

“Eco-driving” means easy to improve fuel consumption efficiency and reduce CO2 emissions.

Eco-Driving Support Monitor

e - d r i v e
Economy Drive Support Monitor

Thank you for purchasing PIVOT e-drive. Please read these instructions carefully before installing or using this device.
Please do not lose this user's guide, as you will held liable for the cost of reissuing it.

By installing this product the user agrees that Pivot Corporation is in no way whatsoever responsible nor liable for any damage to the product or automobile or for any accident that is the result of improper installation or use of the product including any disregard by the user to the various Cautions or Warnings.

Before installing !

CAUTION

- Installation cannot be carried out on some car models; please check your car model with the Compatible Car Model List before installing.
- Please be sure to check that “e-drive” operates properly before installing it in the car or drilling holes for installation.

WARNING

Improper use in disregard of this display may result in the injury or death of people.

- Installing or using “e-drive” in places where ventilation is poor may result in an to humans due to vehicle exhaust emission poisoning or fire.
- During installation be sure to remove the minus cable from the battery so as to prevent fire and damage resulting from the shorting of circuits, etc...
- Please be careful that the cable does not get crushed by the seat rail or car door steel plate. Trying to do these operations while the car is moving, may cause trouble and damage.
- Because, it is very dangerous if, while in use, the product falls off and interferes with braking, please securely fasten it to a stable place.
- It is very dangerous to pull tangled wires by force or allow tangled wires to interfere with driving. So, please be sure to store bundle away all wires with tape, etc...
- Operating or checking the display during driving may cause an accident; please use with the utmost consideration for safety.

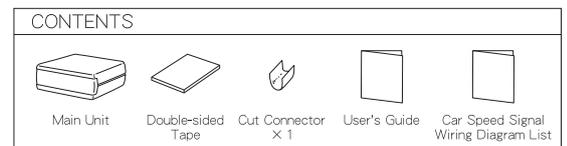
CAUTION

Improper use in disregard of this display may cause injury to persons, damage the product and / or other things.

- When installing this product, we recommend that if technical knowledge becomes necessary please consult a qualified mechanic.
- This product is for DC12V cars; installation cannot be carried out on cars with other voltage batteries.
- Wiring should be carried out using the attached “cut connector” or by soldering, make sure to securely insulate all wiring parts with insulation tape, and confirm that no wires are sticking out.
- Do not, in any manner, process, take apart, or make changes to this product.
- Do not install “e-drive” in any place subject to high temperature or any place where water may be splashed.
- Do not install “e-drive” in any place subject to high temperature or any place where water may be splashed.
- When double-sided tape is used for an installation be warned that when hot the tape temporarily losses adhesiveness so no strong pressure should be applied.
- Make sure to replace all screws and parts that were removed during installation to their original place.

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- Driving Time

FEATURES

Easy-to-grasp Eco-Driving

This product allows you to view G's upon rapid acceleration, rapid deceleration and under normal driving, necessary information for eco-driving, and with its warning function allows you easily grasp the optimum driving method.

It is possible to see Acceleration G's with eyes

Small G's below 0.4G, also necessary for eco-driving but is impossible to sense, are shown in a level display.

Scoring Your Driving

By showing your score for each section from start to stop, it becomes easy to understand your driving habits.

Gasoline Cost for the distance you have driven

The conversion display shows the gasoline cost for each distance; making it easy to see cost and benefits. (Gasoline Cost = Driving Distance ÷ Input Mileage × Input Gasoline Price)

Gasoline consumption for the distance you have driven

The conversion display of gas consumption for each distance makes it easy to see the amount consumed for the distance. (Gasoline Consumption = Driving Distance ÷ Input Mileage)

※ Gasoline Consumption are displayed by converting it from the driving distance and the entered values for gas mileage; therefore the displayed values may differ from actual amounts.

Speed, Driving Distance, Driving Time

Digital display of the speed, driving distance and driving time.

Easy-to-wiring and installation

Because wiring only consists of inserting the power plug into the cigarette lighter socket and wiring to the car speed (specified place) such as ECU, and due to the compact body size, installation can be carried out almost anywhere.

※ By cutting off the cigarette lighter plug it possible to wire to other place.

APPLICATIONS

Support Eco-driving support

Score Understand your driving by getting scored

Efficiency Judge your consumption efficiency by selecting your driving distance such as by choice of route

Recognize Recognize acceleration and deceleration G's

Cost Recognize the cost of driving

Accurate Speed display in units of 1km/hr

Eco-Driving Monitor

Support

Easy-to-grasp display the most efficient acceleration and deceleration.

Light up the display during eco-driving. Blinking display and alarm warning unnecessary acceleration and braking.



Acceleration

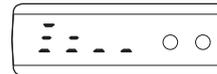


Deceleration

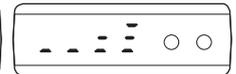
Driving Monitor

Recognize

G's associated with acceleration and deceleration are shown in the level display.



Ex: Acceleration 0.15G



Ex: Deceleration 0.15G

Sectionalized Driving Scoring

Driving scoring for each section of driving from start to stop.

Score

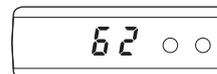


Ex: bad (uneconomical) 16points

Overall Driving Scoring

Score

Driving scoring after engine has been started.

