L ------ INTRODUCTION

INTRODUCTION

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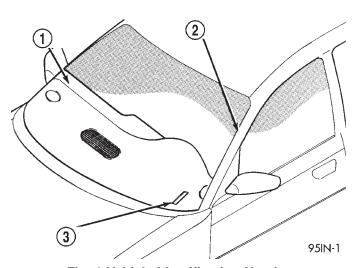
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DESCRIPTION AND OPERATION

VEHICLE IDENTIFICATION NUMBER

The Vehicle Identification Number (VIN) is located on the upper left corner of the instrument panel, near the left A-Pillar. The VIN consists of 17 characters in a combination of letters and numbers that provide specific information about the vehicle (Fig. 1). Refer to VIN Code Decoding Chart.

To protect the consumer from theft and possible fraud the manufacturer is required to include a Check Digit at the ninth position of the Vehicle Identification Number. The check digit is used by the manufacturer and government agencies to verify the authenticity of the vehicle and official documentation. The formula to use the check digit is not released to the general public.



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Fig. 1 Vehicle Identification Number

- 1 INSTRUMENT PANEL
- 2 A-PILLAR
- 3 VIN LOCATION

DESCRIPTION AND OPERATION (Continued)

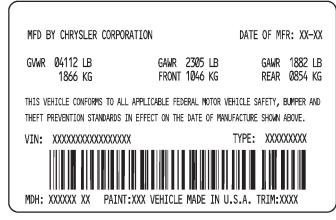
VIN CODE DECODING

POSITION	INTERPRETATION	CODE = DESCRIPTION
1	Country of Origin	1 = United states
2	Make	B = Dodge
	iviake	P = Plymouth
3	Vehicle Type	3 = Passenger Car
4	Pass. Safety	E = Restraint System, Active Driver & Passenger Airbags
5	Car Line	S = Neon
6	Series	2 = Low Line
	Selles	4 = High Line
7	Body Style	6 = 4 Door Sedan
8	Engine	C = 2.0 L 4 Cyl. 16V
9	Check Digit	See explanation in this section.
10	Model Year	Y = 2000
11	Assembly Plant	D = Belvidere
12 Thru 17	Vehicle Build Sequence	6 digit number assigned by assembly plant.

VEHICLE SAFETY CERTIFICATION LABEL

A vehicle safety certification label (Fig. 2) is attached to the rear facing of the driver's door. This label indicates date of manufacture (month and year), Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating (GAWR) front, Gross Axle Weight Rating (GAWR) rear and the Vehicle Identification Number (VIN). The Month, Day and Hour of manufacture is also included.

All communications or inquiries regarding the vehicle should include the Month-Day-Hour and Vehicle Identification Number.



800dfad9

Fig. 2 Vehicle Safety Certification Label

BODY CODE EMBOSS

The vehicle is equipped with a Body Code Emboss and it is located on the rear shelf. The emboss is located in the trunk area on the forward top edge of the rear shelf panel.

SERVICE PROCEDURES

THREADED HOLE REPAIR

Most stripped threaded holes can be repaired using a Helicoil[®]. Follow the manufacture recommendation for application and repair procedures.

SPECIFICATIONS

INTERNATIONAL VEHICLE CONTROL AND DISPLAY SYMBOLS

The graphic symbols illustrated in the following International Control and Display Symbols chart are used to identify various instrument controls. The symbols correspond to the controls and displays that are located on the instrument panel.

