod	ø25 {0.98}
E	Rebound stopper bracket	ø12.5 {0.49}
F	Front suspension bracket	ø16 {0.63}
G	Rebound stopper bracket	ø12.5 {0.49}
H	Cabin mounting bracket No.2	ø60 {2.36}
I	Cabin mounting bracket No.3	ø65 {2.56}
J	Box bracket No.1	ø20 {0.79}

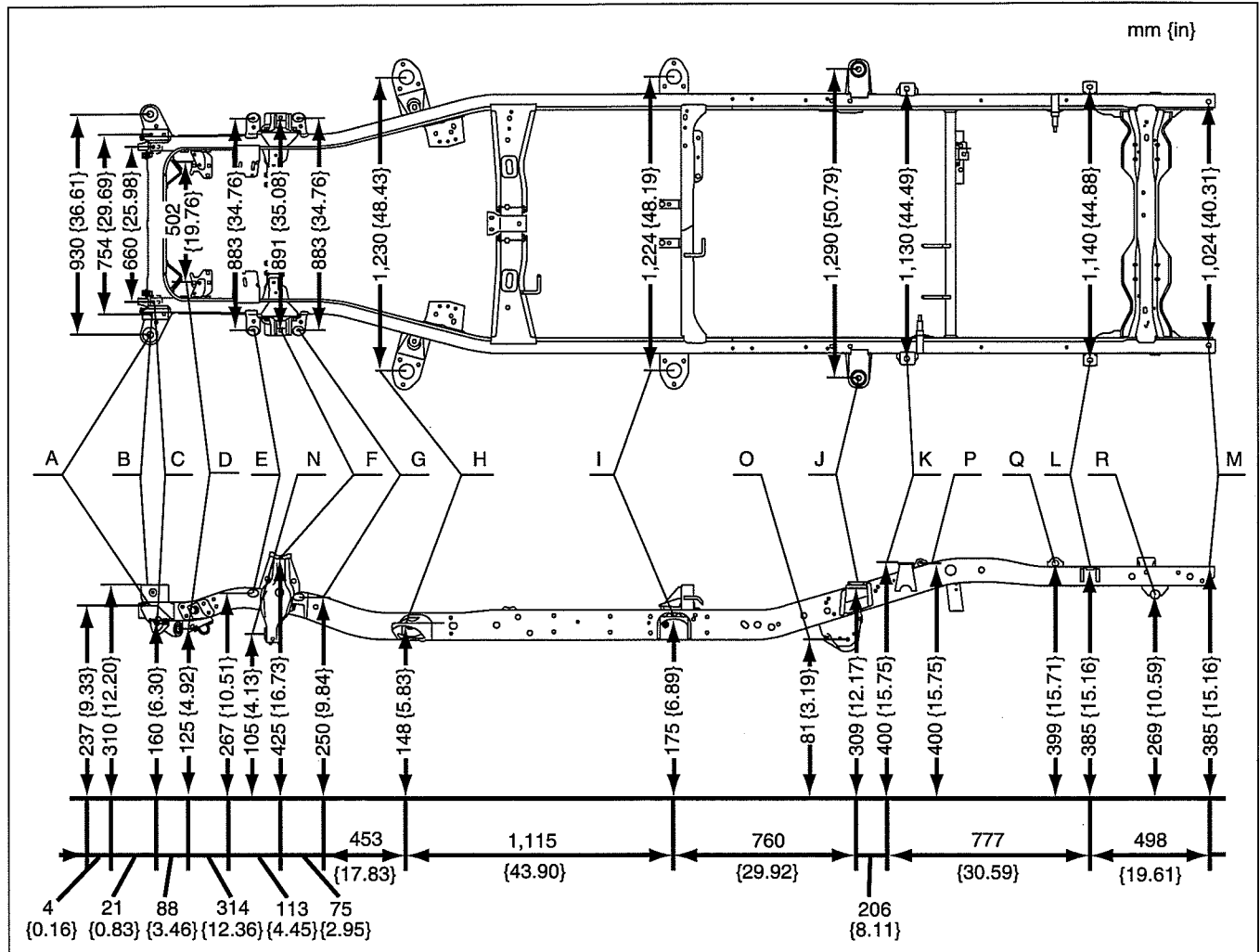
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
K	Box bracket No.2	ø16 {0.63}
K'	Box bracket No.2	ø20 {0.79}
L	Box bracket No.3	ø16 x 23 {0.63 x 0.91}
L'	Box bracket No.3	ø20 {0.79}
M	Box mounting hole	ø20 {0.79}
N	Front spring hanger	ø14 {0.55}
O	Dumper bracket	M12 {0.47}
P	Dumper bracket	M12 {0.47}
Q	Rear spring hanger	ø32 {1.26}

BODY STRUCTURE [DIMENSIONS]

FRAME DIMENSIONS (UNDERBODY DOUBLE CAB 2WD)

DCF098038010B02

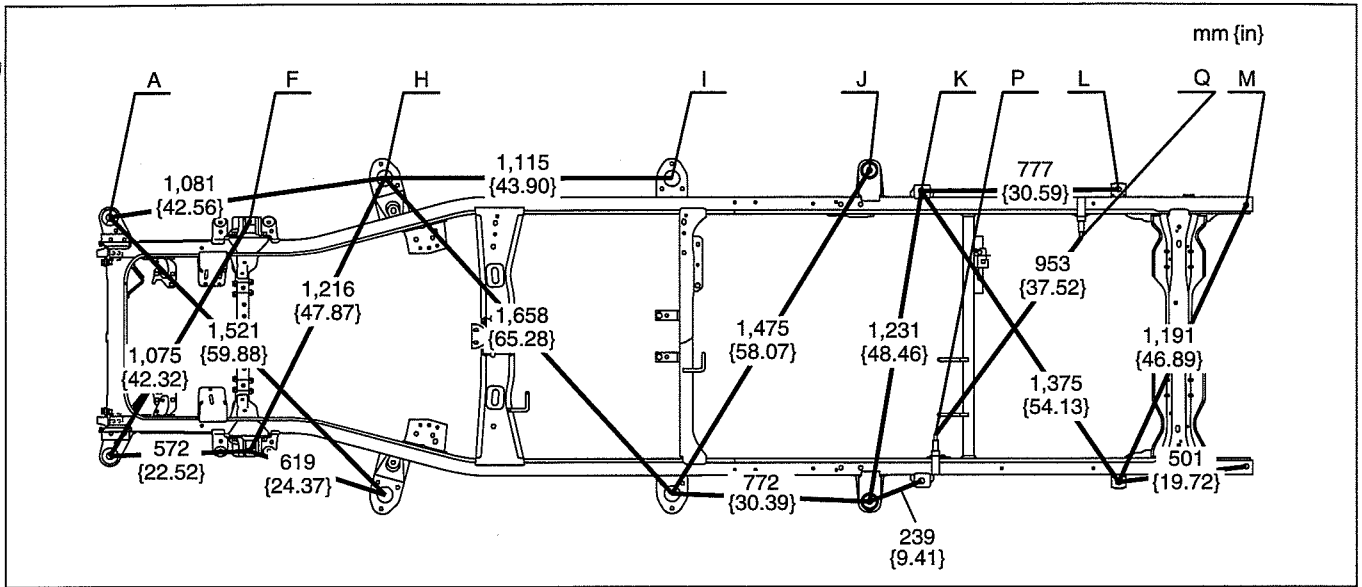
Flat-plane dimensions



DBG0980B003

BODY STRUCTURE [DIMENSIONS]

Straight-line dimensions



DBG0980B004

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Cabin mounting bracket No.1	ø27 {1.06}
B	Bumper stay bracket	ø15 {0.59}
C	Tie down hook mounting hole	ø13.5 {0.53}
D	Front suspension bracket tension rod	ø25 {0.98}
E	Rebound stopper bracket	ø12.5 {0.49}
F	Front suspension bracket	ø16 {0.63}
G	Rebound stopper bracket	ø12.5 {0.49}
H	Cabin mounting bracket No.2	ø60 {2.36}
I	Cabin mounting bracket No.3	ø65 {2.56}
J	Cabin mounting bracket No.4	ø30 {1.18}

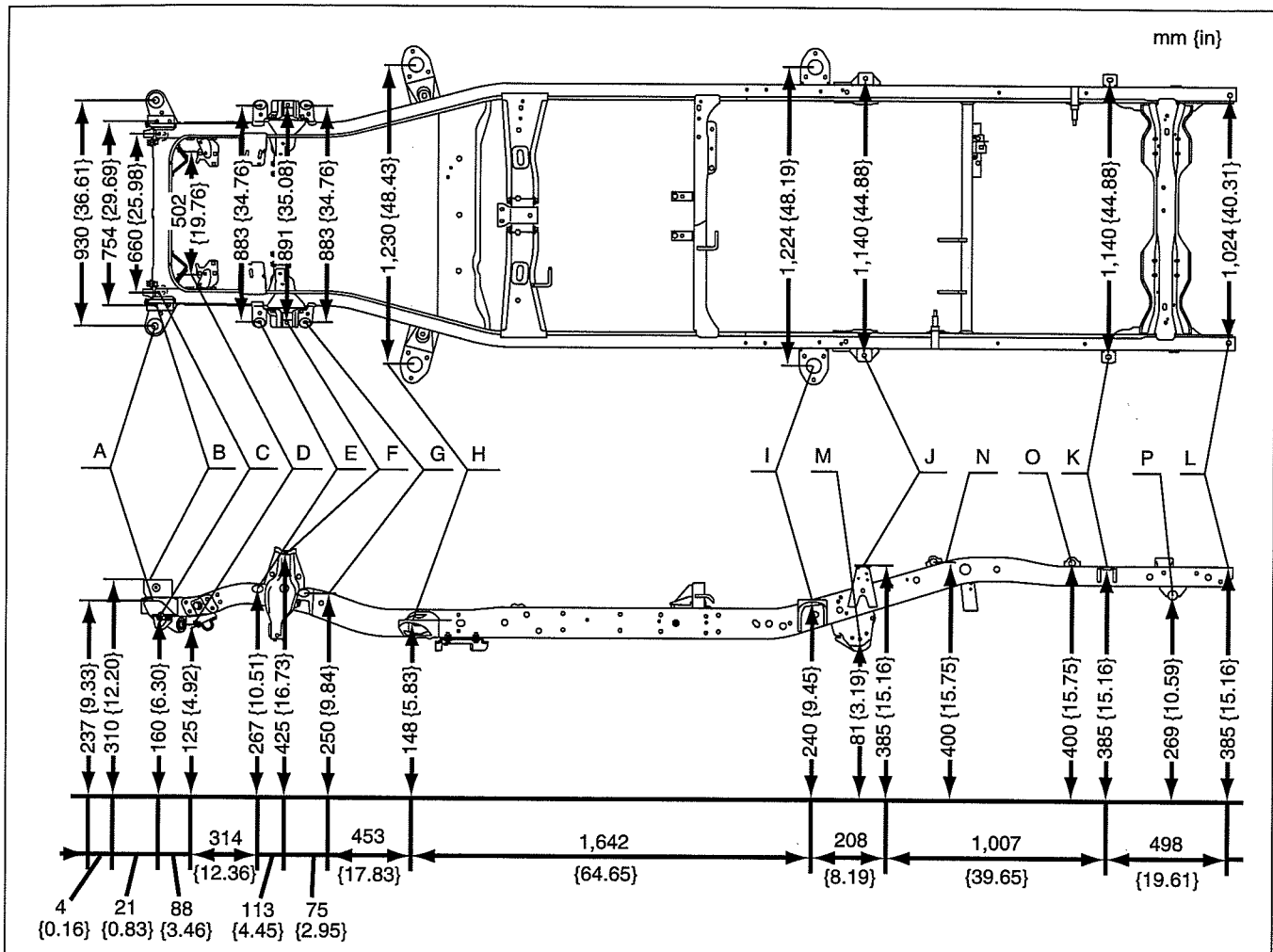
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
K	Box bracket No.1	ø16 {0.63}
K'	Box bracket No.1	ø20 {0.79}
L	Box bracket No.3	ø16 x 23 {0.63 x 0.91}
L'	Box bracket No.3	ø20 {0.79}
M	Box mounting hole	ø20 {0.79}
N	Front suspension bracket	ø48.5 {1.91}
O	Front spring hanger	ø14 {0.55}
P	Dumper bracket	M12 {0.47}
Q	Dumper bracket	M12 {0.47}
R	Rear spring hanger	ø32 {1.26}

BODY STRUCTURE [DIMENSIONS]

FRAME DIMENSIONS (UNDERBODY STRETCH CAB {WITH REAR ACCESS SYSTEM} 2WD)