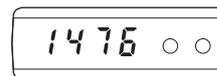
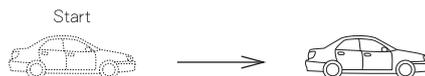


Ex: Average score 62points

Gasoline Cost ※

Cost

The conversion display shows the gasoline cost for each distance after engine has been started.

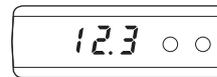
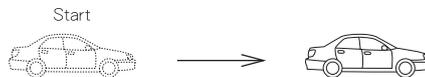


Ex: Gasoline Cost 1476yen

Gasoline Consumption ※

Efficiency

The conversion display shows the gasoline consumption for each distance after engine has been started.

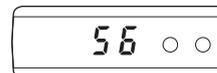


Ex: Gasoline Consumption 12.3L

Speed

Accurate

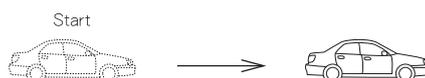
Speed display.



Ex: Speed 56km/hr

Trip Meter

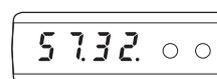
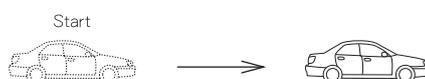
Display the driving distance after engine has been started.



Ex: Driving Distance 184.5km

Driving Time

Display the driving time after engine has been started.



Ex: Driving Time 57min 32sec

※ This display only shows the estimated consumption calculated from the entered mileage and driving distance; it may vary from actual consumption.

Gasoline Cost = Driving Distance ÷ Input Mileage × Input Gasoline Price

Gasoline Consumption = Driving Distance ÷ Input Mileage

If you want to measure actual fuel consumption, please purchase our product "e-nenpi".

ABOUT ECO-DRIVING SUPPORT MONITOR

What has eco-driving meant until now?

Until now, it has generally been thought that eco-driving meant simply driving slowly. But, for real eco-driving or in other words the most effective way to improve mileage and lower costs, we must understand the optimum and efficient use of G's. However, because these G's are very small, below 0.2G, it has been impossible to sense them.

What the Eco Driving Support Monitor?

"e-drive" is a revolutionary product that is capable of measuring small G's below 0.2G accurately, without the use of sensors which can be influenced by vibration, to allow for the rapid calculation of changes in speed. Moreover it allows you to view the optimum G's for efficient consumption at each speed range, so there is no need to rely just on intuition for eco-driving. "e-drive" makes eco-driving possible without having to drive slow.

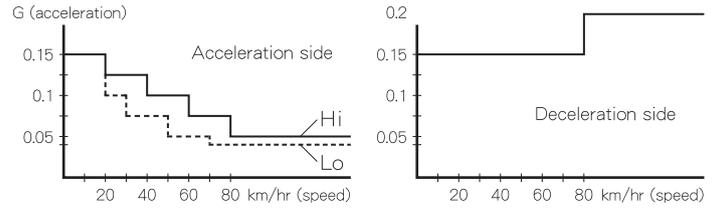
Does eco-driving improve fuel consumption efficiency?

The following shows the results of a fuel consumption comparison test between eco-driving with "e-drive" and normal driving without "e-drive".

	HONDA ODYSSEY (RB1)	DAIHATSU MOVE (L610S) Turbo	TOYOTA Vitz (SCP10)	HONDA CIVIC (EG6)
	5.7 → 11 km/L	7.2 → 16.2 km/L	10.3 → 16.4 km/L	7.6 → 18.2 km/L
○ Mileage	11km / 5.7km	16.2km / 7.2km	16.4km / 10.3km	18.2km / 7.6km
○ Score	98points / 22points	94points / 23points	100points / 39points	97points / 20points
○ Gasoline Consumption	0.91L / 1.76L	0.585L / 1.329L	0.59L / 0.94L	0.532L / 1.276L
○ Gasoline Cost	122yen / 236yen	78yen / 178yen	79yen / 126yen	71yen / 171yen

○ The results for Mileage / Gasoline Consumption / Gasoline Cost measured using our Multi-mileage meter : "e-nenpi".

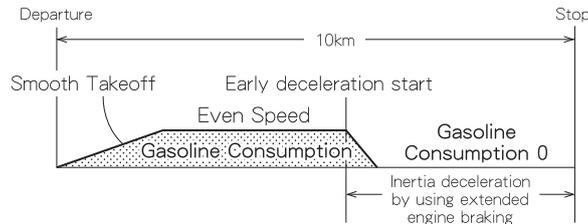
The optimum G range for acceleration and deceleration



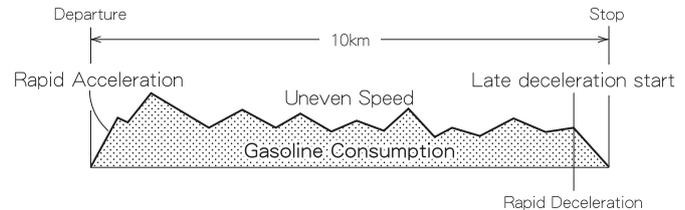
HOW TO USE "e-drive" FOR ECO-DRIVING

Comparing Gasoline Consumption Amounts

Example of Economical Driving



Example of Uneconomical Driving



Eco-Driving Monitor

Easy-to-grasp support for eco-driving! While lamp is lit up it is OK to accelerate and decelerate, but when lamp is blinking it shows uneconomical driving.

