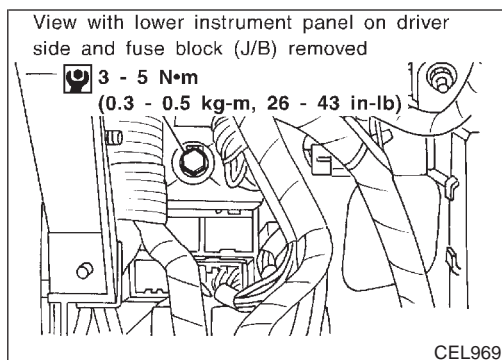


SUPER MULTIPLE JUNCTION (SMJ)

Installation



Installation

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

NHEL0146

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

CAUTION:

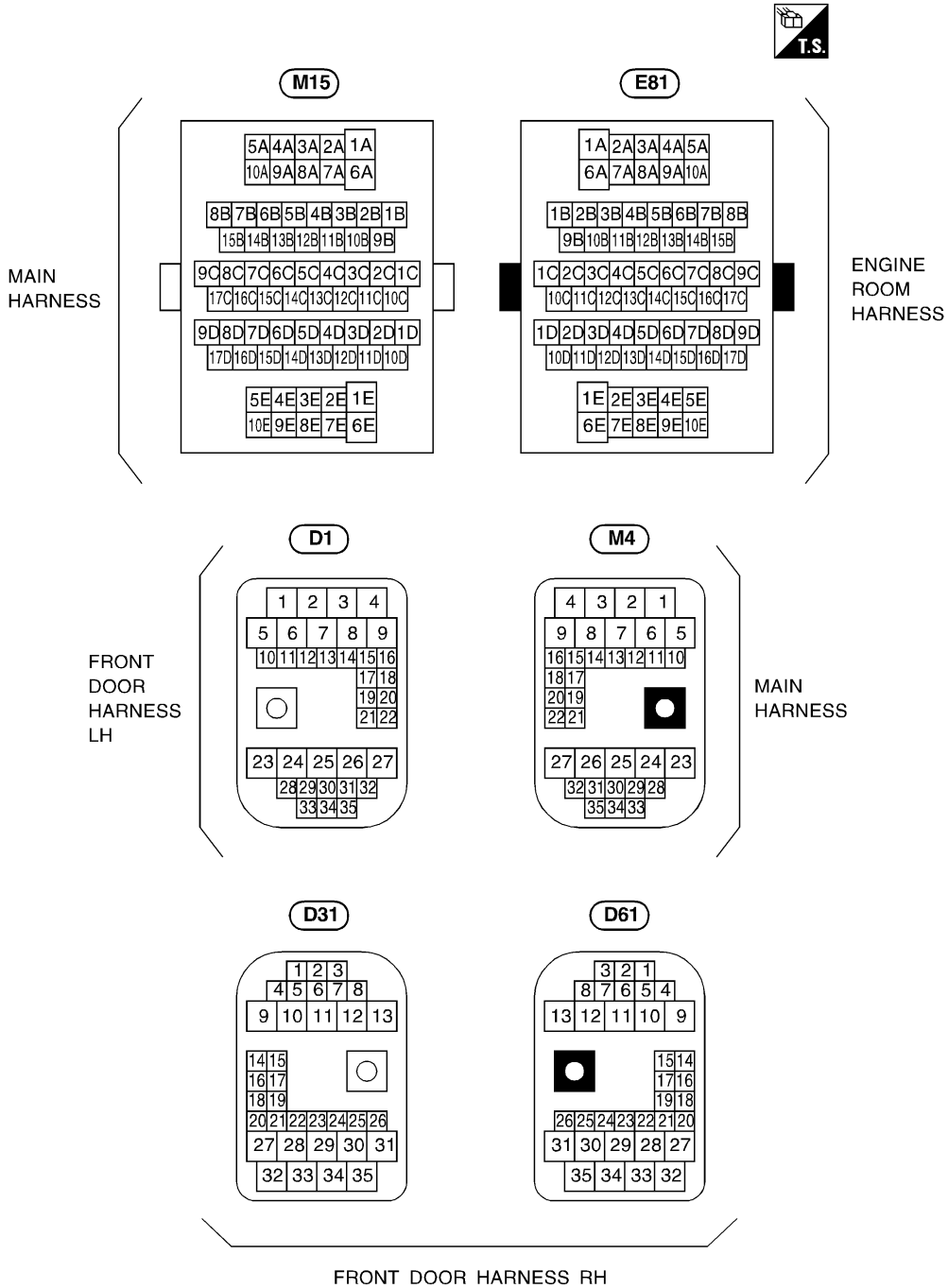
Do not overtighten bolts, otherwise, they may be damaged.

