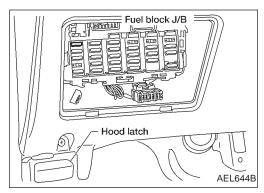
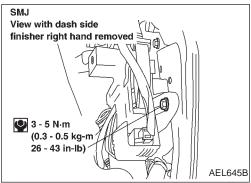
SUPER MULTIPLE JUNCTION (SMJ)





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:

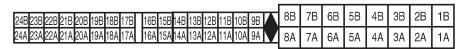
Do not overtighten bolt, otherwise, it may be damaged.

SUPER MULTIPLE JUNCTION (SMJ)

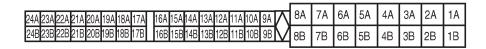
Terminal Arrangement

MAIN HARNESS

M65

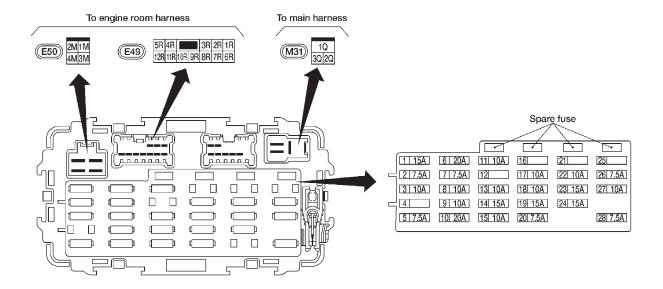


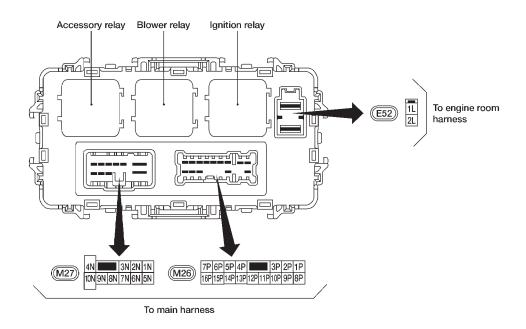




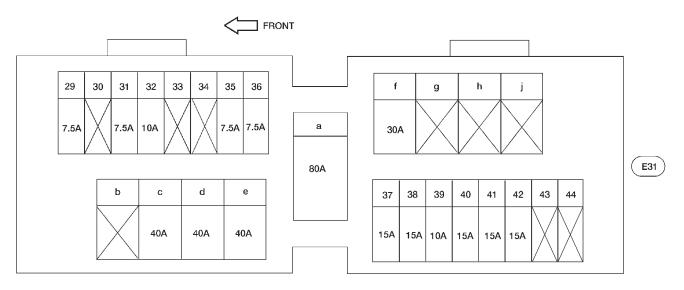
E43

ENGINE ROOM HARNESS



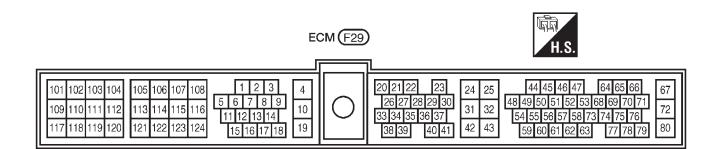


Fuse Arrangement



No 29 - 44: FUSE

a - j: FUSIBLE LINK

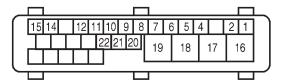


ABS CONTROL UNIT (WITH 2-WHEEL ABS) (M23)

8	7	6	5	4	3	2	1
9	10	11	12				17

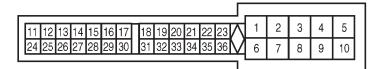


ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) (WITH 4-WHEEL ABS) (E39)



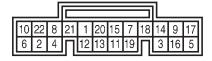


SMART ENTRANCE CONTROL UNIT (M10)





