



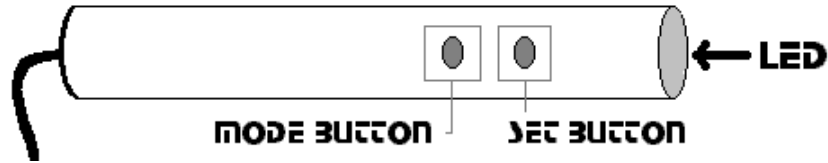
SHIFT/LAUNCH CONTROLLER

- This manual contains operation instructions and installation procedures that are needed for the fitting and operation of this product.
- Although this manual lists vehicle specific wiring diagrams, there may be some models and applications that have not been included.
- This manual is intended for Japanese specification vehicles only. Japanese vehicles sold in other countries may have different wiring diagrams or pin outs on the ECU.

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Warnings

- **On any car, especially four wheel drives, driveline components may not be strong enough to handle the impact of launch control at high rpm, and may break as a result of this. On two wheel drives there is a significantly high chance of traction loss and a possibility of drive line breakage.**
- **Incorrect installation can harm or damage the unit .**
- **Gizzmo Electronics Ltd will not warranty any shiftlamp/launch control that is not fitted correctly by reputable workshop. Do not fit this unless you are experienced in this area.**
- **These instructions are not suitable for MSD and / or similar ignition systems**
- **Never disassemble, modify, or tamper with unit. Failure to may cause injury or fire, and void warranty.**



THE MODE BUTTON

This button takes you through your Shiftlamps functions in the following order and will illuminate the LED with the functions respective colour...

RED / Shift mode This mode allows user to set when the Shift Lamp comes on by bringing the engine revs to half of the desired illumination point. An example of this would be that if you wanted the shift lamp to illuminate at 7000 rpm you would bring the revs to 3500 rpm. By pressing the Set button the shift lamp will remember the new setting. Upon pressing the Set button the LED flashes different colours to let you know that it has stored the new setting and then the shift lamp returns to running mode (explained below).

YELLOW / Launch mode allows the user to set the launch rpm in much the same manner as the shift rpm with the only difference being that you must hold the rpm at the **real** launch rpm and **not half** as with the shift mode. Note that when the launch control is activated (at the desired launch rpm with the clutch engaged in running mode) the shift lamp will flash yellow in time with the engine to let you know it is activated. If you wish to disengage it, simply lower the revs and press the Set button once.

ORANGE / Miss set Due to every car being different, there is a requirement to have an adjustment for the number of ignition cycles that will be missed. In this mode the shift lamp flashes bright red for the number of cycles that will be missed (if it flashes 4 times brightly, 4 cycles will be missed). In this mode, if you press the set button it increments the miss cycles by one and re flashes the red led to confirm the new number of cycles to be missed. The maximum number of cycles is 8 at which time it will cycle back to 1. Having reached the desired setting, pressing the mode button once will set and return you to the running mode.

NO COLOUR / Running mode This is the mode that you're in when you start your car up every time. Essentially, if you are not in one of the above modes (and therefore the LED is not illuminated) then you must be in running mode and this allows the shiftlamp and launch control to operate as per normal. Note that when in the above modes only settings can be done and therefore normal operation can only take place in running mode.

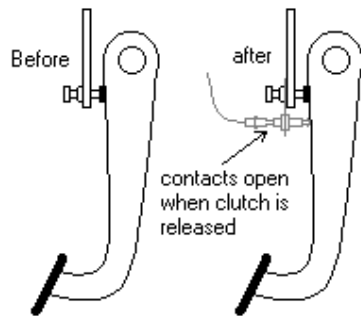
THE SET BUTTON

Apart from setting the Shift, Launch modes, and incrementing the miss cycles as explained above, this button also, when in running mode (this is when the Status LED is not illuminated, as mentioned above), allows the user to switch the launch control on and off. Upon switching the launch control on and off the Status LED will cycle through colours as in the setting of the modes above.

GIZZMO SHIFTLAMP/LAUNCH CONTROL Installation Guide.

1. Locate and mount the shiftlamp pedestals in an appropriate position.
2. Click the shiftlamp into the pedestals and run the wiring in a concealed manner towards the top of the clutch pedal by the clutch stop as indicated in diag2 below.
3. Manufacture a bracket and set up the switch supplied as to trigger with the use of the clutch. Hence it should be mounted as in diag2.
4. Secure the blue shift lamp wire to the switch as in diag2

Diag2



5. **Red Wire** - **Connect to ECU ignition positive.**
Black Wire - Connect to ECU earth.
Green Wire - Connect to ECU RPM signal, (light duty)
Blue Wire - Connect to clutch switch.
Green Wire / Black Wire - Cut negative and join black to one side and green to the other (note it doesn't matter which side each colour joins to.)

