

S-AFCII **SUPER** **AIRFLOW CONVERTER**

SUPER AIR FLOW CONVERTER II WIRING DIAGRAM BY MODEL



This document describes car models to which the Super Airflow Converter (Product code: 401-A911/401-A913) is applicable, and ECU terminal arrangement drawings. For the operating method and precautions for the Super Airflow Converter, refer to the Instruction Manual.

When installing the Super Airflow Converter, both this document and the Instruction Manual are required.

Even if the car model and manufacturing year coincide with the contents described in this document, this product may not be installed in certain specification vehicles or remodeled vehicles. The manufacturing years of applicable vehicles are as of February 2003. For the latest vehicles applications, Please contact your local A ' PEX Office or dealer for more information.



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■ Introduction

“ Safety precautions ” are described in the Instruction Manual.
Please read them before starting installation work.

“ Signal words and their meanings ” are described in the
Instruction Manual for this product. The “ Electronic Control
Unit ” is abbreviated as “ ECU ” in this document.

CAUTION

- Entrust an experienced professional with the installation work of this product.
After completion of the installation, hand over this document, Instruction Manual, and
Warranty to the customer (user)
- Do not pull the harness of the vehicle and the harness of this product.
This may cause wire damage or short circuits, resulting in damage to the product and
vehicle.
- When removing or connecting a connector, be sure to unlock the locked
(claw) status beforehand.
When the connector is provided with a securing bolt, loosen this bolt
completely before pulling out the connector
Failure to do so may damage the connector.
- Keep the harness of this product and vehicle harness away from high
temperatures and moving parts. Also, Keep this harness away from water.
Failure to do so may result in cut wires or short circuits that can lead to vehicle and product
damage.
- Do not route the harness of this product and the harness of the vehicle near a
sharp-edges. Do not insert the harness between objects by applying pressure
to it.
Failure to do so may result in cut wires or short circuits that can lead to vehicle and product
damage.

■ Precautions for Installation

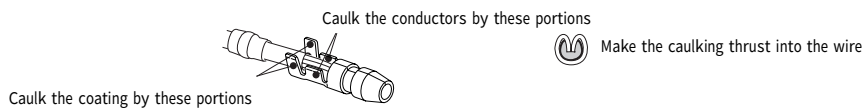
- When installing this product, do not use any electro-taps
Using the electro-tap makes the electrical contact status unstable. This contact defect may cause a malfunction in the product and damage this product and the vehicle.
Be sure to use the attached splice and dedicated tools such as cutting pliers for electric work to install this product securely and properly.

- Insulate the metallic portion of the harness securely with electrical tape.

● Caulking the plug

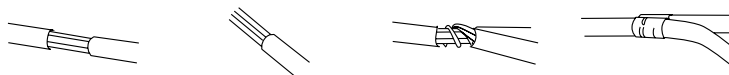
- (1) Peel off the coating of the wires about 8 mm
- (2) Cover with a sleeve
- (3) Fold the wires
- (4) Caulk securely

※Check if caulking has been performed securely by referring to the following figure



● Caulking the splice

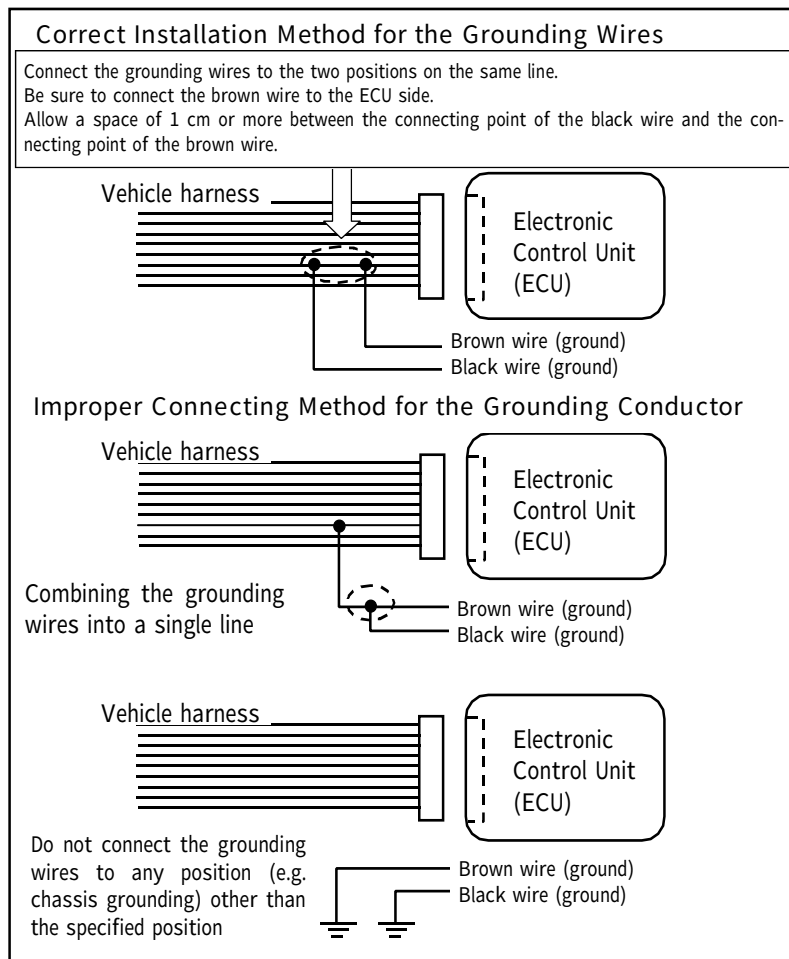
- (1) Peel off the coating of the wires to be connected about 5 mm
- (2) Peel off the wires to be branched about 10 mm
- (3) Entwine the wires
- (4) Caulk securely



※Insulate the caulked portion securely with a vinyl tape

- This product has two grounding wires (Black + Brown)

This has a very important significance when securing voltage conversion accuracy. Connect the grounding wires by referring to the following figure. Installing the grounding wires in a different way from the installation method specified by A' PEX will damage this product and the vehicle engine



The figure above only shows the connection of the grounding wires. For the other signal lines, refer to page 8 and page 9.

Be sure to wire the power cable, grounding wires and other signal lines to the positions specified by A' PEX.

■ Installation

● Connecting the SAFC II

1. Remove the negative (—) terminal of the battery

advice!

There is some setting data on car audio, car navigation, etc. that is backed up by the battery power supply. We recommend you to take a note of the data in case it is lost.



- Before starting the wiring work, remove the negative terminal of the battery. Failure to do so may cause a short circuit and damage the wires. If the ECU connector is removed while the battery is connected, the engine warning lamp may light up continuously regardless of whether the SUPER AFC II is installed or not. At this time, you must ask the distributor of the car model to perform maintenance and inspection.
- We shall not take any responsibility for damage to the vehicle or related devices that may be caused by installation error.

2. Locate the Electronic Control Unit (hereafter referred to as ECU) of the vehicle by referring to the vehicle specific wiring diagram.

3. Connect the harness attached to the SUPER AFC II securely to the power cable of the vehicle harness, grounding wire, engine rpm signal wire, throttle signal wire, and knocking signal wire from the ECU by referring to the vehicle specific wiring diagram. (Refer to page 8 and page 9.)

Connect the red wire to the power supply.

Connect the green wire to the engine rpm signal wire.

Connect the gray wire to the throttle signal wire.

Connect the black wire to the ground wire.

Connect brown wire to the ground wire.

Connect the purple wire to the knocking signal wire . . . ※

※ For models with a single knocking wire.

Connect the purple wire directly to the knocking signal wire.

※ For models with multiple knocking wires (knocking signal 1, knocking signal 2, . . .)

Refer to page 11 without making any connection at this time.

■ Installation (cont.)

CAUTION

- Be sure to connect the black wire and the brown wire of the harness attached to the SAFC II to the ground wire.
Failure to do so may cause this product not to function properly, thereby causing damage to the product and the engine.

- When locating each wire, take special care not to cause a short circuit.
An electrical fire may be caused or electrical devices may be damaged as a result.

- Securely install the splice without any loose contacts.
Electric devices may be damaged as a result.

4. Cut the airflow signal wire or pressure signal wire of the vehicle harness and install a plug by referring to the vehicle specific wiring diagram.

Plug : ECU side

Plug receptacle : Airflow sensor or pressure sensor side

Vehicles equipped with the RB26DETT have 2 airflow signal wires. Cut these 2 wires.

5. Connect the harness attached to the SAFC II to the plug installed in step 4

For Hot Wire/ Flap/Pressure sensor	Plug receptacle: White wire Plug: Yellow wire
For Karman	Plug receptacle: Orange wire Plug: Pink wire

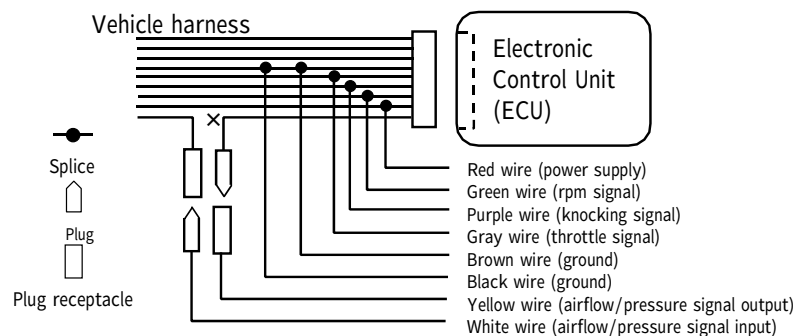
6. Insulate the splice and unused plug with electrical tape.

7. Reconnect the negative (—) terminal of the battery

■ Installation (cont.)

● Wire connecting method

※For vehicles using a hot wire/flap/pressure sensor

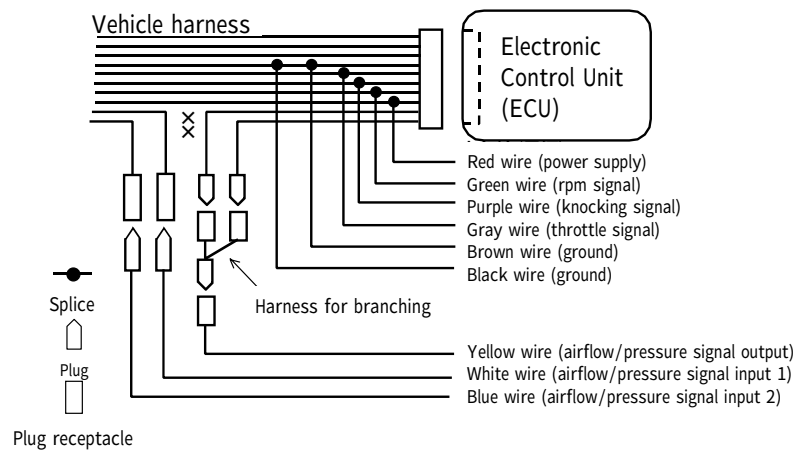


⚠ CAUTION

● Be sure to connect the brown wire to the ECU side.

Failure to do so may cause this product to function improperly, thereby causing damage to the product and the engine

※For vehicles equipped with the RB26DETT



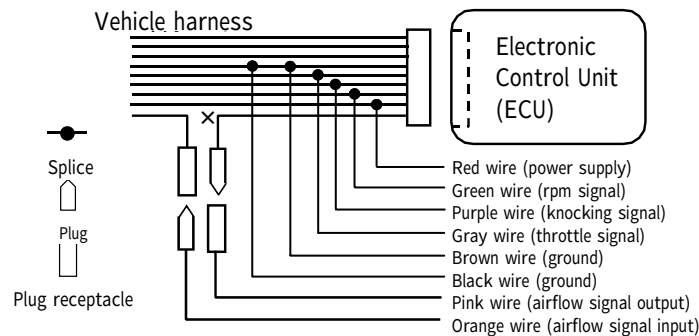
⚠ CAUTION

● Be sure to connect the brown wire to the ECU side from the black wire

Failure to do so may cause this product to function improperly, thereby causing damage to the product and the engine

■ Installation (cont.)

※For vehicles using the Karman type frequency sensor



⚠ CAUTION

- Be sure to connect the brown wire to the ECU side from the black wire. Failure to do so may cause this product to function improperly, thereby causing damage to the product and the engine.

⚠ WARNING

- Mount the SAFC II so that it does not interfere with driving. Normal driving operations may be prevented, resulting in an accident.
- Do not install the SAFC II in a high-temperature place or in a location where it may come in contact with water. An electric shock/fire may be caused. This may cause damage to the product and vehicle.
- When routing the connecting harness of the SAFC II, route the harness away from moving parts. The connecting harness may be cut or short-circuited. The SAFC II will be damaged, thereby causing damage to the vehicle and other electric parts.

S-AFC II

● Check points after installation.

After installing the SUPER AFC II, check the following items once again

- Check if the harness attached to the SAFC II is securely connected
- Check if the harness is not routed improperly
- Check if the SAFC II is securely mounted
- Check if the negative (—) terminal of the battery is securely connected

● Turn on the ignition switch. (Do not start the engine.)

Check the following contents after turning on the ignition switch

- Check if the characters are correctly displayed on the display screen of the SAFC II
If the display of this product is not correct, discontinue use of the product immediately and contact the distributor.
- Check for any abnormal noise or abnormal smell from the SAFC II and the vehicle.
If any abnormal noise or abnormal smell is sensed, discontinue use of this product immediately and contact the distributor.

● Initial setup

- If no abnormality is found with the ignition switch ON, perform initial setup for the SAFC II.

• When the engine is ready to start after initial setup, the installation work is completed .
Perform sensor type and sensor number setting, number-of-cylinders setting, throttle sensor voltage check, throttle sensor type setting, throttle learning, and knocking signal correction according to “Initial Setup” on page 13 in the separate Instruction Manual.



CAUTION

● Do not start the engine under any circumstance before the initial setup is performed

If the engine is started before initial setup, the engine may be damaged. Set the corresponding items by referring to page 13 in the Chapter pertaining to “Initial Setup” in the separate Instruction Manual.