Departure and Acceleration



The point right before **ACCEL** begins to give a warning by blinking is the most efficient condition, but until you get used to this point you may set often off the warning. Continually check for that point and try to get used to it as soon as possible.

- During economical acceleration = Acceleration while **ACCEL** is lit up.
- During uneconomical acceleration = When the **ACCEL** is begins to blink, step off the accelerator pedal.

Even Driving



After having reached the desired speed, operate the accelerator with few speed changes.

- During economical driving = Display **----**.
- During uneconomical driving = **ACCEL** or **brAE** lamp blinks.

Deceleration and Stop



Predict the deceleration / stop point as soon as possible. Step completely off the accelerator. Decelerate with extended engine braking (inertia driving). As much as possible do not sudden braking as it has less inertia deceleration.

- During economical deceleration = Display **brAE**.
- During uneconomical deceleration = When the **brAE** lamp blinks it means there was sudden braking. Try to decelerate as soon as possible, using inertia deceleration from an extended engine braking.

WARNING

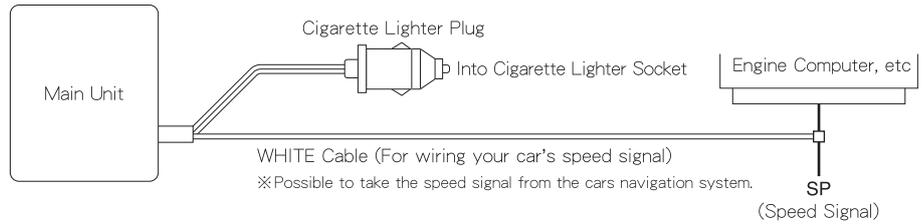
For safety reasons, please use sudden braking as necessary.

Driving Monitor

G's associated with acceleration and deceleration are shown in the level display. Use this to get an even more detailed understanding of the eco-run monitor. During uneconomical driving, the under bar will blink as a warning.

PART NAMES AND BASIC WIRING

- ① Connect the WHITE cable to the specified place depending on your model of car.
- ② Insert the cigarette lighter plug into the cigarette lighter socket.
- ③ Fasten the main unit to an easy-to-see place with the double-sided tape.

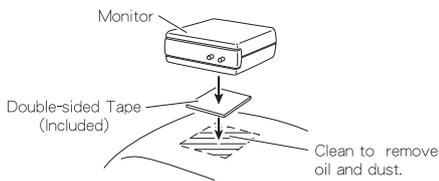


When Not Using the Cigarette Lighter Plug

- ① Pull it out from cigarette lighter socket.
- ② Cut cables to the desired length.
- ③ Connect the WHITE Striped side to the ACC or IG ⊕12V and the BLACK side to the body earth.



MONITOR INSTALLATION ※When affixing with the double-sided tape.



- ① Clean oil and dust from the monitor and from the area where you wish to affix it.
- ② Make sure to securely affix it with the double-sided tape provided in the kit.

⚠ Do not reuse the tape; it will lose adhesiveness.

HOW TO USE THE CUT CONNECTORS ※If soldering is possible, please do so.

Method 1 Connecting a new wire to the middle of another wire.		Method 2 Connecting two wires at their ends.		※Use a crushing tool to press the cut connector, if you do not have such a tool, use pliers or such to fold and crush the connector together for a secure contact. ※After covering, make sure to insulate properly with vinyl tape.
1 Peel off about 10mm of the vinyl cover at connection.	2 Peel off about 10mm of the vinyl cover at the end of the product's wire.	1 Peel off about 10mm of the vinyl covers at the end of the wires to be connected.	2 Twist the uncovered wires.	
3 Twist the uncovered wires.	4 Close tightly with out connector.	3 Close tightly with out connector.		

TROUBLESHOOTING ※Please make the following checks before seeking repair.

Trouble	Possible Causes	Possible Solutions
The display does not work when the key is turned ON or to ACC.	Poor connection of Cigarette Lighter Plug.	Check the Cigarette Lighter Plug connection or conditions.
	Poor connection of BLACK wire or WHITE Striped wire.	Check the BLACK wire or WHITE Striped wire connection or conditions.
While driving, the speed is not displayed.	Improper SP wiring connection.	● Check the WHITE wire connection or conditions. ● Check to make sure of a proper connection to the SP.
The displayed speed is very different from my regular speedometer. (2 times or half of the speed.)	The Car Speed Pulse Setting is wrong.	● Make sure the pulse setting is according to the [Car Speed Pulse Setting]. ※Many minor changes can cause the pulse to change; if necessary change the pulse setting so that the displayed speed matches your regular meter.
There is a small difference between the displayed speed and my regular meter.	It is a difference of precision between the two meters. Small variances may occur between your regular meter, but this is not a failure of the main unit.	

SWITCH OPERATIONS



SET Switch

- Switching the Gasoline Price, Mileage, Alarm, Level and Scale Setting display.
- Decrease by unit in the Gasoline Price and Mileage Setting.
- The decimal point moves right.

MODE Switch

- Switching the display between Car Speed Pulse and Decimal Point Setting.
- Increase by unit in the Gasoline Price and Mileage Setting.
- The decimal point moves left.

