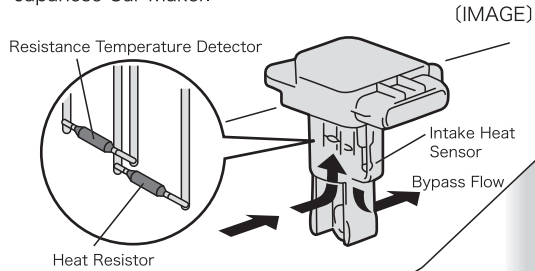


# What is an Air Flow Sensor?

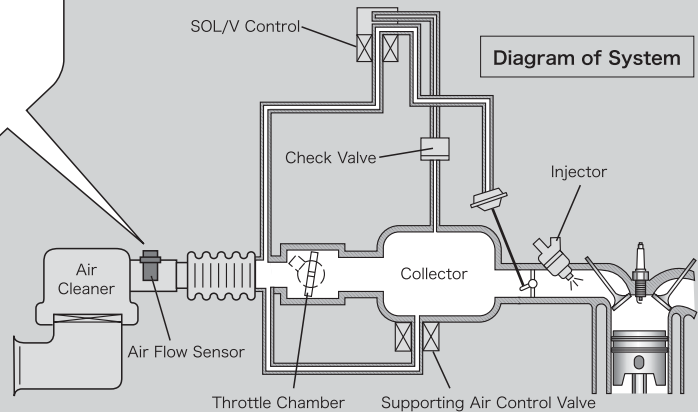
The Air Flow Sensor is installed to intake system of control system in engine control unit, and is used to measure the mass of air entering the engine.

There are many types of Air Flow Sensors such as Karman vortex sensor and Vane meter sensor, etc.  
A hot wire mass Air Flow Sensor determines the mass of air flowing into the engine's air intake system by heating a wire with an electric current that is transmitted to the engine's air stream.  
A hot wire mass Air Flow Sensor is lower air flow restriction than vane meter sensor and can measure wider range of mass air flow than vane meter sensor.  
Therefore, a hot wire mass Air Flow Sensor is widely used by Japanese Car Maker.



## (Intake System)

The mass of air flowing into the engine's air intake system flows into "Air Flow Sensor", which go through air cleaner. Air Flow Sensor measures the mass and the temperature of air, and the information of data is transmitted to the computer. And, the mass of air flowing through "Air Flow Sensor" flows into fuel chamber through throttle chamber.



## The Main Symptoms of Defect and The Methods of Inspection

The defective phenomena are found out by following symptoms.

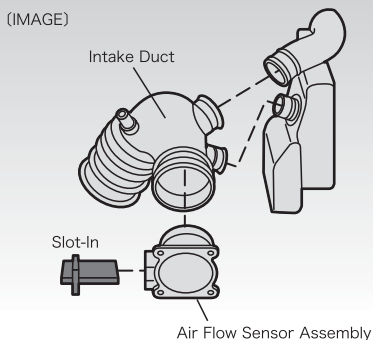
- The engine stalls or is likely to stall in reducing speed or stopping.
- The revolution of idling goes down.
- The engine stalls or is likely to stall when the engine is warmed up, or the engine is re-started.
- The revolution of engine goes down when stepping off the accelerator passing on the curved road.

When checking the Air Flow Sensor, check the change of the output voltage of Air Flow Sensor moving within the regulated area, in accordance with the change of revolution of engine with Diagnostic Monitor.

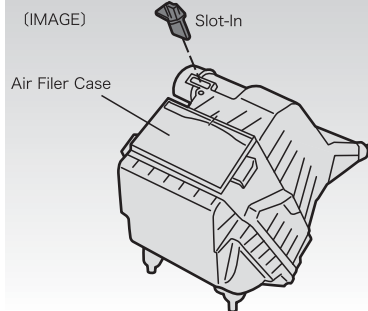
Please refer to service manual published by car maker when inspecting Air Flow Sensor, as each car maker has his own method of inspection for Air Flow Sensor.

## Installation Types of Air Flow Sensor

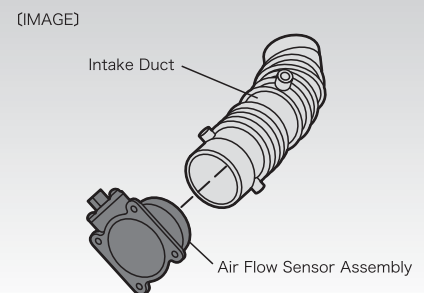
- 1** Insert into Air Flow Sensor Assembly.  
"Air Flow Sensor·Slot-In" Type



- 2** Directly insert into air filter case or intake pipe.  
"Air Flow Sensor·Slot-In" Type



- 3** Only air flow sensor cannot be changed.  
"Air Flow Sensor·Assembly" Type



# The Guide of Engine Management System General Catalog

The purpose of Catalog 2010 is to furnish our customers with complete listings of parts requirements.

This Catalog is compiled with parts of engine management system according to product and car model based on the information by May 2010.

Please note that any change may occur without notice and we do not take any responsibility for possible errors in listings, applications and compatibilities.