WARNING

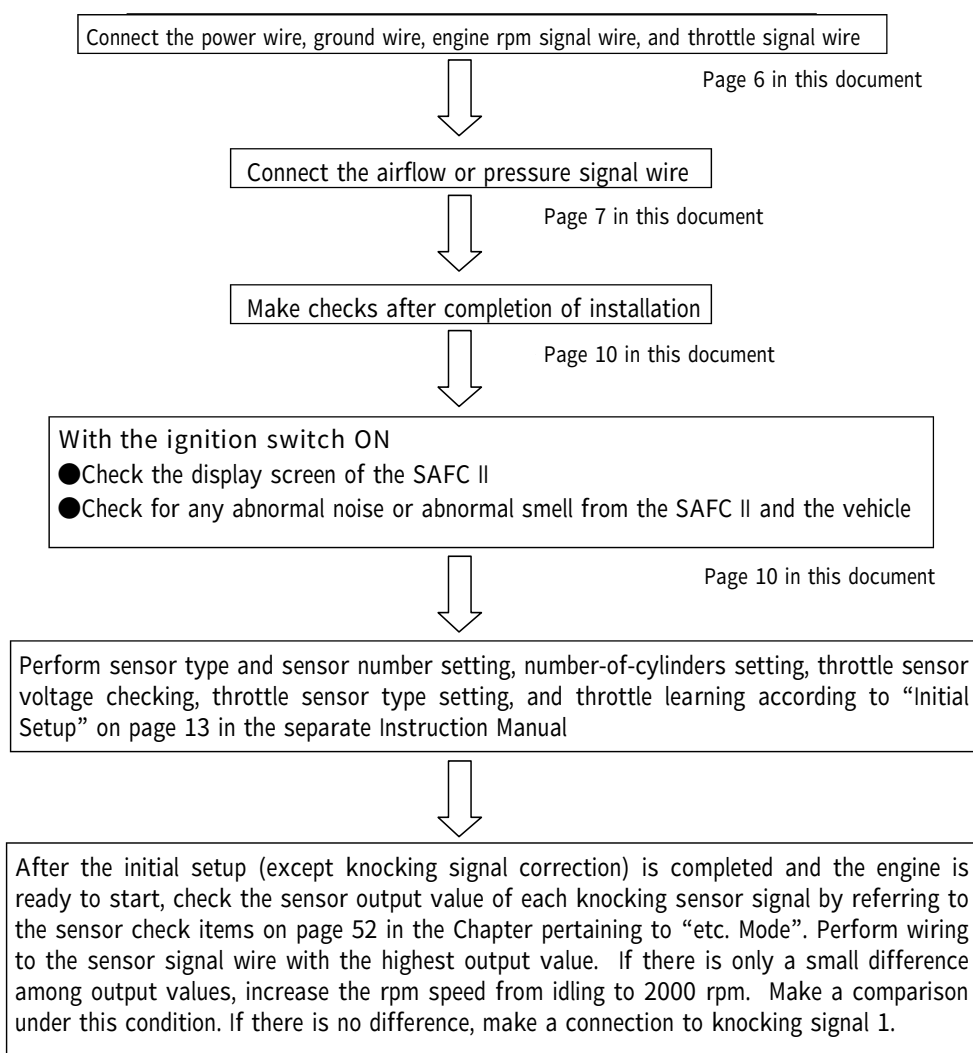
● If the engine check lamp illuminates, you must contact a dealer for inspection. If the vehicle is driven at a high speed with the engine warning lamp ON, the engine may be damaged, leading to an unexpected accident. Do not drive the vehicle under these conditions.

■ Installation (cont.)

※For vehicles equipped with multiple knocking signal wires

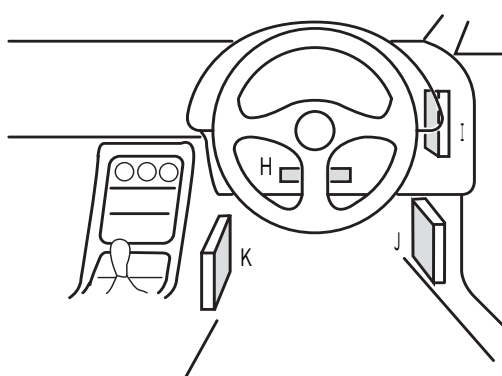
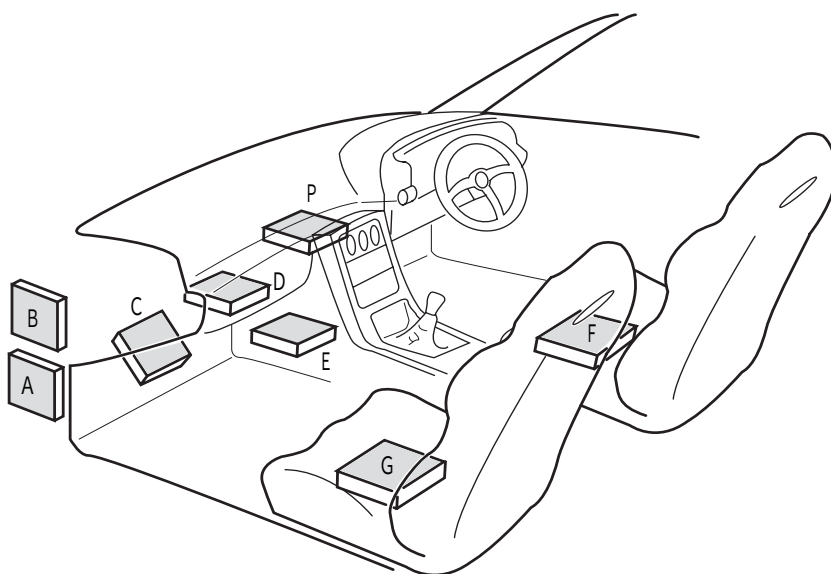
Connect only the power wire, ground wire, engine rpm signal wire, and throttle signal wire and proceed to the following operations.

For connecting the knocking signal wire, perform this work separately according to the following procedure



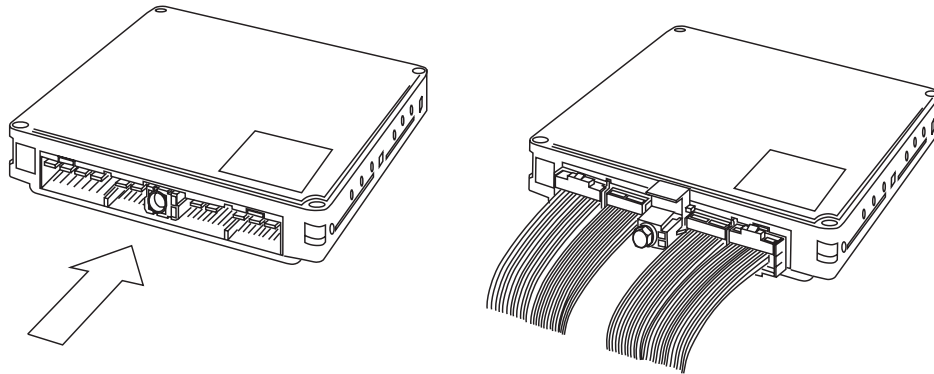
■ ECU Arrangement Diagram

- Perform installation by referring to the symbols in the corresponding columns of the tables of applicable models on and after page 14



- A : Lower part of the passenger seat dash side
- B : Left side of the glove box
- C : Foot position of the passenger seat
- D : Inner part of the glove box
- E : Inner part of the center console
- F : Under the driver's seat
- G : Under the passenger seat
- H : Near the steering column
- I : Right side of the meter panel
- J : Lower part of the driver's seat dash side
- K : Right side of the center console
- L : Engine room
- M : Before the rear trunk
- N : Behind after the driver's seat
- O : Behind the passenger seat
- P : Upper inner part of the center console

■ How to Refer to the ECU Terminal Arrangement Diagram



This ECU terminal arrangement diagram is viewed from the direction of the arrow.

The direction of the ECU varies depending upon the vehicle. Perform the installation work after confirming the connector shape and the number of pins.



WARNING

- If any abnormal noise or abnormal smell is sensed during the installation work of this product, stop the work immediately and contact the distributor or your nearest A ' PEX business office
Continuing the installation under such conditions may cause an electric shock or fire causing damage to electric devices.

■Table of Applicable Models (T O Y O T A)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

FL—Flap

PR—Pressure

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensortype	
CELCIOR	UCF2#	1UZ—FE	'97.7～'00.7	L		T10—e	HW—13	
			'94.10～'97.6	D		T8—a	HW—12	
	UCF1#	1UZ—FE	'92.9～'94.9			T5—f	KR	
			'89.11～'92.8					
CROWN ROYAL	JZS173	1JZ—GE	'99.9～'01.7	L		T10—a	PR—16	
CROWN ATHLETE	JZS171	1JZ—GTE	'99.9～'01.7			T10—b	HW—23	
	JZS173	1JZ—GE				T10—a	PR—16	
CROWN MAJESTA	UZS141	1UZ—FE	'91.10～'95.7	D		T7—b	KR	
CROWN ESTATE	JZS171W	1JZ—GTE	'99.9～'01.7	L		T10—b	HW—23	
	JZS173W	1JZ—GE				T10—a	PR—16	
CROWN	JZS14#	2JZ—GE	'91.10～'95.7	D		T8—b	PR—3	
ARISTO	JZS161	2JZ—GTE	'97.8～※	L		T10—e	HW—13	
	JZS160	2JZ—GE	'97.8～'00.6					
	JZS147	2JZ—GTE	'91.10～'97.7	C		T7—c	PR—1	
		2JZ—GE					PR—3	
	UZS143	1UZ—FE	'92.10～'97.7			T7—b	KR	
SOARER	UZZ40	3UZ—FE	'01.4～※	L		T11—b	HW—25	
	JZZ30	1JZ—GTE	'96.8～'01.4	C		T8—d	HW—12	
			'91.5～'96.7			T8—c	PR—1	
	JZZ31	2JZ—GE	'94.1～'96.7			T8—b	PR—3	
	UZZ31	1UZ—FE	'94.1～'95.4			T8—a	KR	
			'91.5～'93.12			T7—a		
	MZ20	7M—GTE	'88.1～'91.4	D		T5—a		
			'86.1～'87.12			T2—b		
	GZ20	1G—GTE	'88.1～'91.4			T5—a	FL—1	
			'86.1～'87.12			T2—e		

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type		
SOARER	GZ20	1G-GE	'88.1~'91.4	D		T5-b	PR-3		
			'86.1~'87.12			T2-d			
SUPRA	JZA80	2JZ-GTE	'97.8~'02.8	C		T10-c	HW-13		
		2JZ-GE	'93.5~'97.7			T7-c	PR-1		
							PR-3		
	JZA70	1JZ-GTE	'90.8~'93.4	D		T6-a	PR-1		
	MA70	7M-GTE	'88.9~'90.7			T5-a	KR		
			'86.2~'88.8			T2-b			
			'88.8		Including TURBO A	T5-a	PR-1		
	GA70	1G-GTE	'88.9~'93.4				FL-1		
			'86.2~'88.8			T2-e			
		1G-GE	'88.9~'93.4			T5-b	PR-3		
			'86.2~'88.8			T2-d			
MARK II	JZX110	1JZ-GTE	'00.10~※	L		T10-b	HW-23		
	JZX115	1JZ-GE				T10-a	PR-16		
MARK II BLID	JZX110W	1JZ-GTE	'02.1~※			T10-b	HW-23		
	JZX115W	1JZ-GE				T10-a	PR-16		
MARK II QUALIS	MCV20W	1MZ-FE	'99.8~'02.1	E		T10-f	HW-13		
			'97.5~'99.7						
	MCV21W	2MZ-FE	'97.5~'02.1			T8-f			
	MCV25W								
VEROSSA	JZX110	1JZ-GTE	'01.7~※	L		T10-b	HW-23		
MARK II CRESTA CHASER	JZX100	1JZ-GTE	'96.9~'01.7	E		T8-d	HW-12		
	JZX90		'94.9~'96.8			T8-e	PR-1		
			'92.10~'94.8			T8-c			
	JZX90	1JZ-GE	'92.10~'96.8			T6-a	PR-3		
		JZX91	2JZ-GE		'94.9~'96.8			T8-d	
	'92.10~'94.8					T8-b			
	JZX81	1JZ-GTE	'90.8~'92.9	D		T6-a	PR-1		
		1JZ-GE					PR-3		
	GX81	1G-GTE	'88.8~'92.9			T5-a	FL-1		
		1G-GE				T5-b	PR-3		

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type	
MR2	SW20	3S-GE	'97.12~'99.10	M		T9-b	HW-13	
	SW20Ⅲ~Ⅴ	3S-GTE	'93.10~'99.10			T5-c	PR-2	
	SW20Ⅲ,Ⅳ	3S-GE	'93.10~'97.11			T6-b	PR-3	
	SW20Ⅰ,Ⅱ	3S-GTE	'89.10~'91.11			T5-b	FL-2	
			'91.12~'93.9			T5-c		
		3S-GE	'89.10~'91.11			T5-b	PR-3	
			'91.12~'93.9			T5-c		
	AW11	4A-GZE	'86.8~'89.9			T2-a	FL-3	
		4A-GE	'84.6~'89.9			T1-a	PR-3	
CELICA	ZZT230	1ZZ-FE	'99.9~※	L		T9-b	HW-24	
	ZZT231	2ZZ-GE						
	ST205	3S-GTE	'94.2~'99.8	E		T5-c	PR-2	
	ST202 ST203	3S-GE	'93.10~'97.11			T6-b	PR-3	
		3S-FE	'96.6~'99.8		M/T	T4-f		
			'95.8~'96.5		A/T	T5-g		
			'93.10~'95.7		M/T	T4-a		
			A/T		T5-c			
	ST185	3S-GTE	'91.9~'93.9					FL-2
	'89.10~'91.8				T5-b			
	ST182	3S-GE	'89.10~'93.9			T5-c	PR-3	
	ST165	3S-GTE	'85.8~'89.9			T2-a	FL-2	
	ST162	3S-GE				T2-c		
CURREN	ST206 ST207	3S-GE	'94.1~'98.7	E		T6-b	PR-3	
		3S-FE	'96.6~'98.7		M/T	T4-f		
			'95.10~'96.5		A/T	T5-g		
					M/T	T4-a		
			'94.1~'95.9		With A/T TRC	T6-b		
					Without A/T TRC	T5-c		
					With TRC	T6-b		
			Without TRC		T5-c			