NOTE

- When setting, if the key is turned off before returning to the main display, the settings will not be recorded correctly.
- If the wiring has been connected directly to the IG ⊕12V, start by the turning key ON.

Change Main Display

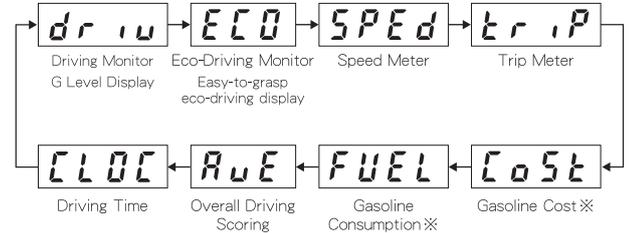
e-drive Display

1 Key Switch ACC



Demo Display

2 Change the mode by pressing in on the MODE Switch, after 3 seconds displays each values



※ Converted from the driving distance and the entered values for gas mileage.

EXPLANATION OF EACH DISPLAY

Display Order	Title Display	Display Example	Explanation of Example
1. Driving Monitor	driv	---	0G When stopped or during even driving
Display Example	Acceleration side	0.1G (0.05G when at Lo setting)	0.25G (0.125G)
		0.15G (0.075G)	0.35G (0.175G)
	Deceleration side	0.15G (0.075G)	0.35G (0.175G)
		0.15G (0.075G)	0.35G (0.175G)

G's associated with acceleration and deceleration are shown in the Level Display.
Hi = 0G~0.4G (in units of 0.05G) / Lo = 0G~0.2G (in units of 0.025G)
Gives a warning by blinking display and alarm if beyond optimum G's range.

Acceleration side	Hi	0.1 (0.05)	0.2 (0.1)	0.3 (0.15)	0.4 (0.2)	Deceleration side	Hi	0.4 (0.2)	0.3 (0.15)	0.2 (0.1)	0.1 (0.05)
	Lo						Lo				

Display Order	Title Display	Display Example	Explanation of Example
2. Eco-Driving Monitor	ECO	ACCEL	During Acceleration
		---	During Even Driving
		brAE	During Braking

Display Order	Title Display	Display Example	Explanation of Example
3. Speed Meter	SPEED	125	125km/hr
4. Trip Meter	trip	16.0	16km
5. Gasoline Cost ※	Cost	1355	1355yen
6. Gasoline Consumption ※	FUEL	28.0	28L
7. Overall Driving Scoring	Ave	83	83points
8. Driving Time Display	CLOc	57.32	57min 32sec

※ Converted from the driving distance and the entered values for gas mileage.

NOTE

Gasoline Costs and Gasoline Consumption are displayed by converting them from the driving distance and the entered values for gas mileage; therefore the displayed values may differ from actual amounts.

When your car stops, Sectionalized Driving Scoring Display usually scrolls three times in the display.

When your car stops, the set display changes into a Sectionalized Driving Scoring Display. (The display usually scrolls three times, but when a stop is very short, it may scroll just one or two times.)

- ※1 Sectionalized Driving Scoring is only performed when driving at a speed of over 30km/hr. Driving at a speed of under 30km/hr can't be scored.
- ※2 Points are taken off scores by a set index each time the optimum G's range is exceeded during acceleration and deceleration.
- ※3 Remember that this scoring simply provides a rough idea.

Display	Display Example	Explanation of Example
Sectionalized Driving Scoring	100~90points (Optimum Driving) Good 93	Good 93points
	89~30points (Normal Driving) nor 62	Normal 62points
	29~0points (Uneconomical Driving) bad 16	Bad 16points

About the Alarm Warning

Unless the alarm is turned off, it will be sounded in any of the displays if the optimum G range has been exceeded.

About Data Reset

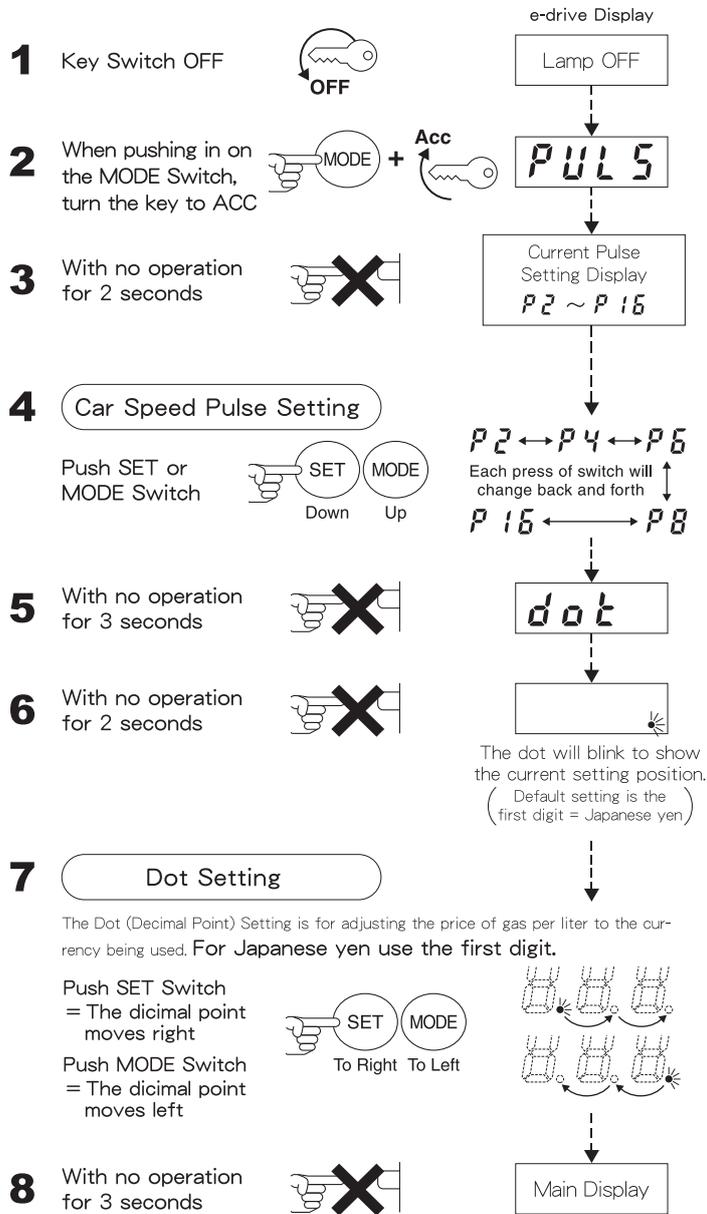
Turning the key off resets five sets of data: Trip, Gasoline Cost, Gasoline Consumption, Overall Driving Scoring and Driving Time.