## How to use this Catalog

### The order of displacement of Catalog

Car's name is lined in car maker, alphabetical order

### Sample of Applicable Car List

#### [ Air Flow Sensor ]

CAR Series	ENG. MODEL	cc DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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#### CUBE Z11 Series

YZ11	HR15DE	1500	2WD	05.05 ~ 08.01	U08001-AFS	CVT	22680-7S000
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#### [ Electronic Control Throttle Chamber ]

CAR MODEL	ENG. MODEL	cc DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.	GASKET REFERENCE No.	GAS KET Q'TY
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#### FORWARD

FRD35	6HL1-S	7200	4X2	04.04 ~	U09006-ETB	Short Cab/Long Chassis	897602-2051	909566-3900	2
				05.07 ~	U09006-ETB	Short Cab/ex.(Short Cab)-Long Chassis/G>0512-0610	897602-2051	898004-3230	2
						Short Cab/ex.(Short Cab)-Long Chassis/G>0611-	897602-2051	898047-5980	2
						Short Cab/ex.(Short Cab)-Long Chassis/G1>0507-0511	897602-2051	909566-3900	2

After Electronic Control Throttle Chamber and connector are exchanged, it is necessary to set up ECU.

Also, it is necessary to use the tool recommended by Car makers in some case.

#### [ Fuel Pump ]

CAR MODEL	ENG. MODEL	cc DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.	REFERENCE No. (RECOMMENDED REPLACEMENT PARTS)		
								O RING (large) 17342	PACKING 17044	O RING (small) 17049

#### STAGEA M35 Model

PM35	VQ35DE	3500	2WD	04.08 ~ 07.07	XFP-38035		17042-5Y700	17342-01A00	17044-4M405	17049-4M400
PNM35	VQ35DE	3500	4WD	04.08 ~ 07.07	XFP-38035		17042-5Y700	17342-01A00	17044-4M405	17049-4M400

#### [ Ignition Coil ]

CAR MODEL	ENG. MODEL	cc DISP'T	WD	YEAR	HITACHI APS PARTS No.	CLY Q'TY	CAR MODEL DESCRIPTION	REFERENCE No.
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#### BLUEBIRD U14 Series

QU14	QG18DE	1800	2WD	98.09 ~ 01.08	U08001-COIL	4		22448-4M500
	QG18DD	1800	2WD	98.09 ~ 01.08	U08002-COIL	4		22448-6J901

## Sign and Explanation of Abbreviation

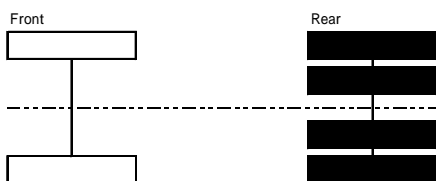
### Sign

/	division	ex.(***)	Except(***)	G>	Year of Gasket
** , **	** of **	w/ ***	with ***		Discontinued stock sales only
** , **	** and **	w/o ***	without ***		

### Abbreviation

AT	Automatic Transmission	SHORT	Short Wheel Base
CVT	Continuously Variable Transmission	LONG	Long Wheel Base
MCVT	Continuously Variable Transmission with Manual	ACT	Active Suspension
MT	Manual Transmission	IRS	IRS Suspension
F4	Floor Shift 4 Speed	ABS	spec.ABS
F5	Floor Shift 5 Speed	TRC	Traction Control System
R4	Column Shift 4 Speed	VDC	Vehicle Dynamic Control System
R5	Column Shift 5 Speed	2WD	2 Wheel Drive
HB	Hatchback	4WD	4 Wheel Drive
VAN	Van	4 x 2	Front 1 Shaft· Rear 1 Shaft / 1 Shaft Drive
WG	Wagon	4 x 4	Front 1 Shaft· Rear 1 Shaft / 2 Shaft Drive
GDI	Mitsubishi Gasoline Direct Injection	6 x 2	Front 1 Shaft· Rear 2 Shaft / 1 Shaft Drive
EPI	Suzuki Car Electronic Petrol Injection		Front 2 Shaft· Rear 1 Shaft / 1 Shaft Drive
TURBO	with Turbo	6 x 4	Front 1 Shaft· Rear 2 Shaft / 2 Shaft Drive
HICAS	with Hicas	6 x 6	Front 1 Shaft· Rear 2 Shaft / 6 Shaft Drive
CNG	Compressed Natural Gas Car	8 x 4	Front 2 Shaft· Rear 2 Shaft / 2 Shaft Drive
LPG	Liquid Petroleum Gas Car		

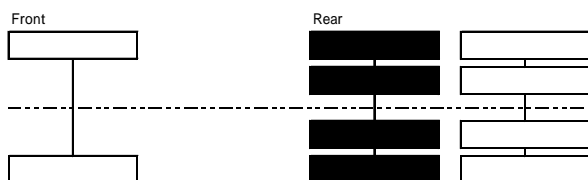
4 x 2 (Front 1 Shaft · Rear 1 Shaft / 1 Shaft Drive)



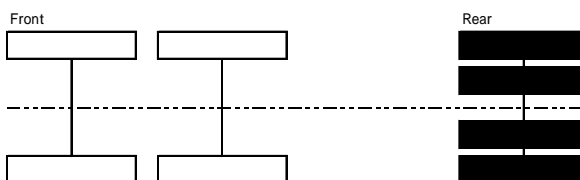
4 x 4 (Front 1 Shaft · Rear 1 Shaft / 2 Shaft Drive)