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type		
CARINA ED CORONA EXIV	ST202 ST203	3S—GE	'93.10～'98.4	E		T6—b	PR—3		
		3S—FE	'96.6～'98.4		M／T	T4—f			
			'95.8～'96.5		A／T	T5—g			
					M／T	T4—a			
					With A/T TRC	T6—b			
					Without A/T TRC	T5—c			
			With TRC		T6—b				
		Without TRC	T5—c						
CALDINA	ST246W	3S—GTE	'02.9～※	D		T11—c	PR—2		
	ZZT241W	1ZZ—FE						HW—24	
	ST215W	3S—GTE	'97.8～'02.8			T9—a	PR—2		
	ST215G	3S—FE				T5—d	PR—3		
	ST210G								
	ST195G	3S—GE	'95.2～'97.7			T6—b			
	ST195G ST191G	3S—FE	'96.1～'97.7		M／T	T4—f			
					2WD・A/T	T5—e			
					4WD・A/T	T5—g			
					FF・With TRC	T6—b			
			FF・Without TRC		T5—C				
			4WD・M/T		T4—a				
			4WD・A/T		T5—c				
			FF・A/T		T6—c				
	4WD・M/T	T4—a							
	4WD・A/T	T5—c							
	ST190G	4S—FE	'92.11～'97.7		M／T	T4—e			
					A／T	T5—a			
COROLLA FX	AE101	4A—GE	'92.5～'95.4	E	M／T	T4—b	FL—4		
		4A—FE			A／T	T5—b			
					AE92	4A—GE	'89.5～'92.4	M／T	T4—b
		'87.5～'89.4					A／T	T5—c	
			T4—a						
			T1—a						

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type	
COROLLA SPRINTER	AE111	4A-GE	'95.5~'00.9	E		T5-b	PR-3	
		4A-FE				T4-b		
		5A-FE						
	AE101	4A-GE	'91.6~'95.4		M/T	T5-b	FL-4	
		4A-FE			A/T			T4-b
					A/T	T5-c	PR-3	
	AE92	4A-GE	'89.5~'91.5			T4-b		
			'87.5~'89.4			T1-a		
LEVIN TRUENO	AE111	4A-GE	'95.5~'00.9	E		T5-b	PR-3	
		4A-FE				T4-b		
		5A-FE						
	AE101	4A-GZE	'91.6~'95.4			T5-b	PR-1	
		4A-GE			M/T	T4-b	FL-4	
		4A-FE			A/T	T5-b		
	AE92		'89.5~'91.5 '87.5~'89.4 '89.5~'91.5 '87.5~'89.4		M/T	T4-b	PR-3	
					A/T	T5-c		
						T5-b	PR-1	
						T2-a	FL-3	
						T4-a	PR-3	
	AE86	4A-GE	'83.5~'87.4			T1-a		
						T1-c		
	CERES MARINO	AE101	4A-GE		'92.5~'95.4	E	M/T	T4-b
			A/T	T5-b			PR-3	
			M/T	T4-b				
4A-FE			A/T	T5-c				
ALTEZZA	SXE10	3S-GE	'98.10~※	L	M/T	T9-c	HW-15	
					A/T	T10-d		
ALTEZZA GITA	JCE10W	2JZ-GE	'01.7~※	L		T10-b	HW-24	
	JCE15W							
MR-S	ZZW30	1ZZ-FE	'99.10~※	O	Including Sequential M/T	T9-b	HW-24	

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type		
STARLET	EP91	4E—FTE	'96.1～'99.7	D	M／T	T4—d	PR—1		
					A／T	T4—c			
		4E—FE	'96.1～'97.12				T3—b	PR—3	
	EP82	4E—FTE	'89.12～'95.11	E	M／T	T3—a	PR—1		
			'92.1～'95.11		A／T	T4—b			
			'89.12～'91.12			T3—a			
		4E—FE	'89.12～'95.11			T3—c	PR—3		
	EP71	2E—TE	'86.1～'89.11			T1—b	PR—1		
		2E—E					PR—3		
RAV4	ZCA25W	1ZZ—FE	'00.5～※	D		T9—b	HW—24		
	ZCA26W								
	SXA1#G	3S—FE	'97.9～'00.4	E	M／T	T4—f	PR—3		
					A／T	T5—g			
	SXA11W	3S—GE	'96.8～'00.4			T5—c			
	SXA10W								
	SXA11G	3S—FE	'95.4～'97.8		M／T	T4—a			
					A／T	T5—c			
	SXA10G		'94.5～'97.8		M／T	T4—a			
					A／T	T5—c			
VITZ	NCP13	1NZ—FE	'02.8～※	D		T11—c	HW—24		
			'00.10～'02.7			T6—d			
	NCP10	2NZ—FE	'02.8～※			T11—c			
			'00.10～'02.7			T6—d			
	NCP15		'02.8～※			T11—c			
			'00.10～'02.7			T6—d			
FUN CARGO	NCP21	1NZ—FE	'99.8～※	P		T6—d	HW—24		
	NCP25								
	NCP20	2NZ—FE							
	NCP21	1NZ—FE			With Steermatic	T9—d			
	NCP25								
	NCP20							2NZ—FE	

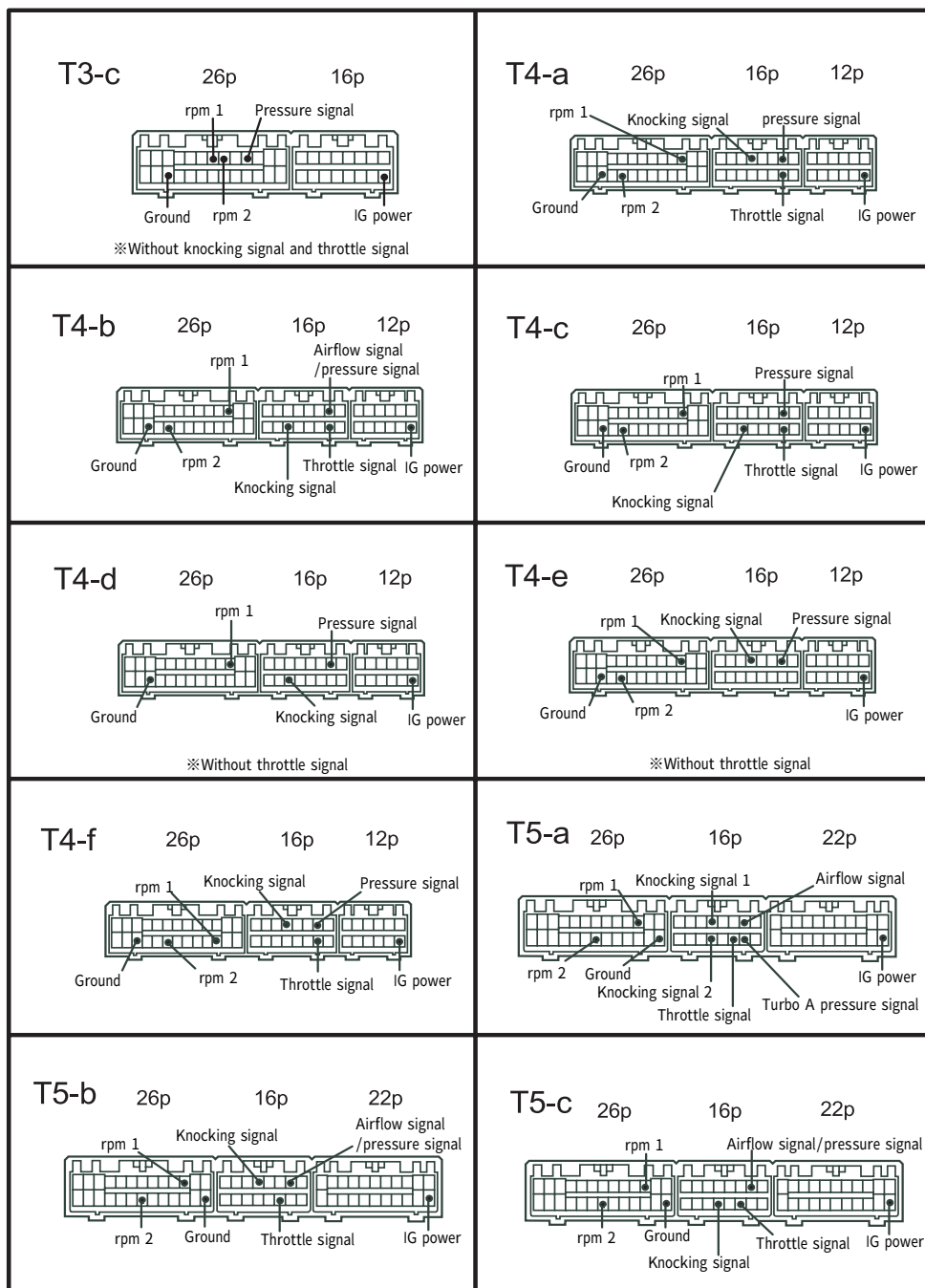
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
COROLLA	ZZE12#	1ZZ－FE	‘02.9～※	D		T11－c	HW－24
	NZE121	1NZ－FE					
	NZE124						
	ZZE12#	1ZZ－FE	‘00.8～‘02.8			T9－b	
	NZE121	1NZ－FE				T6－d	
	NZE124						
COROLLA FIELDER	ZZE123G	2ZZ－GE	‘02.9～※	D		T10－g	HW－24
	ZZE122G	1ZZ－FE			M／T	T9－b	
					A／T	T11－c	
	NZE121G	1NZ－FE					
	NZE124G						
	ZZE123G	2ZZ－GE	‘00.8～‘02.8			T10－g	
	ZZE122G	1ZZ－FE				T9－b	
	NZE121G	1NZ－FE				T6－d	
NZE124G							
COROLLA RUNX ALEX	ZZE123	2ZZ－GE	‘02.9～※	D		T10－g	HW－24
	NZE121	1NZ－FE				T11－c	
	NZE124						
	ZZE123	2ZZ－GE	‘01.1～‘02.8			T10－g	
	NZE121	1NZ－FE				T6－d	
	NZE124						
COROLLA SPACIO	ZZE122N	1ZZ－FE	‘01.5～※	D		T9－b	HW－24
	ZZE124N						
	NZE121N	1NZ－FE				T6－d	
WILL VS	ZZE128	2ZZ－GE	‘01.4～※	D		T10－g	HW－24
	ZZE127	1ZZ－FE				T9－b	
	ZZE129						
WILL CYPHA	NCP75	1NZ－FE	‘02.10～※	D		T11－c	HW－24
	NCP70	2NZ－FE					
ALLION	ZZT240	1ZZ－FE	‘01.12～※	B		T11－c	HW－24
	NZT240	1NZ－FE					

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
PLATZ	NCP12	1NZ－FE	‘02.8～※	E		T11－c	HW－24
	NCP16	2NZ－FE					
	SCP11	1SZ－FE					
	NCP12	1NZ－FE	‘99.8～‘02.7			T6－d	
	NCP16	2NZ－FE					
	SCP11	1SZ－FE					
bB	NCP30	2NZ－FE	‘02.8～※	D		T11－c	HW－24
	NCP35	1NZ－FE					
	NCP31						
	NCP34						
	NCP30	2NZ－FE	‘00.2～‘02.7			T6－d	
	NCP35	1NZ－FE					
	NCP31						
	NCP34						
		‘01.6～‘02.7					
ist	NCP61	1NZ－FE	‘02.5～※	D		T11－c	HW－24
	NCP60	2NZ－FE					
WISH	ZNE1#G	1ZZ－FE	‘03.1～※	A		T11－c	HW－24
VOLTZ	ZZE137	2ZZ－GE	‘02.8～※	D		T11－c	HW－24
	ZZE138	1ZZ－FE					
	ZZE136						
OPA	ZCT1#	1ZZ－FE	‘00.8～‘02.5	D		T9－b	HW－24
WINDOM	MCV30	1MZ－FE	‘01.8～※	B		T11－a	HW－13
ESTIMA	MCR#0W	1MZ－FE	‘00.1～※	D		T10－f	HW－15
ALPHARD	MNH1#W	1MZ－FE	‘02.5～※	D		T10－f	HW－15

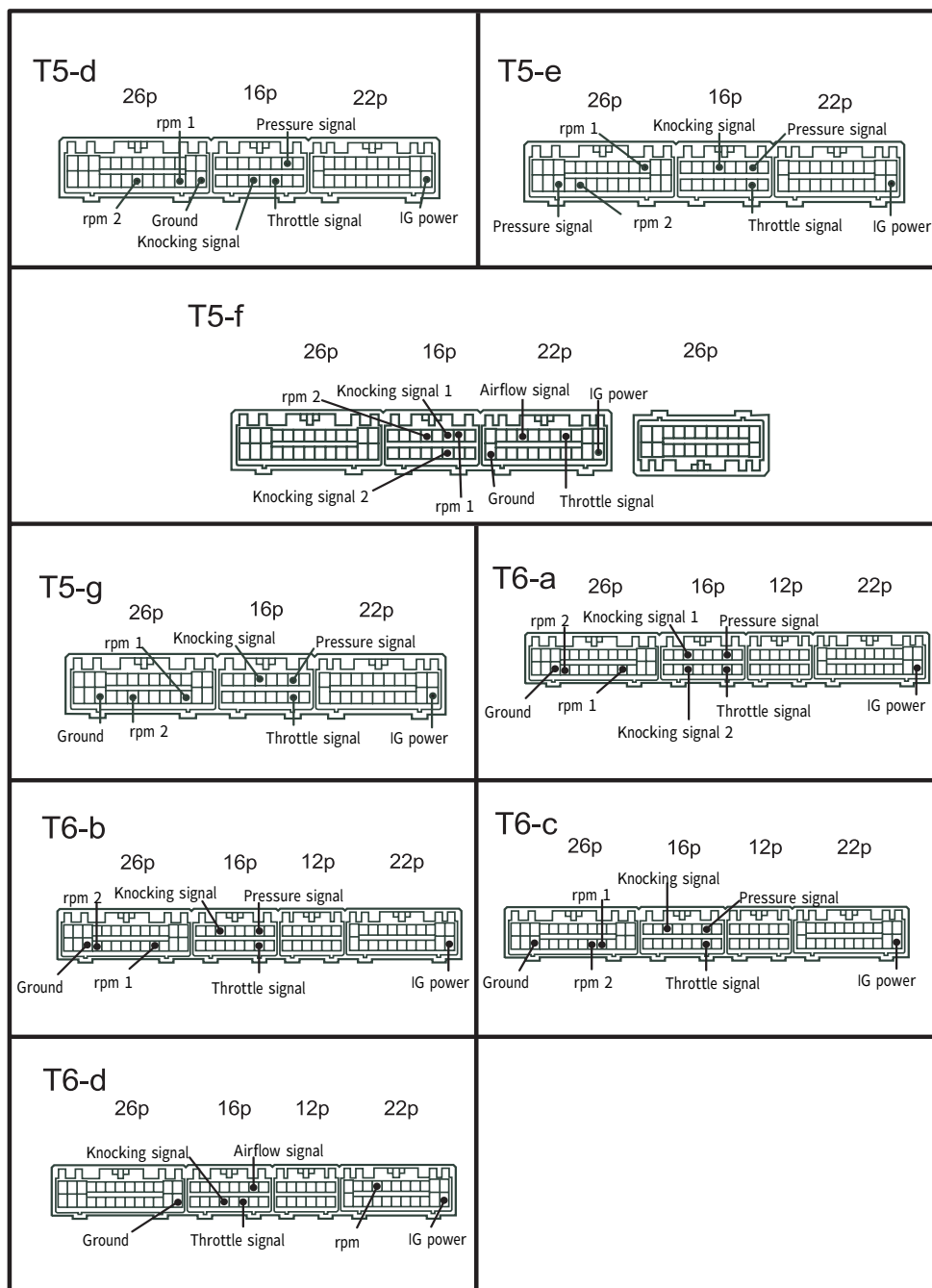
■ ECU Terminal Arrangement Table (TOYOTA)