Options for installation:

- Single coil - cut and join to coil negative.
- cut and join to igniter negative.
Twin coil - cut and join to igniter negative.

TROUBLE SHOOTING

Shiftlamp does not flash when ignition is switched on...

Faulty power or earth supply. With the test lamp clipped to earth, check for a 12volt positive supply on the shiftlamp red wire. If present, with a test lamp clipped to 12 volts positive test the shiftlamp black wire for a negative supply (earth). If either are missing there is an open circuit, check for a bad connection.

Shiftlamp flashes on ignition but does not respond to the buttons being pressed...

The engine must be running in order to make adjustments. If it is, then with a test lamp clipped to earth, and the ignition on, with the engine NOT running, check for an ignition positive on the shiftlamps thin green wire. If there isn't an ignition positive, you have a bad connection on the thin green wire. If 12 volts is present, double check that your car hasn't got MSD. If it has, the shift lamp may need repairs.

Shiftlamp does flash when switched on ignition but doesn't come on when reved

Remember that the shift point must be set at half of the required shift rpm, refer to the shiftlamp guide for the setting procedure.

The Shiftlamp flashes erotically or at the wrong time.

You may have excessive ignition noise, if you have wired the Shiftlamp yourself it may be a good time to call an auto electrician.

Launch control is not working properly

Check that your clutch switch is set, the procedure is in the shift lamp guide. If this is OK then check that your clutch switch is operating. If this too is all right, make sure that you have NOT set the launch rpm at half the desired rpm, as with the shiftlamp. The launch control may have been accidentally switched off, press the set button to see if the launch control engages.

If all of the above does not work, or your problem is not listed above we suggest that you consult your Auto Electrician or Performance Workshop.

LAUNCH CONTROL SETUP

Shift Control

To utilise the flat shift function of the unit,

1. Switch the unit so it's in launch control mode.
2. Accelerate through to point where you wish to change.
3. Change gear pushing in only the clutch, leaving your foot down on the accelerator. (Once the clutch is engaged the unit will cut rpm back to the launch rpm that you should preset into the unit.)

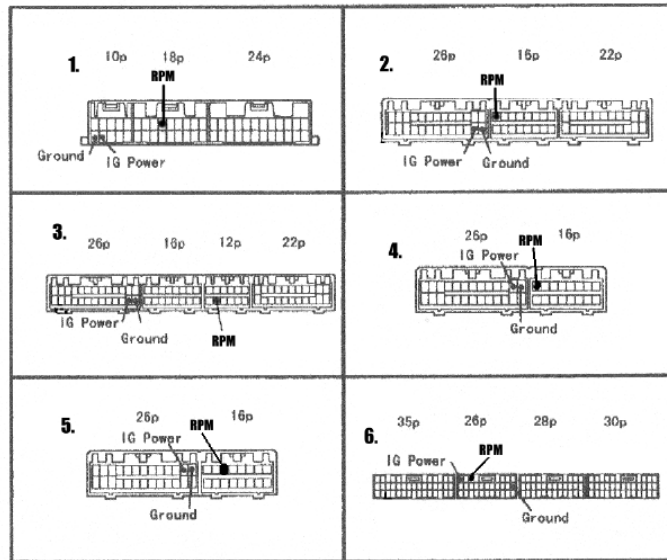
Release the clutch, this will return the vehicle to normal running conditions and allow it to rev freely.

Setting up launch controller switch The best place to set the clutch switch disengaged is the gray area just before the clutch bites in, this allows the revs to still be high enough so the car doesn't bog down, but doesn't disengage to early to make the engine rev out.