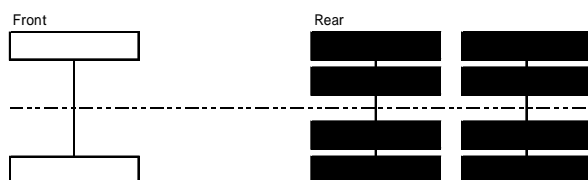
6 x 2 (Front 1 Shaft · Rear 2 Shaft / 1 Shaft Drive)



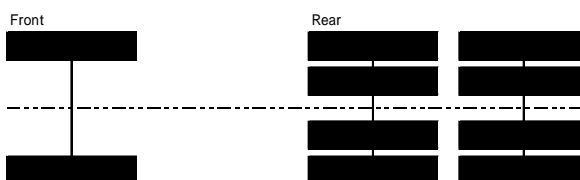
6 x 2 (Front 2 Shaft · Rear 1 Shaft / 1 Shaft Drive)



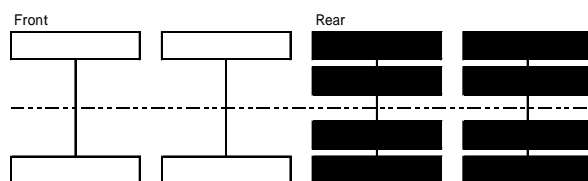
6 x 4 (Front 1 Shaft · Rear 2 Shaft / 2 Shaft Drive)



6 x 6 (Front 1 Shaft · Rear 2 Shaft / 6 Shaft Drive)



8 x 4 (Front 2 Shaft · Rear 2 Shaft / 2 Shaft Drive)



□ Tire ■ Drive Wheel

The total weight of truck is spread into each drive shafts, to support the vehicle.

Each drive shafts have weight limit.

The structure of drive shafts is displayed on this page.

The total number of wheel x the number of drive wheel.

Above black color drive shafts stand for the number of drive wheel.

Please use this Catalog when you exchange spare parts of Engine Management System.

When you use this Catalog, please note the following points and place your order after confirming your requested spare parts in accordance with your requested parts number and car application.

In case you are not able to find your requested spare parts, please do not hesitate to contact your agents.

This Catalog is compiled with parts of Engine Management System based on the information by May 2010. Please note that any change may occur without notice.

Please note that each cylinder may be applied to different Ignition Coils.

Please note that listings, applications and compatibilities described in this Catalog may differ from actual one.

## Please read following points before replacing parts.



### Safety Warning

\*When replacing parts, please ask for qualified engineer to replace parts according to the proper instruction manuals.

Inappropriate operation may cause of an accident or fire.

\*Do not install parts to inapplicable vehicle, it may cause of an accident or fire.

\*Do not use parts for the proper and original purpose of use.

It may cause of an accident or fire, if you do not use parts for the proper and original purpose.

\*When you start your work, please work in a place well ventilated and a fire extinguisher nearby, If you work in a place where inflammable things are put nearby, it may cause of fire.

\*After installing parts, please check that fuel does not leak in starting engine.

If fuel leaks, it may cause of an accident or fire.

# NISSAN

CAR MODEL	ENG. MODEL	CC DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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## NISSAN

### 1 8 0 SX RS13 Series

RPS13	SR20DE	2000	2WD	96.08 ~ 98.12	U08003-AFS		22680-52F01
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### AD / AD EXPERT VY12 Series

VY12	HR15DE	1500	2WD	06.12 ~	U08001-AFS		22680-7S000
VJY12	MR18DE	1800	2WD	06.12 ~	U08001-AFS		22680-7S000

### AD VAN / WINGROAD Y11 Series

VY11	QG13DE	1300	2WD	03.10 ~ 08.10	U08001-AFS	AT/MT	22680-7S000
VFY11	QG15DE	1500	2WD	03.10 ~ 08.10	U08001-AFS	AT/MT	22680-7S000
WFY11	QG15DE	1500	2WD	03.10 ~ 08.10	U08001-AFS	AT/MT	22680-7S000
WRY11	QR20DE	2000	2WD	03.10 ~ 05.12	U08008-AFS	CVT	22680-CA000
				04.05 ~ 05.12	U08001-AFS	CVT	22680-7S000
WPY11	SR20VE	2000	2WD	99.05 ~ 01.10	U08006-AFS	CVT	22680-5J000

### AVENIR W10 Series

W10	SR18DE	1800	2WD	93.01 ~ 94.11	U08004-AFS		22680-53J00
				94.11 ~ 98.08	U08005-AFS		22680-53J01
PW10	SR20DE	2000	2WD	90.05 ~ 94.11	U08004-AFS		22680-53J00
				94.11 ~ 98.08	U08005-AFS		22680-53J01
PNW10	SR20DE	2000	4WD	90.05 ~ 94.11	U08004-AFS	AT	22680-53J00
				94.11 ~ 98.08	U08005-AFS	AT	22680-53J01