T1-a 10p 18p 14p rpm 1 Pressure signal rpm 2 Ground Throttle signal IG power ※Without knocking signal	T1-b 10p 18p 14p rpm 2 rpm 1 Pressure signal Ground Knocking signal IG power ※Without throttle signal
T1-c 10p 18p 14p rpm 1 Pressure signal rpm 2 Ground IG power ※Without knocking signal and throttle signal	T2-a 10p 18p 24p rpm 1 Airflow signal rpm 2 Ground Throttle signal Knocking signal IG power
T2-b 10p 18p 24p rpm 2 rpm 1 Airflow signal Ground Throttle signal Knocking signal 1 Knocking signal 2 IG power	T2-c 10p 18p 24p rpm 2 rpm 1 Airflow signal Ground Throttle signal IG power ※Without knocking signal
T2-d 10p 18p 24p rpm 2 rpm 1 Ground Throttle signal Pressure signal IG power ※Without knocking signal	T2-e 10p 18p 24p rpm 2 rpm 1 Airflow signal Ground Knocking signal 1 Knocking signal 2 IG power ※Without throttle signal
T3-a 26p 16p rpm 1 Pressure signal Ground Knocking signal rpm 2 IG power ※Without throttle signal	T3-b 26p 16p rpm 1 Pressure signal Ground Knocking signal Throttle signal rpm 2 IG power

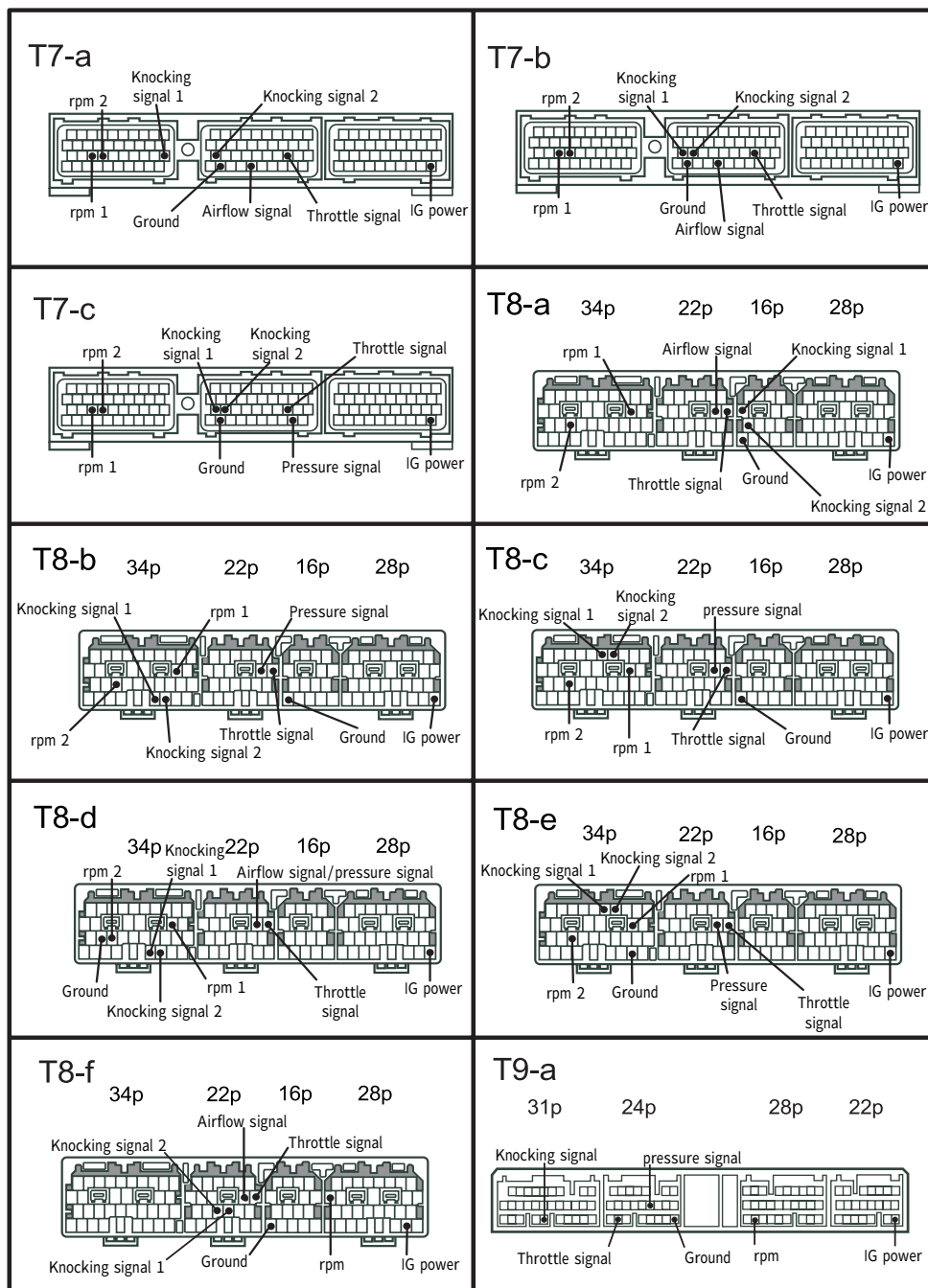
Ordinary connection : rpm 1
Multiple connection : rpm 2



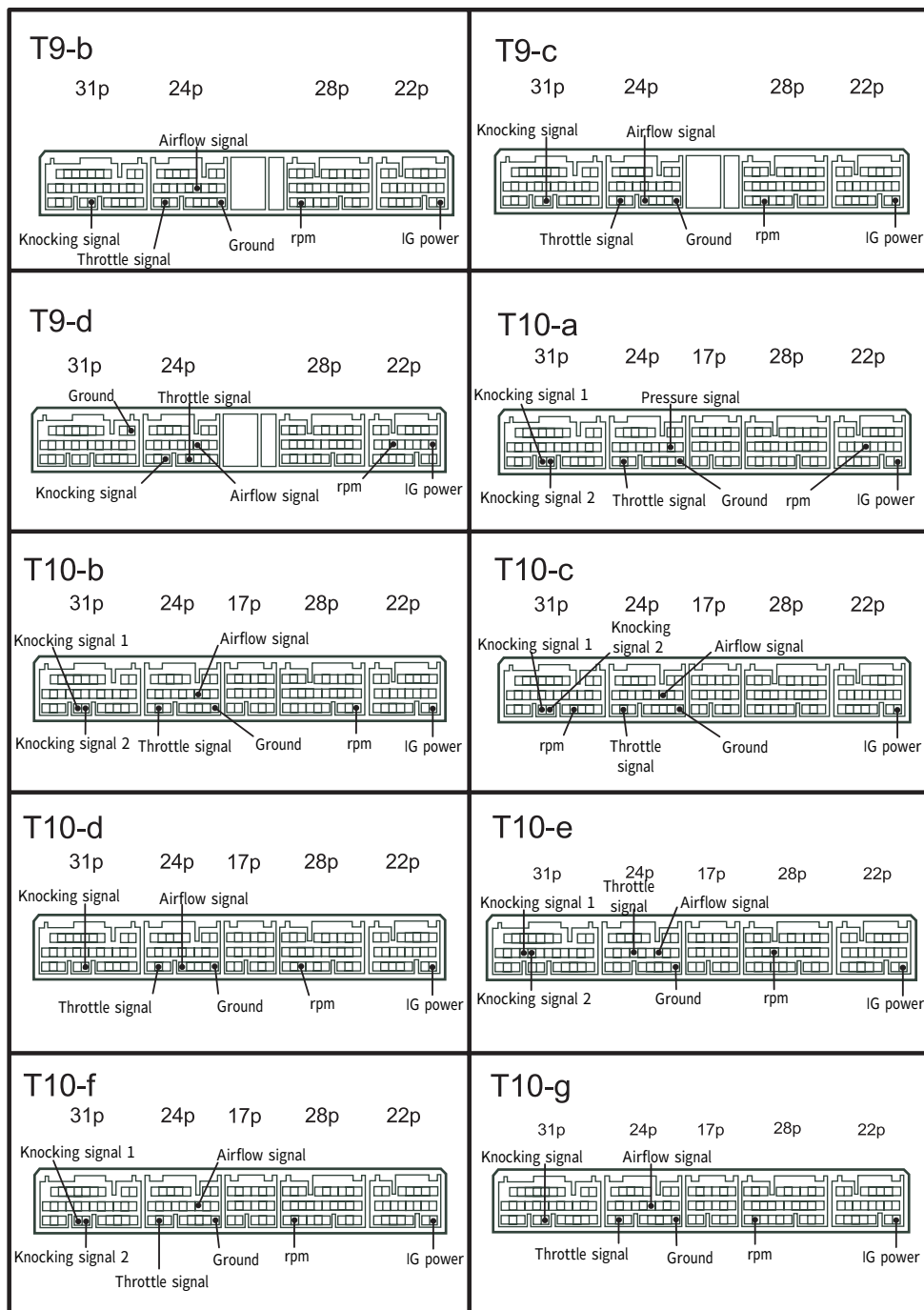
Ordinary connection : rpm 1
Multiple connection : rpm 2



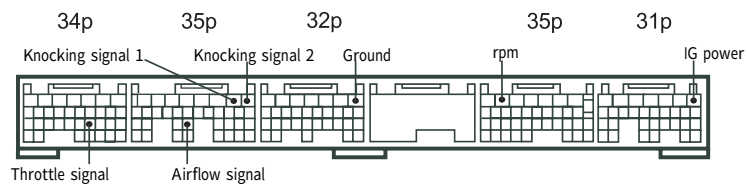
Ordinary connection : rpm 1
Multiple connection : rpm 2



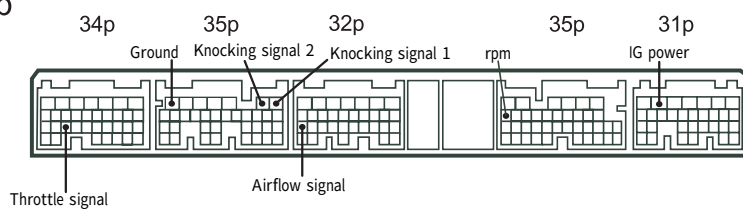
Ordinary connection : rpm 1
Multiple connection : rpm 2



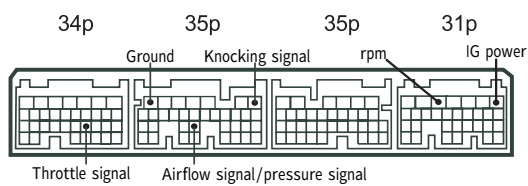
T11-a



T11-b



T11-c



■Table of Applicable Models (NISSAN)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

FL—Flap

PR—Pressure

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
PRESIDENT	G50	VH45DE	'90.10～※	A		N4－c	HW－1
INFINITY Q45	G50	VH45DE	'89.11～'97.9	A		N4－c	HW－1
CIMA	HF50	VQ30DET	'01.2～※	D		N8－c	HW－17
CIMA III	FGY33	VH41DE	'98.10～'00.12	A		N10－a	HW－1
	FHY33	VQ30DET				N5－a	HW－4
	FGY33	VH41DE	'96.6～'98.9			N6－a	HW－1
	FHY33	VQ30DET				N5－a	HW－4
CIMA II	FGY32	VH41DE	'91.8～'96.5	A		N4－c	HW－1
	FPY32	VG30DET	'93.9～'96.5			N4－d	HW－4
CIMA I	FPY31	VG30DET	'89.8～'91.7	A		N4－h	HW－4
		VG30DE					
		VG30DET	'88.1～'89.7			N2－a	
		VG30DE					
FAIRLADY Z	Z33	VQ35DE	'02.7～※	D		N11－d	HW－26
	Z32	VG30DETT	'89.7～'00.8	C		N3－d	HW－2
		VG30DE					
LEOPARD	Y33	VQ25DE	'97.10～'99.6	A		N5－a	HW－4
		VQ30DET	'96.3～'99.6				
		VQ30DE					
	UF31	VG30DET	'88.8～'92.5			N4－f	
		VG30DE					
	GF31	VG20DET				N2－a	
LEOPARD J FERIE	JGBY32	VH41DE	'92.6～'96.2	A		N4－c	HW－1
	JPY32	VG30DE				N4－g	HW－4

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type	
CEDRIC GLORIA	Y34	VQ30DET	'99.6～※	D		N8－c	HW－18	
	Y33		VQ30DE	A		N5－a	HW－4	
	Y32	VG30DET			'91.6～'95.5			N4－g
		VG30DE				N4－e		
	Y31	VG20DET	'89.6～'91.5					
		VG20E						
CEFIRO	A33	VQ20DE	'01.1～※		E			N8－a
			'98.12～'00.12			N8－b		
	A32	VQ30DE	'97.1～98.12			N6－c	HW－4	
		VQ25DE						
		VQ20DE		M／T		N3－d		
		VQ30DE	'94.8～'96.12	A／T		N6－c		
		VQ25DE				N4－a		
		VQ20DE						
	A31	RB20DET	'88.9～'94.7	A		N4－i		
		RB25DE	'92.5～'94.7			N4－a		
		RB20DE	'88.9～'94.7			N4－i		
CEFIRO WAGON	W#A32	VQ30DE	E		N6－c	HW－4		
		VQ25DE						
		VQ20DE						
LAUREL	C35	RB25DET	'97.6～※	A		N6－b	HW－4	
		RB25DE						
		RB20DE						
	C34	RB25DET	'94.1～'97.5			N4－c		
		RB25DE	'93.1～'97.5					
		RB20DE						
	C33	RB20DET	'89.1～'92.12					
		RB20DE						
SKYLINE	CPV35	VQ35DE	'03.2～※	D		N11－d	HW－26	
	PV35		'02.2～※			N8－c		