EACH SETTING METHOD

Car Speed Pulse / Dot Setting

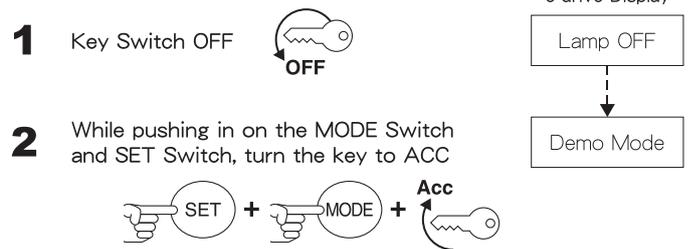
Car Speed Pulse Setting Car speed pulse by car model

Dot Setting This setting is only necessary when matching the decimal point to the unit price in a foreign currency.
(This is not necessary when setting in Japanese yen.)



Demo Mode Setting

This mode is for demonstration of the Eco-Driving Monitor and Sectionalized Driving Scoring.



Canceling the Demo Operation

If while setting Demo Mode, the same operation is performed twice, Demo Mode will be cancelled.

Reference Examples of settings by country and type of currency.

Country Name	Example of Gasoline Cost (per liter)	Price Unit	Input Example	Decimal Point Position
Singapore	1.34	Singapore Dollar	1.34	after first digit
Malaysia	1.38	Ringgit	1.38	after first digit
Thailand	19.79	Baht	19.8	after second digit
Philippines	26.56	Peso	26.6	after second digit
HongKong	11.93	Hong Kong Dollar	11.9	after second digit
Taiwan	19.8	New Taiwan Dollar	19.8	after second digit
Korea	1392	Won	1.39※	after first digit

Because in the USA, the unit of speed and distance is miles, a special model compatible with miles is necessary.

※Input at 1/1000

Gasoline Price / Mileage / Alarm / Level / Scale Setting

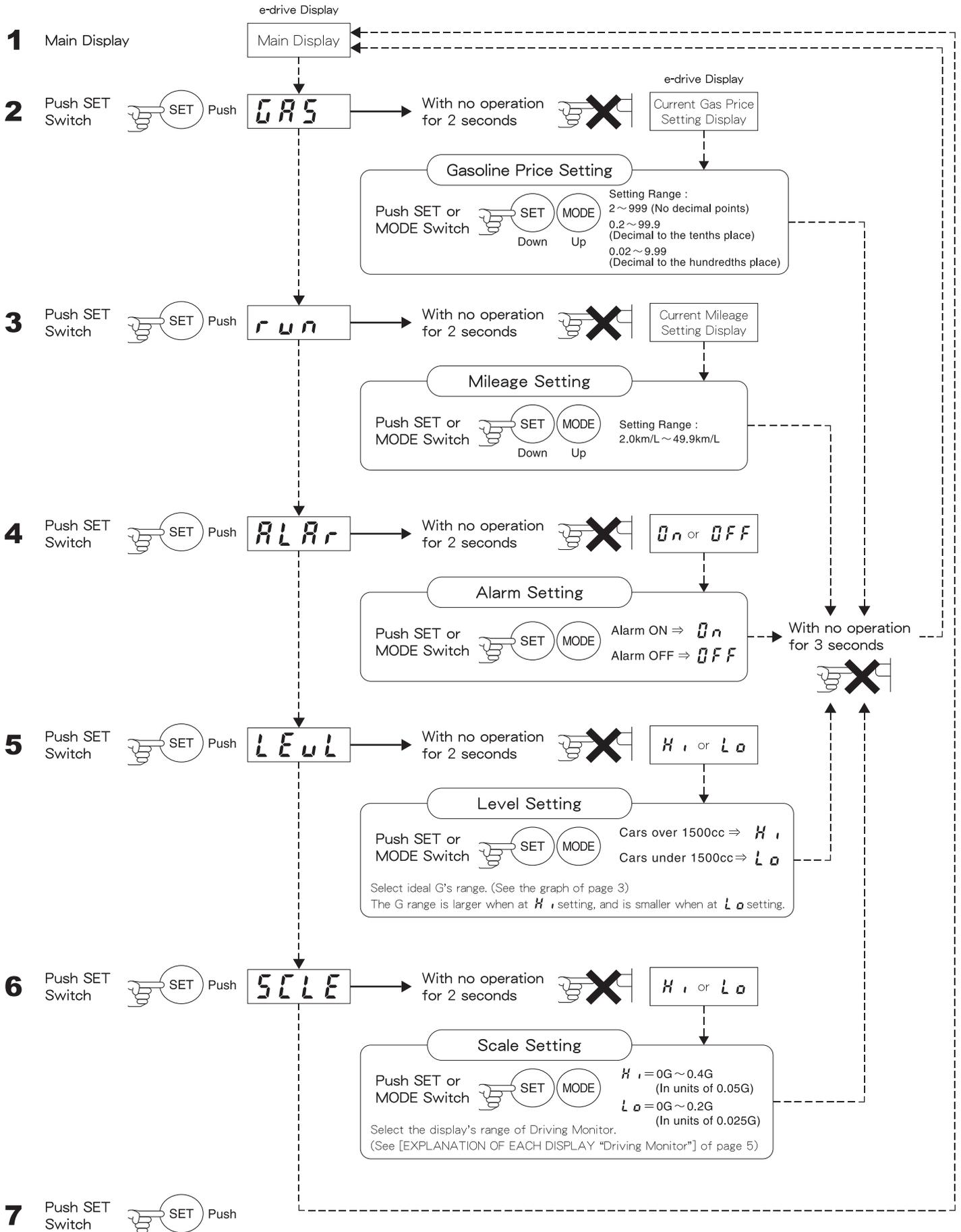
Gasoline Price Setting Gasoline price per liter