DCF098038010B03

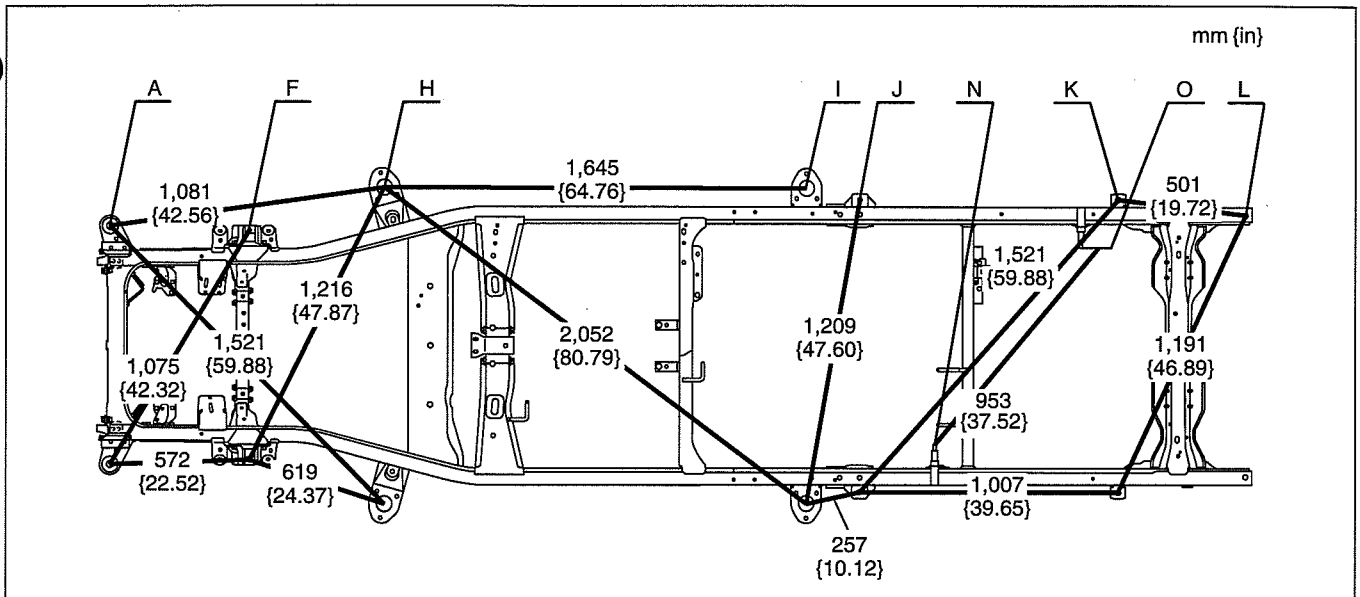
Flat-plane dimensions



DBG0980B005

BODY STRUCTURE [DIMENSIONS]

Straight-line dimensions



Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Cabin mounting bracket No.1	ø27 {1.06}
B	Bumper stay bracket	ø15 {0.59}
C	Tie down hook mounting hole	ø13.5 {0.53}
D	Front suspension bracket tension rod	ø25 {0.98}
E	Rebound stopper bracket	ø12.5 {0.49}
F	Front suspension bracket	ø16 {0.63}
G	Rebound stopper bracket	ø12.5 {0.49}
H	Cabin mounting bracket No.2	ø60 {2.36}
I	Cabin mounting bracket No.3	ø65 {2.56}

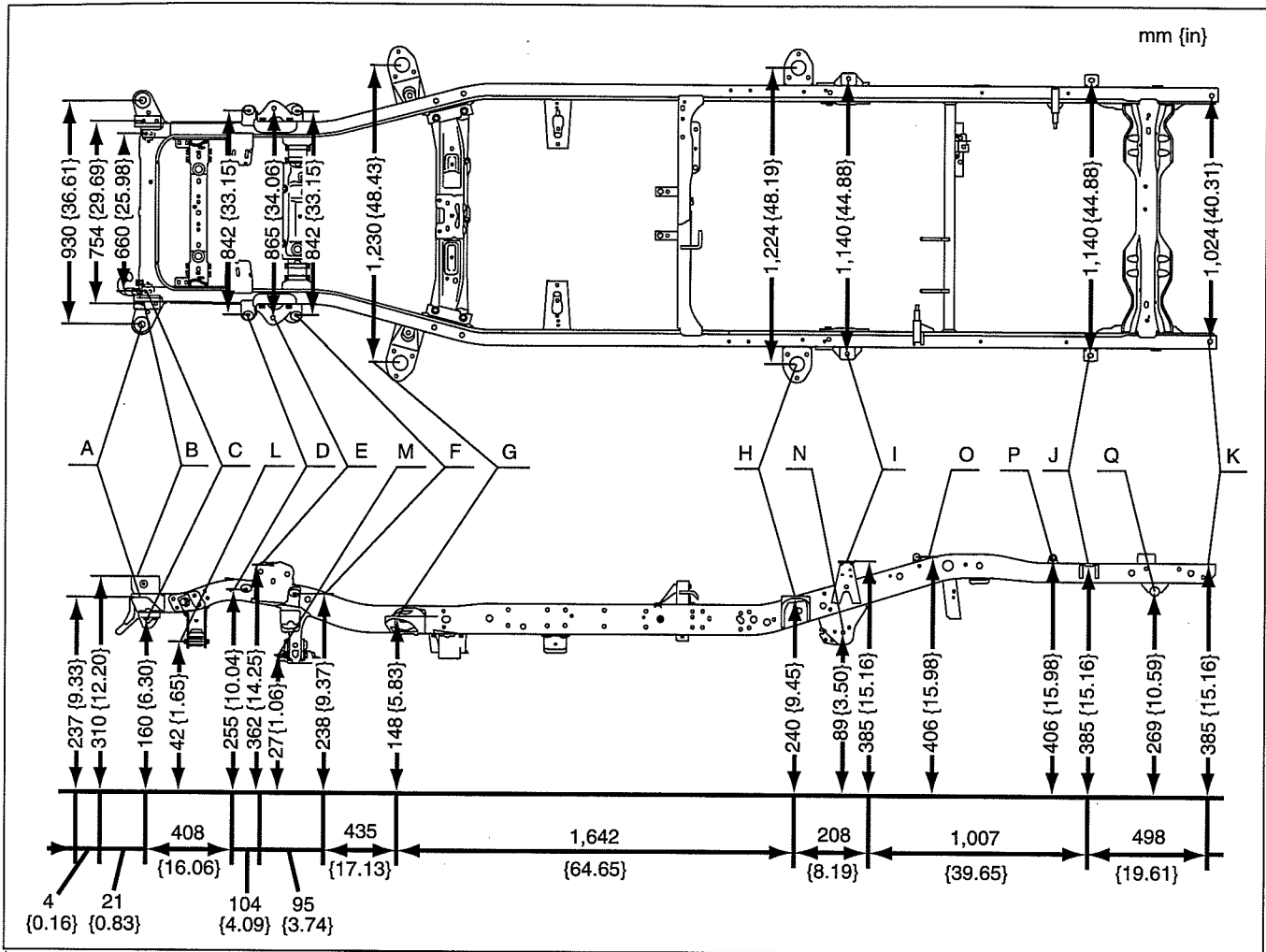
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
J	Box bracket No.1	ø16 {0.63}
J'	Box bracket No.1	ø20 {0.79}
K	Box bracket No.3	ø16 x 23 {0.63 x 0.91}
K'	Box bracket No.3	ø20 {0.79}
L	Box mounting hole	ø20 {0.79}
M	Front spring hanger	ø14 {0.55}
N	Dumper bracket	M12 {0.47}
O	Dumper bracket	M12 {0.47}
P	Rear spring hanger	ø32 {1.26}

BODY STRUCTURE [DIMENSIONS]

FRAME DIMENSIONS (UNDERBODY STRETCH CAB {WITH REAR ACCESS SYSTEM} HI-RIDER)

DCF098038010B06

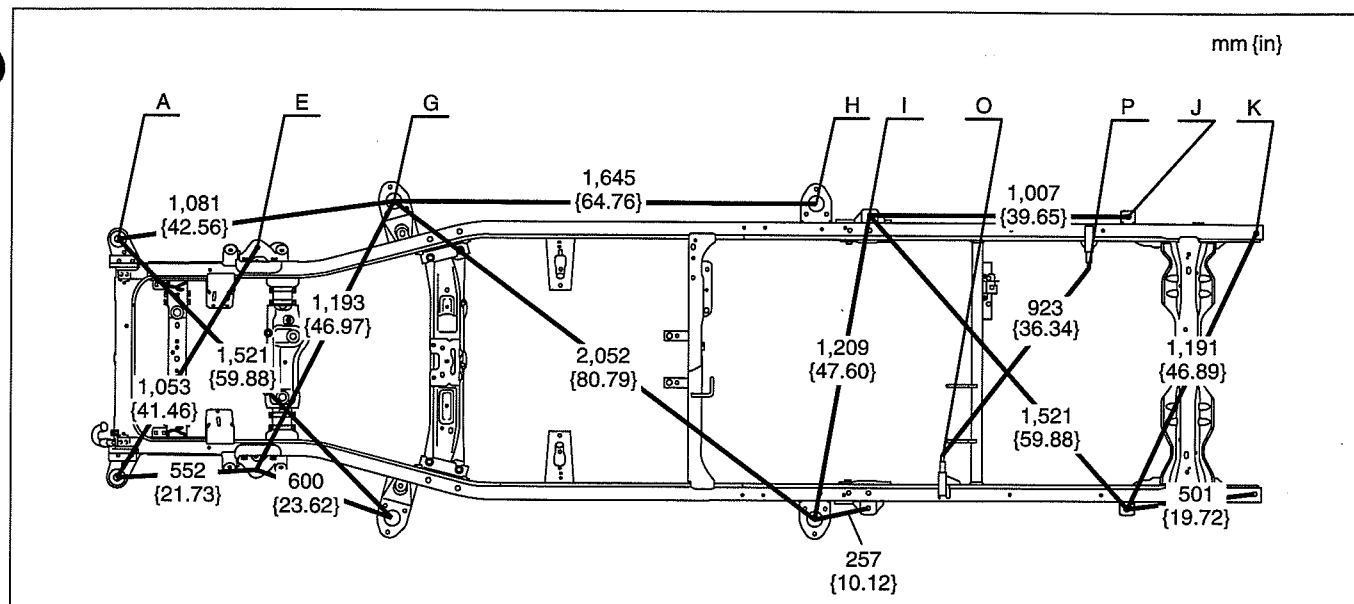
Flat-plane dimensions



DBG0980B009

BODY STRUCTURE [DIMENSIONS]

Straight-line dimensions



DBG0980B010

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Cabin mounting bracket No.1	ø27 {1.06}
B	Bumper stay bracket	ø15 {0.59}
C	Tie down hook mounting hole	ø13.5 {0.53}
D	Rebound stopper bracket	ø12.5 {0.49}
E	Front suspension bracket	ø16 {0.63}
F	Rebound stopper bracket	ø12.5 {0.49}
G	Cabin mounting bracket No.2	ø60 {2.36}
H	Cabin mounting bracket No.3	ø65 {2.56}
I	Box bracket No.1	ø16 {0.63}
I'	Box bracket No.1	ø20 {0.79}

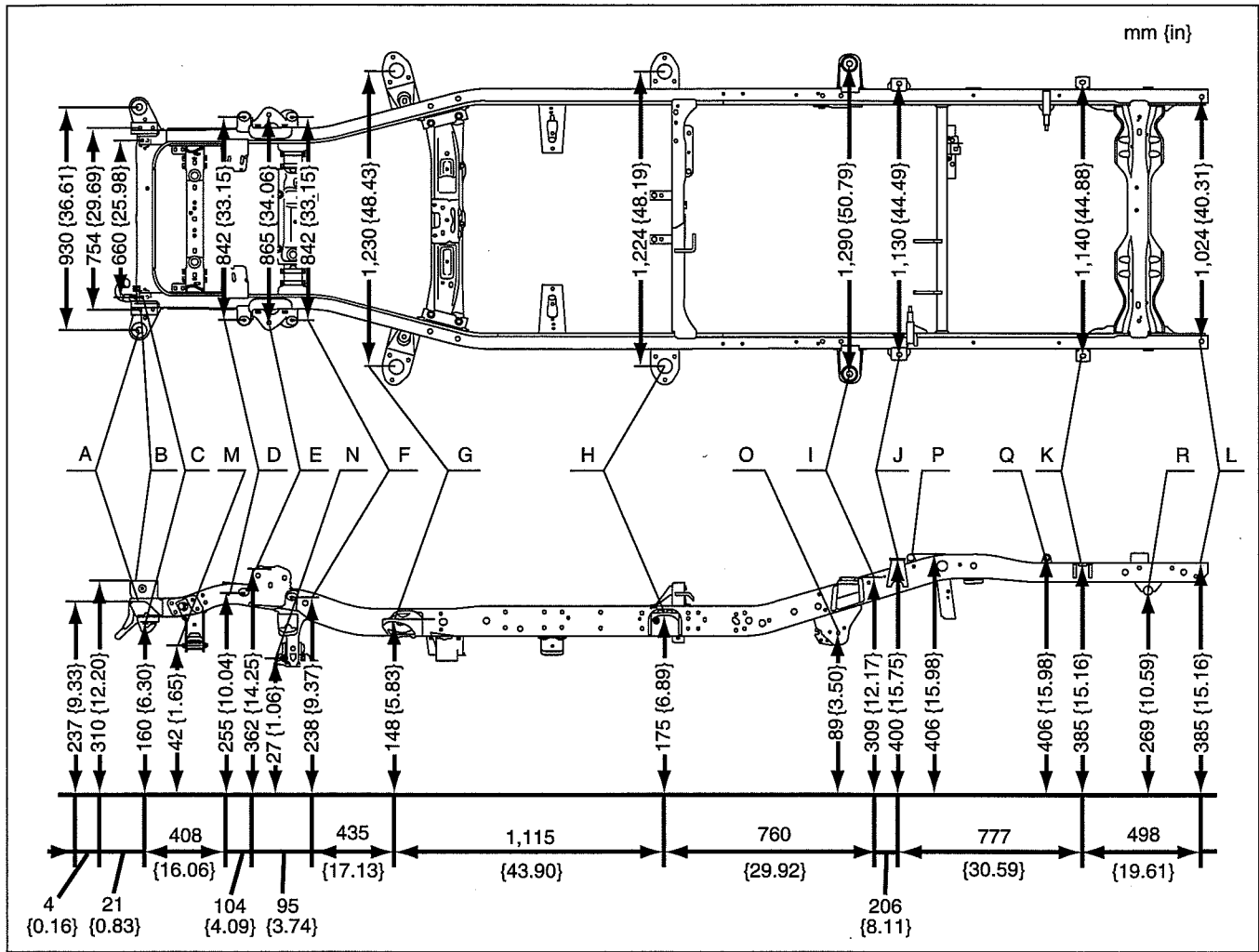
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
J	Box bracket No.3	ø16 x 23 {0.63 x 0.91}
J'	Box bracket No.3	ø20 {0.79}
K	Box mounting hole	ø20 {0.79}
L	Front suspension bracket	ø16.5 {0.65}
M	Front suspension bracket	ø40 {1.57}
N	Front spring hanger	ø14 {0.55}
O	Dumper bracket	M12 {0.47}
P	Dumper bracket	M12 {0.47}
Q	Rear spring hanger	ø32 {1.26}