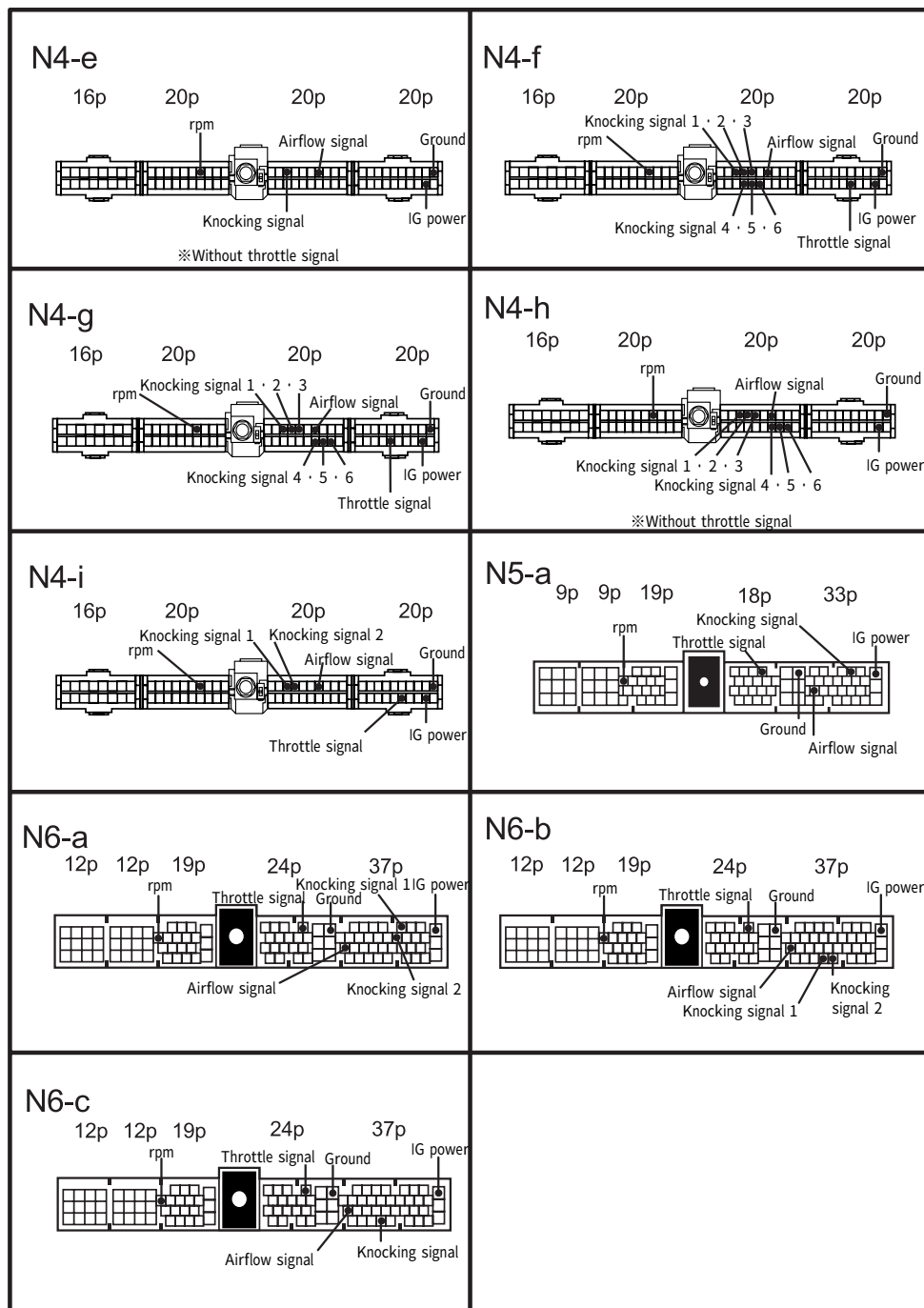
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
SKYLINE	R34	RB26DETT	'99.1~'02.8	A		N4-b	HW-3
		RB25DET	'98.5~'01.5			N6-b	HW-4
	R33	RB26DETT	'95.1~'98.12			N4-b	HW-3
		RB25DET	'96.1~'98.4			N4-c	HW-4
		RB25DE					
		RB25DET	'93.8~'95.12				
		RB25DE					
	R32	RB26DETT	'89.8~'94.12			N4-b	HW-3
		RB25DE	'91.8~'93.7			N4-c	HW-4
		RB20DET	'89.5~'93.7				
		RB20DE					
	R31	RB20ET	'87.8~'89.5			N1-a	
		RB20E					
STAGEA	NM35	VQ25DET	'01.10~※	D		N8-c	HW-18
	W#C34	RB25DET	'96.8~'01.10	A		N6-b	HW-4
		RB25DE					
STAGEA AUTECH Ver.260RS	WGNC34	RB26DETT	'97.10~'01.10	A		N4-b	HW-3
BLUEBIRD SYLPHY	G10	QG18DE	'00.8~※	L	2WD	N9-a	HW-18
		4WD			N7-a		
		QG15DE					
BLUEBIRD	U14	SR20VE	'97.9~'01.7	E		N3-a	HW-14
		SR20DE	'96.1~'01.7				HW-6
		SR18DE			Except the Lean Burn		
	U13	SR20DET	'91.9~'95.12				
		SR20DE					
		SR18DE					
	U12	SR20DET	'89.10~'91.8				
		SR20DE					
		CA18DET	'87.9~'89.9			N3-d	HW-7
		CA18DE					

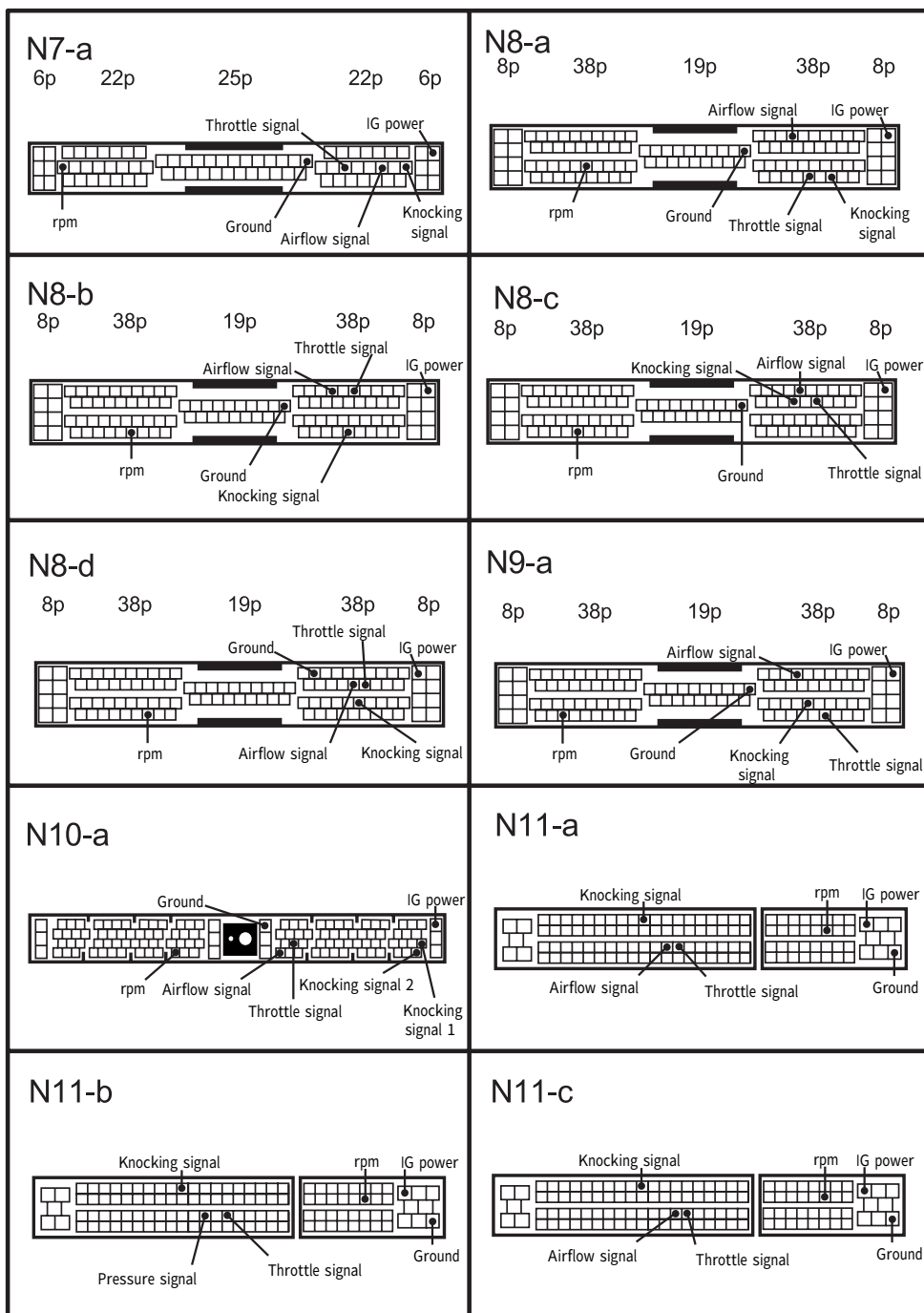
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
SILVIA	S15	SR20DET	'99.1~'02.7	A		N3-a	HW-5
	S14		'96.6~'98.12				
			'93.10~'96.5			N3-d	
	PS13	SR20DE	'93.10~'98.12			N3-a	HW-6
		SR20DET	'91.1~'93.9			N3-b	
		SR20DE				N3-a	
	S13	CA18DET	'88.5~'91.1			N3-d	HW-7
		CA18DE					
180SX	RPS13	SR20DET	'96.8~'99.1	A		N3-a	HW-6
		SR20DE					
		SR20DET			'91.1~'96.7		
	RS13	CA18DET	'89.3~'90.12			N3-d	HW-7
PULSER	N15	SR16VE	'97.9~'00.8	E	Except the N1 specification	N3-a	HW-6
		SR18DE	'95.1~'00.8				HW-14
	N14	SR20DET	'90.8~'94.12				HW-5
		SR18DE					HW-6
PRIMERA	P12	QR20DE	'02.5~※	D		N11-c	HW-18
			'01.1~'02.4			N8-d	
		SR20VE	'01.8~※				HW-14
	P11	SR20DE	'97.9~'01.1	E		N3-a	HW-6
			SR20DE		'95.9~'01.1		
		SR18DE					
	P10	SR20DE	'90.2~'95.8				
		SR18DE	'92.9~'95.8				
PRIMERA WAGON	W#P12	QR20DE	'02.5~※		D		
			'01.1~'02.4			N8-d	HW-21
		SR20VE	'01.8~※				
	W#P11	SR20DE	'97.9~'01.1	E		N3-a	HW-14
					SR20DE		
		SR18DE					

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
AVENIR	W11	SR20DET	'98.8~'00.4	D		N3-a	HW-5
		SR20DE					HW-6
	W10	SR20DET	'95.8~'98.7				HW-5
		SR20DE	'90.5~'98.7				HW-6
		SR18DE	'93.1~'98.7				
SUNNY	B14	SR18DE	'94.1~'98.9	E		N3-a	HW-6
	B13		'90.1~'93.12				
NX COUPE	B13	SR18DE	'90.1~'93.12	E		N3-a	HW-6
MARCH	K12	CR14DE	'02.3~※	L		N11-b	PR-11
		CR12DE			A/T		
		CR10DE					
	K11	CG13DE	'92.1~'02.2	E		N3-c	HW-9
		CG10DE					
CUBE	Z11	CR14DE	'02.10~※	L		N11-b	PR-11
	Z10	CG13DE	'98.2~'02.9	C		N3-c	HW-9
TERRANO	YD21	VG30E	'89.10~'95.8	F		N3-a	HW-6
X-TRAIL	T30	QR20DE	'00.11~※	B		N8-d	HW-18
		SR20VET	'01.2~※				HW-19
WINGROAD	Y11	QR20DE	'01.10~※	E		N8-d	HW-18
ELGRAND	E51	VQ35DE	'02.5~※	L		N11-a	HW-18
BASSARA	JHU30	VQ30DE	'01.8~※	E		N8-a	HW-18

■ ECU Terminal Arrangement Table (NISSAN)

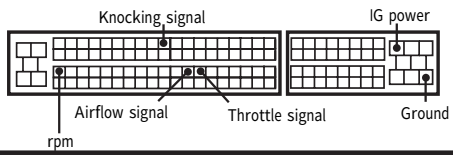
N1-a 15p 12p 20p 16p rpm IG power Ground Knocking signal Airflow signal ※Without throttle signal	N2-a 16p 12p 20p 16p Knocking signal 5 Knocking signal 4 rpm Knocking signal 1 Ground Knocking signal 6 Knocking signal 2 Knocking signal 3 Airflow signal IG power ※Without throttle signal ※Knocking signal 2 to 6: For FPY31 only
N3-a 16p 14p 16p 18p rpm Airflow signal Knocking signal Throttle signal IG power	N3-b 16p 14p 16p 18p rpm Airflow signal Knocking signal Throttle signal IG power
N3-c 16p 14p 16p 18p rpm Airflow signal Knocking signal (99/11~) Throttle signal IG power	N3-d 16p 20p 20p 20p rpm Knocking signal Airflow signal Throttle signal IG power Ground
N4-a 16p 20p 20p 20p rpm Knocking signal 1 Airflow signal Knocking signal 2 IG power Throttle signal Ground	N4-b 16p 20p 20p 20p Knocking signal 1 rpm Knocking signal 2 Airflow signal 1 Airflow signal 2 Throttle signal IG power Ground
N4-c 16p 20p 20p 20p rpm Knocking signal 2 Airflow signal Knocking signal 1 Throttle signal IG power Ground	N4-d 16p 20p 20p 20p rpm Airflow signal Knocking signal Throttle signal IG power Ground





S-AFCII

N11-d



■Table of Applicable Models (HONDA)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