### AVENIR W11 Series

SW11	CD20ET	2000	2WD	98.08 ~ 00.05	U08002-AFS	AT	22680-2J200
PW11	SR20DE	2000	2WD	98.08 ~ 00.05	U08002-AFS	CVT	22680-2J200
PNW11	SR20DE	2000	4WD	98.08 ~ 00.05	U08002-AFS	AT	22680-2J200
RW11	QR20DE	2000	2WD	04.06 ~ 05.09	U08008-AFS	CVT	22680-CA000
RNW11	QR20DE	2000	4WD	04.06 ~ 05.09	U08008-AFS	AT	22680-CA000

### BLUEBIRD U12 Series

HU12	SR20DE	2000	2WD	89.10 ~ 91.08	U08004-AFS		22680-53J00
HNU12	SR20DE	2000	4WD	89.10 ~ 91.08	U08004-AFS		22680-53J00

### BLUEBIRD U13 Series

EU13	SR18DE	1800	2WD	93.08 ~ 95.01	U08004-AFS		22680-53J00
				95.01 ~ 95.11	U08005-AFS		22680-53J01
TEU13	SR18DE	1800	2WD	93.08 ~ 95.01	U08004-AFS	Car for driving school	22680-53J00
				95.01 ~ 95.11	U08005-AFS	Car for driving school	22680-53J01
ENU13	SR18DE	1800	4WD	93.08 ~ 95.01	U08004-AFS		22680-53J00
				95.01 ~ 95.11	U08005-AFS		22680-53J01
HU13	SR20DE	2000	2WD	91.09 ~ 95.01	U08004-AFS		22680-53J00
				95.01 ~ 95.11	U08005-AFS		22680-53J01
HNU13	SR20DE	2000	4WD	91.09 ~ 95.01	U08004-AFS		22680-53J00
				95.01 ~ 95.11	U08005-AFS		22680-53J01

### BLUEBIRD U14 Series

EU14	SR18DE	1800	2WD	96.01 ~ 98.09	U08002-AFS	AT/MT	22680-2J200
ENU14	SR18DE	1800	4WD	96.01 ~ 01.08	U08002-AFS	AT/MT	22680-2J200
HU14	SR20DE	2000	2WD	96.01 ~ 01.08	U08002-AFS		22680-2J200
				97.09 ~ 01.08	U08006-AFS	CVT	22680-5J000
HNU14	SR20DE	2000	4WD	96.01 ~ 01.08	U08002-AFS	AT/MT	22680-2J200

### BLUEBIRD SYLPHY G10 Series

FG10	QG15DE	1500	2WD	03.10 ~ 05.12	U08001-AFS	AT/MT	22680-7S000
QNG10	QG18DE	1800	4WD	03.10 ~ 05.12	U08001-AFS	AT	22680-7S000

### BLUEBIRD SYLPHY G11 Series

G11	HR15DE	1500	2WD	05.12 ~	U08001-AFS	AT	22680-7S000
NG11	HR15DE	1500	4WD	05.12 ~	U08001-AFS	AT	22680-7S000
KG11	MR20DE	2000	2WD	05.12 ~	U08001-AFS	CVT	22680-7S000

**NISSAN**

CAR MODEL	ENG. MODEL	CC DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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**CARAVAN E25 Series**

VPE25	KA20DE	2000	2WD	01.04 ~ 03.05	U08006-AFS	ex.(spec.E-LEV)	22680-5J000
VRE25	QR20DE	2000	2WD	07.09 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
CQGE25	KA24DE	2400	2WD	01.04 ~ 03.05	U08006-AFS	ex.(spec.E-LEV)/Super Long Body/AT	22680-5J000
DQGE25	KA24DE	2400	2WD	01.04 ~ 03.05	U08006-AFS	ex.(spec.E-LEV)/Minibus/Super Long Body/AT	22680-5J000
CSGE25	QR25DE	2500	2WD	07.09 ~	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
DSGE25	QR25DE	2500	2WD	07.09 ~	U08008-AFS	Minibus/AT	22680-CA000
					U08001-AFS	Minibus/AT	22680-7S000
CWGE25	ZD30DDTi	3000	2WD	04.08 ~	U08008-AFS		22680-CA000
				07.09 ~	U08001-AFS		22680-7S000
CWMGE25	ZD30DDTi	3000	4WD	04.08 ~	U08008-AFS	AT	22680-CA000
				07.09 ~	U08001-AFS	AT	22680-7S000
DWGE25	ZD30DDTi	3000	2WD	04.08 ~	U08008-AFS		22680-CA000
				07.09 ~	U08001-AFS		22680-7S000
DWMGE25	ZD30DDTi	3000	4WD	04.08 ~	U08008-AFS	AT	22680-CA000
				07.09 ~	U08001-AFS	AT	22680-7S000
VVE25	ZD30DDTi	3000	2WD	04.08 ~	U08008-AFS		22680-CA000
				07.09 ~	U08001-AFS		22680-7S000
VWME25	ZD30DDTi	3000	4WD	04.08 ~	U08008-AFS	AT	22680-CA000
				07.09 ~	U08001-AFS	AT	22680-7S000