BODY STRUCTURE [DIMENSIONS]

FRAME DIMENSIONS (UNDERBODY DOUBLE CAB 4WD)

DCF098038010B04

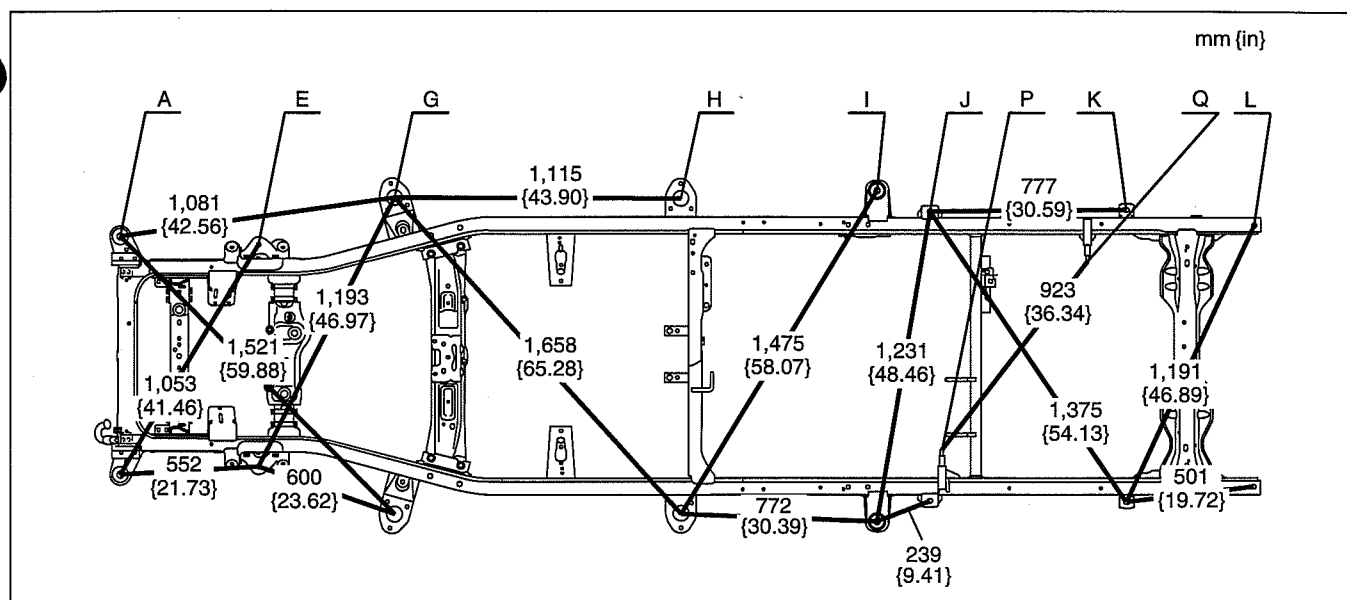
Flat-plane dimensions



DBG0980B007

BODY STRUCTURE [DIMENSIONS]

Straight-line dimensions



DBG0980B008

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Cabin mounting bracket No.1	ø27 {1.06}
B	Bumper stay bracket	ø15 {0.59}
C	Tie down hook mounting hole	ø13.5 {0.53}
D	Rebound stopper bracket	ø12.5 {0.49}
E	Front suspension bracket	ø16 {0.63}
F	Rebound stopper bracket	ø12.5 {0.49}
G	Cabin mounting bracket No.2	ø60 {2.36}
H	Cabin mounting bracket No.3	ø65 {2.56}
I	Cabin mounting bracket No.4	ø30 {1.18}
J	Box bracket No.1	ø16 {0.63}
J'	Box bracket No.1	ø20 {0.79}

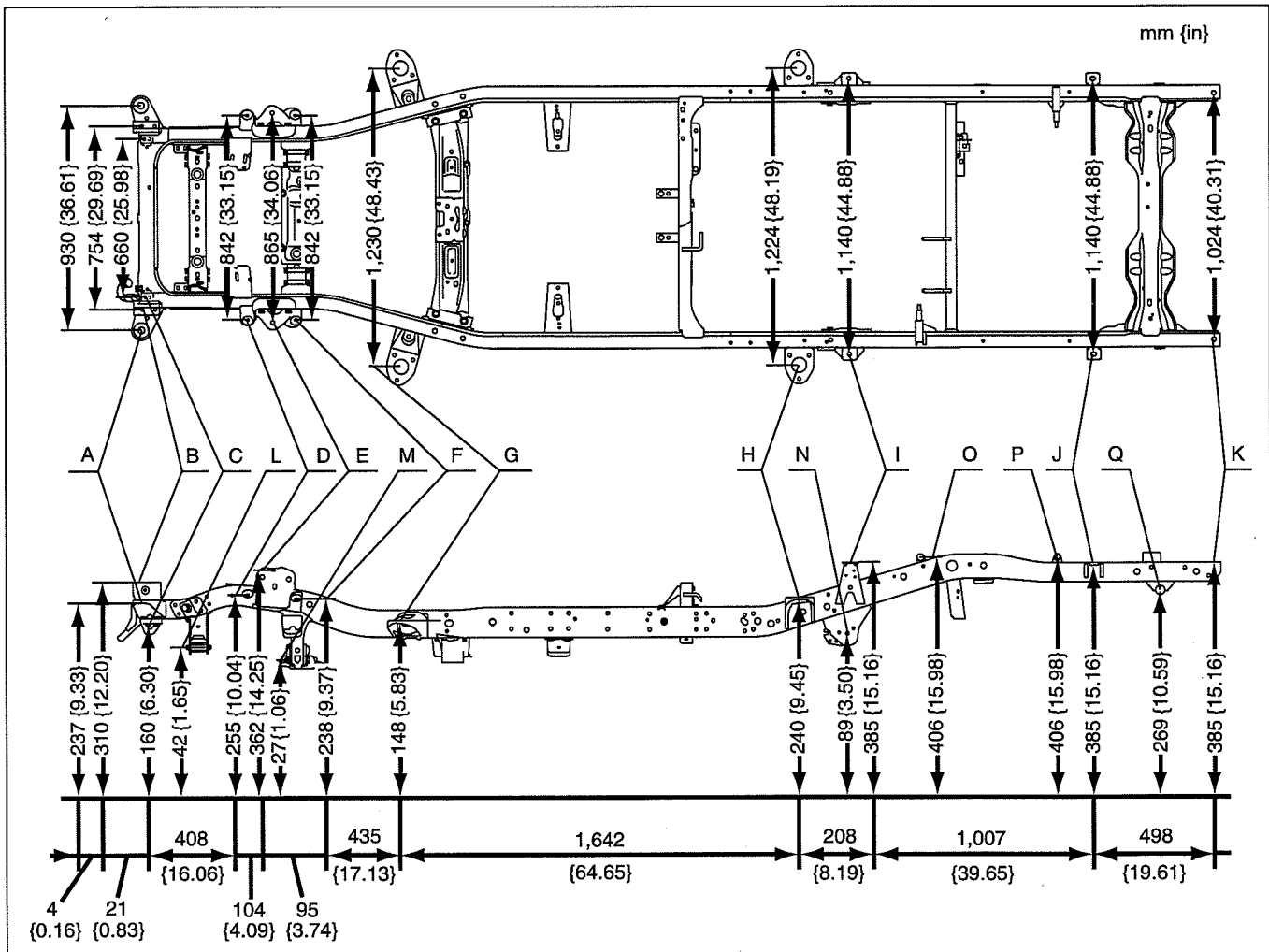
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
K	Box bracket No.3	ø16 x 23 {0.63 x 0.91}
K'	Box bracket No.3	ø20 {0.79}
L	Box mounting hole	ø20 {0.79}
M	Front suspension bracket	ø16.5 {0.65}
N	Front suspension bracket	ø40 {1.57}
O	Front spring hanger	ø14 {0.55}
P	Dumper bracket	M12 {0.47}
Q	Dumper bracket	M12 {0.47}
R	Rear spring hanger	ø32 {1.26}

BODY STRUCTURE [DIMENSIONS]

FRAME DIMENSIONS (UNDERBODY STRETCH CAB {WITH REAR ACCESS SYSTEM} 4WD)

DCF098038010B05

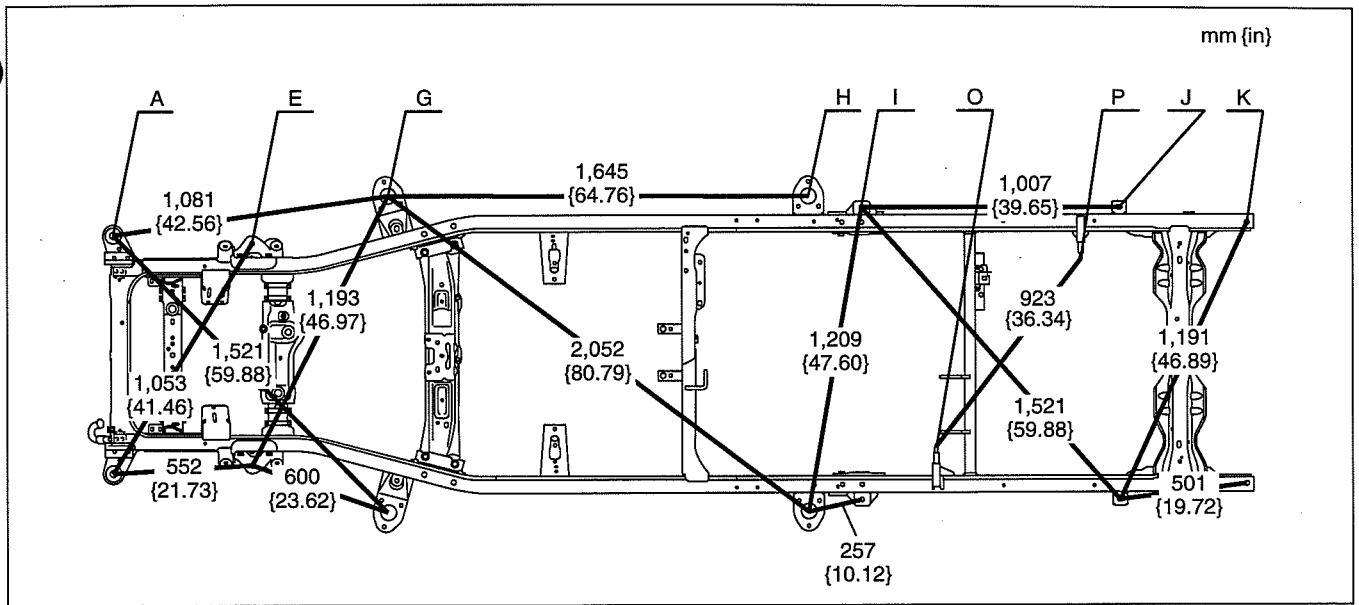
Flat-plane dimensions



DBG0980B009

BODY STRUCTURE [DIMENSIONS]