PR—Pressure

FL—Flap

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
NSX	NA2	C32B	'97.2～※	N		H3-f	PR-6
	NA1	C30A	'95.3～※				
			'90.9～'95.2			H3-a	
LEGEND	KA9	C35A	'96.2～※	C		H3-a	
	KA8	C32A	'90.12～'96.1				
	KA7		'90.10～'96.1				
INSPIRE	UA5	J32A	'98.10～※	E		H7-b	
	UA4	J25A					
	UA2	G25A	C		H3-c		
	UA1	G20A					
	CC2	G25A		'92.1～'95.1		H3-d	
	CB5	G20A		'89.10～'91.12		H3-b	
PRELUDE	BB6	H22A	'96.12～'00.9	C		H6-a	
	BB8						
	BB1		'91.9～'96.11		With TRC	H3-e	
	BB4				Without TRC	H2-b	
ACCORD EURO R	CL1	H22A	'00.6～'02.11	E		H8-a	
ACCORD	CL3	F20B	'00.6～'02.9	E	A／T	H8-b	
					M／T	H8-a	
	CF3	F18B	'97.9～'00.6	C		H7-a	
	CF4	F20B			A／T	H8-b	
					M／T	H8-a	
	CD5	F22B				H2-a	
CD6	H22A	'93.9～'97.8			H2-b		

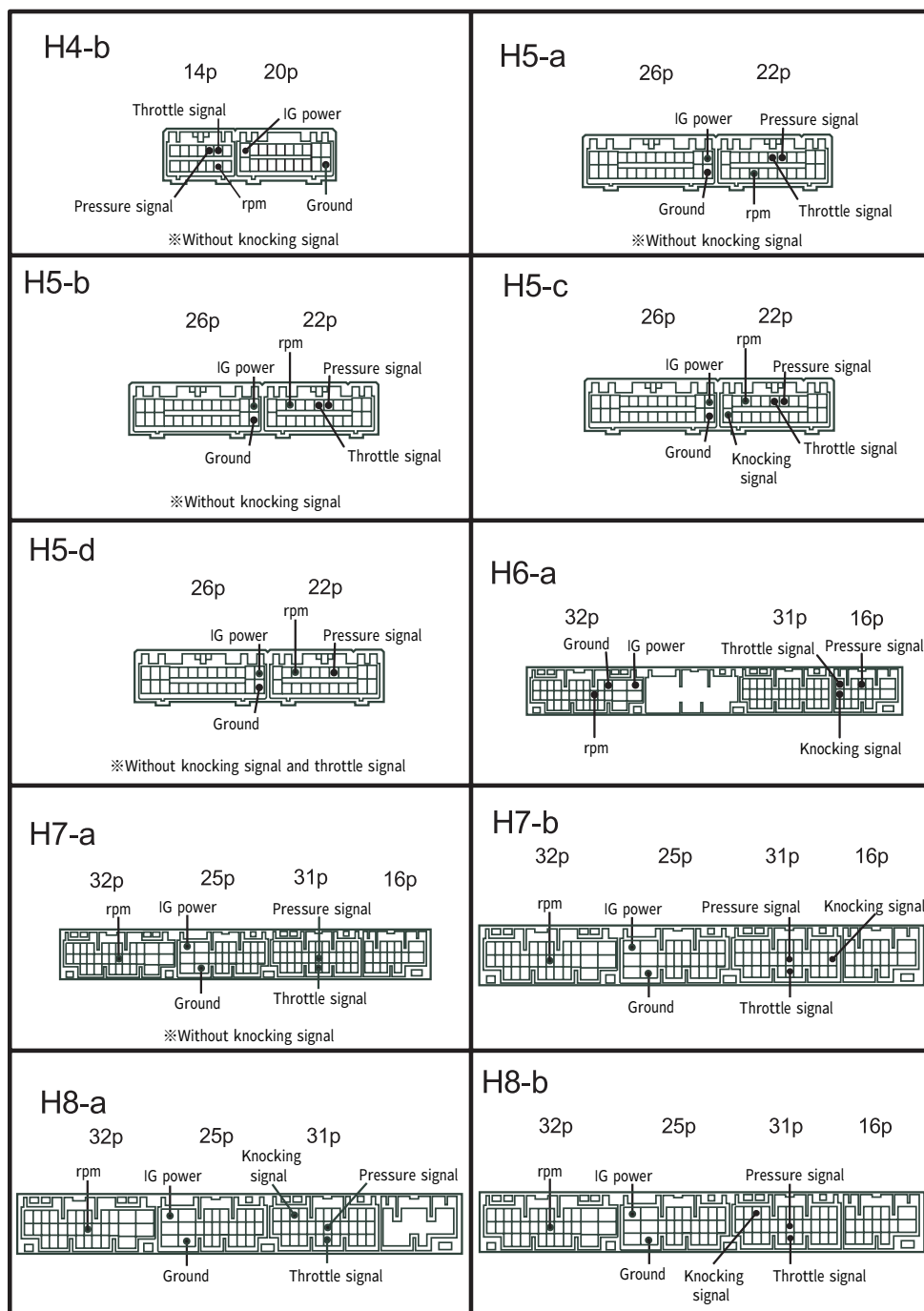
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
ACCORD WAGON	CH9	H23A	'99.1~'02.10	C	A／T	H8－b	PR－6
					M／T	H8－a	
	CL2		'00.6~'02.10		A／T	H8－b	
			M／T		H8－a		
	CF6	F23A	'97.10~'02.10			H7－a	
	CF7						
	CE1	F22B	'94.3~'97.9			H2－a	
	CB9	F22A	'91.3~'94.2				
TORNEO EURO R	CL1	H22A	'00.6~'02.11	E		H8－a	
TORNEO	CL3	F20B	'00.6~'02.9	E	A／T	H8－b	
					M／T	H8－a	
	CF3	F18B	'97.9~'00.6			H7－a	
	CF4	F20B			A／T	H8－b	
					M／T	H8－a	
S2000	AP1	F20C	'99.4~※	A		H8－a	
INTEGRA (including the 98 specification)	DC5	K20A	'01.7~※	D		H9－a	
	DC2 DB8	B18C	'95.9~'01.6	A	M／T	H6－a	
					A／T	H3－e	
			'93.5~'95.8		M／T	H2－b	
					A／T	H3－e	
	DA6	B16A	'89.4~'93.5			H1－a	
CIVIC	EP3	K20A	'01.12~※	D		H9－a	
	EU1	D15B	'00.9~※		Except the Lean Burn	H9－b	
	EU2						
	EU3	D17B					
	EU4						
	EK9	B16B		'00.8~'00.9	A		
			'98.9~'00.7			H8－b	
			'97.6~'98.8			H6－a	
	EK4	B16A	'98.9~'00.7			H7－a	
			'95.9~'98.8			H6－a	

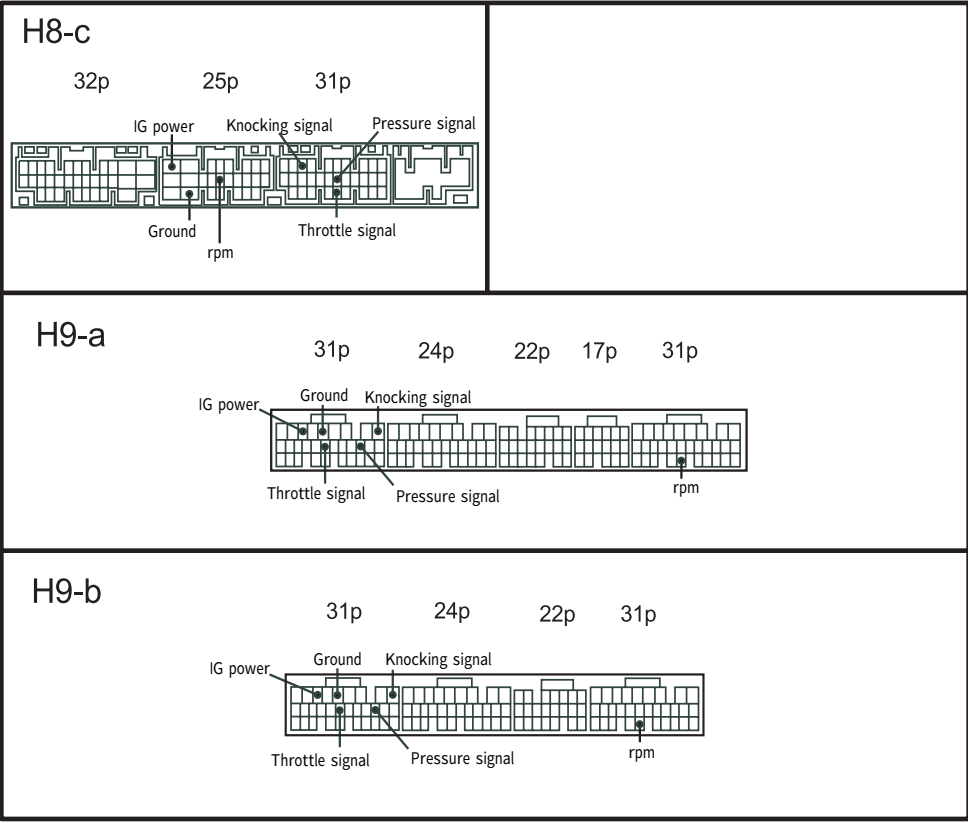
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
CIVIC	EK3	D15B	'98.9~'00.7	A		H7-a	PR-6
			'95.9~'98.8			H6-a	
	EG6	B16A	'91.9~'95.8			H2-b	
	EG4	D15B			Except the Carburetor	H2-a	
	EF9	B16A	'89.9~'91.8			H1-a	
CR-X	EG2	B16A	'92.3~'95.10	A		H2-b	
	EG1	D15B		B		H2-a	
	EF8	B16A	'89.9~'92.2	C		H1-a	
CR-V	RD4	K20A	'01.9~※	D		H9-a	
	RD5						
	RD2	B20B	'97.10~'01.8	A		H8-b	
	RD1					H3-b	
ODYSSEY	RA9 RA8	J30A	'00.8~※	E		H7-b	
			'00.1~※			H8-b	
	RA7	F23A	'99.12~※				
	RA6						
	RA5	J30A	'97.10~'99.12	C		H6-b	
	RA4	F23A				H8-b	
	RA3						
	RA2 RA1	F22B			'94.10~'97.9		
S-MX	RH2 RH1	B20B	'99.9~'02.1	E		H8-b	
			'96.11~'99.8			H3-b	
STEP WAGON	RF4	K20A	'01.4~※	C		H9-a	
	RF3						
	RF2	B20B	'99.5~'01.3			H8-b	
			'96.5~'99.4			H3-b	
	RF1		'99.5~'01.3			H8-b	
			'96.5~'99.4			H3-b	
Z	PA1	E07Z	'98.10~'02.1	N	T/C	H5-b	
					NA	H4-b	

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
LIFE	JB2	E07Z	'00.12～※	A		H5－c	PR－6
	JB1		'98.10～'00.11			H5－d	
	JA4	E07A	'97.4～'98.10	G		H4－a	
LIFE DUNK	JB4	E07Z	'00.12～※	A		H5－c	
	JB3						
CAPA	GA6 GA4	D15B	'99.10～'02.1	A		H5－a	
	GA4		'98.4～'99.9				
STREAM	RN4 RN3	K20A	'01.1～※	E		H9－a	
	RN2	D17A	'00.10～※				
	RN1						
FIT	GD4	L15A	'02.9～※	E		H9－b	
	GD3						
	GD2	L13A	'01.7～※				
	GD1		'01.6～※				
FIT ARIA	GD9	L15A	'02.12～※	E		H9－b	
	GD8						
	GD7	L13A					
	GD6						
THAT'S	JD2 JD1	E07Z	'02.2～※	D		H5－c	
MOBILIO	GB2 GB1	L15A	'01.12～※	B		H9－b	
MOBILIO SPIKE	GK2 GK1	L15A	'02.9～※	B		H9－b	

■ ECU Terminal Arrangement Table (HONDA)

H1-a 18p 20p 16p IG power Ground Knocking signal rpm Pressure signal Throttle signal ※SOHC E/g no knocking signal is available	H2-a 26p 16p 22p rpm IG power Ground Knocking signal Pressure signal Throttle signal ※Without knocking signal
H2-b 26p 16p 22p rpm IG power Ground Knocking signal Pressure signal Throttle signal	H3-a 26p 16p 12p 22p rpm IG power Ground Knocking signal 2 rpm Knocking signal 1 Pressure signal Throttle signal
H3-b 26p 16p 12p 22p rpm IG power Ground Knocking signal rpm Knocking signal 2 Pressure signal Throttle signal ※Without knocking signal	H3-c 26p 16p 12p 22p rpm IG power Ground Knocking signal 1 rpm Knocking signal 2 Pressure signal Throttle signal
H3-d 26p 16p 12p 22p rpm IG power Ground Knocking signal 1 rpm Knocking signal 2 Pressure signal Throttle signal	H3-e 26p 16p 12p 22p rpm IG power Ground Knocking signal rpm Knocking signal 2 Pressure signal Throttle signal
H3-f 26p 16p 12p 22p rpm IG power Ground Knocking signal 2 rpm Knocking signal 1 Pressure signal Throttle signal	H4-a 14p 20p Pressure signal IG power Ground Throttle signal rpm ※Without knocking signal





■Table of Applicable Models (MITSUBISHI)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

FL—Flap

PR—Pressure

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
DIAMANTE	F46A	6G72	'97.8~'02.9	E		M5-a	KR
			'96.1~'97.7		Without MIVEC	M6-a	
	'97.8~'02.9				M5-a		
	F36A		'96.1~'97.7		With MIVEC	M3-b	PR-5
					Without MIVEC	M6-a	KR
					With MIVEC	M3-b	PR-5
					DOHC	M6-a	KR
			F17A	'90.5~'94.12	A		
DIAMANTE WAGON	F36W	6G7	'97.10~'02.9	E		M6-b	KR
GTO	Z16A	6G72	'90.10~'00.7	E		M2-a	KR
FTO	DE3A	6A12	'97.2~'00.7	B	Without MIVE A/T	M6-a	KR
					Without MIVE M/T	M2-a	
			'94.10~'97.1		With MIVEC	M3-b	PR-5
			'96.2~'00.7			M3-a	KR
			'94.10~'96.1			M2-a	
	DE2A	4G93				M3-a	
	LEGNUM	EC5W	6A13		'96.8~※	E	DOHC T/C
GALANT	EC5A	6A13	'96.8~※	E	DOHC T/C	M3-a	KR
	E84A	6A12	'92.5~'96.7			M2-a	
	E39A	4G63	'87.10~'92.4	B	DOHC	M1-a	
ECLIPSE	D32A	4G63	'95.6~'99.12	E		M3-a	KR
	D27A		'89.11~'95.6			M1-a	
ASPIRE	EA7A	4G94	'00.5~※	E		M6-c	KR
	EC7A						
	EA1A	4G93	'98.8~'00.4			M3-a	
	EC1A						
LIBERO	CD5W	4G93	'92.5~'00.5	B		M2-a	KR