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SPECIFICATIONS (Continued)

INTERNATIONAL CONTROL AND DISPLAY SYMBOLS

	# 0	-\\d'-	\phi		
HIGH BEAM	FOG LIGHTS	HEADLIGHTS, PARKING LIGHTS, PANEL LIGHTS	TURN SIGNAL	HAZARD WARNING	WINDSHIELD WASHER
WINDSHIELD WIPER	WINDSHIELD WIPER AND WASHER	WINDSCREEN DEMISTING AND DEFROSTING	VENTILATING FAN	REAR WINDOW DEFOGGER	REAR WINDOW WIPER
REAR WINDOW		ENGINE COOLANT	- +		*
WASHER	FUEL	TEMPERATURE	CONDITION	ENGINE OIL	SEAT BELT
(!)	(P)	\Rightarrow	~	O	
BRAKE FAILURE	PARKING BRAKE	FRONT HOOD	REAR HOOD (TRUNK)	HORN	LIGHTER

FASTENER IDENTIFICATION

THREAD IDENTIFICATION

SAE and metric bolt/nut threads are not the same. The difference is described in the Thread Notation chart (Fig. 4).

INC	4	METR	IC
5/16-	18	M8 X	1.25
THREAD	NUMBER	THREAD	DISTANCE
MAJOR	OF	MAJOR	BETWEEN
DIAMETER	THREADS	DIAMETER IN	THREADS IN
IN INCHES	PER INCH	MILLIMETERS	MILLIMETERS

PR606B

Fig. 4 Thread Notation Chart - SAE and Metric

Fig. 3 GRADE/CLASS IDENTIFICATION

The SAE bolt strength grades range from grade 2 to grade 8. The higher the grade number, the greater the bolt strength. Identification is determined by the line marks on the top of each bolt head. The actual bolt strength grade corresponds to the number of line marks plus 2. The most commonly used metric bolt strength classes are 9.8 and 10.9. The metric strength class identification number is imprinted on the head of the bolt. The higher the class number, the greater the bolt strength. Some metric nuts are imprinted with a single-digit strength class on the nut face. Refer to the Fastener Identification and Fastener Strength Charts.

SPECIFICATIONS (Continued)

FASTENER IDENTIFICATION

10.9

Bolt Markings and Torque - Metric

Commercial Steel Class











12.9

Body Size		To	rque			Tor	que		Torque							
Diam.	Cast Iron Aluminum		num	Cast Iron Aluminum		inum	Cas	t Iron	Aluminum							
mm	N∙m	ft-lb	N•m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N•m	ft-lb				
6	9	5	7	4	14	9	11	7	14	9	11	7				
7	14	9	11	7	18	14	14	11	23	18	18	14				
8	25	18	18	14	32	23	25	18	36	27	28	21				
10	40	30	30	25	60	45	45	35	70	50	55	40				
12	70	55	55	40	105	75	80	60	125	95	100	75				
14	115	85	90	65	160	120	125	95	195	145	150	110				
16	180	130	140	100	240	175	190	135	290	210	220	165				
18	230	1 <i>7</i> 0	180	135	320	240	250	185	400	290	310	230				

Bolt Markings and Torque Values - U.S. Customary

SAE Grade Number

5

8









Bolt	Torque	- Grad	ام ا	Bolt
DOIL	lulube	- Olu	4C U	DOIL

		Bolt Torque	e - Grade 5 B	olt	Bol	t Torque - G	rade 8 Bolt		
Body Size	Cas	t Iron	Alum	ninum	Cast	Iron	Alum	inum	
	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	
1/4 - 20	9	7	8	6	15	11	12	9	
- 28	12	9	9	7	18	13	14	10	
5/16 - 18	20	15	16	12	30	22	24	18	
- 24	23	1 <i>7</i>	19	14	33	24	25	19	
3/8 - 16	40	30	25	20	55	40	40	30	
- 24	40	30	35	25	60	45	45	35	
7/16 - 14	60	45	45	35	90	65	65	50	
- 20	65	50	55	40	95	<i>7</i> 0	<i>7</i> 5	55	
1/2 - 13	95	70	<i>7</i> 5	55	130	95	100	<i>7</i> 5	
- 20	100	<i>7</i> 5	80	60	150	110	120	90	
9/16 - 12	135	100	110	80	190	140	150	110	
- 18	150	110	115	85	210	155	1 <i>7</i> 0	125	
5/8 - 11	180	135	150	110	255	190	205	1 <i>5</i> 0	
- 18	210	155	160	120	290	215	230	1 <i>7</i> 0	
3/4 - 10	325	240	255	190	460	340	365	270	
- 16	365	270	285	210	515	380	410	300	
7/8 - 9	490	360	380	280	745	550	600	440	
- 14	530	390	420	310	825	610	660	490	
1 - 8	720	530	<i>57</i> 0	420	1100	820	890	660	
- 14	800	590	650	480	1200	890	960	<i>7</i> 10	