**CARAVAN / HOMY E24 Series**

CPGE24	KA20DE	2000	2WD	99.06 ~ 01.04	U08006-AFS	VAN/MT/Grade:DX	22680-5J000
VPE24	KA20DE	2000	2WD	99.06 ~ 01.04	U08006-AFS	VAN	22680-5J000
VPGE24	KA20DE	2000	2WD	99.06 ~ 01.04	U08006-AFS	VAN	22680-5J000
CQGE24	KA24DE	2400	2WD	99.06 ~ 01.04	U08006-AFS	VAN/AT	22680-5J000
ARE24	TD27ETi	2700	2WD	95.08 ~ 99.06	U08002-AFS	Coach/AT	22680-2J200
ARME24	TD27ETi	2700	4WD	95.08 ~ 99.06	U08002-AFS	Coach/AT	22680-2J200

**CEDRIC / GLORIA (car of business) Y31 Series**

QJY31	NA20P	2000	2WD	98.06 ~ 02.06	U08002-AFS		22680-2J200
BJY31	VG20P	2000	2WD	04.01 ~	U08006-AFS	AT	22680-5J000
CBJY31	VG20P	2000	2WD	04.01 ~	U08006-AFS	AT	22680-5J000

**CIMA F50 Series**

GF50	VK45DE	4500	2WD	03.08 ~	U08001-AFS		22680-7S000
GNF50	VK45DE	4500	4WD	03.11 ~	U08001-AFS		22680-7S000

**CIVILIAN W41 Series**

DCW41	TB45E	4500	2WD	04.09 ~	U08006-AFS		22680-5J000
DHW41	TB45E	4500	2WD	04.09 ~	U08006-AFS		22680-5J000
DJW41	TB45E	4500	2WD	04.09 ~	U08006-AFS		22680-5J000
DVW41	TB45E	4500	2WD	04.09 ~	U08006-AFS		22680-5J000

**CREW (car of business) K30 Series**

QK30	NA20P	2000	2WD	98.06 ~ 02.06	U08002-AFS		22680-2J200
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**CUBE Z11 Series**

YZ11	HR15DE	1500	2WD	05.05 ~ 08.01	U08001-AFS	CVT	22680-7S000
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**CUBE3 GZ11 Series**

YGZ11	HR15DE	1500	2WD	05.05 ~ 08.01	U08001-AFS	CVT	22680-7S000
YGNZ11	HR15DE	1500	4WD	05.05 ~ 08.01	U08001-AFS	AT	22680-7S000

**ELGRAND E50 Series**

AVE50	QD32ETi	3200	2WD	97.05 ~ 99.08	U08002-AFS		22680-2J200
AVWE50	QD32ETi	3200	4WD	97.05 ~ 99.08	U08002-AFS		22680-2J200
ALE50	VG33E	3300	2WD	97.05 ~ 00.08	U08002-AFS		22680-2J200
ALWE50	VG33E	3300	4WD	97.05 ~ 00.08	U08002-AFS		22680-2J200

# NISSAN

CAR MODEL	ENG. MODEL	CC DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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## ELGRAND E51 Series

ME51	VQ25DE	2500	2WD	04.12 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
MNE51	VQ25DE	2500	4WD	04.12 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
E51	VQ35DE	3500	2WD	03.08 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
NE51	VQ35DE	3500	4WD	03.08 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000

## EXPERT VW11 Series

VW11	QG18DE	1800	2WD	04.05 ~	U08001-AFS	AT	22680-7S000
VNW11	QG18DE	1800	4WD	04.05 ~	U08001-AFS	AT	22680-7S000

## FAIRLADY Z Z33 Series

Z33	VQ35DE	3500	2WD	02.07 ~ 07.01	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
	VQ35HR	3500	2WD	07.01 ~ 08.12	U08001-AFS		22680-7S000
HZ33	VQ35DE	3500	2WD	03.10 ~ 07.01	U08008-AFS	Road Ster	22680-CA000
					U08001-AFS	Road Ster	22680-7S000
	VQ35HR	3500	2WD	07.01 ~ 08.12	U08001-AFS	Road Ster	22680-7S000

## FUGA Y50 Series

Y50	VQ25DE	2500	2WD	04.10 ~ 07.12	U08001-AFS		22680-7S000
	VQ25HR	2500	2WD	07.12 ~ 09.11	U08001-AFS		22680-7S000
PY50	VQ35DE	3500	2WD	04.12 ~ 09.11	U08001-AFS		22680-7S000
					U08001-AFS	HICAS	22680-7S000
PNY50	VQ35DE	3500	4WD	04.12 ~ 07.12	U08001-AFS		22680-7S000
	VQ35HR	3500	4WD	07.12 ~ 09.11	U08001-AFS		22680-7S000
GY50	VK45DE	4500	2WD	05.08 ~ 09.11	U08001-AFS		22680-7S000
					U08001-AFS	HICAS	22680-7S000

## LAFESTA B30 Series

B30	MR20DE	2000	2WD	04.12 ~	U08001-AFS		22680-7S000
NB30	MR20DE	2000	4WD	04.12 ~	U08001-AFS		22680-7S000

## LARGO W30 Series

VW30	CD20Ti	2000	2WD	95.08 ~ 99.06	U08002-AFS		22680-2J200
VNW30	CD20Ti	2000	4WD	95.08 ~ 99.06	U08002-AFS		22680-2J200

## MARCH K12 Series

YK12	HR15DE	1500	2WD	05.08 ~	U08001-AFS	CVT	22680-7S000
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## MICRA C+C CK12E Series