Straight-line dimensions



80D

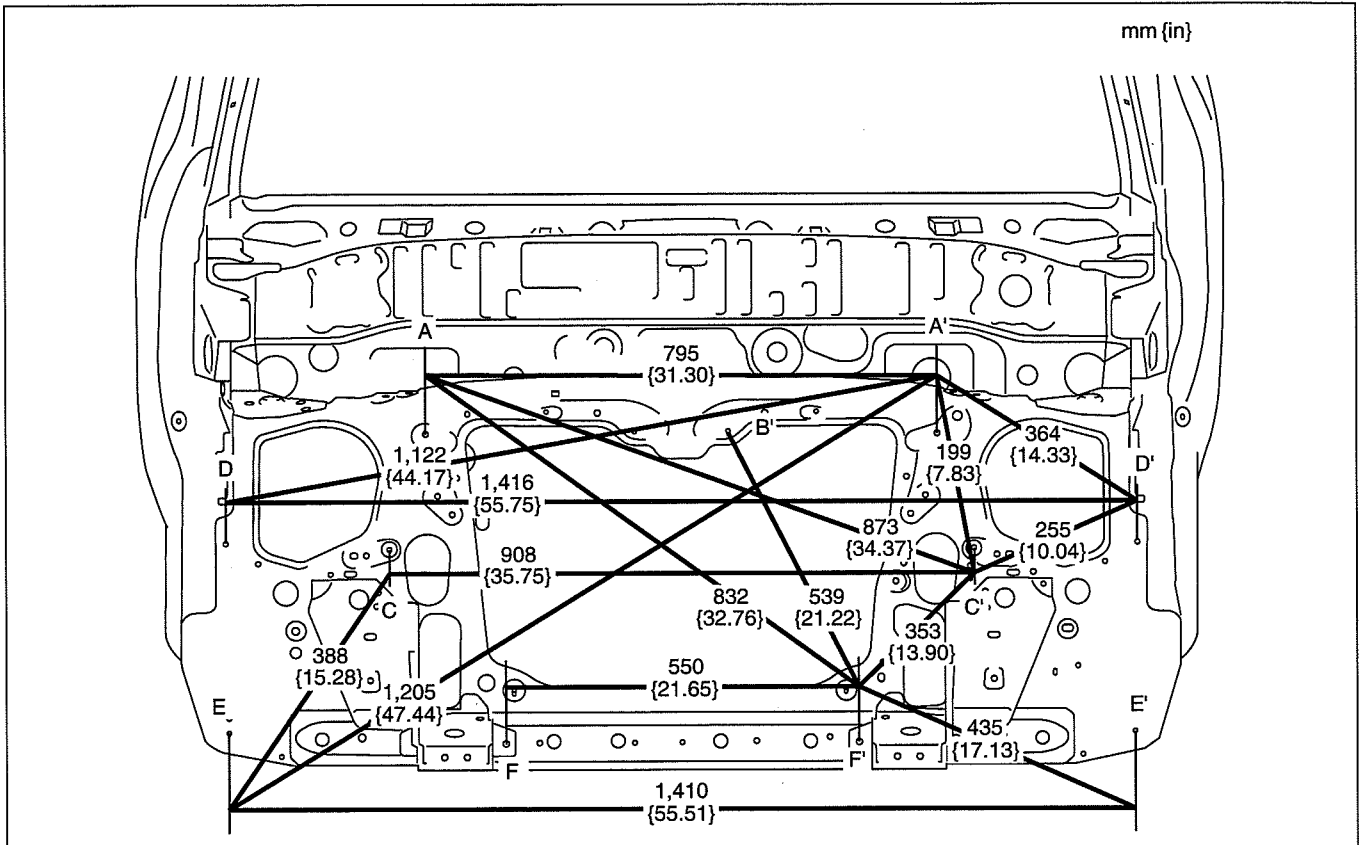
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Cabin mounting bracket No.1	ø27 {1.06}
B	Bumper stay bracket	ø15 {0.59}
C	Tie down hook mounting hole	ø13.5 {0.53}
D	Rebound stopper bracket	ø12.5 {0.49}
E	Front suspension bracket	ø16 {0.63}
F	Rebound stopper bracket	ø12.5 {0.49}
G	Cabin mounting bracket No.2	ø60 {2.36}
H	Cabin mounting bracket No.3	ø65 {2.56}
I	Box bracket No.1	ø16 {0.63}
I'	Box bracket No.1	ø20 {0.79}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
J	Box bracket No.3	ø16 x 23 {0.63 x 0.91}
J'	Box bracket No.3	ø20 {0.79}
K	Box mounting hole	ø20 {0.79}
L	Front suspension bracket	ø16.5 {0.65}
M	Front suspension bracket	ø40 {1.57}
N	Front spring hanger	ø14 {0.55}
O	Dumper bracket	M12 {0.47}
P	Dumper bracket	M12 {0.47}
Q	Rear spring hanger	ø32 {1.26}

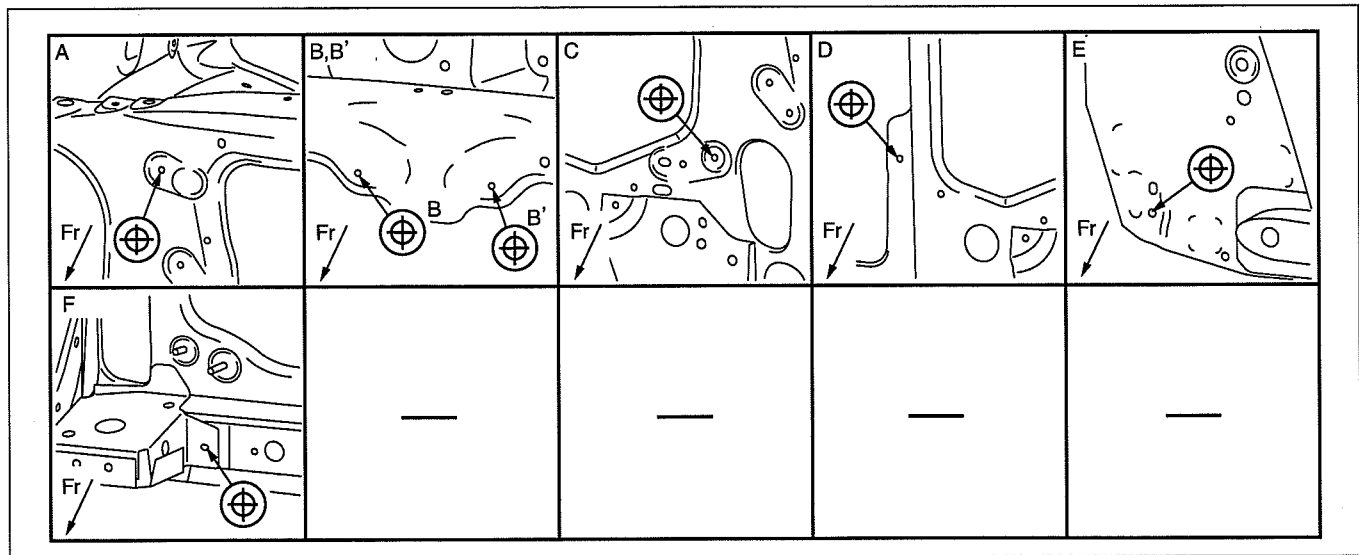
BODY STRUCTURE [DIMENSIONS]

FRONT BODY STRAIGHT-LINE DIMENSIONS (1)

DCF098053020B01



DBG0980B011



DBG0980B012

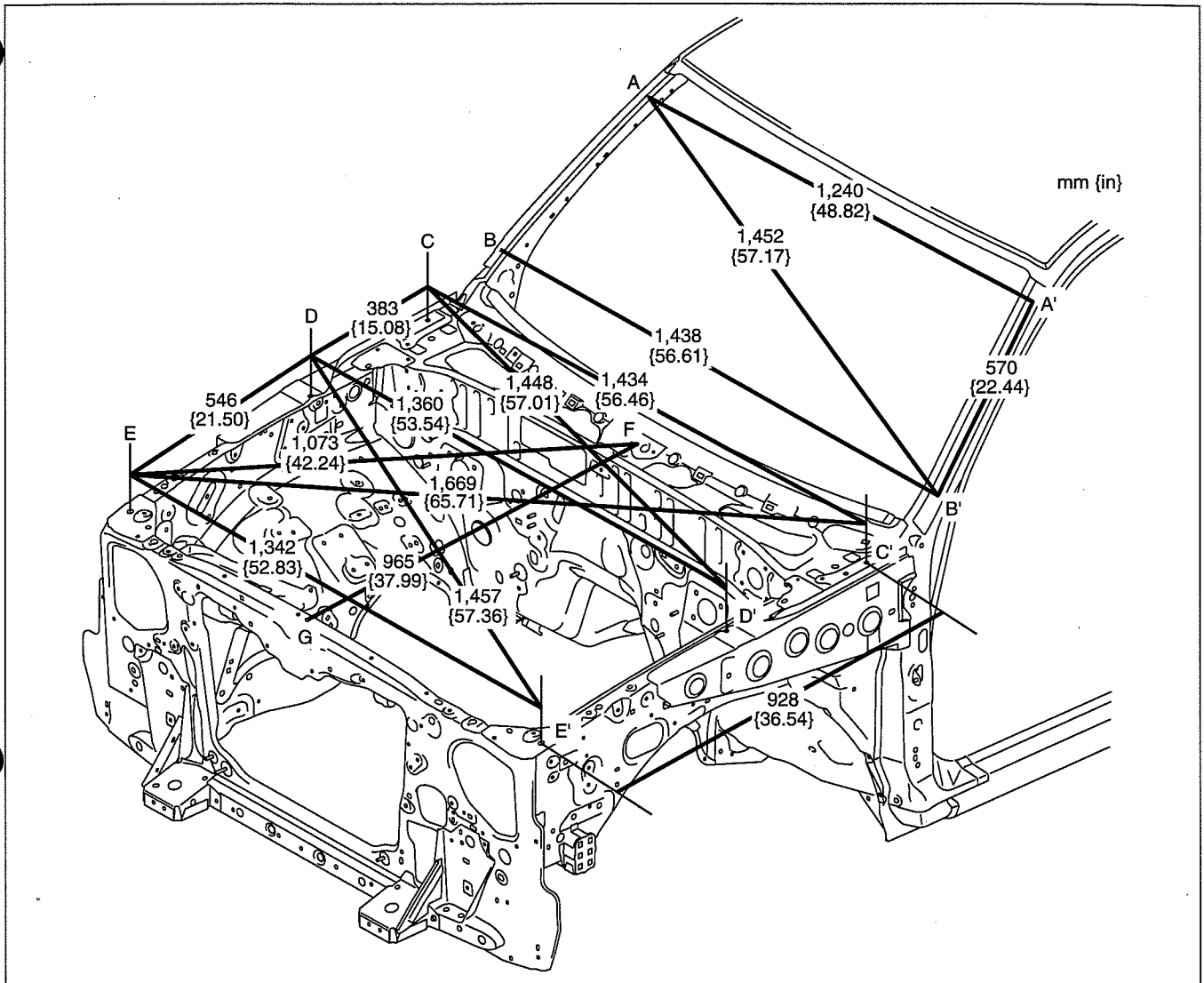
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Shroud panel datum hole	ø7 {0.28}
B	Shroud panel datum hole	ø7 {0.28}
C	Shroud panel datum hole	ø7 {0.28}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
D	Shroud panel datum hole	ø7 {0.28}
E	Shroud panel datum hole	ø6.2 {0.24}
F	Crossmember datum hole	ø10 {0.39}

BODY STRUCTURE [DIMENSIONS]

FRONT BODY STRAIGHT-LINE DIMENSIONS (2)

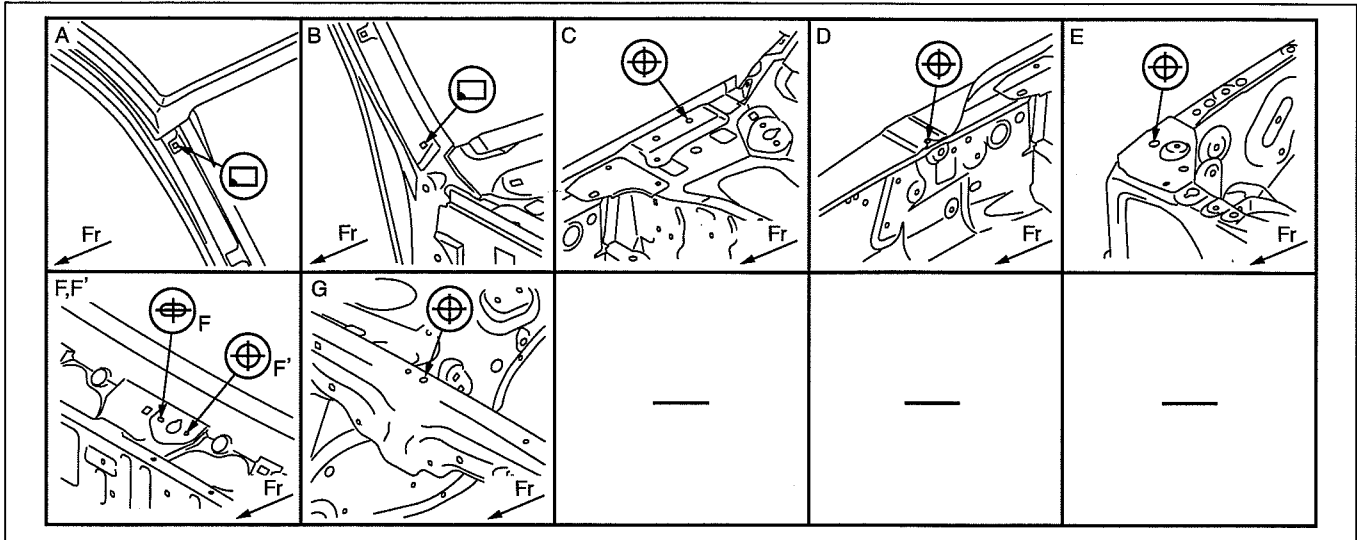
DCF098053020B02



DBG0980B013

80D

BODY STRUCTURE [DIMENSIONS]