SUPER MULTIPLE JUNCTION (SMJ)

Terminal Arrangement

Terminal Arrangement

NHEL0147

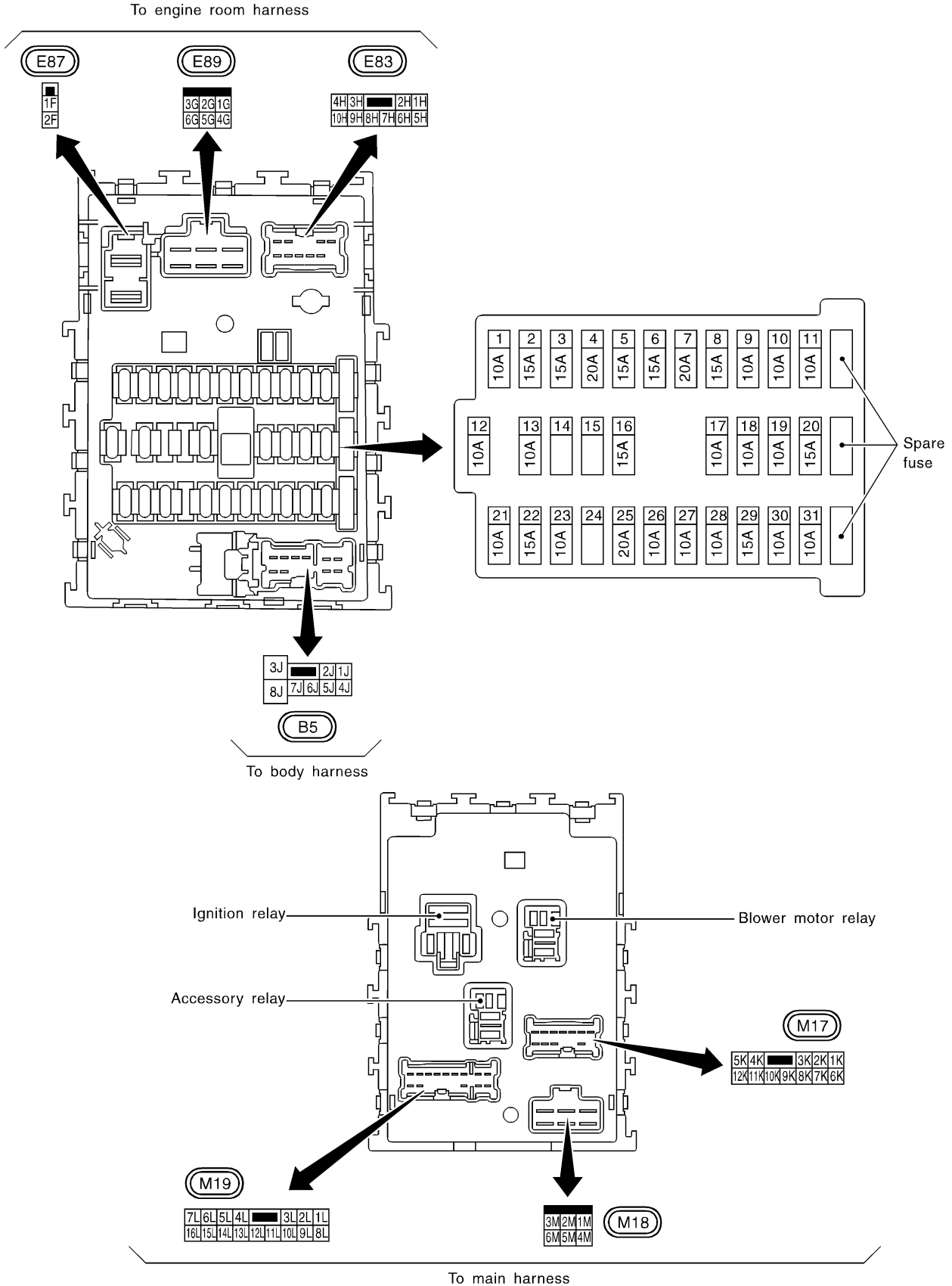


FUSE BLOCK — JUNCTION BOX (J/B)