SPECIFICATIONS (Continued)

FASTENER STRENGTH

HOW TO DETERMINE BOLT STRENGTH

	Mark	Class		Mark	Class
Hexagon head bolt	Bolt 6— head No. 7— 8— 9— 10— 11—	4T 5T 6T 7T 8T 9T 10T	Stud bolt	No mark	4 T
	No mark	4 T			
Hexagon flange bolt w/washer hexagon bolt	No mark	4 T		Grooved	6 T
Hexagon head bolt	Two protruding lines	<i>5</i> T			
Hexagon flange bolt w/washer hexagon bolt	Two protruding lines	6T	Welded bolt		
Hexagon head bolt	Three protruding lines	71			4 T
Hexagon head bolt	Four protruding lines	8T			

SPECIFICATIONS (Continued)

FASTENER USAGE

WARNING: USE OF AN INCORRECT FASTENER MAY RESULT IN COMPONENT DAMAGE OR PERSONAL INJURY.

Figure art, specifications and tightening torque references in this manual are identified in metric and SAE format.

During any maintenance or repair procedures, it is important to salvage all fasteners (nuts, bolts, etc.) for reassembly. If the fastener is not salvageable, a fastener of equivalent specification must be use.

METRIC SYSTEM

The metric system is based on quantities of one, ten, one hundred, one thousand and one million (Fig. 5).

Fig. 5 Metric Prefixes

Mega	-	(M) Million	Deci	-	(D) Tenth
Kilo	-	(K) Thousand	Centi	-	(C) Hundreth
		Milli - (n	n) Thousa	ındth	

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The following chart will assist in converting metric units to equivalent English and SAE units, or vise versa.

CONVERSION FORMULAS AND EQUIVALENT VALUES

Multiply	Ву	To Get	Multiply	By	To Get
in-lbs	x 0.11298	= Newton-Meters (N·m)	N•m	x 8.851	= in-lbs
ft-lbs	x 1.3558	= Newton-Meters (N·m)	N•m	x 0.7376	= ft-lbs
Inches Hg (60°F)	x 3.377	= Kilopascals (kPa)	kPa	× 0.2961	= Inches Hg
psi	x 6.895	= Kilopascals (kPa)	kPa	x 0.145	= psi
nches	× 25.4	= Millimeters (mm)	mm	× 0.03937	= Inches
Feet	x 0.3048	= Meters (M)	M	x 3.281	= Feet
Yards	x 0.9144	= Meters (M)	M	x 1.0936	= Yards
Miles	x 1.6093	= Kilometers (Km)	Km	x 0.6214	= Miles
mph	x 1.6093	= Kilometers/Hr. (Km/h)	Km/h	× 0.6214	= mph
Feet/Sec.	x 0.3048	= Meters/Sec. (M/S)	M/S	x 3.281	= Feet/Sec.
Kilometers/Hr.	× 0.27778	= Meters/Sec. (M/S)	M/S	x 3.600	Kilometers/Hr.
mph	× 0.4470	= Meters/Sec. (M/S)	M/S	x 2.237	= mph
		COMMON METRI	C EQUIVALENTS		
1 Inch = 25 Millio	meters		1 Cubic Inch	= 16 Cul	bic Centimeters
Foot = 0.3 Met	er		1 Cubic Foot	$= 0.03 \mathrm{C}$	lubic Meter
1 Yard = 0.9 Mel			1 Cubic Yard	= 0.8 Cu	bic Meter
Mile = 1.6 Kilon	. • .				