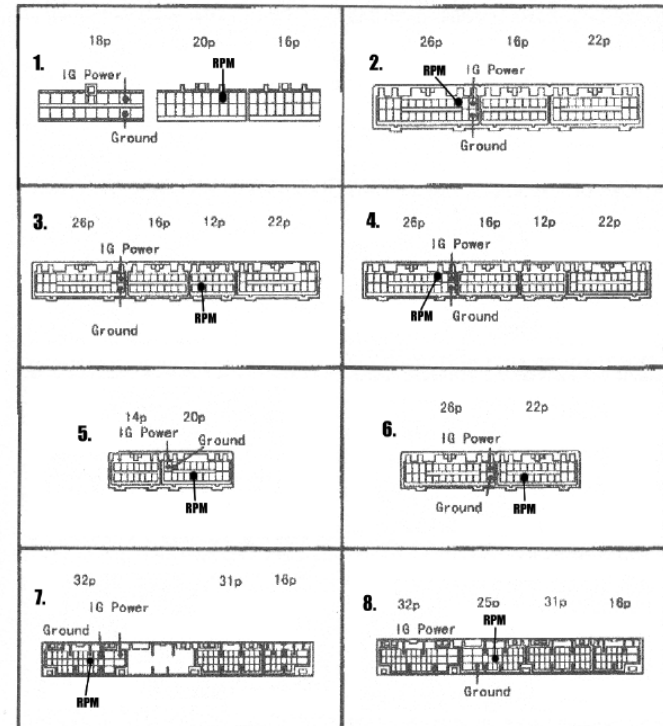
Miss cycle setup This best way to set this is to allow the right number of misses per engine cycle to stop the revs from climbing, and hold the vehicle at a steady rpm

Launch control on /off The launch can be set on and off by pushing the set button while the car is in running mode.

