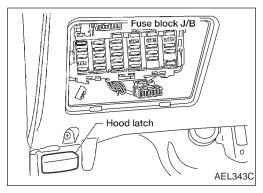
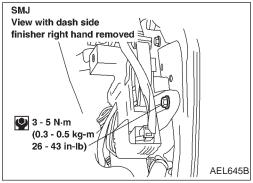
# **SUPER MULTIPLE JUNCTION (SMJ)**





#### **INSTALLATION**

To install SMJ, tighten bolts until orange "fulltight" mark appears and then retighten to specified torque as required.

**❷**: 3 - 5 N·m

(0.3 - 0.5 kg-m, 26 - 43 in-lb)

#### **CAUTION:**

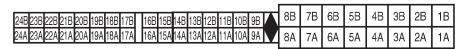
Do not overtighten bolt, otherwise, it may be damaged.

# **SUPER MULTIPLE JUNCTION (SMJ)**

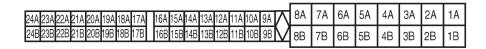
# **Terminal Arrangement**

#### MAIN HARNESS

M65

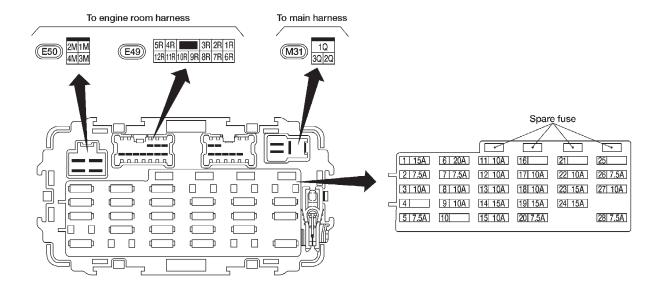


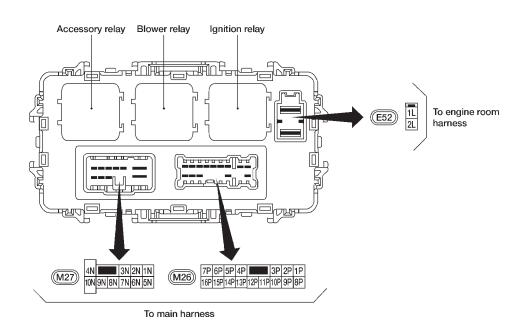




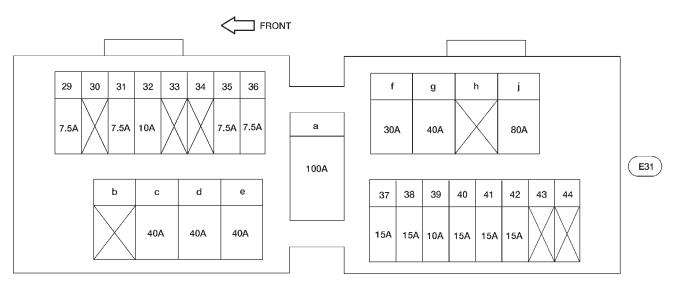
**E**43

**ENGINE ROOM HARNESS** 





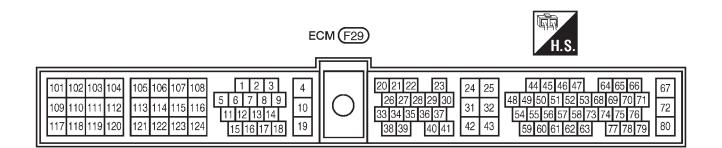
# **Fuse Arrangement**



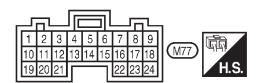
No 29 - 44: FUSE

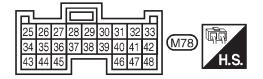
a - j: FUSIBLE LINK

#### **ELECTRICAL UNITS**

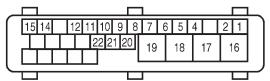


#### TCM (TRANSMISSION CONTROL MODULE)



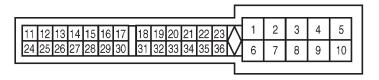






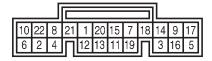


#### SMART ENTRANCE CONTROL UNIT (M10)





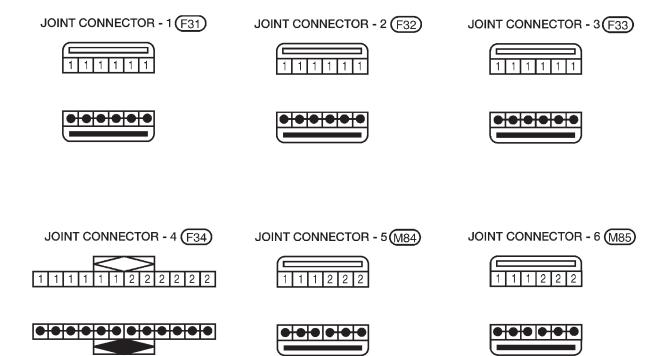
#### AIR BAG DIAGNOSIS SENSOR UNIT Z6





# JOINT CONNECTOR (J/C)

#### Location



# QUICK REFERENCE CHART: FRONTIER 085

# ENGINE TUNE-UP DATA

ENGINE FORE		141		
Engine model			VG33E	
Firing order			1-2-3-4-5-6	