FHZK12	HR16DE	1600	2WD	07.04 ~	U08001-AFS	MT	22680-7S000
	HR16DE	1600	2WD	07.04 ~	U08001-AFS	AT	22680-7S000

## MISTRAL R20 Series

KR20	TD27ETi	2700	4WD	96.10 ~ 97.05	U08002-AFS		22680-2J200
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## MURANO Z50 Series

TZ50	QR25DE	2500	2WD	04.09 ~ 08.09	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
PZ50	VQ35DE	3500	2WD	04.09 ~ 08.09	U08008-AFS	CVT	22680-CA000
					U08001-AFS	CVT	22680-7S000
PNZ50	VQ35DE	3500	4WD	04.09 ~ 08.09	U08008-AFS	CVT	22680-CA000
					U08001-AFS	CVT	22680-7S000

## NOTE E11 Series

E11	HR15DE	1500	2WD	05.01 ~	U08001-AFS	CVT	22680-7S000
NE11	HR15DE	1500	4WD	05.01 ~	U08001-AFS	AT	22680-7S000

## PRAIRIE M11 Series

PM11	SR20DE	2000	2WD	95.08 ~ 98.11	U08005-AFS	AT	22680-53J01
PNM11	SR20DE	2000	4WD	95.08 ~ 98.11	U08005-AFS	AT	22680-53J01

# NISSAN

CAR MODEL	ENG. MODEL	CC DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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## PRAIRIE LIBERTY M12 Series

PM12	SR20DE	2000	2WD	98.11 ~ 00.05	U08002-AFS	CVT	22680-2J200
				00.05 ~ 01.05	U08006-AFS	CVT	22680-5J000
PNM12	SR20DE	2000	4WD	98.11 ~ 00.05	U08002-AFS	AT	22680-2J200
				00.05 ~ 01.05	U08006-AFS	AT	22680-5J000

## PRESAGE U31 Series

TU31	QR25DE	2500	2WD	03.06 ~ 09.09	U08008-AFS	AT	22680-CA000
				03.06 ~ 09.09	U08001-AFS	AT	22680-7S000
TNU31	QR25DE	2500	4WD	03.06 ~ 09.09	U08008-AFS	AT	22680-CA000
				03.06 ~ 09.09	U08001-AFS	AT	22680-7S000
PU31	VQ35DE	3500	2WD	03.06 ~ 09.09	U08008-AFS	CVT	22680-CA000
				03.06 ~ 09.09	U08001-AFS	CVT	22680-7S000
PNU31	VQ35DE	3500	4WD	03.06 ~ 09.09	U08008-AFS	CVT	22680-CA000
				07.06 ~ 09.09	U08001-AFS	CVT	22680-7S000

## PRESEA R10 Series

PR10	SR18DE	1800	2WD	92.06 ~ 94.12	U08004-AFS		22680-53J00
PR11	SR18DE	1800	2WD	95.01 ~ 97.08	U08005-AFS		22680-53J01
				97.08 ~ 00.08	U08002-AFS		22680-2J200
HR10	SR20DE	2000	2WD	90.06 ~ 94.12	U08004-AFS		22680-53J00
HR11	SR20DE	2000	2WD	95.01 ~ 97.08	U08005-AFS		22680-53J01
				97.08 ~ 00.08	U08002-AFS		22680-2J200

## PRESIDENT PF50 Series

PGF50	VK45DE	4500	2WD	03.10 ~	U08001-AFS		22680-7S000
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## PRIMERA P10 Series

P10	SR18DE	1800	2WD	92.09 ~ 94.09	U08004-AFS		22680-53J00
				94.09 ~ 95.08	U08005-AFS		22680-53J01
FHP10	SR20DE	2000	2WD	90.02 ~ 94.09	U08004-AFS		22680-53J00
				94.09 ~ 95.08	U08005-AFS		22680-53J01
HP10	SR20DE	2000	2WD	90.02 ~ 94.09	U08004-AFS		22680-53J00
				94.09 ~ 95.08	U08005-AFS		22680-53J01
HNP10	SR20DE	2000	4WD	90.02 ~ 94.09	U08004-AFS		22680-53J00
				94.09 ~ 95.08	U08005-AFS		22680-53J01

## PRIMERA / PRIMERA CAMINO P11 Series

P11	SR18DE	1800	2WD	95.09 ~ 98.09	U08002-AFS	AT/MT	22680-2J200
HP11	SR20DE	2000	2WD	95.09 ~ 01.01	U08002-AFS	AT/MT	22680-2J200
	SR20VE	2000	2WD	97.09 ~ 01.01	U08006-AFS	CVT	22680-5J000
HNP11	SR20DE	2000	4WD	95.09 ~ 01.01	U08002-AFS	AT/MT	22680-2J200

## PRIMERA (CAMINO) WAGON WP11 Series

WP11	SR18DE	1800	2WD	97.09 ~ 98.09	U08002-AFS	AT/MT	22680-2J200
WHP11	SR20DE	2000	2WD	97.09 ~ 00.11	U08006-AFS	CVT	22680-5J000
WHNP11	SR20DE	2000	4WD	97.09 ~ 00.11	U08002-AFS		22680-2J200