Mileage Setting Input Current Mileage (Driving Distance + Refueling Amount)

Alarm Setting Select the alarm ON / OFF when warning

Level Setting Select ideal G's range (warning point) by engine displacement

Scale Setting Select the display's range of Driving Monitor (0G~0.4G / 0G~0.2G)



List of the Compatible Car Models

(Car Speed Signal Wiring List for some model of cars)

As of March, 2006

e - drive
Economy Drive Support Monitor

The following is a list of compatible car models that have car speed wiring data.

The unit cannot be installed in other car models, which are not on this list, because details are uncertain.

※1 There are some other model cars for which installation is possible but a diagram is not included; please consult your local dealer for details.
※2 Compatibility may vary due to differences in car model changes.

TOYOTA

Vehicle	Model Year	Model	E/G Model
Isis	'04.9~	ANM10/15G,W	1AZ-FSE
		ZNM10G,W	1ZZ-FE
ALTEZZA	'98.10~	SXE10	3S-GE
ALPHARD	'02.5~	MNH10/15W	1M2-FE
		ANH10/15W	2AZ-FE
ist	'02.5~	NCP61/65	1N2-FE
		NCP60	2N2-FE
IPSUM	'03.10~	ACM21/26W	2AZ-FSE
	'01.5~	ACM21/26W	2AZ-FSE
WISH	'03.4~	ANE10G/11W	1AZ-FSE
	'03.1~	ZNE10/14G	1ZZ-FE
Vitz	'05.2~	NCP91	1N2-FE
		NCP95	2N2-FE
		SCP90	2S2-FE
		KSP90	1KR-FE
	'02.12~	SCP13	2S2-FE
		NCP13	1N2-FE
	'02.8~	NCP10/15	2N2-FE
		SCP10	1S2-FE
	'01.12~	NCP13	1N2-FE
		NCP10/15	2N2-FE
	'00.10~	SCP10	1S2-FE
		NCP13	1N2-FE
'99.10~	NCP10	2N2-FE	
'99.8~	NCP15	2N2-FE	
'99.1~	SCP10	1S2-FE	
ESTIMA	'00.1~	MCR30/40W	1M2-FE
CALDINA	'02.9~	ACR30/40W	2AZ-FE
		ST246W	3S-GTE
		ZT241W	1ZZ-FE
		AZT241/246W	1AZ-FSE
'97.9~	ST215W	3S-GTE	
COROLLA SPACIO	'03.4~	ST215G	3S-GE
		ZZE122/124N	1ZZ-FE
'01.5~	NZE121N	1N2-FE	
	ZZE122/124N	1ZZ-FE	
COROLLA FIELDER	'04.4~	NZE121N	1N2-FE
		ZZE123G	2ZZ-GE
	'02.9~	ZZE122/124G	1ZZ-FE
		NZE121/124G	1N2-FE
'00.8~	ZZE123G	2ZZ-GE	
	ZZE122/124G	1ZZ-FE	
'02.7~	NZE121/124G	1N2-FE	
COROLLA RUNX-ALLEX	'04.4~	ZZE123	2ZZ-GE
		ZZE122/124	1ZZ-FE
	'02.9~	NZE121/124	1N2-FE
		ZZE123	2ZZ-GE
'01.1~	NZE121/124	1N2-FE	
	ZZE123	2ZZ-GE	
SUCCEED · Probox	'02.7~	NCP51/55V/58/59G	1N2-FE
SUPRA	'97.8~	NCP50V	2N2-FE
		JZA80	2JZ-GTE
CELICA	'99.9~	ZZT231	2ZZ-GE
	'97.12~	ZZT230	1ZZ-FE
NOAH · VOXY	'97.12~	ST202	3S-GE
	'04.8~	AZR60/65G	1AZ-FSE
HIACE WAGON/VAN	'01.11~	AZR60/65G	1AZ-FSE
	'05.1~	TRH224/229W	2TR-FE
PASSO	'04.8~	TRH214/219W	2TR-FE
		TRH200V,K	1TR-FE
FUNCARGO	'02.8~	QNC10	K3-VE
		KGC10/15	1KR-FE
MARK II · CRESTA · CHASER	'00.10~	NCP21/25	1N2-FE
		NCP20	2N2-FE
LITEACE NOAH · TOWNACE NOAH	'98.12~	NCP21/25	1N2-FE
		NCP20	2N2-FE
MR-S	'99.10~	NCP30	2N2-FE
		NCP31/35	1N2-FE
MR2	'97.12~	SR40/50G	3S-FE
	'93.11~	SW20	3S-GE