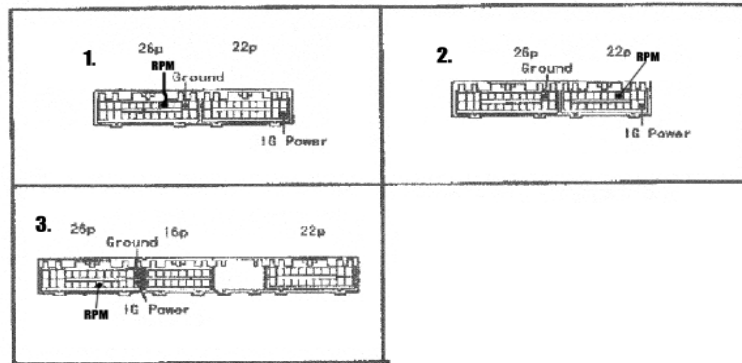
Mitsubishi



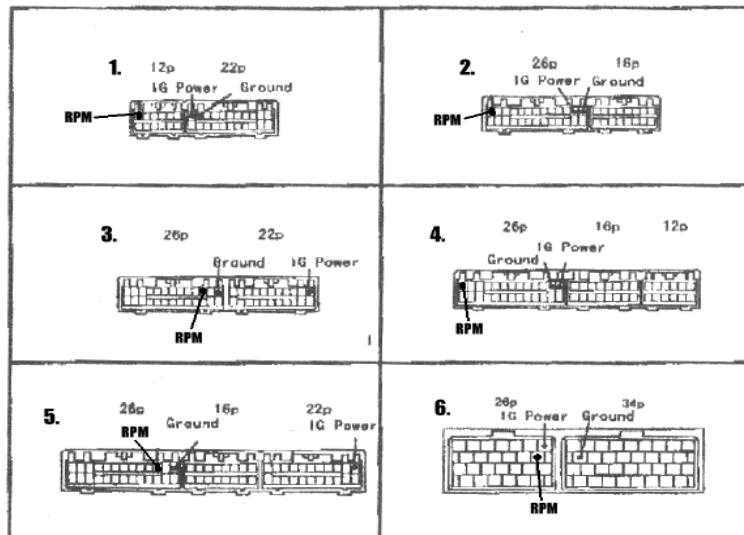
Honda



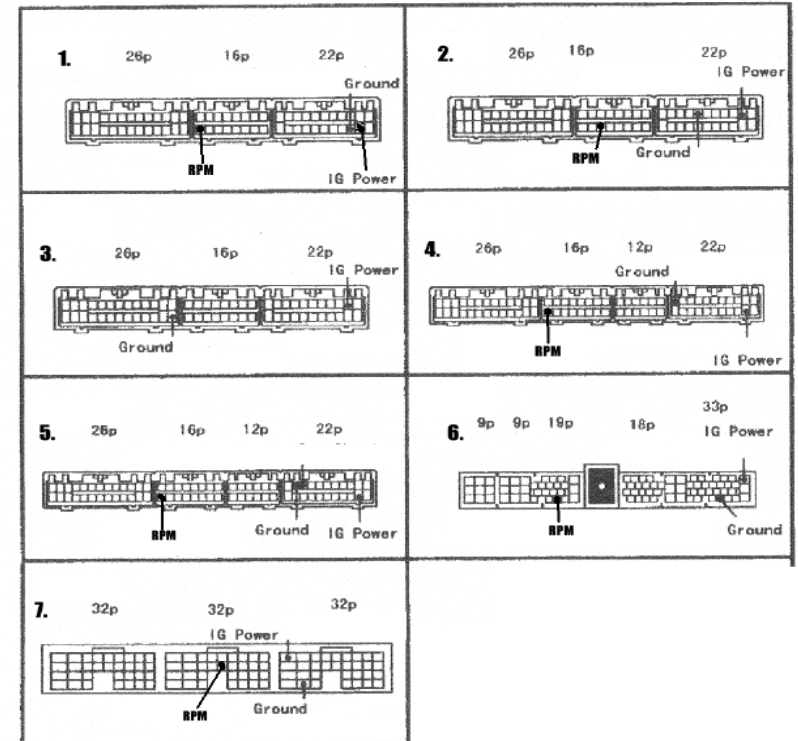
Mazda



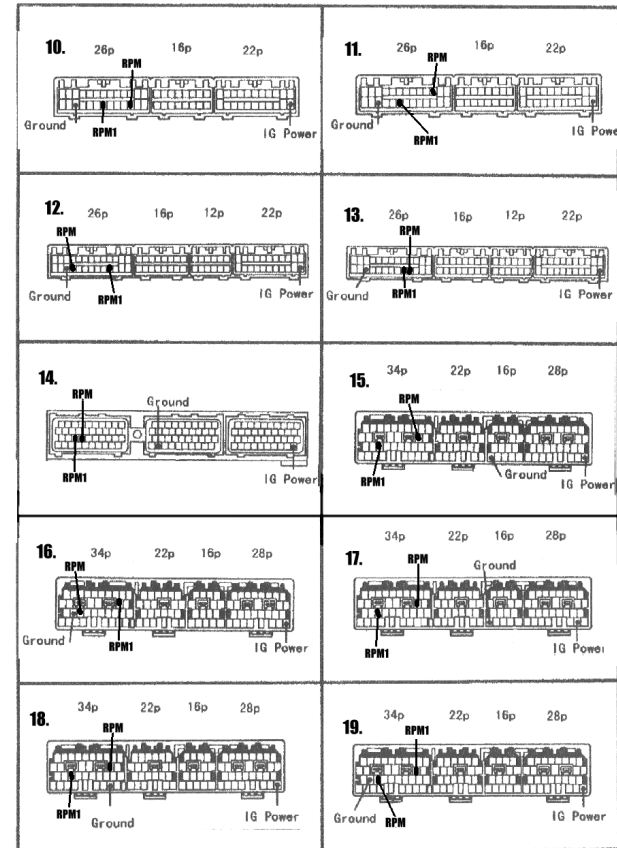
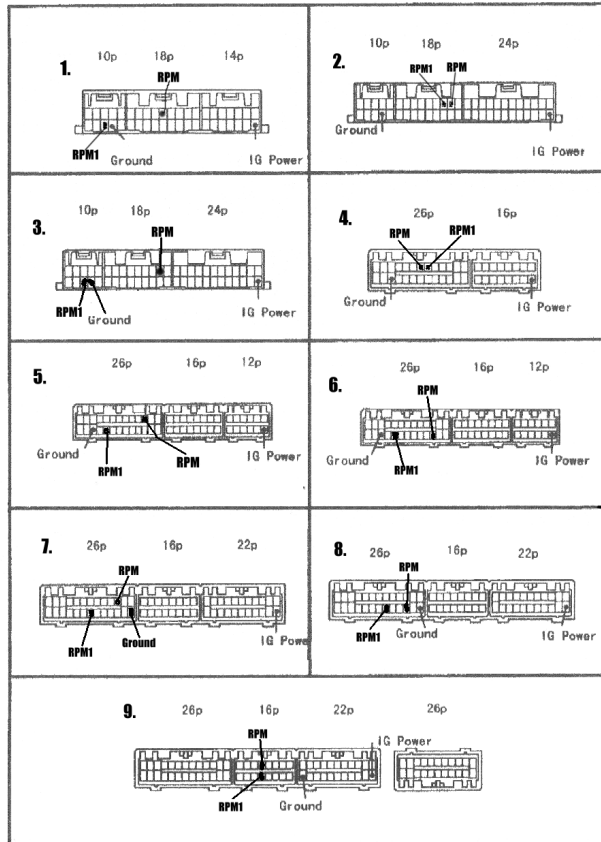
Suzuki