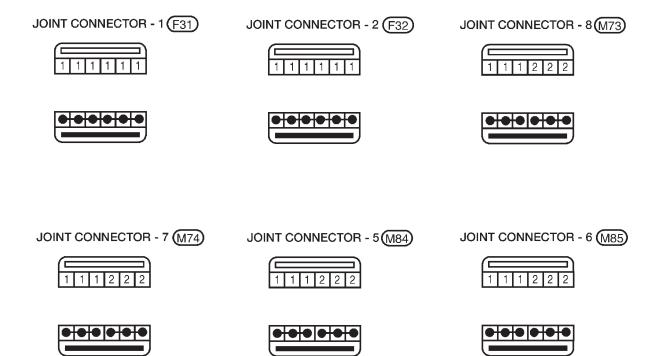
AIR BAG DIAGNOSIS SENSOR UNIT Z6





JOINT CONNECTOR (J/C)

Location



QUICK REFERENCE CHART: FRONTIER 085[

ENGINE TUNE-UP DATA Engine model KA24DE Firing order 1-3-4-2 idle speed 800° ± 50 A/T (in "N" position) 800° ± 50 Ignition timing (degree B.T.D.C. at idle speed) 20° ± 2° Idle mixture screw is preset and sealed at factory CO% at idle Spark plug Standard FR5AP-10 Type Cold FR6AP-10 FR7AP-10 Gap 1.0 - 1.1 (0.039 - 0.043) mm (in) Drive belt deflection (Cold) mm (in) Used belt Deflection after adjustment Deflection Limit of new belt Generator 10 - 12 (0.39 - 0.47) 8 - 10 (0.31 - 0.39) 16 (0.63) Air conditioner compressor 10 - 13 (0.39 - 0.51) Power steering oil pump 8 - 10 (0.31 - 0.39) Drive helt tension N (kg, lb) Tension Tension of new belt Limit adjustment Generator 355.8 - 444.8 489.3 - 578.2 222.4 (22.7, 50) 355.8 - 444.8 489.3 - 578.2 Air conditioner compressor 200.2 (20.4, 45) (36.3-45.4, 80-100) 49.9-59.0, 110-130 355.8 - 444.8 489.3 - 578.2 Power steering oil pump 222.4 (22.7, 50) (36.3-45.4, 80-100) (49.9-59.0, 110-130 Applied pressed force N (kg, lb) 80 - 100 (8.2 - 10.2, 18 - 22.5) Radiator cap relief pressure kPa (kg/cm², psi) 78 - 98 (0.8 - 1.0, 11 - 14) Cooling system leakage testing pressure 157 (1.6, 23) kPa (kg/cm², psi) Compression pressure Standard 1,226 (12.5, 178)/300 kPa (kg/cm², psi)/rpm Minimum 1,030 (10.5, 149)/300 Tightening torque N·m 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)

				(-			, /
				2WD		4	WD
Camber	Minimum		-0°05' (-0.08°)			0°06' (0.10°)	
	Nominal		-0°25' (-0.08°)			0°36' (0.60°)	
Degree minute	Maximum		-0°55' (-0.08°)		1°06'	(1.10°)	
(Decimal degree)	Left and right difference		45° (0.75°) or less		45° (0.75°) or less		
Caster	Minimum		0°0	06' (0.10°)		1°40'	(1.67°)
	Nominal		0°3	36' (0.60°)		2°10'	(2.17°)
Dames misses	Maximum		1°06' (1.10°)		2°40' (2.67°)		
Degree minute (Decimal degree)	Left and right difference		45' (0.75°) or less		45' (0.75°) or less		
Kingpin inclination	Minimum		8°3	35' (8.58°)		10°18'	(10.30°)
D	Nominal		9°0)5' (9.08°)		10°48'	(10.80°)
Degree minute (Decimal degree)	Maximum		9°3	35' (9.58°)		11°18'	(11.30°)
Total toe-in	Minimum		:	2 (0.12)			
Distance (A - B)	Nominal			3 (0.16)			
mm (in)	Maximum			4 (0.20)			
Angle (left plus right)	Minimum		15' (0.25°)				
Degree minute	Nominal		10°48' (10.80°)				
(Decimal degree)	Maximum		11°	8' (11.30°)			
		Р	Except 235/70R15	P235/70R15	Р	Except 235/70R15	P235/70R15
Wheel turning angle Inside	Minimum	36	°00' (36.00°)	35°00' (35.00°)	33	°06' (33.10°)	31°00' (31.00°)
Degree minute	Nominal	38	°00' (38.00°)	37°00' (37.00°)	35	°06' (35.10°)	33°00' (33.00°)
(Decimal degree)	(Decimal degree) Maximum 3		°00' (38.00°)	37°00' (37.00°)	35	°06' (35.10°)	33°00' (33.00°)
Full turn *2 Outside	Minimum	32	°36' (32.60°)	31°36' (31.60°)	31	°12' (31.20°)	29°00' (29.00°)
Degree minute	Nominal	34°36' (34.80°)		33°36' (33.60°)	33	°12' (33.20°)	31°00' (31.00°)
(Decimal degree)	Maximum	34	°36' (34.60°)	33°36' (33.60°)	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 2.4L, KA ENGINE