Idle speed	rpm			
МТ			750° ± 50	
A/T (in "N" position)			750° ± 50	
Ignition timing (degree B.T.D.C. at i	dle speed)		15° ± 2°	
CO% at idle		Idle mixture screw is preset and sealed at factory		
Spark plug	Standard		FR5AP-10	
Туре	Cold		FR6AP-10	
	Hot		FR4AP-10	
Gap	mm (in)	1.0	0.039 - 0.0	43)
Drive belt deflection (Cold)	mm (in)	Used	belt	
		Limit	Deflection after adjustment	Deflection of new belt
Generator		11 (0.43)	7 - 8 (0.24 - 0.31)	6 - 7 (0.24 - 0.28)
Air conditioner compressor		18 (0.71)	12 - 13 (0.47 - 0.51)	10.5 - 11.5 (0.413 - 0.453)
Power steering oil pump		15 (0.59)	9.5 - 10.5 (0.374 - 0.413)	8 - 9 (0.31 - 0.35)
Drive belt tension	N (kg, lb)	Used	l belt	
		Limit	Tension after adjustment	Tension of new belt
Generator		226 (23, 51)	554.1-642.4 (56.5- 65.5, 124.6-144.4)	671.8-760.0 (68.5- 77.5, 151.0-170.9)
Air conditioner compressor		196 (20, 44)	495.3-583.5 (50.5- 59.5, 111.4-131.2)	
Power steering oil pump		275 (28, 62)	554.1-642.4 (56.5- 65.5, 124.6-144.4)	
Applied pressed force	N (kg, lb)		98 (10, 22)	
Radiator cap relief pressure kPa (k	g/cm², psi)	78 -	98 (0.8 - 1.0, 11 -	14)
Cooling system leakage testing press kPa (k	ure g/cm², psi)		157 (1.6, 23)	
Compression pressure	Standard	1,	,196 (12.2, 173)/30	00
kPa (kg/cm², psi)/rpm	Minimum		883 (9.0, 128)/300	1
Tightening torque		N-m	kg-m	ft-lb
Spark plug		20 - 29	2.0 - 3.0	14 - 22
Oil pan drain plug		29 - 39	3.0 - 4.0	22 - 29

