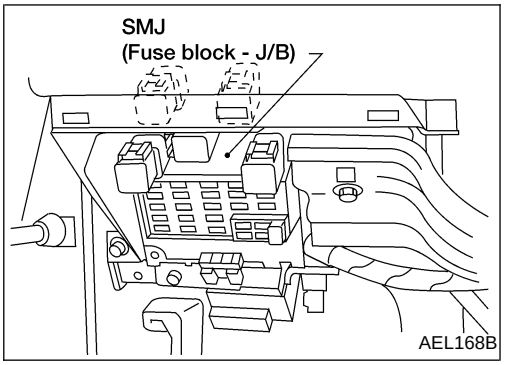
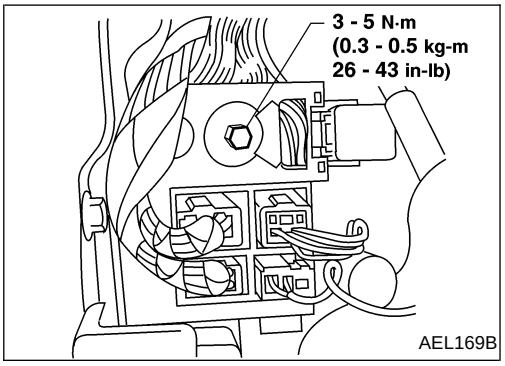




INSTALLATION

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

: 3 - 5 N·m
(0.3 - 0.5 kg-m, 26 - 43 in-lb)

CAUTION:

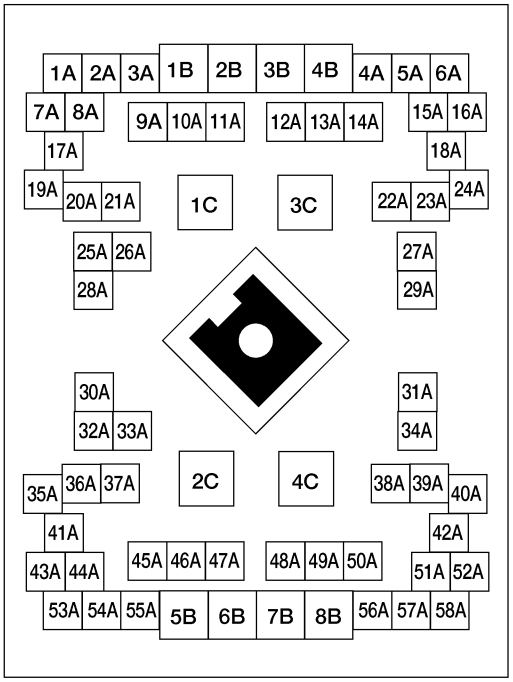
Do not overtighten bolts, otherwise, they may be damaged.

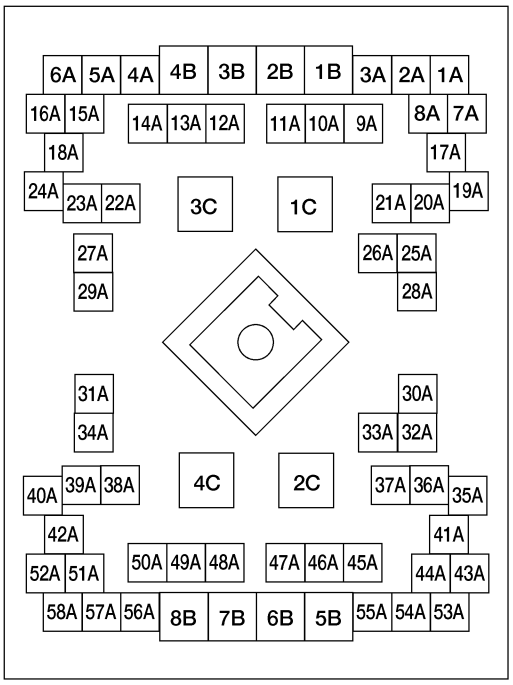
Terminal Arrangement

MAIN HARNESS

T.S.