	Unit: m		
Pedal height	221 - 231 (8.70 - 9.09)		
Pedal free play	7 - 14 (0.27 - 0.55)		
Disc brake	Unit: m		
Pad minimum thickness	2.0 (0.079)		
Pad minimum thickness Rotor repair limit Runout	2.0 (0.079) 0.07 (0.0028)		
Rotor repair limit			
Rotor repair limit Runout	0.07 (0.0028)		

10 - 12

FRONT WHEEL BEARING

		Model					
Item		2WD	4WD				
Tightening torque N • m (kg•m, ft-lb)		34 - 39 (3.5 - 4.0, 25 - 29)	_				
Return angle degree		45° - 60°	_				
			Wheel bearing Tightening torque N • m (kg•m, ft-lb)	78 - 98 (8-10, 58 - 72)			
Preload (At hub bolt) N (kg	Nersea sea		Retightening torque after loosening wheel bearing lock nut N•m (kg•m, ft-lb) Axial end play mm (in)	0.5 - 1.9 (0.05 - 0.9 0.4 - 1.1			
			Start force at wheel hub bolt N • m (kg, lb)	А			
	Use		Turning angle degree Starting force at wheel hub bolt N • m (kg, lb)	15° - 30 B			
			Wheel bearing preload at wheel hub bolt B- A N (kg, lb)	7.06 - 20. (0.72 - 2.1 1.59 - 4.7			

REFILL CAPACITIES

	Unit	Metric measure	US measure		
Fuel tank		60/	15.9 gal		
Coolant (with rese	rvoir)	2WD MT	9.15/	9-5/8 qt	
		2WD AT	8.95/	9-1/2 qt	
		4WD	9.25/	9-3/4 qt	
	2WD	With oil filter	3.5/	3-3/4 qt	
		Without oil filter	3.3/	3-1/2 qt	
Engine	Dry engine	(engine overhaul)	4.1/	4-3/8 qt	
	4WD	With oil filter	3.9/	4-1/8 qt	
		Without oil filter	3.7/	3-7/8 qt	
	Dry engine	(engine overhaul)	4.5/	4-3/4 qt	
Transmission	M/T	2WD	2.0/	4-1/4 pt	
		4WD	4.9/	10-3/8 pt	
	A/T	_	7.9/	8-3/8 qt	
Transfer		4WD	2.2/	2-3/8 qt	
Final drive	Rear	H190A	1.5/	3-1/8 pt	
		C200	1.3/	2-3/4 pt	
	Front	R180A	1.3/	1-1/8 pt	
Manual steering system			0.62/	2-3/8 qt	
Power steering system		PB48S	0.9 - 1.0/	30.4 - 33.8 fl oz	
		PB59K	1.0 - 1.1/	33.8 - 37.2 fl oz	
Air conditioning sy	stem	Lubricant	0.2/	6.8 fl oz	
		Refrigerant *	0.6 - 0.7 kg	1.32 - 1.54 lb	

^{*1} At pulling force: 196 N (20 kg, 44 lb)