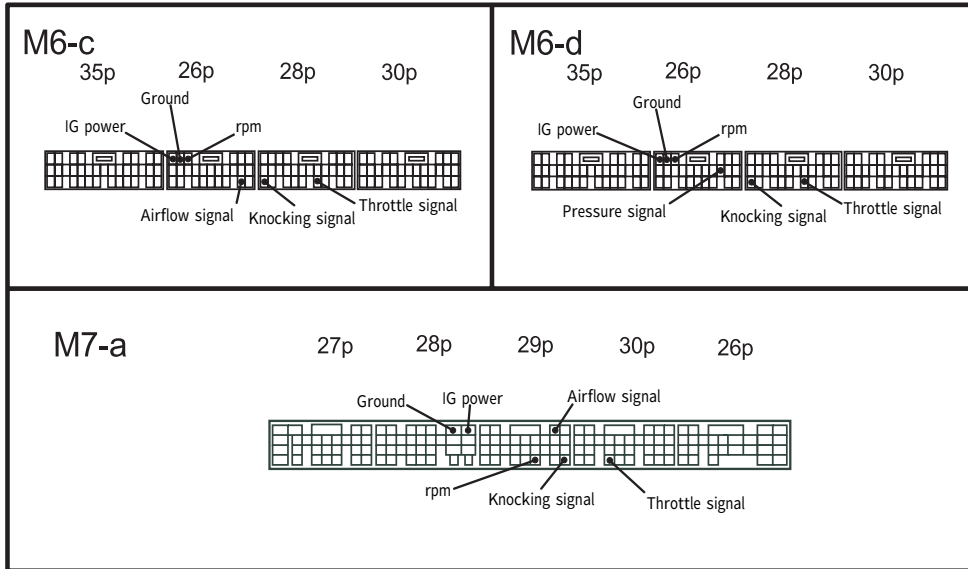
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
LANCER	CP9A	4G63	'98.1〜'01.1	B	V・VI・TM	M3-a	KR
	CN9A		'96.8〜'97.12				
	CE9A		'93.10〜'96.7			M2-a	
	CD9A		'92.10〜'93.9				
	CK4A	4G92	'95.10〜'00.5		MIVEC	M3-b	PR-5
	CM5A	4G93				M3-a	KR
	CD5A		'91.10〜'95.9			M2-a	
MIRAGE DINGO	CQ5A	4G93	'00.2〜'02.8	E		M6-c	KR
	CQ2A	4G15	'00.1〜'02.8				
			'98.12〜'99.12			M3-a	
	CQ1A	4G13	'00.1〜※			M6-d	PR-12
MIRAGE	CM5A	4G93	'95.10〜'00.5	B	T/C	M3-a	KR
	CJ4A	4G92			MIVEC	M3-b	PR-5
	CA4A					M2-a	
PAJERO	V75W	6G74	'00.7〜※	A		M6-e	KR
			'99.9〜※		A/T	M6-f	
	V65W		'00.7〜※			M6-e	
			'99.9〜※		A/T	M6-f	
	V25W		'93.7〜'97.5			M2-a	
	V23W	6G72	'91.1〜'97.5			M1-a	
RVR	N64WG	4G64	'99.10〜'02.8	C		M3-a	KR
	N74W		'97.10〜'02.8	B	M/T		
	N73W	4G63			A/T		
	N71W	4G93	'99.10〜'02.8	C		M6-c	
			'97.10〜'02.8	B		M3-a	
	N61W		'99.10〜'02.8	C		M6-c	
			'97.10〜'02.8	B		M3-a	
	N23W	4G63	'92.10〜'97.9			M2-a	
ek WAGON	H81W	3G83	'02.9〜※	B		M3-d	PR-12
			'01.10〜'02.8			M4-a	
ek SPORTS	H81W	3G83	'02.9〜※	B		M3-d	PR-12

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
AIRTREK	CU4W	4G64	'01.6～※	E		M7-a	KR
	CU2W	4G63	'02.6～※		T/C	M6-e	
			'01.6～※			M6-a	
CHARIOT GRANDIS	N86W N96W	6G72	'99.10～※	C		M6-c	
	N84W N94W	4G64	'00.5～※				
			'97.10～'00.4			M3-c	
PAJERO io	H76W	4G93	'00.7～※	D	T/C	M5-a	
	H67W H77W	4G94	'00.6～※				
	H62W H72W						
LANCER EVOLUTION VIII	CT9A	4G63	'03.1～※	D		M5-a	
LANCER EVOLUTION VII	CT9A	4G63	'01.2～'02.3	D		M3-a	
			'02.2～'02.12		A/T	M6-a	
LANCER CEDIA	CS5A	4G93	'00.5～※	D		M6-c	
LANCER CEDIA WAGON	CS5W	4G93	'00.11～※	D		M6-c	

■ ECU Terminal Arrangement Table (MITSUBISHI)

M1-a 10p 18p 24p rpm Knocking signal Airflow signal Ground IG power Throttle signal ※In E39A, a knocking signal is available for TURBO only ※In V23W, no knocking signal is available	M2-a 26p 16p 22p rpm Knocking signal IG power Ground Throttle signal Airflow signal/pressure signal ※In CD5W, a knocking signal is available for DOHC only
M3-a 26p 16p 12p 22p Knocking signal Airflow signal IG power Ground rpm Throttle signal ※DE2A, no knocking signal is available	M3-b 26p 16p 12p 22p Throttle signal Knocking signal IG power Ground rpm Pressure signal
M3-c 26p 16p 12p 22p Knocking signal Airflow signal IG power Ground rpm Throttle signal	M3-d 26p 16p 12p 22p Pressure signal Knocking signal IG power Ground rpm Throttle signal
M4-a 26p 22p Pressure signal IG power Throttle signal Ground rpm ※Without knocking signal	M5-a 35p 28p 30p rpm Ground IG power Airflow signal Knocking signal Throttle signal
M6-a 35p 26p 28p 30p IG power Ground rpm Throttle signal Airflow signal Knocking signal	M6-b 35p 26p 28p 30p IG power Ground Throttle signal rpm Airflow signal ※Without knocking signal

S-AFCII



■Table of Applicable Models (MAZDA)

Explanation of sensor type indication

Example PR - 3

Sensor type Sensor number

HW—HotWire

PR—Pressure

FL—Flap

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type	
EUNOS COSMO	JC3S	13B—REW	'94.3~'95.8	C B◎		Z3—a	FL—6	
	JC3SE		'90.3~'94.2					
	JCES	20B—REW	'94.3~'95.8					
	JCESE		'90.3~'94.2					
RX—7	FD3S	13B—REW	'00.10~'02.8	A		Z4—a	PR—4	
			'99.1~'00.9					
			'95.12~'98.12			Z3—b		
			'91.12~'95.11					
	FC3S	13B	'88.9~'91.11	C		Z2—a	FL—6	
			'85.9~'88.8			Z1—a	FL—5	
ROADSTER	NB8C	BP—VE(RS)	'00.7~※	C		Z8—a	HW—11	
		BP—ZE(RS)	'97.12~'00.6			Z2—b		
	NB6C	B6—ZE(RS)	'00.7~※			Z8—a		
			'97.12~'00.6			Z2—b		
	NA8C	BP—ZE	'95.8~'97.12			Z6—a		
			'93.8~'95.7			Z5—a		
	NA6CE	B6—ZE	'89.9~'93.7		M／T	Z5—c	FL—8	
					A／T	Z5—a		
FAMILIA	BJ5P	ZL—DE	'98.6~※	D	4WD M／T	Z3—c	HW—22	
					4WD A／T			
		ZL—VE	'98.6~'99.7		2WD	Z8—b		
					M／T	Z3—c		
	BJ3P	B3—ME	'98.6~'02.8		A／T			
					M／T			
					A／T			
	BG8Z	BP—ZET	'89.8~'94.3		E			Z5—b

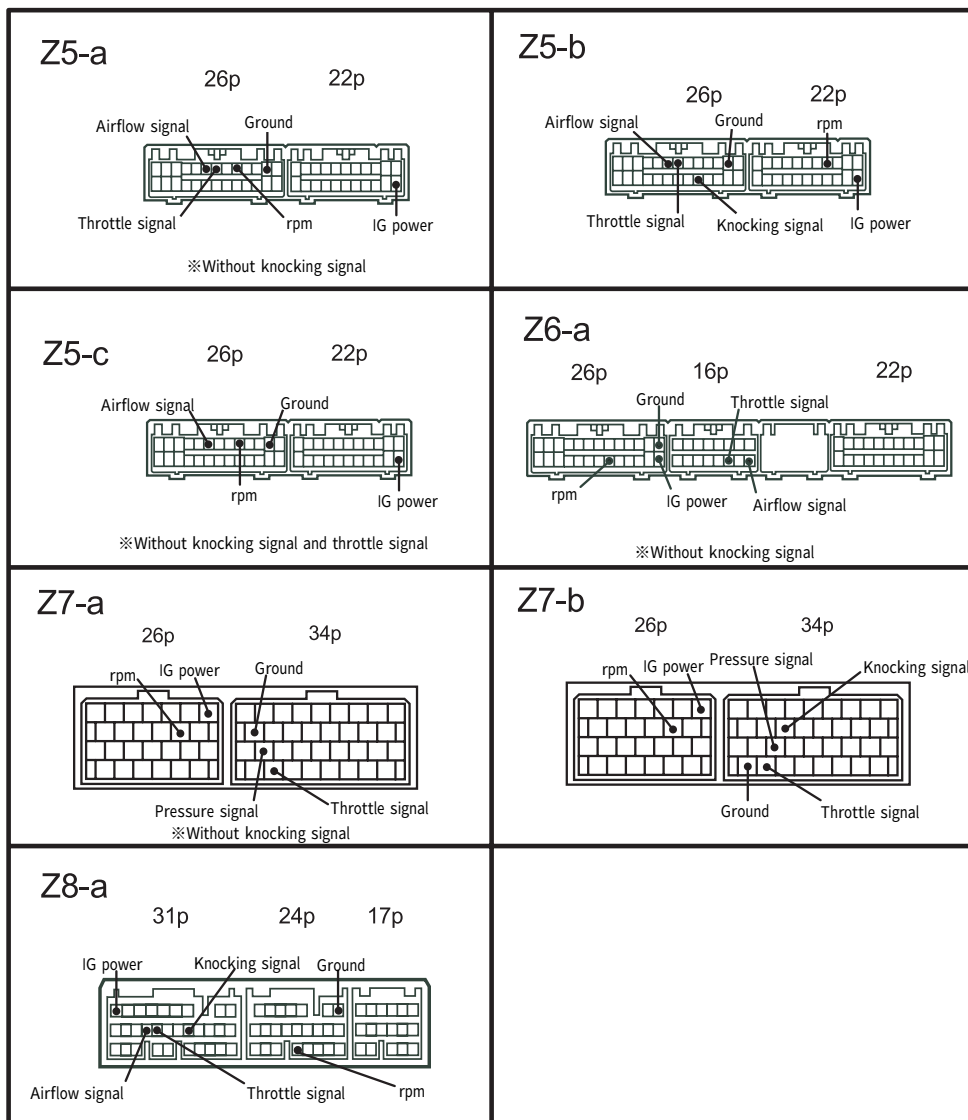
◎:EC-AT position

S-AFCII

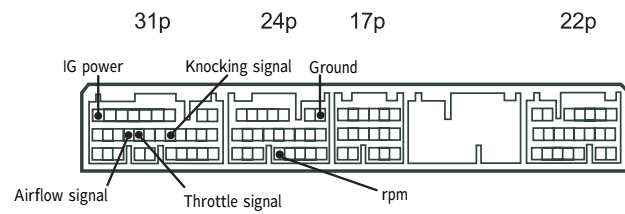
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
FAMILIA S WAGON	BJFW	FS-ZE	'99.8~※	D	4WD M/T	Z3-c	HW-11
					4WD A/T		
					2WD		
AZ-WAGON	MD12S	F6A T/C	'00.12~※	L		Z7-c	PR-8
	MD11S	F6A T/C	'98.10~'00.11			Z7-a	
DEMIO	DY5W	ZY-VE	'02.8~※	L		Z10-a	HW-22
	DY3W	ZJ-VE					
ATENZA SPORT	GGES	LF-DE	'02.5~※	C		Z9-a	HW-22
	GG3S	L3-VE					
			'02.11~※		M/T		
ATENZA SPORT WAGON	GYEW	LF-DE	'02.5~※	C		Z9-a	HW-22
	GY3W	L3-VE					
			'02.11~※		M/T		
ATENZA SEDAN	GGEP	LF-DE	'02.5~※	C		Z9-a	HW-22
	GG3P	L3-VE					

■ ECU Terminal Arrangement Table (MAZDA)

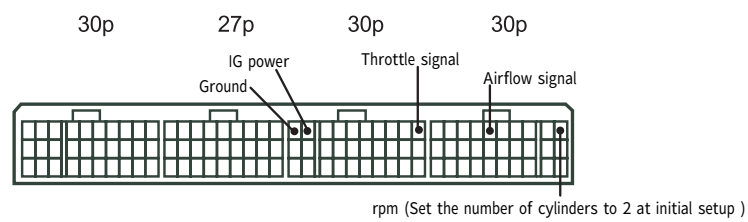
Z1-a 10p 18p 24p IG power Airflow signal Ground Throttle signal rpm Knocking signal	Z2-a 26p 16p 22p Ground Throttle signal rpm Knocking signal Airflow signal IG power
Z2-b 26p 16p 22p Throttle signal Ground rpm Airflow signal Knocking signal IG power	
Z3-a 26p 16p 12p 22p Ground Knocking signal 2 Knocking signal 1 Throttle signal Knocking signal 3 Airflow signal IG power ※Only the knocking signal 1 of 13B-REW ※The turn signal connects with EA-AT(Z3-AT)	Z3-AT 26p 16p rpm EC-AT
Z3-b 26p 16p 12p 22p Ground Throttle signal Pressure signal Knocking signal rpm IG power	Z3-c 26p 16p 12p 22p Throttle signal Ground rpm Knocking signal Airflow signal IG power
Z4-a 34p 22p 28p rpm Throttle signal Pressure signal IG power Knocking signal Ground	