M8



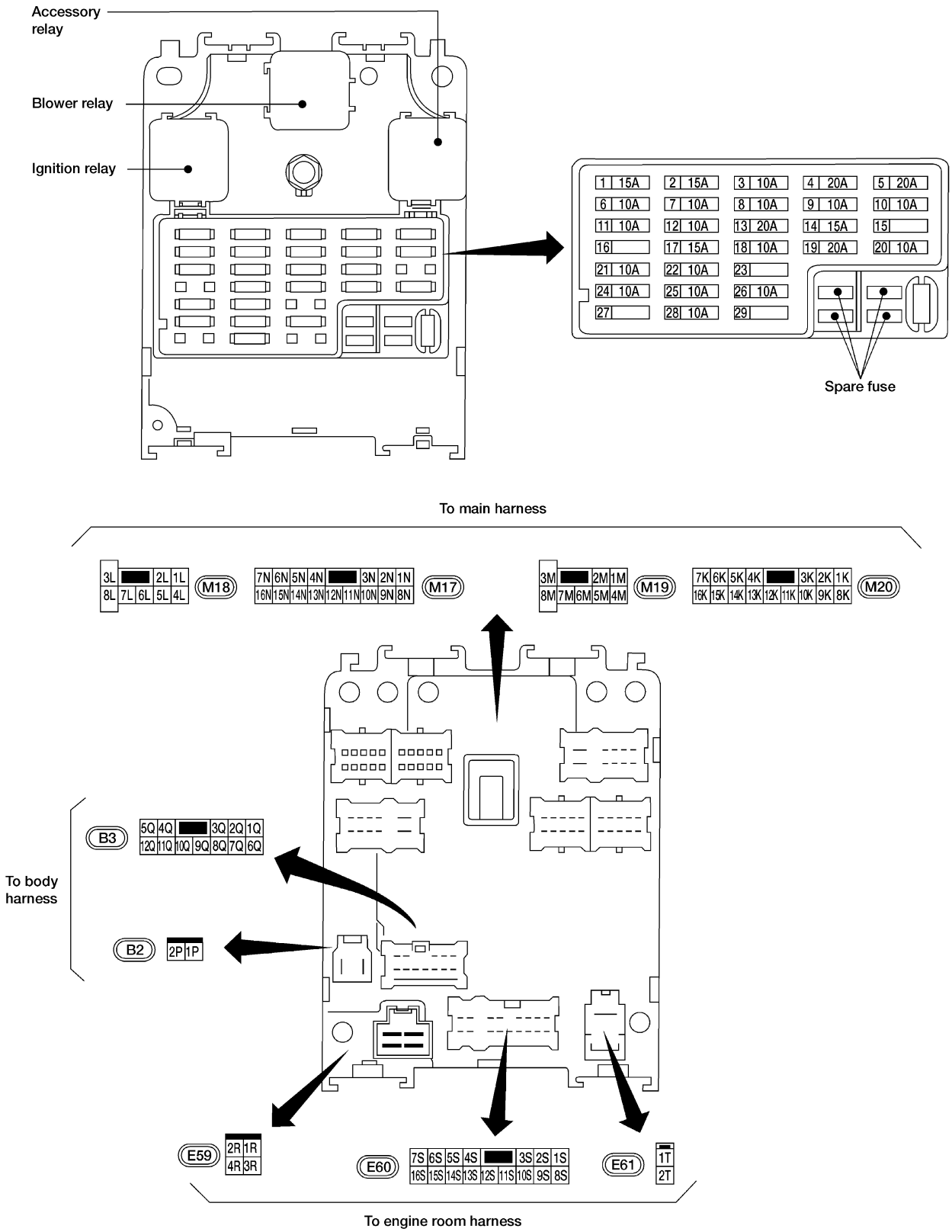


E65

ENGINE ROOM HARNESS

FUSE BLOCK — Junction Box (J/B)