DBG0980B014

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Windshield garnish installation square hole	6.8 x 6.8 {0.27 x 0.27}
B	Windshield garnish installation square hole	6.8 x 6.8 {0.27 x 0.27}
C	Bonnet hinge installation hole	ø12 {0.47}
D	Front fender installation hole	ø10 {0.39}

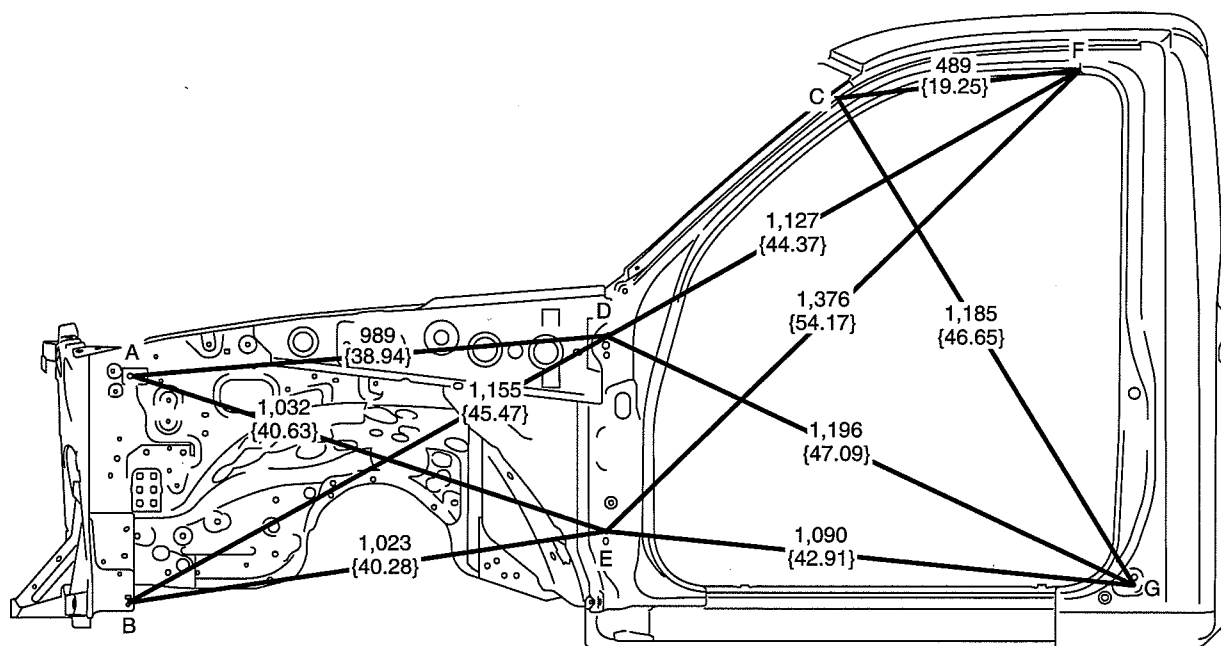
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
E	Shroud gusset datum hole	ø14 {0.55}
F	Cowl panel datum slot	ø6.2 x 8 {0.24 x 0.31}
F'	Cowl panel datum hole	ø6.2 {0.24}
G	Shroud panel datum hole	ø10 {0.39}

BODY STRUCTURE [DIMENSIONS]

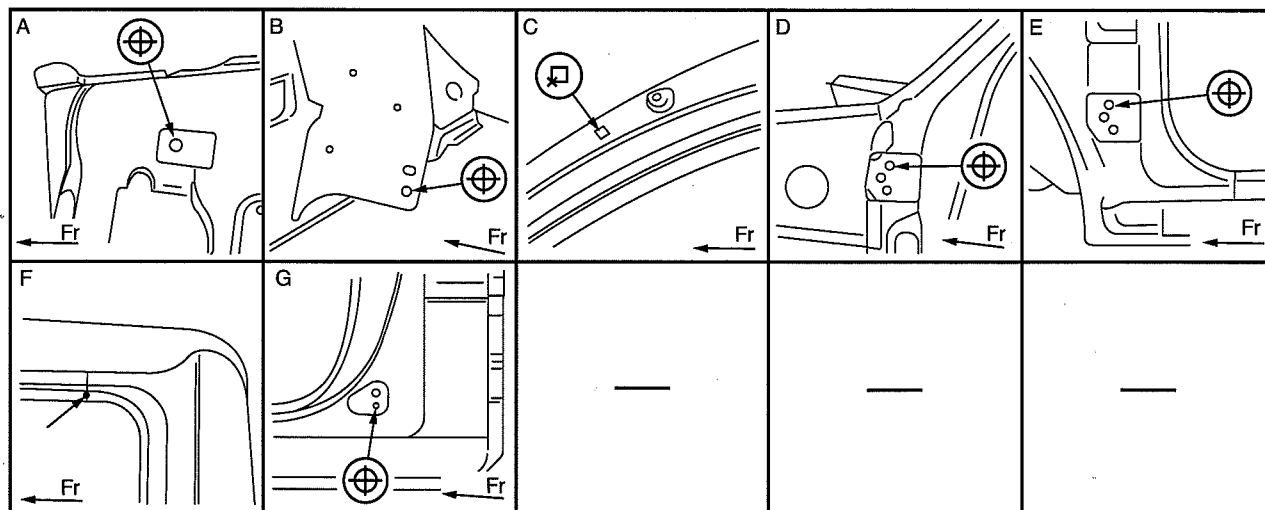
CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS (REGULAR CAB)

DCF098070010B01

mm {in}



DBG0980B015



DBG0980B016

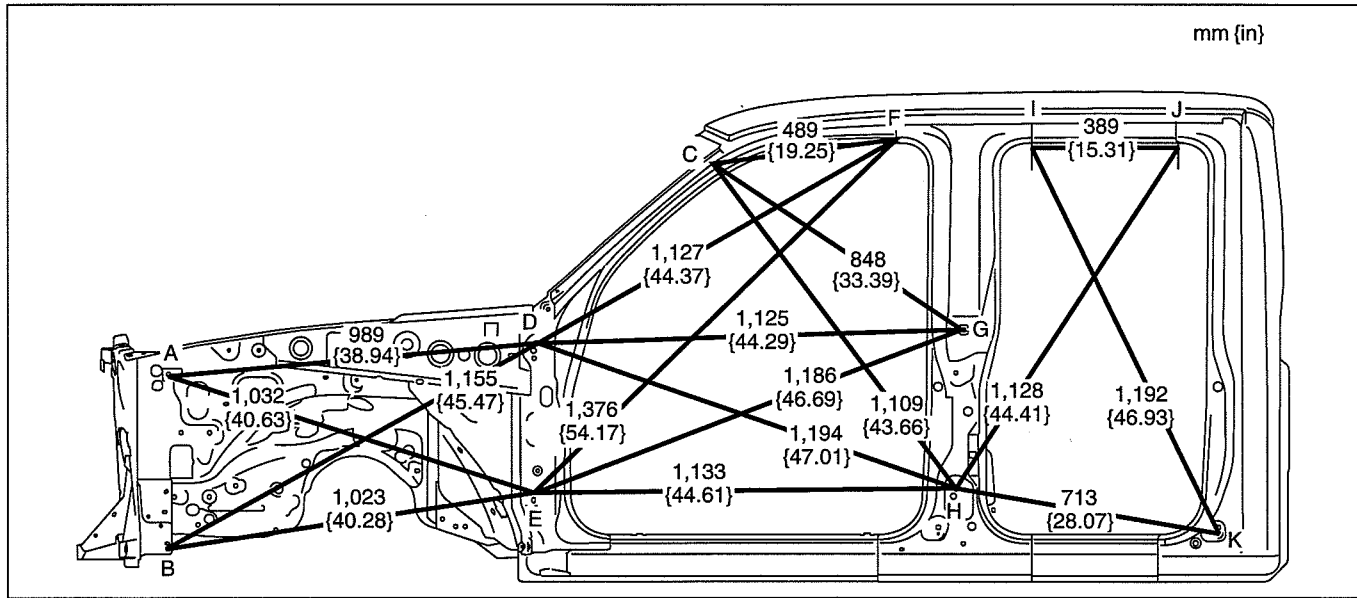
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Wheel apron panel front datum hole	ø12 {0.47}
B	Shroud panel datum hole	ø7 {0.28}
C	Windshield garnish installation square hole	6.8 x 6.8 {0.27 x 0.27}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
D	Door hinge installation hole	ø12 {0.47}
E	Door hinge installation hole	ø12 {0.47}
F	Side frame outer connection	-
G	Side frame outer datum hole	ø3.2 {0.13}

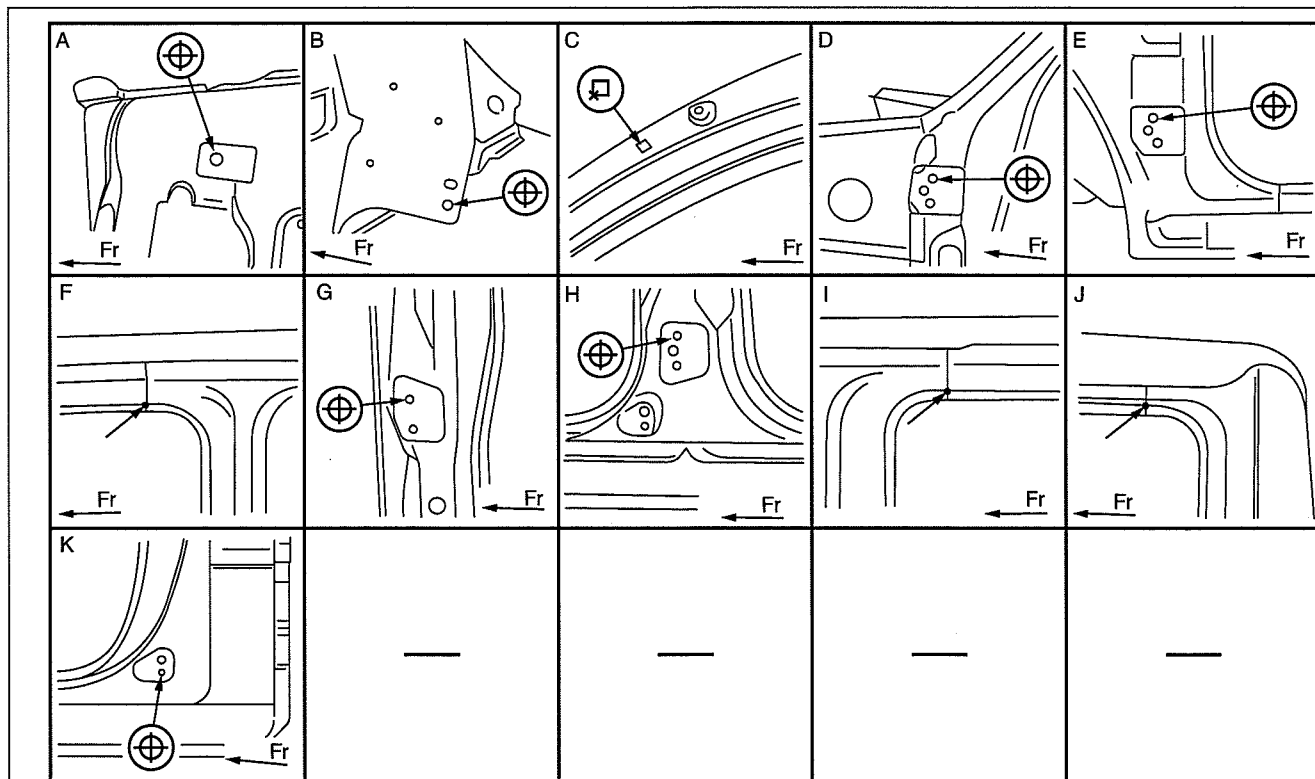
BODY STRUCTURE [DIMENSIONS]

CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS (DOUBLE CAB)