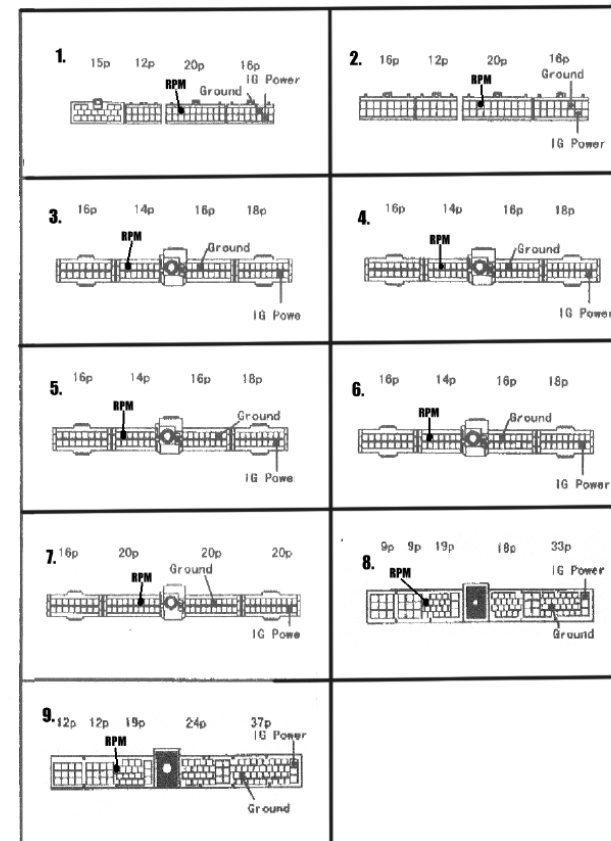
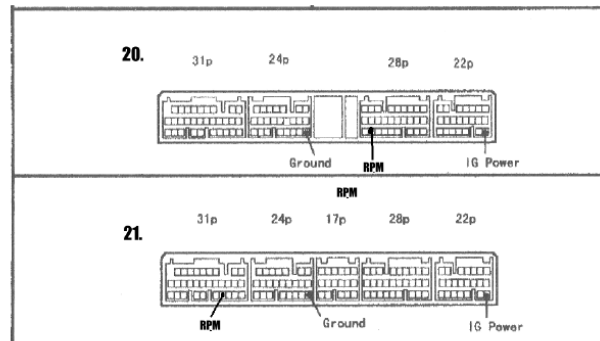
Subaru



Toyota



Nissan



Vehicle Diagram Reference

HONDA	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram
	NSX	NA2	C32B	1997 -	3
		NA1	C30A	1995 -	
				1990 - 95	
	Prelude	BB6	H22A	1996 -	7
		BB8			
		BB1		1991 - 96	4
		BB4			2
	Accord	CF3	F18B	1997 -	8
		CF4	F20B		
		CD5	F22B	1993 - 97	2
		CD6	H22A		
	Integra	DC2	B18C	1995 -	M/T 7 A/T 4
		DB8		1993 - 95	M/T 2 A/T 4
	Civic	DA6	B16A	1989 - 93	1
		EK9	B16B	1989 -	8
		EK4	B16A		
		EK3	D15B		
		EK9	B16B	1997 - 98	7
		EK4	B16A	1995 - 98	
		EK3	D15B		
		EG6	B16A	1991 - 95	2
		EG4	D15B		
		EF9	B16A	1989 - 91	1
	CR-X	EG2	B16A	1992 - 95	2
		EG1	D15B		
		EF8	B16A	1989 - 92	1
	Legend	KA9	C35A	1996 -	3
		KA8	C32A	1990 - 96	
		KA7			
	Inspire	UA2	G25A	1995 - 98	N/A
		UA1	G20A		
		CC2	G25A	1992 - 95	4
		CB5	G20A	1989 - 91	
	CR-V	RD1	B20B	1995 -	4
	Odyssey	RA3	F23A	1997 -	8
		RA4			
		RA5	J30A		7
		RA1	F22B	1994 - 97	2
		RA2			
	SM-X	RH1	B20B	1996 -	4
MAZDA	Eunos Cosmo	JC3S	20B-REW	1994 - 95	N/A
		JC3SE		1990 - 94	
		JCES	13B-REW	1994 - 95	
		JCESE		1990 - 94	
	Familia	BG8Z	BP-ZET	1989 - 94	2
	AZ-Wagon	MD21S	K6A T/C	1998 -	N/A
		MD11S	F6A T/C		