NISSAN

Vehicle	Model Year	Model	E/G Model
AVENIR Salut	'98.8~	W11	SR20DET
	'95.8~	W10	SR20DE
WINGROAD	'93.11~	W10	SR20DE
	'01.10~	Y11	QR20DE
	'99.5~	Y11	SR20VE
ELGRAND	'04.12~	E51	VQ25DE
	'02.5~	E51	VQ35DE
	'00.8~	E50	VQ35DE
	'99.8~	E50	VG33E
CUBE	'02.10~	Z11	CR14DE
	'99.11~	Z10	CGA3DE
	'98.2~	Z10	CG13DE
	'98.10~	B15	QG15DE
SUNNY	'05.1~	E11	HR15DE
	'99.1~	S15	SR20DET
NOTE	'96.6~	S14	SR20DET
	'93.10~	S14	SR20DE
	'91.1~	S13	SR20DET
SILVIA	'99.1~	R34	RB26DETT
	'95.1~	R33	RB26DETT
	'89.8~	R32	RB26DETT
	'02.2~	V35	VQ35DE
SKYLINE GT-R	'01.6~	V35	VQ30DD
	'98.5~	R34	RB25DET
	'93.8~	R33	RB25DET
SKYLINE	'91.8~	R32	RB25DE
	'89.5~	R32	RB20DET
	'97.10~	C34	RB26DETT
	'96.9~	C34	RB25DE
STAGEA	'01.12~	C24	QR25DE
	'99.6~	C24	SR20DE
SERENA	'02.7~	Z33	VQ35DE
	'89.7~	Z32	VG30DETT
FAIRLADY Z	'97.10~	C34	RB26DETT
	'96.9~	C34	RB25DE
	'92.3~	K12	CR14DE
	'91.1~	K11	CGA3DE
MARCH	'02.3~	K12	CR12DE
	'99.11~	K11	CGA3DE
	'92.1~	K11	CG13DE
	'91.1~	S13	SR20DET
X-TRAIL	'02.2~	T30	SR20VET
	'96.8~	S13	SR20DE
180SX	'91.1~	S13	SR20DET
	'91.1~	S13	SR20DET

SUZUKI

Vehicle	Model Year	Model	E/G Model
ALTO	'00.12~	HA23S	K6A
	'98.10~	HA12S	F6A
ALTO WORKS	'98.10~	HA22S	K6A
	'97.4~	HA12S	F6A
			HA22S
	'02.10~	HA/HB21S	F6A
ALTO LAPIN	'02.10~	HE21S	K6A
	'02.1~	HE21S	K6A
	'03.9~	MH21S	K6A
	'02.9~	MC22S	K6A
WAGON R	'00.12~	MC12S	F6A
	'98.10~	MC22S	K6A
	'97.4~	CT/CV51S	K6A
	'02.11~	HN22S	K6A
Kei	'01.4~	HN12S	F6A
	'98.10~	HN22S	K6A
	'97.4~	HN11S	F6A
	'97.4~	HN21S	K6A
MR WAGON	'01.12~	MF21S	K6A

HONDA

Vehicle	Model Year	Model	E/G Model
ACCORD	'02.10~	CL7/8	K20A
	'00.6~	CL9	K24A
			CL1
ACCORD WAGON	'02.11~	CM2/3	K24A
	'99.1~	CH9	H23A
	'97.10~	CF6/7	F23A
INTEGRA	'01.7~	DC5	K20A
	'93.5~	DC2,DB8	B18C
ELYSION	'04.5~	RR3/4	J30A
	'97.8~	RR1/2	K24A
			RB1/2
ODYSSEY	'03.10~	RA8/9	J30A
	'99.12~	RA6/7	F23A
	'97.10~	RA5	J30A
	'97.8~	RA3/4	F23A
That's CIVIC	'95.2~	RA1/2	F22B
	'02.2~	JD1/2	E07Z
	'01.12~	EP3	K20A
	'00.9~	ES3,EU3/4	D17A
STEPWGN	'98.9~	EK9	B16B
	'97.4~	EK9	B16B
	'95.9~	EK4	B16A
	'91.9~	EG6/9	B16A
STREAM	'05.5~	RG3/4	K24A
	'03.6~	RG1/2	K20A
	'01.4~	RF7/8	K24A
	'99.5~	RF3/4/5/6	K20A
YAMOS BEAT	'01.4~	RF3/4	K20A
	'03.9~	RN3	K20A
	'00.10~	RN3/4	K20A
	'99.6~	RN1/2	D17A
Fit	'02.8~	HM1/2	E07Z
	'01.6~	GD3/4	L15A
	'01.2~	GD1/2	L13A
	'00.9~	GB1/2	L15A
MOBILIO	'03.9~	GK1/2	L15A
	'03.9~	JB5/6/7/8	P07A
	'00.12~	JB3/4	E07Z
	'98.10~	JB1/2	E07Z
S2000	'99.4~	AP1	F20C