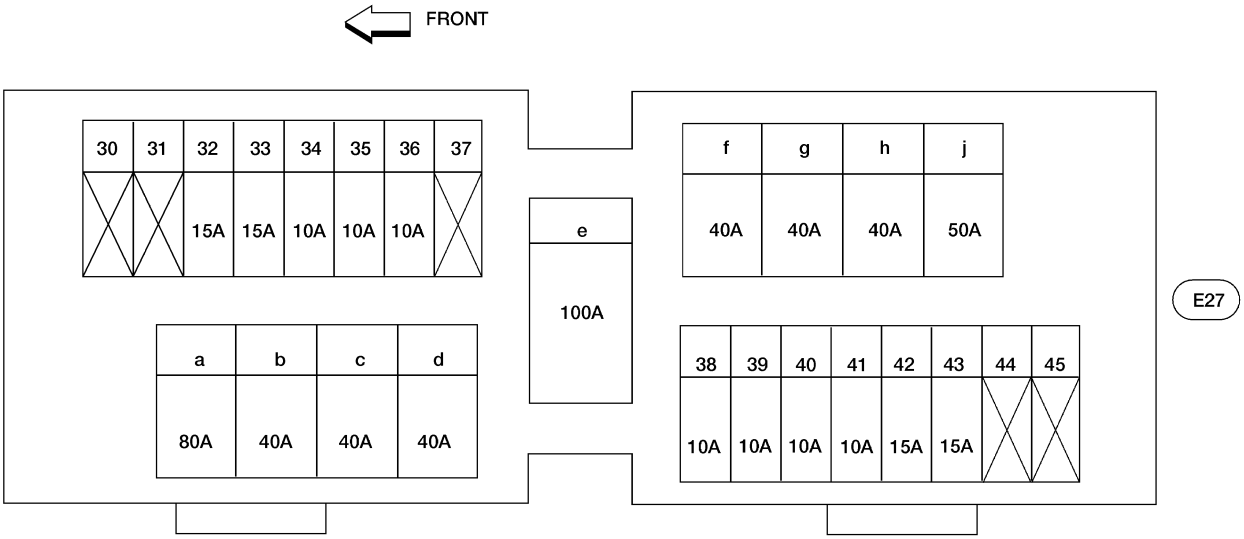
Terminal Arrangement



LEL137A

FUSE AND FUSIBLE LINK BOX

Terminal Arrangement



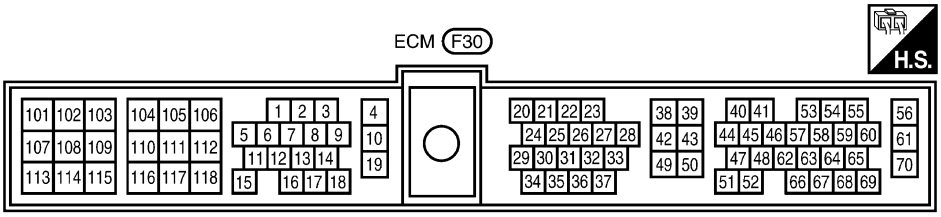
No 30 - 45: FUSE

a - j: FUSIBLE LINK

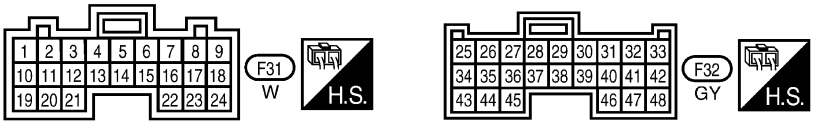
WEL310

Terminal Arrangement

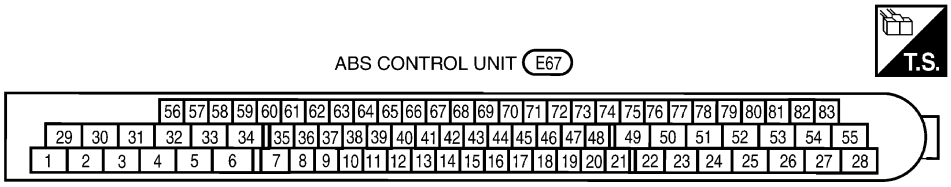
ECM (F30)



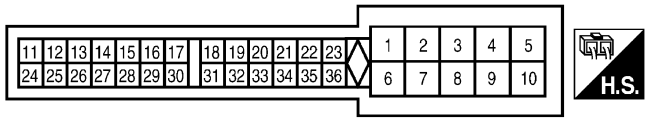
TRANSMISSION CONTROL MODULE



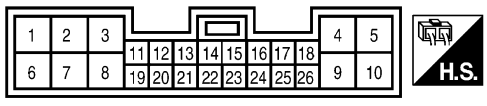
ABS CONTROL UNIT (E67)



SMART ENTRANCE CONTROL UNIT (M33) : (VS)



SMART ENTRANCE CONTROL UNIT (M74) : (OV)