Vehicle Diagram Reference

MITSUBISHI	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram
	Diamante	F36A	6G72	1995 -	3
		F17A		1990 - 94	2
	GTO	Z16A	6G72	1990 -	
	FTO	DE3A	6A12	1994 -	3
				1996 -	
				1994 - 96	2
					3
	Legnum	EC5W	6A13	1996 -	
	Galant	EC5A	6A13	1996 -	
		E84A	6A12	1992 - 96	2
		E39A	4G63	1987 - 92	1
	Eclipse	D32A	4G63	1995 -	3
		D27A		1989 - 95	1
	Lancer	CK4A	4G92	1995 -	3
		CM5A	4G93		
		CD5A		1991 - 95	2
		CP9A	4G63	1999 -	3
				1998 -	
		CN9A		1996 - 97	
		CE9A		1993 - 96	2
		CD9A		1992 - 93	
	Libero	CD5W	4G93	1992 -	
	Mirage	CM5A	4G93	1995 -	3
		CJ4A	4G92		
		CA4A		1991 - 95	2
	Pajero	V25W	6G74	1993 -	
		V23W	6G72	1991 -	1
	RVR	N74W	4G64	1997 -	3
		N73W	4G63		
		N71W	4G93		M/T 3 A/T 6
		N61W			3
		N23W	4G63	1992 - 97	2
	President	G50	VH45DE	1990 -	7
NISSAN	Infinity Q45	G50	VH45DE	1989 - 97	
	Cinma III	FGY33	VH41DE	1996 - 98	9
		FHY33	VQ30DET		8
	Cinma II	FGY32	VH41DE	1991 - 96	7
		FPY32	VG30DET	1993 - 96	
	Cinma I	FPY31	VG30DET	1989 - 91	
		FPY31	VG30DE		
		FPY31	VG30DET	1988 - 89	2
		FPY31	VG30DE		
	Fairlady Z	Z32	VG30DETT	1989 -	7
			VG30DE		
	Leopard	Y33	VQ30DET	1996 -	8
			VQ30DE		
		UF31	VG30DET	1988 - 92	7
			VG30DE		
		GF31	VG20DET		2
	Leopard J Ferry	JGBY32	VH41DE	1992 - 96	7

Vehicle Diagram Reference

NISSAN	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram
	Leopard J Ferry	JPY32	VG30DE	1992 - 96	7
	Cedric Gloria	Y33	VQ30DET	1995 -	8
			VQ30DE		
		Y32	VG30DET	1991 - 95	7
			VG30DE		
		Y31	VG20DET	1989 - 91	
			VG20E		
	Cefiro	A32	VQ30DE	1997 -	9
			VQ25DE		
			VQ20DE		
			VQ30DE	1994 - 96	7
			VQ25DE		
			VQ20DE		
		A31	RB20DET	1988 - 94	M/T 7 A/T 9
			RB25DE	1992 - 94	
			RB20DE	1988 - 94	
	Cefiro Wagon	W#A32	VQ30DE	1997 -	9
			VQ25DE		
			VQ20DE		
	Laurel	C35	RB25DET	1997 -	9
			RB25DE		
			RB20DE		
		C34	RB25DET	1994 - 97	7
			RB25DE	1993 - 97	
			RB20DE		
		C33	RB20DET	1989 - 92	
	RB20DE				
	Skyline	R34	RB26DETT	1999	9
RB25DET			1998		
R33		RB26DETT	1995	7	
		RB25DET	1996 - 98		
		RB25DE	1993 - 95		
		RB25DET			
		RB25DE			
R32		RB26DETT	1989 - 94		
		RB25DE	1991 - 93		
		RB20DET	1989 - 93		
		RB20DE			
R31	RB20ET	1987 - 89	1		
	RB2 E				
Stagea	W#C34	RB25DET	1996 -	9	
		RB25DE			
Stagea Autech Ver.	WGNC34	RB26DETT	1997 -	7	
Blue Bird	U14	SR20VE	1997 -	3	
		SR20DE	1996 -		
		SR18DE			
	U13	SR20DET	1991 - 95		
		SR20DE			
		SR18DE			