Terminal Arrangement

Terminal Arrangement

NHEL0148

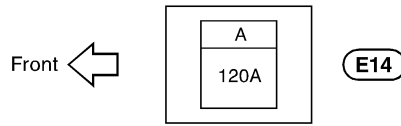


FUSE AND FUSIBLE LINK BOX

Terminal Arrangement

Terminal Arrangement

NHEL0149



*1 40A: **TS**

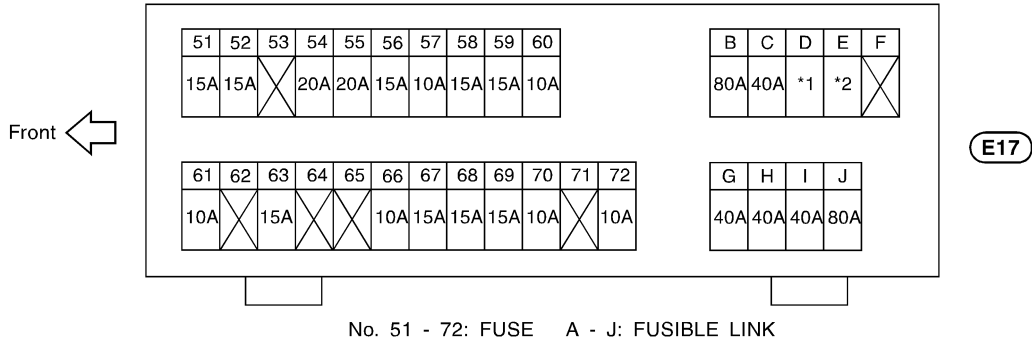
50A: **VD**

*2 40A: **TS**

30A: **VD**

TS : With TCS

VD : With VDC



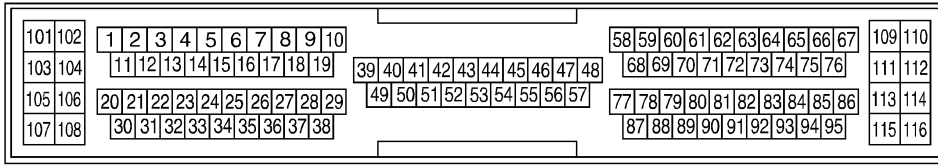
MEL2490

ELECTRICAL UNITS

Terminal Arrangement

NHEL0150

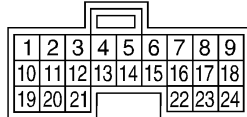
ECM (F48)



(Gray)

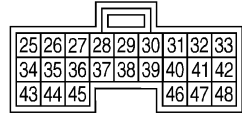


TCM (TRANSMISSION CONTROL MODULE)



(White)

(F51)

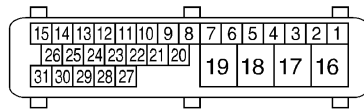


(Gray)

(F50)



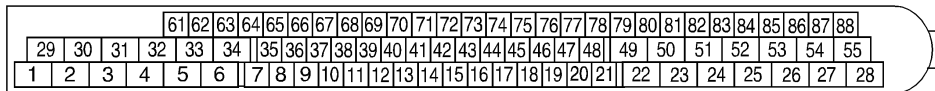
ABS/TCS CONTROL UNIT (E162) : TS



(Black)



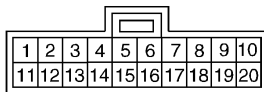
VDC/TCS/ABS CONTROL UNIT (B57) : VD



(Black)

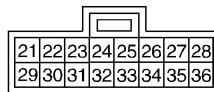


A/C AUTO AMP.



(Gray)

(M59)

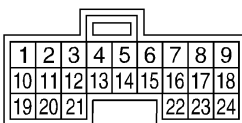


(Gray)

(M60)

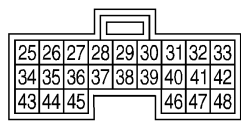


SMART ENTRANCE CONTROL UNIT



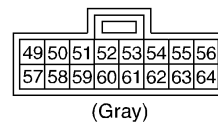
(White)

(M143)



(Gray)

(M144)



(Gray)

(M145)



TS : With TCS

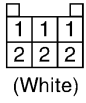
VD : With VDC

JOINT CONNECTOR (J/C)

Terminal Arrangement

Terminal Arrangement

NHEL0160



(White)

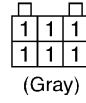
J/C-9 **E20**

J/C-10 **E21**

J/C-12 **E73**

J/C-13 **E74**

J/C-14 **E75**



(Gray)

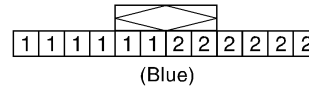
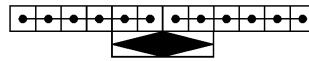
J/C-7 **E18**

J/C-8 **E19**



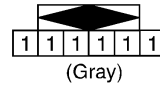
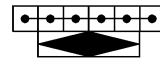
(Gray)

J/C-3 **M29**



(Blue)

J/C-18 **F46**



(Gray)