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- INTRODUCTION

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SPECIFICATIONS (Continued)

Refer to the Conversion Chart to convert torque values listed in metric Newton- meters (N·m). Also,

use the chart to convert between millimeters (mm) and inches (in.)

METRIC CONVERSION

in-lbs to Nem

Nem to in-lbs

in- lb	N∙m	in-lb	N∙m	in-lb	N∙m	in-lb	N∙m	in-lb	N∙m	N•m	in-lb	N∙m	in-lb	N•m	in-lb	N∙m	in-lb	N∙m	in-lb
2	.2260	42	4.7453	82	9.2646	122	13.7839	162	18.3032	.2	1,7702	4.2	37.1747	8.2	72.5792	12.2	107.9837	16.2	143.3882
4	.4519		4.9713	84	9.4906		14.0099		18.5292	.4	3.5404	4.4	38.9449	8.4	74.3494	12.4	109.7539	16.4	145.1584
6	.6779		5.1972	86	9.7165	. — .	14.2359		18.7552	.6	5.3107	4.6	40.7152	8.6	<i>7</i> 6.1197	12.6	111.5242	16.6	146.9287
8	9039		5.4232	88	9.9425		14.4618		18.9811	.8	7.0809	4.8	42.4854	8.8	77.8899	12.8	113.2944	16.8	148.6989
10	1.1298		5.6492	90	10.1685		14.6878		19.2071	1	8.8511	5	44.2556		79.6601		115.0646		150.4691
12	1.3558		5.8751	92	10.3944		14.9138		19.4331	1.2	10.6213	5.2	46.0258		81.4303		116.8348		152.2393
14	1.5818		6.1011	94	10.6204		15.1397		19.6590	1.4	12.3916	5.4	47.7961	9.4	83.2006		118.6051		154.0096
16	1.8077	56	6.3270	96	10.8464	136	15.3657	176	19.8850	1.6	14.1618	5.6	49.5663		84.9708		120.3753		155.7798
18	2.0337	58	6.5530	98	11.0723	138	15.5917		20.1110	1.8	15.9320	5.8	51.3365		86.7410		122.1455		157.5500
20	2.2597	60	6.7790	100	11.2983	140	15.8176	180	20.3369	2	17.7022	6	53.1067		88.5112		123.9157		159.3202
22	2.4856	62	7.0049	102	11.5243	142	16.0436	182	20.5629	2.2	19.4725	6.2	54.8770		90.2815		125.6860		163.7458
24	2.7116	64	7.2309	104	11.7502	144	16.2696	184	20.7889	2.4	21.2427	6.4	56.6472		92.0517		127.4562		168.1714
26	2.9376	66	7.4569	106	11.9762	146	16.4955	186	21.0148	2.6	23.0129	6.6	58.4174		93.8219		129.2264		172.5970
28	3.1635	68	7.6828	108	12.2022	148	16.7215	188	21.2408	2.8	24.7831	6.8	60.1876		95.5921		130.9966		177.0225
30	3.3895	70	7.9088	110	12.4281	150	16.9475	190	21.4668	3	26.5534	<u>ا ۱</u>	61.9579		97.3624		132.7669		181.4480
32	3.6155		8.1348	112	12.6541	152	17.1734	192	21.6927	3.2	28.3236	7.2	63.7281		99.1326		134.5371		185.8736
34	3.8414		8.3607	114	12.8801		17.3994		21.9187	3.4	30.0938	7.4	65.4983		100.9028		136.3073		194.7247 203.5759
36	4.0674		8.5867		13.1060		17.6253		22.1447	3.6	31.8640	7.6	67.2685	1	102.6730		138.0775		212,4270
38	4.2934		8.8127	118	13.3320		17.8513		22.3706	3.8	33.6342	7.8	69,0388		104.4433		139.8478		221.2781
40	4.5193	80	9.0386	120	13.5580	160	18.0773	200	22.5966	4	35.4045	8	70.8090	12	106.2135	10	141.6180	23	421.2/01