DAIHATSU

Vehicle	Model Year	Model	E/G Model
COPEN	'02.7~	L880K	JB-DET
	'03.11~	L350/360S	EF-VE
TANTO	'02.7~	L880K	JB-DET
	'03.11~	L350/360S	EF-DE
BOON	'04.6~	M300/310S	1KR-FE
	'02.12~	M301S	K3-VE
MIRA AVY	'02.12~	L250/260S	EF-VE
	'97.8~	L500/510S	EF-SE
			L510S
	'95.10~	L500/510S	EF-RL
MIRA GINO	'98.10~	L700/710S	EF-VE
	'97.8~	L500/510S	EF-RL
			L510S
	'95.10~	L500/510S	EF-RL
MOVE	'02.10~	L150/160S	EF-JL
	'01.10~	L152S	JB-DET
			L912S
	'99.11~	L900S	EF-DE
MAX	'98.10~	L900/910S	EF-VE
	'97.8~	L900S	EF-SE
			L900/910S
	'96.5~	L902S	JB-DET
MPV	'02.8~	L150/160S	EF-VE
	'98.10~	L152S	JB-DET
			L912S
	'99.11~	L900S	EF-DE
RX-7	'98.10~	L900/910S	EF-VE
	'96.5~	L900S	EF-SE
			L900/910S
	'95.8~	L902S	JB-DET
RX-8	'03.8~	L950/960S	EF-VE
	'01.11~	L952/962S	EF-DE
			L950/960S
		L952/962S	EF-DE

MITSUBISHI

Vehicle	Model Year	Model	E/G Model
GRANDIS	'03.5~	NA4W	4G69
	'00.6~	N86/96W	6G72
CHARIOT GRANDIS	'00.6~	N84/94W	4G64
		Z21/22A	4A90
COLT COLT PLUS	'04.10~	Z23/24A,W	4A91
	'02.11~	Z27A,W	4G15
		Z25/28A	4G15
LANCER Evolution	'05.3~	CT9A(IX)	4G63
	'03.1~	CT9A(VIII)	4G63
	'01.2~	CT9A(VII)	4G63
	'96.8~	CN/CP9A(IV~VI)	4G63
LANCER CEDIA	'92.10~	CD/CE9A(I~III)	4G63
	'00.5~	CS5A	4G93
LANCER CEDIA WAGON	'00.11~	CS2A	4G15
	'05.1~	CS5W	4G93
LANCER WAGON	'03.2~	CS2W	4G15
	'96.10~	CD/CB5W	4G93
LIBERO	'92.5~	CB4W	4G92
	'92.5~	CD/CB5W	4G93
ek SPORT	'04.5~	H81W	3G83
	'03.2~	H81W	3G83
ek WAGON	'02.9~	H81W	3G83
	'04.5~	H81W	3G83
	'01.10~	H81W	3G83

SUBARU

Vehicle	Model Year	Model	E/G Model
IMPREZA	'02.11~	GDB	EJ20
	'00.10~	GDA,GGA	EJ20
			GDB,GGB
	'99.9~	GD/GG9	EJ20
FORESTER	'99.9~	GDA,GGA	EJ20
	'96.9~	GC/GF8	EJ20
	'04.2~	SG9	EJ25
	'02.2~	SG5	EJ20
LEGACY	'98.9~	SF9	EJ25
	'97.2~	SF5	EJ20
	'03.10~	BP9	EJ25
	'03.4~	BP/BL5	EJ20
LEGACY	'03.4~	BPE/BLE	EJ20
	'02.1~	BE/BHE	EJ20
	'01.5~	BE9	EJ25
	'98.12~	BE5	EJ20
'98.6~	BH5	EJ20	
	'98.6~	BH9	EJ25

MAZDA

Vehicle	Model Year	Model	E/G Model
ATENZA	'02.5~	GG3S/3P	L3-VE
		GGES/EP	LF-DE
ATENZA SPORT WAGON	'02.6~	GY3W	L3-VE
		GYEW	LF-DE
CAPELLA WAGON	'01.2~	GW5R	KL-ZE
		GWER	FS-DE
	'97.11~	GW8W	FP-DE
		GW5R	FS-DE
DEMIO	'02.8~	GW5R	KL-ZE
		GWER	FS-DE
	'99.12~	GW8W	FP-DE
		DY5W	ZY-VE
PREMACY ROADSTER	'97.8~	DY3W	ZJ-VE
	'99.12~	DW5W	B5E
	'96.8~	DW3W	B3-ME
	'96.8~	DW5W	B5-ME
MPV	'		