(VS) : With vehicle security system
(OV) : Without vehicle security system

QUICK REFERENCE CHART: ALTIMA [ ] 2001

ENGINE TUNE-UP DATA

Engine model		KA24DE		
Firing order		1-3-4-2		
Idle speed	rpm			
M/T		700 ± 50		
A/T (in "N" position)		700 ± 50		
Ignition timing (degree B.T.D.C. at idle speed)		20° ± 2°		
CO% at idle		Idle mixture screw is preset and sealed at factory		
Valve clearance (Hot)	mm (in)			
Intake		0.31 - 0.39 (0.012 - 0.015)		
Exhaust		0.39 - 0.47 (0.015 - 0.019)		
Spark plug				
Type	Standard	PFR5G-11		
	Alternative	PFR6G-11		
		PFR7G-11		
Gap (Nominal)	mm (in)	1.0 - 1.1 (0.039-0.043)		
Drive belt deflection (Cold)	mm (in)	Used belt		
		Limit	Deflection after adjustment	Deflection of new belt
Generator & power steering oil pump		8.5 (0.33)	6 - 6.5 (0.24 - 0.26)	5.5 - 6 (0.22 - 0.24)
Air conditioner compressor		9.5 (0.39)	6.5 - 7 (0.26 - 0.28)	6 - 6.5 (0.24 - 0.26)
Applied pushing force	N (kg, lb)	98 (10, 22)		
Radiator cap relief pressure	kPa (kg/cm^2, psi)	78 - 98 (0.8 - 1.0, 11 - 14)		
Cooling system leakage testing pressure	kPa (kg/cm^2, psi)	157 (1.6, 23)		
Compression pressure kPa (kg/cm^2, psi)/rpm	Standard	1,226 (12.5, 178)/300		
	Minimum	1,030 (10.5, 149)/300		
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°51' (−0.85°)
		Nominal	−0°06' (−0.10°)
		Maximum	0°39' (0.65°)
	Degree minute (Decimal degree)	Left and right difference	45' (0.75°)
Caster		Minimum	1°55' (1.92°)
		Nominal	2°40' (2.67°)
		Maximum	3°25' (3.42°)
	Degree minute (Decimal degree)	Left and right difference	45' (0.75°)
Kingpin inclination		Minimum	13°20' (13.33°)
		Nominal	14°05' (14.08°)
	Degree minute (Decimal degree)	Maximum	14°50' (14.83°)
Total toe-in		Minimum	0 (0)
Distance (A - B)		Nominal	1 (0.04)
	mm (in)	Maximum	2 (0.08)
Angle (left plus right)		Minimum	0' (0.00°)
		Nominal	6' (0.10°)
	Degree minute (Decimal degree)	Maximum	12' (0.20°)
Wheel turning angle		Minimum	32°06' (32.10°)
Full turn *2 Inside		Nominal	35°06' (35.10°)
	Degree minute (Decimal degree)	Maximum	36°06' (36.10°)
Full turn *2 Outside		Minimum	26°18' (26.30°)
		Nominal	29°18' (29.30°)
	Degree minute (Decimal degree)	Maximum	30°18' (30.30°)

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

REAR WHEEL ALIGNMENT (Unladen*)

Camber		Minimum	−2°00' (−2.00°)
		Nominal	−1°15' (−1.25°)
	Degree minute (Decimal degree)	Maximum	−0°30' (−0.50°)
Total toe-in		Minimum	1 (0.04)
Distance (A − B)		Nominal	2 (0.08)
	mm (in)	Maximum	3 (0.12)
Angle (left plus right)		Minimum	6' (0.10°)
		Nominal	12' (0.20°)
	Degree minute (Decimal degree)	Maximum	18' (0.30°)

* Fuel, radiator coolant and engine oil full.
Spare tire, jack, hand tools and mats in designated positions.

BRAKE

Unit: mm (in)

Disc brake	
Pad minimum thickness	2.0 (0.079)*1, 1.5 (0.059)*2
Rotor repair limit Minimum thickness	20.0 (0.787)*1, 8.0 (0.315)*2
Drum brake	
Lining minimum thickness	1.5 (0.059)
Drum repair limit Maximum inner diameter	230.0 (9.06)
Pedal free height	M/T: 169 - 179 (6.65 - 7.05) A/T: 177 - 187 (6.97 - 7.36)
Pedal depressed height*3	90 (3.54)
Parking brake	
Number of notches*4	7 - 8

*1 Front disc brake
*2 Rear disc brake
*3 Under force of 490N (50kg, 110lb) with engine running
*4 At pulling force: 196N (20kg, 44lb)

REFILL CAPACITIES

Unit		Liter	US measure
Fuel tank		60	15-7/8 gal
Coolant (With reservoir tank)		7.0	7-3/8 qt
Engine *2			
Drain and refill			
With oil filter change		3.4	3-5/8 qt
Without oil filter change		3.2	3-3/8 qt
Dry engine (engine overhaul)		3.8	4 qt
Transaxle	M/T	4.5 - 4.8	9-1/2 - 10-1/8 pt
	A/T	9.4	10 qt
Power steering system		0.9	1 qt
Air conditioning system	Lubricant	0.2	6.8 fl oz
	Refrigerant *1	0.6 - 0.7 kg	1.32 - 1.54 lb

*1 R-134a
*2 For further details, see "Changing Engine Oil" in MA section.

CLUTCH PEDAL

Unit: mm (in)

Pedal height*1	168 - 178 (6.61 - 7.01)
Pedal free play (at pedal pad)	9 - 16 (0.35 - 0.63)
Clearance "C" (between pedal stopper rubber and clutch interlock switch) *2	0.1 - 1.0 (0.004 - 0..39)

*1 Measured from surface of dash reinforcement panel
*2 Clutch pedal fully depressed