DCF098070010B02



DBG0980B017



DBG0980B018

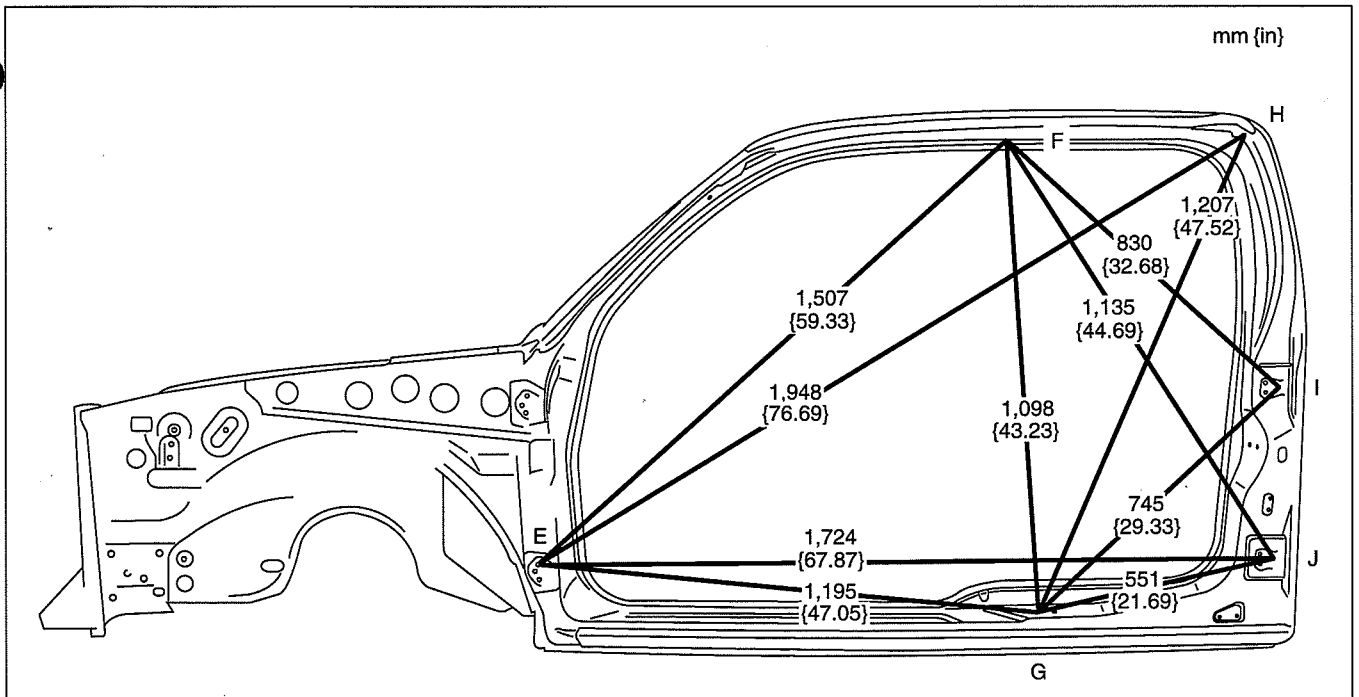
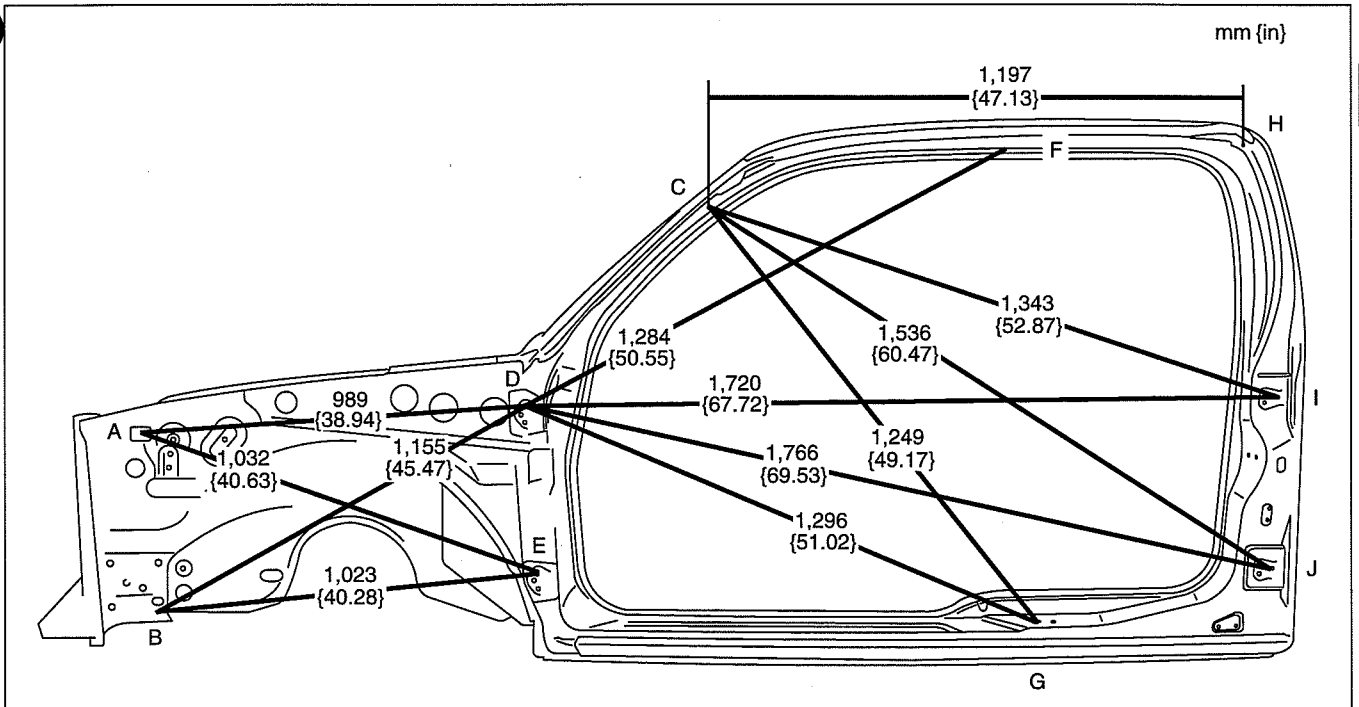
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Wheel apron panel front datum hole	ø12 {0.47}
B	Shroud panel datum hole	ø7 {0.28}
C	Windshield garnish installation square hole	6.8 x 6.8 {0.27 x 0.27}
D	Door hinge installation hole	ø12 {0.47}
E	Door hinge installation hole	ø12 {0.47}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
F	Side frame outer connection	-
G	Door hinge installation hole	ø12 {0.47}
H	Door hinge installation hole	ø12 {0.47}
I	Side frame outer connection	-
J	Side frame outer connection	-
K	Side frame outer datum hole	ø3.2 {0.13}

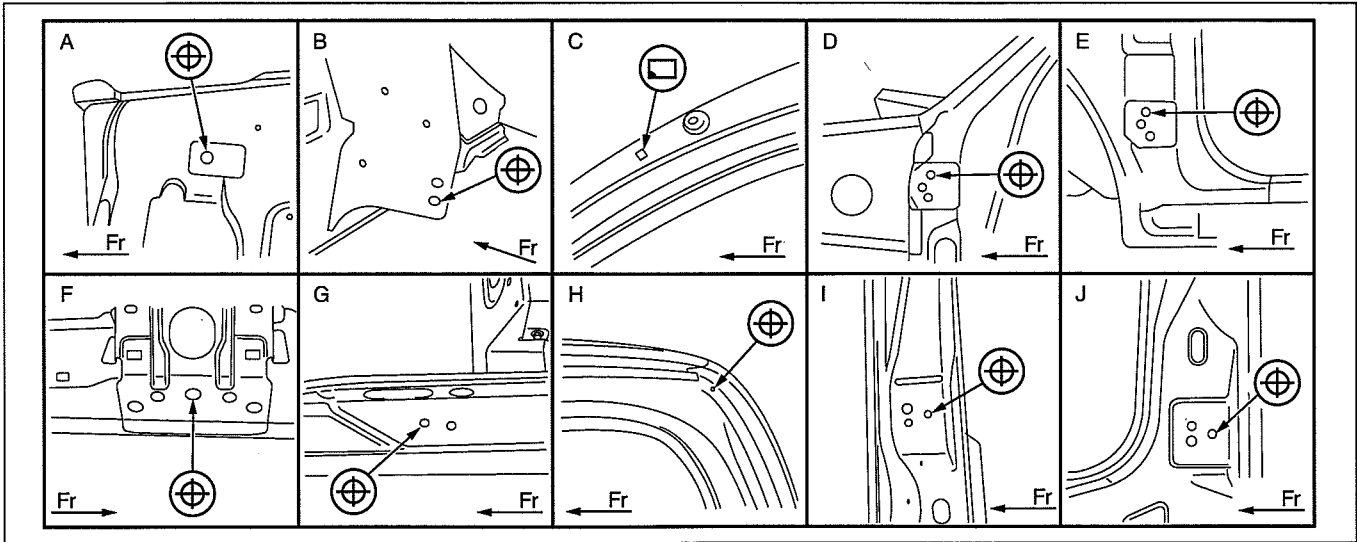
BODY STRUCTURE [DIMENSIONS]

CABIN SIDE FRAME STRAIGHT-LINE DIMENSIONS (STRETHC CAB {WITH REAR ACCESS SYSTEM}, HI-RIDER)

DCF098070010B03



BODY STRUCTURE [DIMENSIONS]



DBG0980B021

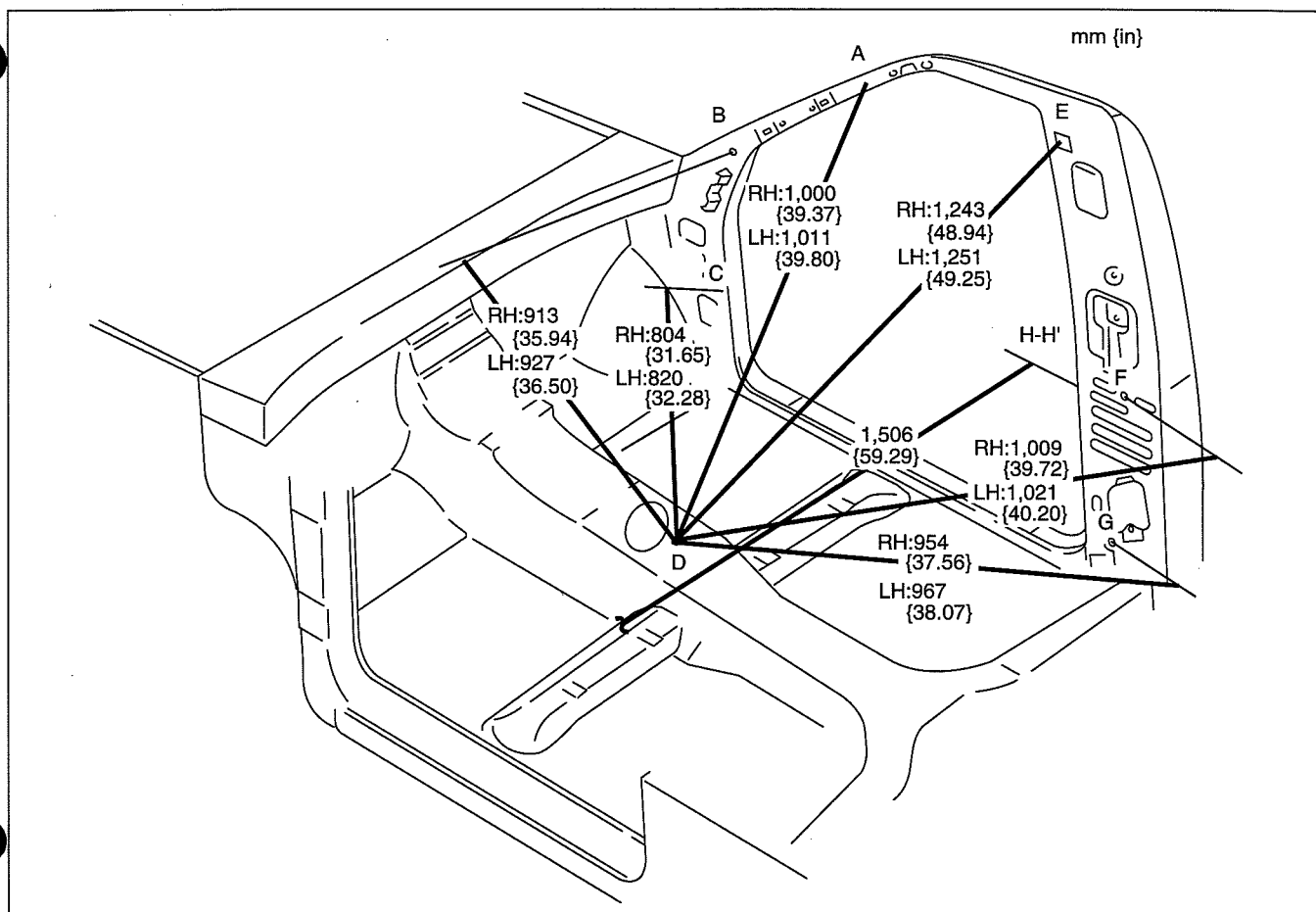
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Wheel apron panel front datum hole	ø12 {0.47}
B	Shroud panel datum hole	ø7 {0.28}
C	Windshield garnish installation square hole	6.8 x 6.8 {0.27 x 0.27}
D	Door hinge installation hole	ø12 {0.47}
E	Door hinge installation hole	ø12 {0.47}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
F	Striker installation hole	ø7 {0.28}
G	Striker installation hole	ø13 {0.51}
H	Side frame outer datum hole	ø5 {0.20}
I	Rear access panel hinge installation hole	ø12 {0.47}
J	Rear access panel hinge installation hole	ø12 {0.47}