## PRIMERA SEDAN & WAGON P12 Series

QP12	QG18DE	1800	2WD	03.07 ~ 05.12	U08001-AFS	AT	22680-7S000
TP12	QR20DE	2000	2WD	03.07 ~ 05.12	U08008-AFS	CVT	22680-CA000
					U08001-AFS	CVT	22680-7S000
TNP12	QR20DE	2000	4WD	03.07 ~ 05.12	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
WTP12	QR20DE	2000	2WD	03.07 ~ 05.12	U08008-AFS	CVT	22680-CA000
					U08001-AFS	CVT	22680-7S000
WTNP12	QR20DE	2000	4WD	03.07 ~ 05.12	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000

## PULSAR N15 Series

JN15	SR16VE	1600	2WD	97.09 ~ 00.08	U08006-AFS	ex.(spec.SR16VE(NEOVVL)ENG)/MT	22680-5J000
HNN15	SR18DE	1800	4WD	96.05 ~ 00.08	U08002-AFS		22680-2J200



# NISSAN

CAR MODEL	ENG. MODEL	CC DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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## RASHEEN RB14 Series

RHNB14	SR18DE	1800	4WD	97.01 ~ 00.08	U08002-AFS	AT	22680-2J200
RKNB14	SR20DE	2000	4WD	98.01 ~ 00.08	U08002-AFS	AT	22680-2J200

## R'NESSA N30 Series

N30	SR20DE	2000	2WD	97.10 ~ 00.01	U08002-AFS	AT	22680-2J200
	SR20DE	2000	2WD	00.01 ~ 01.07	U08002-AFS	CVT	22680-2J200

## SERENA C24 Series

TC24	QR20DE	2000	2WD	03.10 ~ 05.05	U08008-AFS	CVT	22680-CA000
					U08001-AFS	CVT	22680-7S000
TNC24	QR20DE	2000	4WD	03.10 ~ 05.05	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
RC24	QR25DE	2500	2WD	03.10 ~ 05.05	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000

## SERENA C25 Series

C25	MR20DE	2000	2WD	05.05 ~	U08001-AFS		22680-7S000
NC25	MR20DE	2000	4WD	05.05 ~	U08001-AFS		22680-7S000

## SILVIA S14 Series

S14	SR20DE	2000	2WD	95.05 ~ 98.12	U08003-AFS		22680-52F01
	SR20DET	2000	2WD	95.05 ~ 98.12	U08007-AFS		22680-69F01
CS14	SR20DE	2000	2WD	95.05 ~ 98.12	U08003-AFS	HICAS	22680-52F01
	SR20DET	2000	2WD	95.05 ~ 98.12	U08007-AFS	HICAS	22680-69F01

## SILVIA S15 Series

S15	SR20DE	2000	2WD	99.01 ~ 02.08	U08003-AFS		22680-52F01
	SR20DET	2000	2WD	99.01 ~ 02.08	U08007-AFS		22680-69F01

## SKYLINE V35 Series

PV35	VQ35DE	3500	2WD	03.01 ~ 07.06	U08008-AFS	AT/MT	22680-CA000
				03.01 ~ 07.06	U08001-AFS	AT/MT	22680-7S000
				04.11 ~ 07.06	U08001-AFS	CVT	22680-7S000

## SKYLINE V36 Series

V36	VQ25HR	2500	2WD	06.11 ~	U08001-AFS		22680-7S000
NV36	VQ25HR	2500	4WD	06.11 ~	U08001-AFS		22680-7S000
PV36	VQ35HR	3500	4WAS	06.11 ~ 08.12	U08001-AFS		22680-7S000

## SKYLINE COUPE CV36 Series

CKV36	VQ37VHR	3700	2WD	08.12 ~	U08001-AFS	AT	22680-7S000
		3700	2WD	08.12 ~	U08001-AFS	HICAS	22680-7S000

## STAGEA M35 Series

PM35	VQ35DE	3500	2WD	04.08 ~ 07.07	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
PNM35	VQ35DE	3500	4WD	04.08 ~ 07.07	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000

## SUNNY / LUCINO B14 Series

JB14	SR16VE	1600	2WD	97.08 ~ 99.08	U08006-AFS	MT	22680-5J000
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## SUNNY B15 Series

B15	QG13DE	1300	2WD	03.10 ~ 04.10	U08001-AFS	AT/MT	22680-7S000
FB15	QG15DE	1500	2WD	03.01 ~ 04.10	U08001-AFS	AT/MT	22680-7S000
FNB15	QG15DE	1500	4WD	03.01 ~ 04.10	U08001-AFS	AT/MT	22680-7S000
JB15	SR16VE	1600	2WD	98.10 ~ 02.05	U08006-AFS	MT	22680-5J000

## TEANA J31 Series

J31	VQ23DE	2300	2WD	03.02 ~ 08.06	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
TNJ31	QR25DE	2500	4WD	03.02 ~ 08.06	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
PJ31	VQ35DE	3500	2WD	03.02 ~ 08.06	U08008-AFS	CVT	22680-CA000
					U08001-AFS	CVT	22680-7S000