Vehicle Diagram Reference

Nissan	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram	
	Blue Bird	U12	SR20DET	1989 - 91	3	
			SR20DE			
			CA18DET	1987 - 89	7	
			CA18DE			
	Silvia	S15	SR20DET	1999 -	3	
			S14	SR20DET		1996 - 98
		SR20DET		1993 - 96	7	
		SR20DE		1993 -	3	
		PS13	SR20DET	1991 - 93	4	
			SR20DE	1988 - 91	3	
		S13	CA18DET		7	
			CA18DE	1996 - 98	6	
	180SX	RPS13	SR20DET		4	
			SR20DE			1991 - 96
	Pulsar	N15	SR16VE	1997 -	3	
			SR18DE	1995 -		
		N14	SR20DET	1990 - 94		
			SR18DE			
	Primera	P11	SR20VE	1997 -	3	
			SR20DE	1995		
			SR18DE			
		P10	SR20DE	1990 - 95		
			SR18DE	1992 - 95		
		Primera Wagon	W#P11	SR20VE		1997 -
	SR20DE					
SR18DE						
SUBARU	Legacy	BH5	EJ208	1998 -	7	
			EJ206			
		BD5 BG5	EJ20R	1996 - 98	2	
			EJ20H			
			EJ20D			
			EJ20H			
			EJ20D			
			EJ20H	1993 - 96	4	
			EJ20D	1		
			BD9	EJ25D	1996 - 98	6
		BG9		1994 - 96	1	
		BC5	EJ20G	1989 - 93	2	
		BF5				
		Impreza	GC8	EJ207	1998 -	7
			GF8	EJ205		
			GC8	EJ20K	1996 - 98	2
			GF8			
			GC8	EJ20G	1992 - 96	5
	GF8		1996 - 98		2	
	Forester	SF5		1993 - 96	5	
			EJ205	1998 -	7	
			EJ20G	1997 - 98	2	

Vehicle Diagram Reference

SUZUKI	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram	
	Alto Works	HA22S	K6A T / C	1998 -	6	
		HA12S	F6A T / C			
		HA21S	K6A T / C	1994 - 97	3	
		HB21S				
		HA11S	F6A T / C		M/T 2 A/T 4	
		HB11S				
	Capuchino	EA21R	K6A	1995 - 98	5	
		EA11R	F6A	1991 - 95	1	
	Wagon - R	MC21S	K6A T / C	1998 -	6	
		MC11S	F6A T / C			
		CT51S	K6A T / C	1997 - 98	5	
		CV51S				
		CT21S	F6A T / C	1995 - 98	M/T 2	A/T4
		CV21S		1993 - 95	M/T 1	A/T 4
	Wagon - R Wide	MA61S	K10A T / C	1997 -	5	
		MB61S				
	KEI	HN21S	K6A T / C	1998 -	6	
		HN11S	F6A T / C			
Gimny	JB23W	K6A T / C	1998 -			
TOYOTA	Celsior	UCF10	1UZ - FE	1992 - 94	15	
		UCF11		1989 - 92	9	
	Crown	JZS14#	2JZ - GE	1991 - 95	15	
	Crown Majesta	UZS141	1UZ - FE	1991 - 95	14	
		Aristo	JZS161	2JZ - GTE	1997 -	N/A
	JZS160		2JZ - GE			
	JZS 147		2JZ - GTE	1991 - 97	14	
			2JZ - GE			
	Soarer	UZS143	1UZ - FE	1992 - 97	14	
		JZZ30	1JZ - GTE	1996 -	16	
				1991 - 96	15	
		JZZ31	2JZ - GE	1994 - 96		
		UZZ31	1UZ - FE	1991 - 93	14	
		MZ20	7M - GTE	1988 - 91	7	
				1986 - 87	2	
		GZ20	1G - GTE	1988 - 91	7	
				1986 - 87	3	
				1989 - 91	7	
	Supra	JZA80	2JZ - GTE	1997 -	N/A	
				1993 - 97	14	
		JZA70	1JZ - GTE	1990 - 93	12	
				1988 - 90	7	
		MA70	7M - GTE	1986 - 88	2	
				1988	7	
		GA70	1G - GTE	1988 - 93	7	
				1986 - 88	3	
	Mark II Cresta Chaser	JZX100	1JZ - GTE	1988 - 93	7	
				1986 - 88	2	
		JZX90		1996 -	16	
				1994 - 96	N/A	
				1992 - 94		