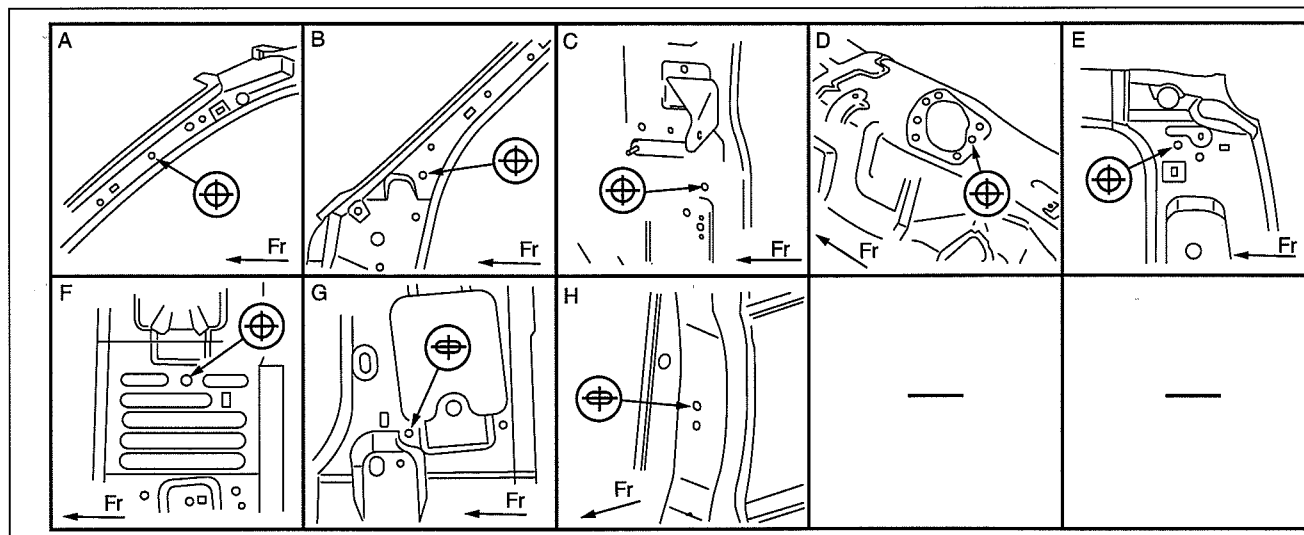
BODY STRUCTURE [DIMENSIONS]

ROOM STRAIGHT-LINE DIMENSIONS (REGULAR CAB)

DCF098070001B01



DBG0980B022



DBG0980B023

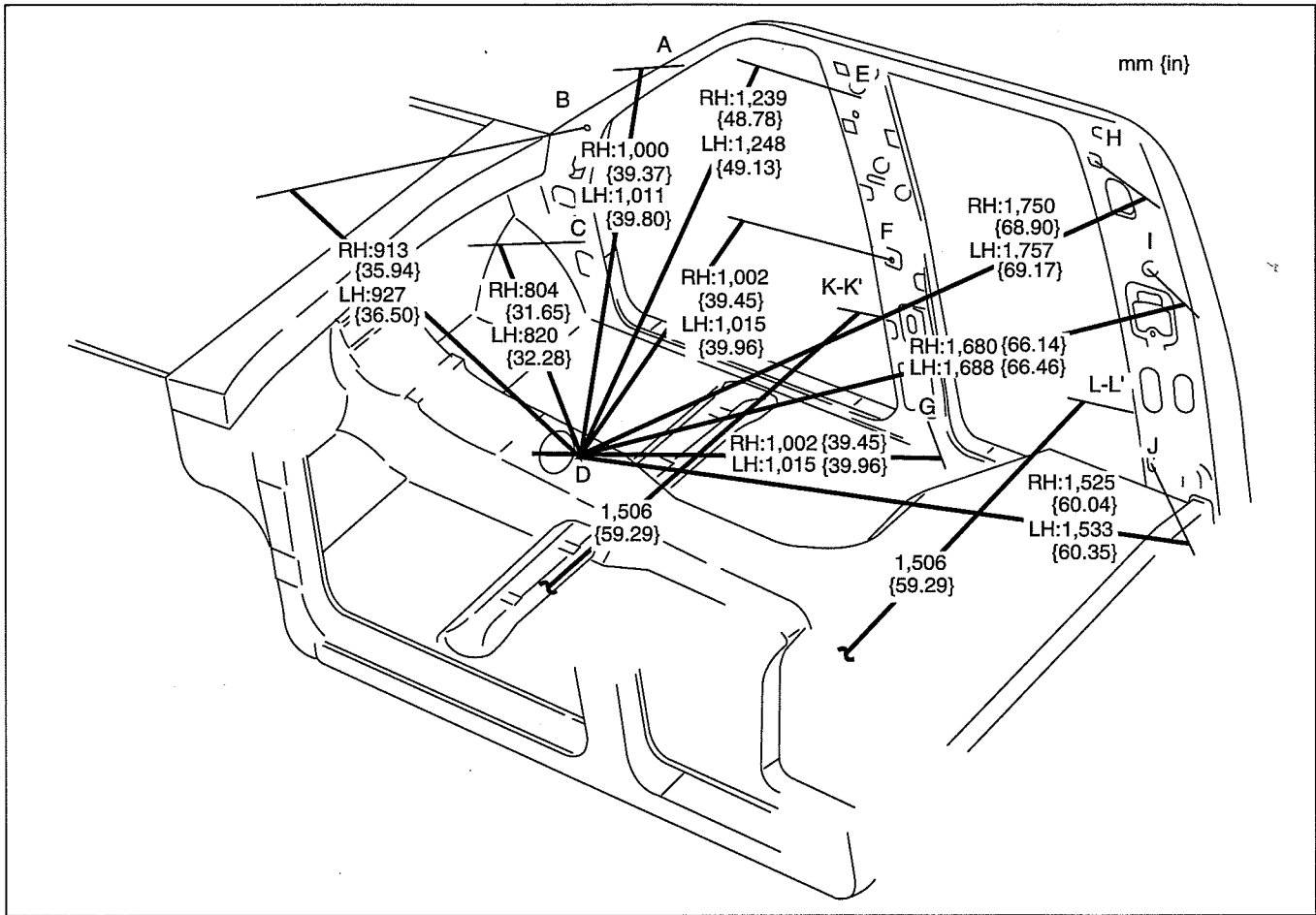
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Harness installation hole	ø7 {0.28}
B	Front pillar inner datum hole	ø10 {0.39}
C	Cowl side panel datum hole	ø12 {0.47}
D	Tunnel reinforcement installation hole	ø7 {0.28}
E	Rear pillar inner datum hole	ø12 {0.47}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
F	Rear pillar inner datum hole	ø12 {0.47}
G	Rear pillar inner datum slot	ø8 x 12 {0.31 x 0.47}
H	Striker installation slot	ø8.2 x 7.6 {0.32 x 0.30}

BODY STRUCTURE [DIMENSIONS]

ROOM STRAIGHT-LINE DIMENSIONS (DOUBLE CAB)

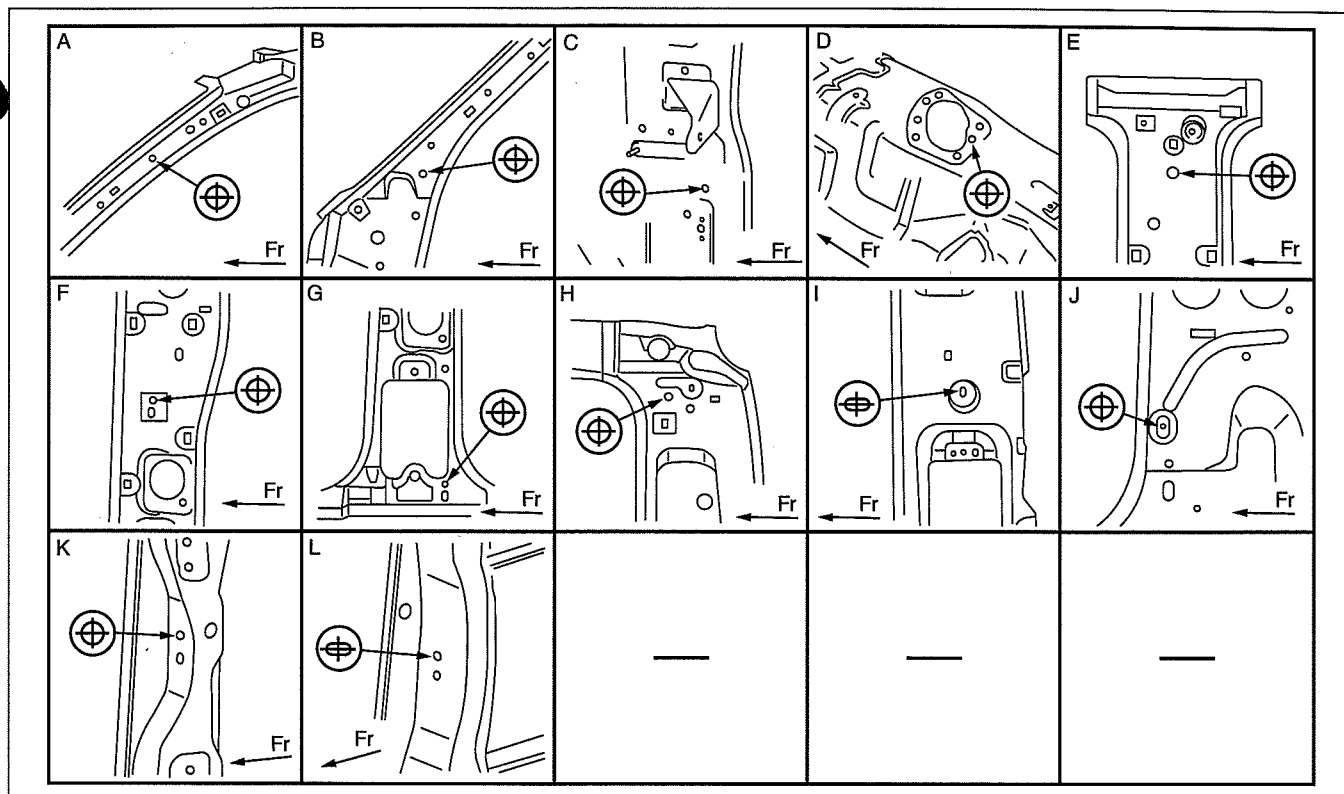
DCF098070001B02



DBG0980B024

BODY STRUCTURE [DIMENSIONS]

80D



DBG0980B025

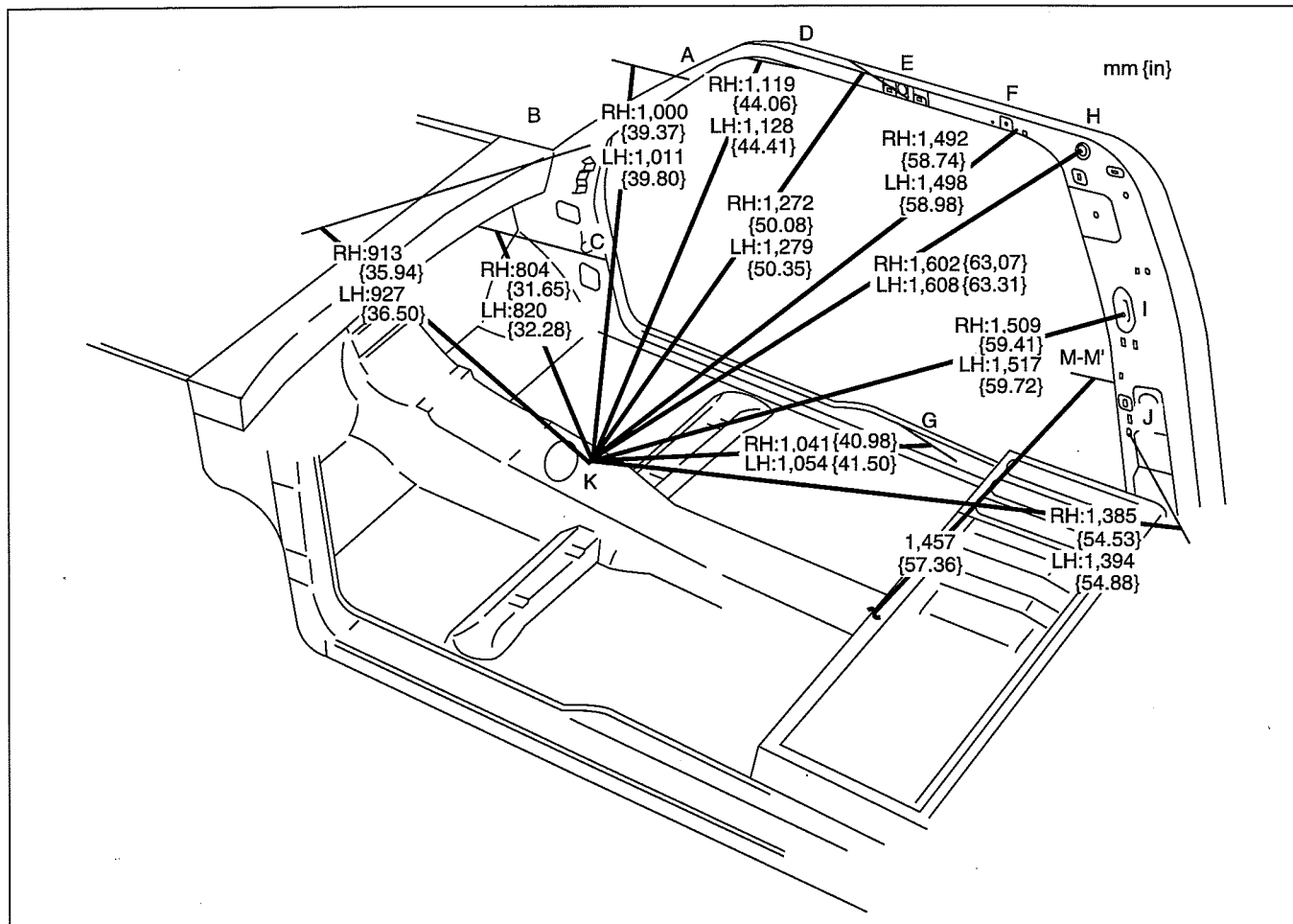
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Harness installation hole	ø7 {0.28}
B	Front pillar inner datum hole	ø10 {0.39}
C	Cowl side panel datum hole	ø12 {0.47}
D	Tunnel reinforcement installation hole	ø7 {0.28}
E	Center pillar inner datum hole	ø7 {0.28}
F	Center pillar inner datum hole	ø7 {0.28}
G	Center pillar inner datum hole	ø7 {0.28}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
H	Rear pillar inner datum hole	ø12 {0.47}
I	Rear pillar inner datum slot	ø7 x 9 {0.28 x 0.35}
J	Rear pillar inner datum hole	ø6 {0.24}
K	Striker installation hole	ø10.2 {0.40}
L	Striker installation slot	ø8.2 x 7.6 {0.32 x 0.30}