# FRONT WHEEL ALIGNMENT (Unladen\*1)

Camber		Minimum	0°06' (	0.10°)
		Nominal	0°36' (	0.60°)
	Degree minute	Maximum	1°06' (	1.10°)
	(Decimal degree)	Left and right difference	45' (0.75°	) or less
Caster		Minimum	1°40' (	1.67°)
		Nominal	2°10' (	2.17°)
	Daniel minute	Maximum	2°40' (	2.67°)
	Degree minute (Decimal degree)		45' (0.75°) or less	
Kingpin inclination		Minimum	10°18' (	10.30°)
	Danna minuta	Nominal	10°48' (	10.80°)
	Degree minute (Decimal degree)		11°8' (11.30°)	
Total toe-in		Minimum	3 (0.	12)
	Distance (A - B)	Nominal	4 (0.	16)
	mm (in)	Maximum	5 (0.	20)
	Angle (left plus right)	Minimum	15' (0	.25°)
	Degree minute	Nominal	10°48' (	10.80°)
	(Decimal degree)	Maximum	11°8' (1	1.30°)
			Except P235/70R15	P235/70R15
Wheel turning angle	e Inside	Minimum	33°06' (33.10°)	31°00' (31.00°)
	Degree minute	Nominal	35°06' (35.10°)	33°00' (33.00°)
	(Decimal degree)	Maximum	35°06' (35.10°)	33°00' (33.00°)
Full turn *2	Outside	Minimum	31°12' (31.20°)	29°00' (29.00°)
	Degree minute	Nominal	33°12' (33.20°)	31°00' (31.00°)
	(Decimal degree)	Maximum	33°12' (33.20°)	31°00' (31.00°)

Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
 On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.

### **EQUIPPED WITH 3.3L, VG ENGINE**

#### CLUTCH PEDAL

Unit: mm (in)

Pedal height	227 - 237 (8.94 - 9.33)	
Pedal free play	7 - 14 (0.27 - 0.55)	

#### BRAKE

Disc brake		
Pad minimum thickness	2.0 (0.079)	
Rotor repair limit Runout	0.07 (0.0028)	
Minimum thickness	24.0 (0.945), CL28VD	
Drum brake		
Lining minimum thickness	1.5 (0.0059)	
Drum repair limit Maximum inner diameter	296.5 (11.67), LT30A	
Parking brake		
Number of notches*2	10 - 12	

<sup>\*1</sup> At pulling force: 196 N (20 kg, 44 lb)

#### FRONT WHEEL BEARING

load (At hub bolt)		
Wheel bearing lock nut Tightening torque N•m	(kg-m, ft-lb)	78 - 98 (8 - 10, 58 - 72)
Retightening torque after loosening wheel bearing lock nut  N•m Axial end play	(kg-m, ft-lb) mm (in)	0.5 - 1.5 (0.05 - 0.15, 0.4 - 1.1) 0 (0)
Start force at wheel hub bolt	N (kg, lb)	A
Turning angle Starting force at wheel hub bolt	degree N (kg, lb)	15° - 30° B
Wheel bearing preload at wheel hub bolt B - A	N (kg, lb)	7.06 - 20.99 (0.72 - 2.14, 1.59 - 4.72)

#### REFILL CAPACITIES

Unit		Metric measure	US measure 21.1 gal 11-1/4 qt	
Fuel tank Coolant (with reservoir)				80/
				10.6/
	With oil filter		3.3/	3-1/2 qt
Engine	Without oil filter		3.0/	3-1/8 qt
Dry engine (engine overhaul)			3.8/	4 qt
Transmission		M/T	5.1/	10-3/4 qt
		A/T	8.5/	9 qt
Transfer			2.2/	2-3/8 qt
Final drive	Rear	H233B	0.2/	6.8 fl oz
	Front *	R200A	0.6 - 0.7 kg	1.32 - 1.54 lb
Power steering	g system	PB59K	1.0 - 1.1/	33.8 - 35.2
Air conditioning system		Lubricant	0.2/	6.8 fl oz
		Refrigerant *	0.6 - 0.7 kg	1.32 - 1.54 lb

<sup>\*</sup>R-134a