Z8-b

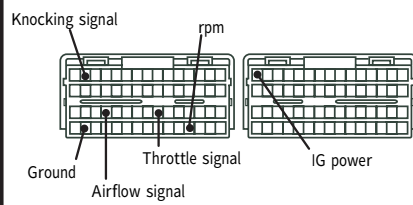


Z9-a



※In GG#P, GG#S, and GY#W, a knocking signal is not available

Z10-a



■Table of Applicable Models (SUBARU)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

FL—Flap

PR—Pressure

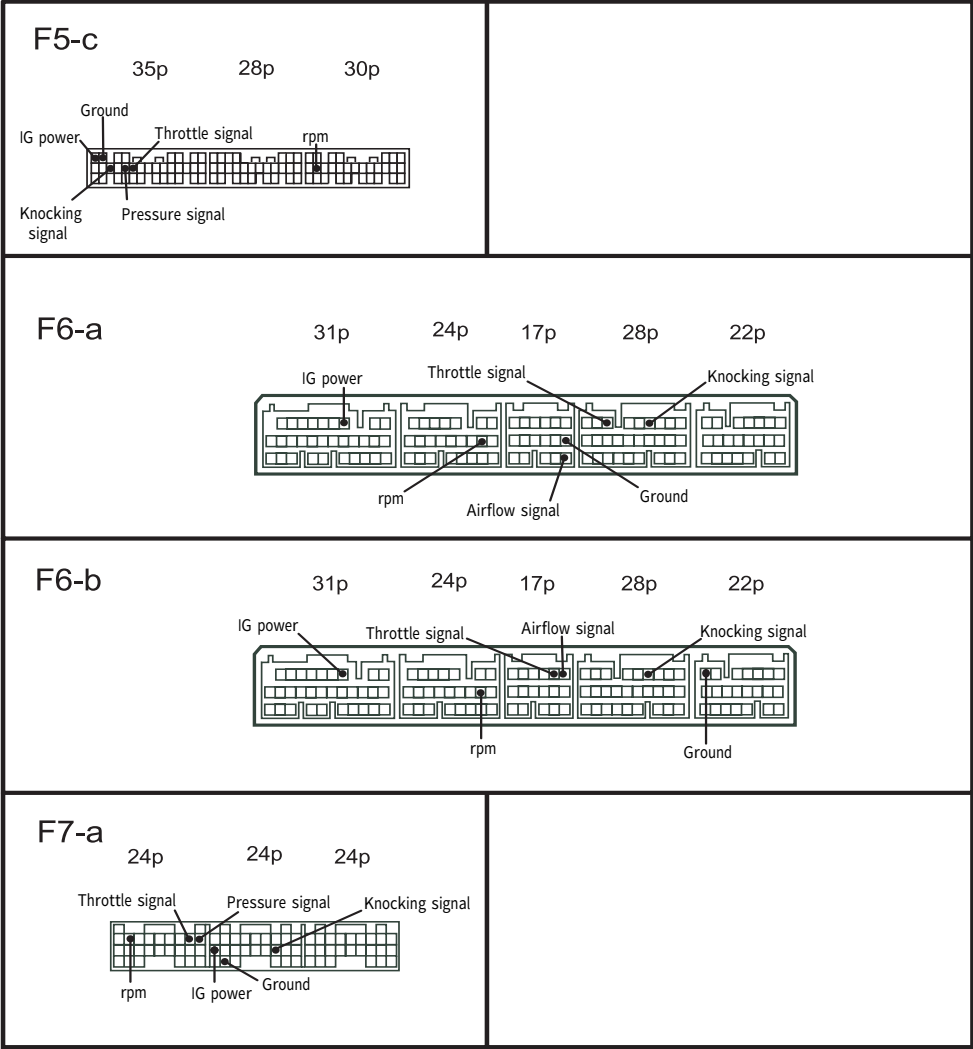
KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type	
LEGACY B4	BE9	EJ254	'01.5～※	C		F5－b	HW－16	
	BE5	EJ208				F6－a	HW－20	
		EJ206						
		EJ204			F5－b	HW－16		
		EJ208	'98.12～'01.4			F4－a	HW－20	
		EJ204					HW－16	
	LEGACY TOURING WAGON	BH5	EJ208		'01.5～※	C		F6－a
EJ206								
EJ204				F5－b			HW－16	
BH9		EJ254						
BHC								
BH5		EJ208	'98.6～'01.4		F4－a		HW－20	
		EJ204						HW－16
BH9		EJ254						
BHC								
LEGACY	BD5 BG5	EJ20R		'96.6～'98.5		C	M／T	F1－b
		EJ20H			HW－4			
		EJ20D						
		EJ20H	'93.10～'96.5				A／T	F3－a
		EJ20D						
		EJ20H						F2－a
		EJ20D		F1－a				
	BC5	EJ20G	'89.2～'93.9	H		F2－b	HW－10	
	BF5							
	BD9 BG9	EJ25D	'96.6～'98.5	C		F3－a	HW－4	
			'94.10～'96.9			F1－a		

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
IMPREZA	GDB GGB	EJ207	'00.10～※	C	Including Spec C	F6－a	HW－20
	GDA GGA	EJ205	'00.8～※				
	GD9 GG9	EJ204				F5－b	HW－16
	GG2 GG3	EJ152			M／T	F5－a	PR－8
	GC8 GF8	EJ207	'98.9～'00.7			F4－a	HW－1
		EJ205					
		EJ20K	'96.9～'98.8			F1－b	
		EJ20G	'96.9～'98.8				
			'93.10～'96.8			F2－b	HW－10
			'92.11～'96.8				
FORESTER	SG5	EJ205	'02.2～※	D	M／T	F6－a	HW－20
					A／T	F6－b	
	SF5		'98.9～'02.1	C		F4－a	HW－1
		EJ20G	'97.2～'98.8			F1－b	HW－4
PLEO	RA1 RA2	EN07E	'01.10～※	B	SOHC NA	F5－c	PR－14
		EN07Z			SOHC SC		
		EN07X			DOHC SC		
		EN07	'98.10～'01.9		SOHC SC M/T	F7－a	
					SOHC SC CVT		
					DOHC SC M/T	F2－c	
					DOHC SC CVT	F2－d	

■ ECU Terminal Arrangement Table (SUBARU)

F1-a 26p 16p 22p	F1-b 26p 16p 22p
F2-a 26p 16p 12p 22p	F2-b 26p 16p 12p 22p
F2-c 26p 16p 12p 22p	F2-d 26p 16p 12p 22p
F3-a 9p 9p 19p 18p 33p	F4-a 32p 32p 32p
F5-a 35p 26p 20p 28p	F5-b 35p 26p 20p 28p



■Table of Applicable Models (SUZUKI)

Explanation of sensor type indication

Example PR-3

Sensor type Sensor number

HW—HotWire

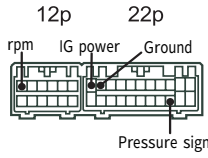
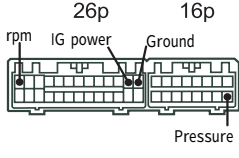
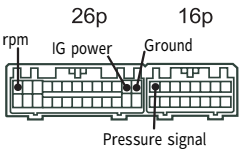
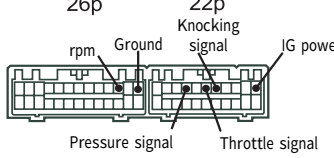
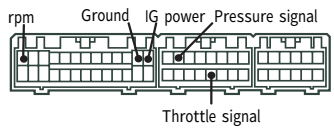
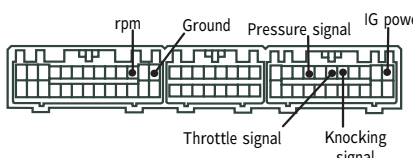
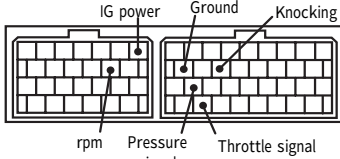
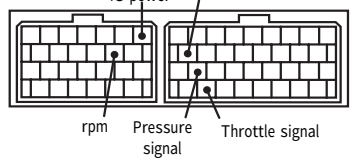
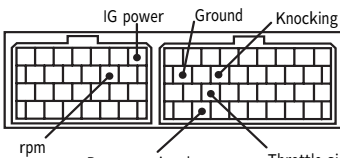
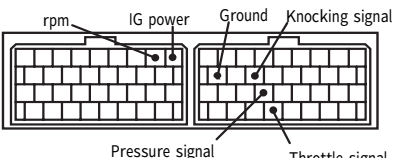
FL—Flap

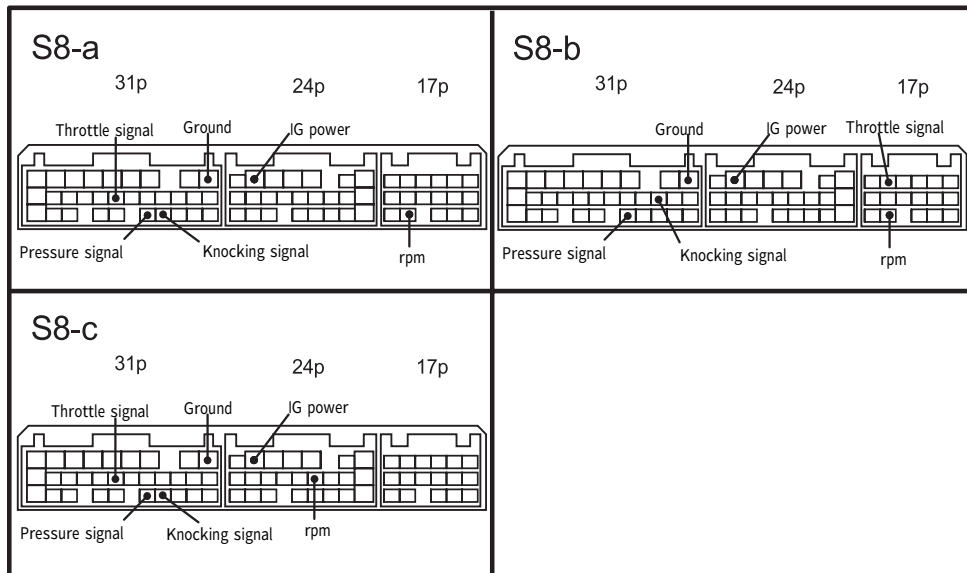
PR—Pressure

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
ALTO WORKS	HA12S	F6A T／C	'98.10～'00.12	L		S6－b	PR－8
	HA11S HB11S	F6A T／C	'94.11～'97.4	B	M／T	S2－a	
					A／T	S4－a	
CAPPUCCINO	EA11R	F6A T／C	'91.11～'95.10	B		S1－a	PR－8
WAGON R	MC12S	F6A T／C	'00.12～'01.4	L		S6－c	PR－8
	MC11S	F6A T／C	'98.10～'00.12			S6－a	
	CT51S CV51S	K6A T／C	'97.4～'98.9	B		S5－a	
	CT21S CV21S	F6A T／C	'95.11～'98.9		M／T	S2－a	
					A／T	S4－a	
			'93.9～'95.10		M／T	S1－a	
					A／T	S4－a	
WAGON R PLUS	MA63S	K10A T／C	'99.5～'00.12	B		S8－b	PR－8
WAGON R WIDE	MA61S	K10A T／C	'97.2～'99.5	B		S5－a	PR－8
	MB61S						
WAGON R SOLIO	MA34S	M13A	'00.12～※	B		S8－c	PR－13
	MA64S	K10A	'00.12～'02.10			S8－b	PR－8
LAPIN	HE21S	K6A	'02.1～※	L		S7－a	PR－13
Kei	HN12S	K6A	'01.4～※	L		S6－a	PR－13
	HN11S	F6A T／C	'98.10～'01.3			S6－b	PR－8
JIMNY	JA22W	K6A T／C	'95.11～'98.9	B	M／T	S3－a	PR－8
	JA12W	F6A T／C				S2－b	
CHEVROLET CRUISE	HR51S	M13A	'01.10～※	L		S8－a	PR－13

■ ECU Terminal Arrangement Table (SUZUKI)

S1-a  ※Without knocking signal and throttle signal	S2-a  ※Without knocking signal and throttle signal
S2-b  ※Without knocking signal and throttle signal	S3-a 
S4-a  ※Without knocking signal	S5-a 
S6-a 	S6-b  ※Without knocking signal
S6-c 	S7-a 



■Table of Applicable Models (DAIHATSU)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

PR—Pressure

FL—Flap

KR—Karman

Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
MIRA AVY	L250S L260S	EF—DET	‘02.12～※	D		D5— a	PR—8
MIRA	L700S L710S	EF—DET	‘98.10～‘02.11	D		D2— a	PR—8
MIRA TR-XX	L502S L512S	JB—JL	‘94.9～‘98.9	D		D1— a	PR—8
MOVE	L152S	JB—DET	‘02.10～※	D		D5— a	PR—15
	L150S	EF—DET					PR—8
	L160S						
	L900S				D3— a		
					D4— a		
	L902S	JB—DET	‘01.10～‘02.9			D3— a	PR—15
	L910S	EF—DET					PR—8
	L902S	JB—DET	‘98.10～‘01.9			D4— a	PR—15
	L910S	EF—DET					PR—8
	L602S	JB—JL	‘95.8～‘98.9			D1— a	
COPEN	L880K	JB—DET	‘02.6～※	D		D3— a	PR—15
MAX	L952S	JB—DET	‘01.10～※	D		D3— a	PR—15
	L960S	EF—DET					PR—8

■Table of Applicable Models (ISUZU)

Explanation of sensor type indication

Example PR—3

Sensor type Sensor number

HW—HotWire

PR—Pressure

FL—Flap

KR—Karman

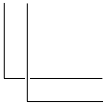
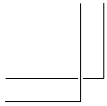
Car name	Car model	Engine model	Manufacturing year	ECU position	Remarks	Terminal drawing	Sensor type
BIGHORN	UBS25	6VD1	'91.12~'02.8	E		I1—a	PR—7

■ ECU Terminal Arrangement Table (DAIHATSU)

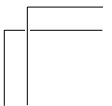
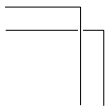
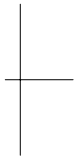
D1-a 26p 16p 12p ※Without throttle signal	D2-a 31p 24p 17p
D3-a 31p 24p 17p 22p	D4-a 31p 24p 17p
D5-a 34p 35p 31p 36p	

■ ECU Terminal Arrangement Table (ISUZU)

I1-a 32p 24p ※Without knocking signal



● Memo





Notes

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■ Revision Record

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