# NISSAN

CAR MODEL	ENG. MODEL	CC DISP'T	WD	YEAR	HITACHI APS PARTS No.	CAR MODEL DESCRIPTION	REFERENCE No.
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## TERRANO R50 Series

PR50	TD27ETi	2700	4WD	95.09 ~ 99.02	U08002-AFS		22680-2J200
RR50	QD32ETi	3200	4WD	96.08 ~ 99.02	U08002-AFS		22680-2J200
LUR50	VG33E	3300	2WD	99.02 ~ 02.08	U08002-AFS	AT	22680-2J200
LR50	VG33E	3300	4WD	95.09 ~ 02.08	U08002-AFS		22680-2J200

## TERRANO REGULUS JR50 Series

JRR50	QD32ETi	3200	4WD	96.08 ~ 99.02	U08002-AFS		22680-2J200
JLR50	VG33E	3300	4WD	96.08 ~ 02.08	U08002-AFS		22680-2J200

## TIIDA C11 Series

C11	HR15DE	1500	2WD	04.09 ~	U08001-AFS	AT/CVT	22680-7S000
NC11	HR15DE	1500	4WD	04.09 ~	U08001-AFS	AT	22680-7S000
JC11	MR18DE	1800	2WD	05.01 ~	U08001-AFS	CVT	22680-7S000
				08.01 ~	U08001-AFS	MT	22680-7S000

## TIIDA LATIO SC11 Series

SC11	HR15DE	1500	2WD	04.10 ~	U08001-AFS	AT/CVT	22680-7S000
SNC11	HR15DE	1500	4WD	04.10 ~	U08001-AFS	AT	22680-7S000
SJC11	MR18DE	1800	2WD	05.01 ~ 08.01	U08001-AFS	CVT	22680-7S000
				08.01 ~	U08001-AFS	CVT/MT	22680-7S000

## VANETTE SERENA C23 Series

KVC23	CD20T	2000	2WD	97.01 ~ 99.06	U08002-AFS		22680-2J200
KBC23	SR20DE	2000	2WD	91.06 ~ 95.08	U08004-AFS		22680-53J00
				95.08 ~	U08005-AFS	MT	22680-53J01
KBNC23	SR20DE	2000	4WD	91.06 ~ 95.08	U08004-AFS		22680-53J00
				95.08 ~	U08005-AFS		22680-53J01

## WINGROAD Y12 Series

Y12	HR15DE	1500	2WD	05.11 ~	U08001-AFS	AT/CVT	22680-7S000
NY12	HR15DE	1500	4WD	05.11 ~	U08001-AFS	AT	22680-7S000
JY12	MR18DE	1800	2WD	05.11 ~	U08001-AFS	CVT	22680-7S000

## X-TRAIL T30 Series

T30	QR20DE	2000	2WD	03.06 ~	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000
NT30	QR20DE	2000	4WD	03.06 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
PNT30	SR20VET	2000	4WD	03.08 ~	U08008-AFS	AT	22680-CA000
					U08001-AFS	AT	22680-7S000

## X-TRAIL T31 Series

T31	MR20DE	2000	2WD	07.08 ~	U08001-AFS	CVT	22680-7S000
NT31	MR20DE	2000	4WD	07.08 ~	U08001-AFS	CVT/MT	22680-7S000
TNT31	QR25DE	2500	4WD	07.08 ~	U08001-AFS	CVT	22680-7S000

## ATLAS F23 Series

SH2F23	KA20DE	2000	2WD	99.06 ~ 03.08	U08006-AFS		22680-5J000
SH4F23	KA20DE	2000	2WD	99.06 ~ 03.08	U08006-AFS		22680-5J000
SR2F23	QD32	3200	2WD	04.08 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
SR4F23	QD32	3200	2WD	04.08 ~	U08008-AFS		22680-CA000
					U08001-AFS		22680-7S000
SR8F23	QD32	3200	4WD	04.08 ~	U08008-AFS	MT	22680-CA000
					U08001-AFS	MT	22680-7S000

## ATLAS F24 Series

SQ1F24	QR20DE	2000	2WD	07.06 ~	U08001-AFS		22680-7S000
SQ2F24	QR20DE	2000	2WD	07.06 ~	U08001-AFS		22680-7S000

## Parts No. Comparison List of Air Flow Sensor

### REFERENCE No. and HITACHI APS PARTS No.

REFERENCE No.	HITACHI APS PARTS No.
<b>NISSAN</b>	
22680-2J200	U08002-AFS
22680-52F01	U08003-AFS
22680-53J00	U08004-AFS
22680-53J01	U08005-AFS
22680-5J000	U08006-AFS
22680-69F01	U08007-AFS
22680-CA000	U08008-AFS
22680-7S000	U08001-AFS

### HITACHI APS PARTS No. and REFERENCE No.

HITACHI APS PARTS No.	REFERENCE No.
U08001-AFS	22680-7S000
U08002-AFS	22680-2J200
U08003-AFS	22680-52F01
U08004-AFS	22680-53J00
U08005-AFS	22680-53J01
U08006-AFS	22680-5J000
U08007-AFS	22680-69F01
U08008-AFS	22680-CA000