ft-lbs to N•m

N•m to ft-lbs

ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb	N∙m	ft-lb
1	1.3558	21	28.4722	41	55.5885	61	82.7049	81	109.8212	1	.7376	21	15.9888	41	30.2400	61	44.9913	81	59.7425
2	2.7116	22	29.8280	42	56.9444	62	84.0607	82	111.1770	2	1.4751	22	16.2264	42	30.9776	62	45.7289	82	60.4801
3	4.0675	23	31.1838	43	58.3002	63	85.4165	83	112.5328	3	2.2127	23	16.9639	43	31.7152	63	46.4664		61.2177
4	5.4233	24	32.5396	44	59.6560	64	86.7723	84	113.8888	4	2.9502	24	17.7015	44	32.4527	64	47.2040		61.9552
5	6.7791	25	33.8954	45	61.0118	65	88.1281	85	115,2446	5	3.6878	25	18.4391	45	33.1903	65	47.9415	85	62.6928
6	8.1349	26	35.2513	46	62.3676	66	89.4840	86	116.6004	6	4.4254	26	19.1766	46	33.9279	66	48.6791	86	63.4303
7	9.4907	27	36.6071	47	63.7234	67	90.8398	87	117.9562	7	5.1629	27	19.9142	47	34.6654	67	49.4167	87	64.1679
8	10.8465	28	37.9629	48	65.0793	68	92.1956	88	119.3120	8	5.9005	28	20.6517	48 .	35.4030	68	50.1542		64.9545
9	12.2024	29	39.3187	49	66.4351	69	93.5514	89	120.6678	9	6.6381	29	21.3893	49	36,1405	69	50.8918		65.6430
10	13.5582	30	40.6745	50	67.7909	70	94.9073	90	122.0236	10	7.3756	30	22.1269	50	36.8781	70	51.6293		66.3806
11	14.9140	31	42.0304	51	69.1467	71	96.2631	91	123.3794	11	8.1132	31	22.8644	51	37.6157	71	52.3669		67.1181
12	16.2698	32	43.3862	52	70.5025	72	97.6189	92	124.7352	12	8.8507	32	23.6020	52	38.3532	72	53.1045		67.8557
13	17.6256	33	44.7420	53	71.8583	73	98.9747	93	126.0910	.13	9.5883	33	24.3395	53	39.0908	73	53.8420		68.5933
14	18.9815	34	46.0978	54	73.2142	74	100.3316	94	127.4468	14	10.3259	34	25.0771	54	39.8284	74	54.5720		69.3308
15	20.3373	35	47.4536	55	74.5700	75	101.6862	95	128.8026	15	11.0634	35	25.8147	55	40.5659	75	55.3172	95	70.0684
16	21.6931	36	48.8094	56	75.9258	76	103.0422	96	130.1586	16	11.8010	36	26.5522	56	41.3035	76	56.0547	96	70.8060
17	23.0489	37	50.1653	57	77.2816	77	104.3980	97	131.5144	17	12.5386	37	27.2898	57	42.0410		56.7923		71.5435
18	24.4047	38	51.5211	58	78.6374	78	105.7538	98	132.8702	18	13.2761	38	28.0274	58	42.7786	78	57.5298		72.2811
19	25.7605	39	52.8769	59	79.9933	79	107.1196		134.2260	19	14.0137	39	28.7649	59	43.5162	79	58.2674		73.0187
20	27.1164	40	54.2327	60	81.3491	80	108.4654	100	135.5820	20	14.7512	40	29.5025	60	44.2537	80	59.0050	100	73.7562

in. to mm

mm to in.