Vehicle Diagram Reference

TOYOTA	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram
	Mark II Cresta Chaser	JZX91	2JZ - GE	1994 - 96	16
				1992 - 94	15
		JZX81	1JZ - GTE	1990 - 92	12
			1JZ - GE		
		GX81	1G - GTE	1988 - 92	7
			1G - GE	1988 - 92	
	MR2	SW20 III ~ V	3S - GTE	1993 -	12
		SW20 III , IV	3S - GE	1993 - 97	7
		SW20 I , II	3G - GTE	1989 - 93	
			3G - GE		
	Celica	AW 11	4A - GZE	1986 - 89	1
			4A - GE	1984 - 89	
		ST205	3S - GTE	1994 -	7
			3S - GE	1993 - 97	12
		ST202 ST203	3S - FE	1996 -	M/T 6 A/T 11
				1995 - 96	M/T 6 A/T 7
		ST185	3S - GTE	1993 - 95	7
				1991 - 93	
		ST182	3S - GE	1989 - 91	
				1989 - 93	
	Curren	ST165	3S - GTE	1985 - 89	1
		ST162	3S - GE		
		ST206 ST207	3S - GE	1994 - 98	12
			3S - FE	1996 - 98	M/T 5
			3S - FE	1995 - 96	12
				1994 - 95	
		ST202 ST203	3S - GE	1993 - 98	
			3S - FE	1996 - 98	M/T 6 A/T 10
	Carina Ed Corona Exiv		3S - FE	1995 - 96	7
				1993 - 95	
		ST215W	3S - GTE	1997 -	N/A
					8
	Caldina	ST215G	3S - FE		
		ST210G			
		ST195G	3S - GE	1995 - 97	12
		ST195G ST191G	3S - FE	1996 - 97	M/T 6
				1994 - 95	A/T 10
				1992 - 94	M/T 5 A/T 7
				1992 - 97	M/T 5 A/T 7
	Corolla Sprinter	AE111	4A - GE	1995 -	7
			4A - FE		5
			5A - FE		
		AE101	4A - GE	1991 - 95	M/T 5 A/T 7
			4A - FE		
		AE92	4A - GE	1989 - 91	5
				1987 - 89	1
	Corolla Levin Sprinter Trueno	AE111	4A - GE	1995 -	7
			4A - FE		5
			5A - FE		
		AE101	4A - GZE	1991 - 95	7
			4A - GE		M/T 5 A/T 7

Vehicle Diagram Reference

TOYOTA	Vehicle Type	Model Type	Engine Type	Year	Wiring Diagram
	Corolla Levin Sprinter Trueno	AE101	4A - FE	1991 - 95	M/T 5 A/T 7
		AE92	4A - GZE	1989 - 91	7
				1987 - 89	1
			4A - GE	1989 - 91	5
				1987 - 89	1
		AE86	4A - GE	1983 - 87	
	Corolla Ceres Sprinter Marino	AE101	4A - GE	1992 - 95	M/T 5 A/T 7
			4A - FE		
	Corolla FX	AE 101	4A - GE	1992 - 95	M/T 5 A/T 7
			4A - FE		
		AE 92	4A - GE	1989 - 92	5
				1987 - 89	1
	Starlet	EP91	4E - FTE	1995 -	5
			4E - FE		4
		EP82		1989 - 95	
			4E - FTE	1992 - 95	5
				1989 - 91	4
		EP 71	4E - FE	1989 - 95	
			2E - TE	1986 - 89	1
			2E - E		
	RAV 4	SXA 1# G	3S - FE	1997 -	M/T 6 A/T 10
		SXA 11 W	3S - GE		7
		SXA 10 W		1996 -	
		SXA 11 G	3S - FE	1995 - 97	M/T 5 A/T 7
		SXA 10 G		1994 - 97	

GIZZMO WARRANTIES STATEMENT

GIZZMO ELECTRONICS LIMITED

Limited Warranties Statement

Effective March 23, 2001

All products manufactured or distributed by GIZZMO. are subject to the following, and only the following Limited Express Warranties, and no others:

For a period of one (1) year from and after the date of purchase of a new GIZZMO product, GIZZMO warranties and guarantees only to the original purchaser/user that such a product will be free from defects of material and workmanship in the manufacturing process. A product claimed to be defective must be returned to the place of purchase. GIZZMO, at its sole option, shall replace the defective product with a comparable new product or repair the defective product. This express Warranty shall be inapplicable to any product not properly installed and properly used by the purchaser/user or to any product damaged or impaired by external forces. This is the extent of Warranties available on this product. GIZZMO shall have no liability whatsoever for consequential damages following from the use of any defective product or by reason the failure of any product. GIZZMO specifically disclaims and disavows all other warranties, express or implied including, without limitation, all Warranties of fitness for a particular purpose, Warranties of Description, Warranties of Merchantability, Trade Usage or Warranties of Trade Usage. The above warranty is valid to New Zealand only as GIZZMO does not offer an international warranty.