J/C-20 **F71**

QUICK REFERENCE CHART: I35

2003

ENGINE TUNE-UP DATA

Engine model		VQ35DE	
Firing order		1-2-3-4-5-6	
Idle speed	rpm	A/T (in "N" position)	675±50
Ignition timing (degree BTDC at idle speed)		A/T: 15°±5°	
CO% at idle		Idle mixture screw is preset and sealed at factory.	
Drive belt deflection adjustment (Cold)	mm (in)	Used belt	
		Limit	Deflection after adjustment
Deflection of new belt			
Alternator and air conditioner compressor	7 (0.28)	4.2 - 4.6 (0.165 - 0.181)	3.7 - 4.1 (0.146 - 0.161)
Power steering oil pump	11 (0.43)	7.3 - 8 (0.287 - 0.315)	6.5 - 7.2 (0.256 - 0.283)
Applied pushing force		98 (10, 22)	
Drive belt tension adjustment (Cold)	N (kg, lb)	Used belt	
		Limit	After adjustment
New belt			
Alternator and air conditioner compressor	294 (30, 66)	730 - 818 (74.5 - 83.5, 164 - 184)	838 - 926 (85.5 - 94.5, 188 - 208)
Power steering oil pump	196 (20, 44)	495 - 583 (50.5 - 59.5, 111 - 131)	603 - 691 (61.5 - 70.5, 136 - 155)
Applied pushing force		—	
Radiator cap relief pressure		78 - 98 (0.8 - 1.0, 11 - 14)	
Cooling system leakage testing pressure		157 (1.6, 23)	
Compression pressure	kPa (kg/cm ² , psi)/rpm	Standard	1,275 (13.0, 185)/300
		Minimum	981 (10.0, 142)/300
High tension cable resistance		kΩ —	
Spark plug	Type		
	Standard	PLFR5A-11	
	Hot	PLFR4A-11	
	Cold	PLFR6A-11	
Gap (Nominal)		mm (in) 1.1 (0.043)	

FRONT WHEEL ALIGNMENT (Unladen*)

Tire size		P225/50R17, P215/55R17	
Camber	Degree minute (Decimal degree)	Minimum	-1°00' (-1.00°)
		Nominal	-0°15' (-0.25°)
		Maximum	0°30' (0.50°)
		Left and right difference	45' (0.75°) or less
Caster	Degree minute (Decimal degree)	Minimum	2°00' (2.00°)
		Nominal	2°45' (2.75°)
		Maximum	3°30' (3.50°)
		Left and right difference	45' (0.75°) or less
Total toe-in	Distance (A - B) mm (in)	Minimum	0 (0)
		Nominal	1 (0.04)
		Maximum	2 (0.08)
Angle (left plus right)	Degree minute (Decimal degree)	Minimum	0' (0)
		Nominal	6' (0.10°)
		Maximum	12' (0.20°)
Wheel turning angle (Full turn)	Degree minute (Decimal degree)	Minimum	29°30' (29.50°)
		Nominal	33°00' (33.00°)
		Maximum	34°00' (34.00°)
Inside	Degree minute (Decimal degree)	Minimum	29°30' (29.50°)
		Nominal	33°00' (33.00°)
Outside	Degree minute (Decimal degree)	Minimum	29°30' (29.50°)
		Nominal	28°30' (28.50°)

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

REAR WHEEL ALIGNMENT (Unladen*)

Camber	Degree minute (Decimal degree)	Minimum	-1°45' (-1.75°)
		Nominal	-1°00' (-1.00°)
		Maximum	-0°15' (-0.25°)
Total toe-in	Distance (A - B) mm (in)	Minimum	-3 (-0.12)
		Nominal	1 (0.04)
		Maximum	5 (0.20)
Angle (left plus right)	Degree minute (Decimal degree)	Minimum	-16' (-0.27°)
		Nominal	5°30' (0.09°)
		Maximum	26' (0.43°)

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

BRAKE

		Unit: mm (in)
Front brake		
Pad wear limit		2.0 (0.079)
Rotor repair limit		22.0 (0.866)
Rear brake		
Pad wear limit		1.5 (0.059)
Rotor repair limit		8.0 (0.315)
Pedal free height		167 - 174 (6.57 - 6.85)
Pedal depressed height*1		82.5 (3.248)
Parking brake		
Number of notches*2		4 - 5

*1 Under force of 490 N (50 kg, 110 lb) with engine running

*2 At pulling force: 196 N (20 kg, 44 lb)

REFILL CAPACITIES

Unit		Liter	US measure	
Coolant with reservoir		7.7	8-1/8 qt	
Engine*	Drain and refill			
	With oil filter	4.0	4-1/4 qt	
	Without oil filter	3.7	3-7/8 qt	
	Dry engine (engine overhaul)	5.0	5-1/4 qt	
Transaxle	A/T	RE4F04B	8.5	9 qt
Power steering system		1.1	1-1/8 qt	
Air conditioning system	Refrigerant	0.50 kg	1.10 lb	
	Compressor oil	0.18	6.1 fl oz	

* For further details, see "Changing Engine Oil" in MA section.

NOTES