BODY STRUCTURE [DIMENSIONS]

ROOM STRAIGHT-LINE DIMENSIONS (STRETCH CAB {WITH REAR ACCESS SYSTEM}, HI-RIDER)

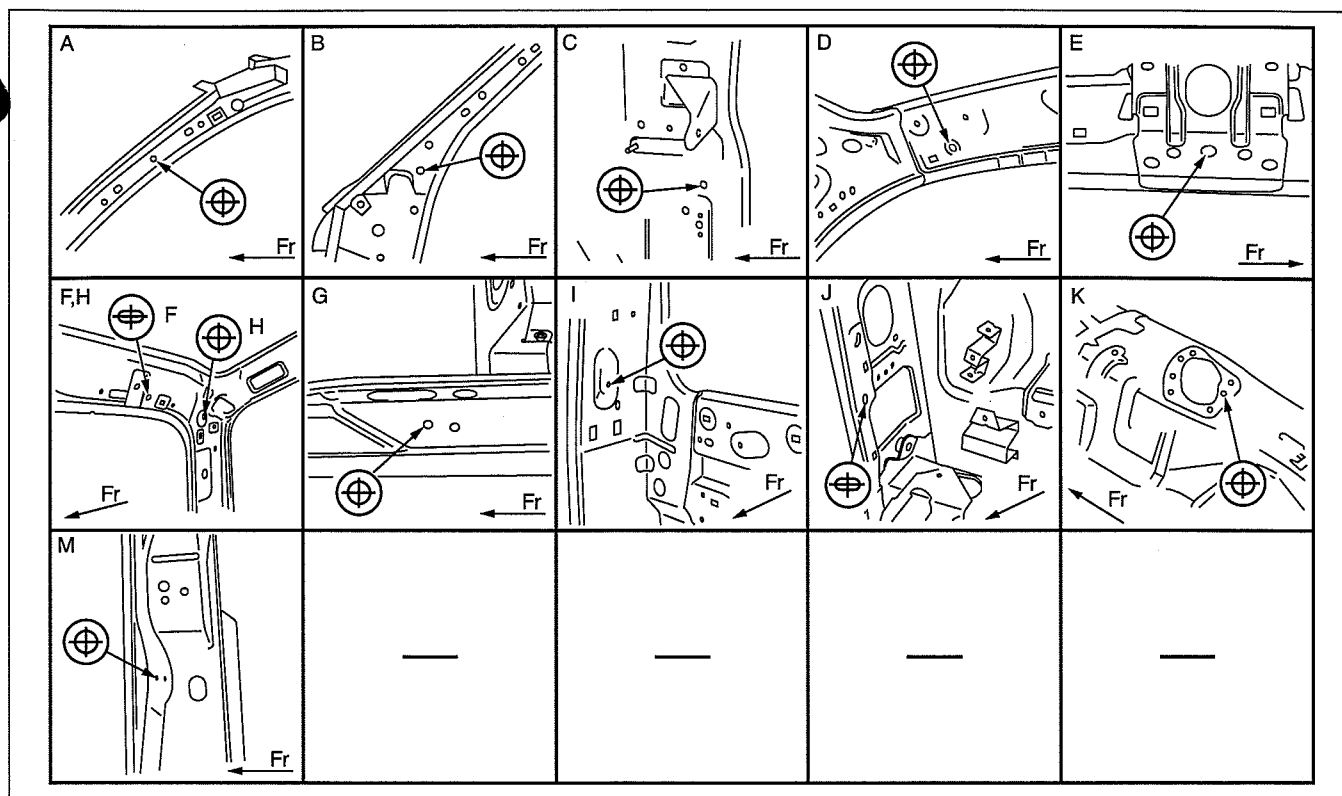
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DBG0980B026

BODY STRUCTURE [DIMENSIONS]

80D

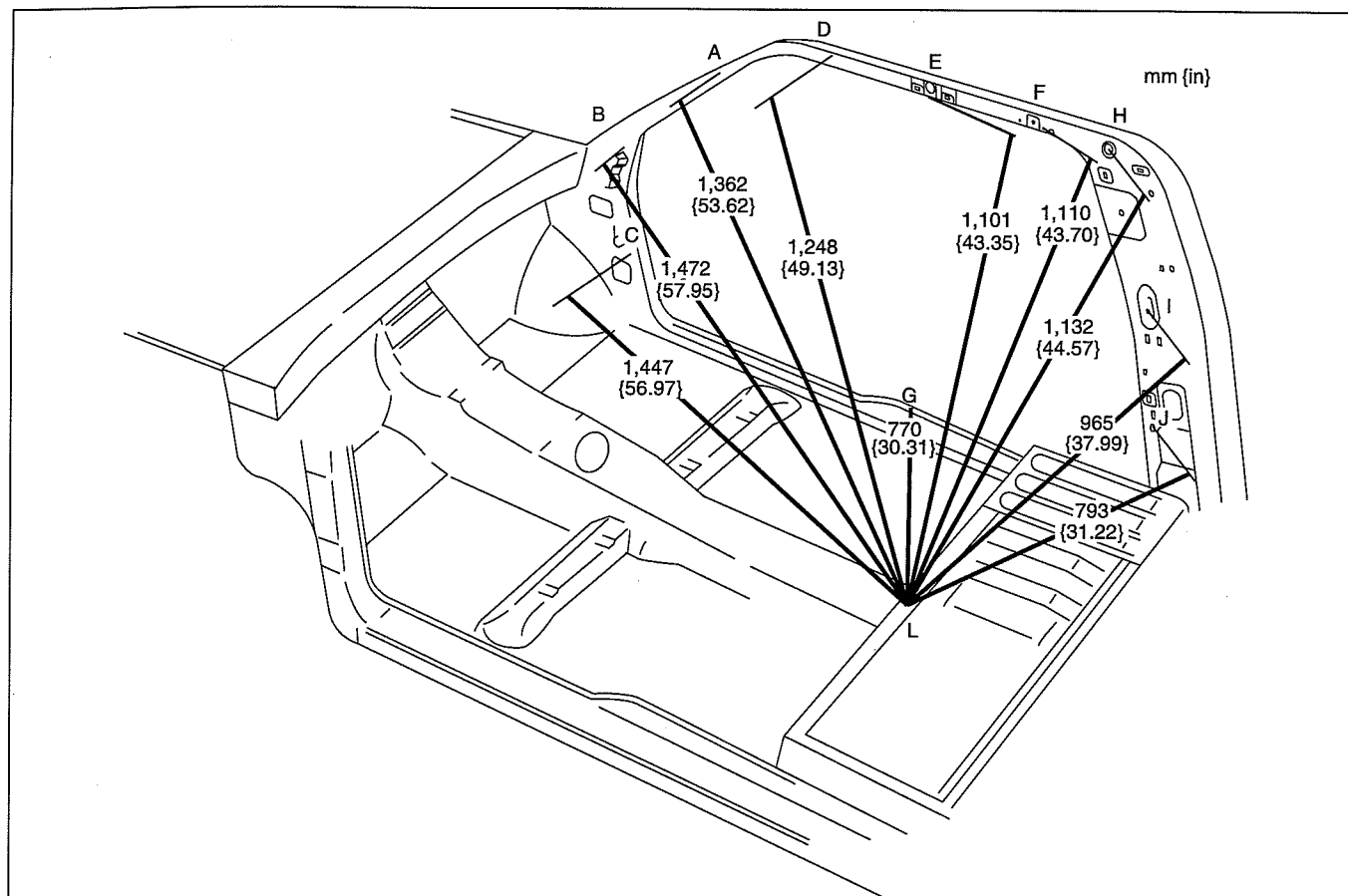


DBG0980B027

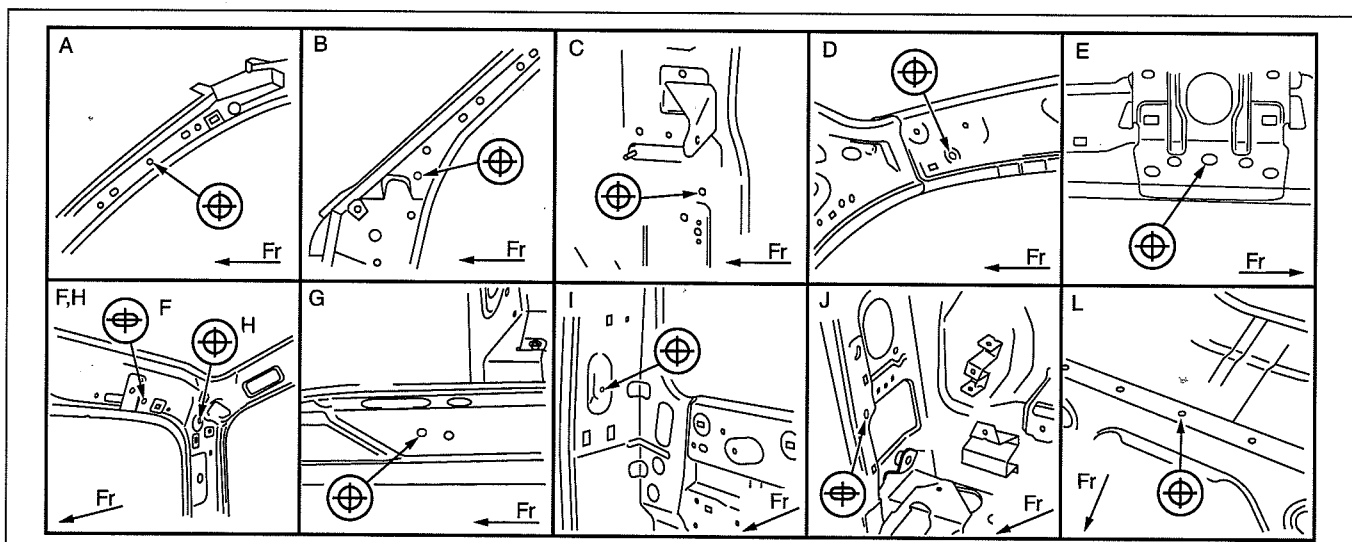
Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Harness installation hole	$\phi 7$ {0.28}
B	Front pillar inner datum hole	$\phi 10$ {0.39}
C	Cowl side panel datum hole	$\phi 12$ {0.47}
D	Trim installation hole	$\phi 10$ {0.39}
E	Striker installation hole	$\phi 7$ {0.28}
F	Trim installation slot	$\phi 10 \times 15$ {0.39 x 0.59}
G	Striker installation hole	$\phi 13$ {0.51}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
H	Rear pillar inner datum hole	$\phi 12$ {0.47}
I	Pillar trim datum hole	$\phi 6$ {0.24}
J	Pillar trim datum slot	$\phi 10 \times 20$ {0.39 x 0.79}
K	Tunnel reinforcement datum hole	$\phi 7$ {0.28}
M	Side frame outer datum hole	$\phi 10$ {0.39}

BODY STRUCTURE [DIMENSIONS]



DBG0980B028



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Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
A	Harness installation hole	ø7 {0.28}
B	Front pillar inner datum hole	ø10 {0.39}
C	Cowl side panel datum hole	ø12 {0.47}
D	Trim installation hole	ø10 {0.39}
E	Striker installation hole	ø7 {0.28}
F	Trim installation slot	ø10 x 15 {0.39 x 0.59}

Point symbol	Designation	Hole diameter or bolt or nut size mm {in}
G	Striker installation hole	ø13 {0.51}
H	Rear pillar inner datum hole	ø12 {0.47}
I	Pillar trim datum hole	ø6 {0.24}
J	Pillar trim datum slot	ø10 x 20 {0.39 x 0.79}
L	Crossmember No.3 datum hole	ø10 {0.39}