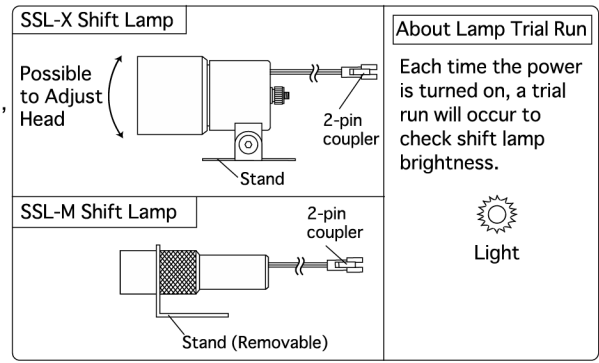


Features

- **Microcomputer Controller**
 - Microcomputer controller gives you one touch control of engine rpm settings.
 - Easy connection to cigarette lighter; auto-detection circuitry system analyzes engine rpm.
 - For more precise settings or for car models for which the auto detection system doesn't work well, you are able to wire to the engine rpm signal.
 - Equipped with a lamp brightness control function.
- **Large Shift Lamp for SSL-X**
 - Cut out aluminum body with Alumite finish.
 - 4 highly luminous LEDs give you brightness in any condition and sure visibility.
 - Can be installed in a variety of places and complete with adjustable head.
- **Compact Sized Lamp for SSL-M**
 - Cut out aluminum body with Alumite finish.
 - Uses highly luminous LED; no need to worry about bulb burnt out.
 - Can be installed in a variety of places with double-sided tape; possible to install into front panel by opening a small hole.



Kit Contents

X and M				X only							
				M only							

When installing the SSL-X Shift Lamp in your car, do not use the fastener that holds it into the package. [How to Unfasten] Remove the fastener by pushing in from the back at the center, as in the diagram at right.

Controller Part Names and Functions

<FRONT>

Shift point Set Switch
Set the rpm at which you wish the shift lamp to light up.

Lamp Brightness Switch
By pressing once, the lamp will come on at the currently set brightness.

Make Brighter
Press the ★SHIFT POINT Switch

While Lit

Make Darker
Press the LAMP Switch

Bright Dark

Upon reaching the desired brightness, stop pressing the switch to complete the setting. The lamp will go off in a short time.

How to Set the Shift Point

- Press the switch for more than 1 second. The lamp will flash (Ready to Set)
- By depressing the accelerator pedal, raise the rpm to the value you wish to set.
- While maintaining that rpm value, press the switch again to set. Flashing will stop (SETTING COMPLETE)
- Try raising and lowering the rpm two or three times and check to make sure that the shift lamp lights up properly.

If the setting doesn't work properly, try steps 1-4 again.

<REAR>

For Cigarette Lighter Connection (Auto Detection System)

For Normal Usage Please use this Installation

Detection Adjustor
Adjust for detecting rpm signal

NOTE
Under normal use with the cigarette lighter connection **DO NOT TOUCH THIS.** For usage see [Troubleshooting].

2-pin Coupler
Connect to the Shift Lamp 2-pin Coupler Cord.

Cigarette Lighter Plug
Connect to get electrical power and the rpm signal by auto detection means. (If white cord is connected, only power will be received.)

When Wiring for RPM Signal

In some model cars and racecars, due to characteristics of the alternator, the auto detection system may not operate properly causing the lamps to function irregularly. If this occurs, please change the switch as shown below and follow instructions for Wiring for the RPM Signal.

RPM Signal Switch
Move depending on how you are wired to get rpm signal.

- ◆ If wired to get rpm signal, should be to RIGHT
- ◆ If using Auto Detection System, should be to LEFT

White Cord (Wiring for RPM Signal)
Remove tube from tip, connect to white extension cord, and connect to your engine computer's rpm signal (TA).

WARNING: If this switch is moved, make sure to turn on the power again when finished.

How to use the Wire Connectors

※ If soldering is possible, please do so.

Method 1 Connecting a new wire to the middle of another wire

- Peel off about 10mm of the vinyl cover at connection point.
- Peel off about 10 mm of the vinyl cover at the end of the wire to be connected.
- Twist the uncovered wires.
- Close tightly with wire connector.

Method 2 Connecting two wires at their ends.

- Peel off about 10 mm of the vinyl covers at the end of the wires to be connected.
- Twist the uncovered wires.
- Close tightly with wire connector.

※ Use a crushing tool to press the wire connector. If you do not have such a tool, use pliers or such to fold and crush the connector together for a secure contact.

※ Loose connections can cause wire to come apart, so please make sure the connection is secure.

Be sure to insulate and secure with vinyl electrical tape.

WIRING and INSTALLATION

For Cigarette Lighter Connection (Auto Detection System)

Under normal conditions this installation type will operate smoothly, but in some of the following cases it is advisable to wire separately for the rpm signal to obtain a more precise and stable reading.

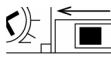
Cause= Not a product malfunction, but due to car specific characteristics the auto-detection system is unstable, as in the following cases:

1. If there is a significant gap in operations between when using and not using the air-conditioner, fan, or lights.
2. If, even after moving the detection adjustor unstable operation continues.

1. Pull out the cigarette lighter plug and remove any dirt or dust from the socket.
2. Insert the controller cigarette lighter plug, making sure it is securely and fully inserted.

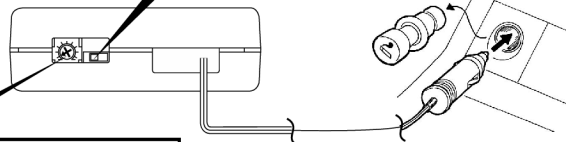
→ **INSTALLATION COMPLETE**

Make sure the RPM Signal Switch is to the LEFT.



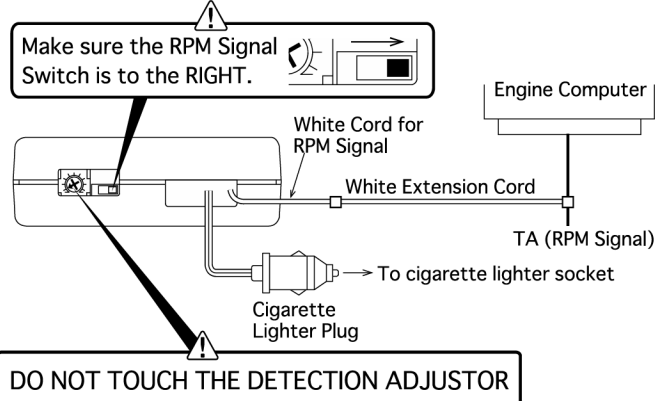
About the Detection Adjustor

It is not necessary to touch this under normal operating conditions.



When Wiring for RPM Signal

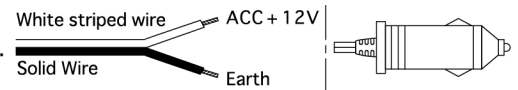
1. Remove the protective tube from the tip of the white cord and connect it to the white extension cord.
2. Connect the end of the white extension cord to your engine computer's rpm signal (TA). For details about the location see: [Rpm Signal Wring Table by Engine Computer Type]
3. Clean out the cigarette lighter socket, and securely insert the controller cigarette lighter plug.



When Not Using the Cigarette Lighter Plug

If you are not using the cigarette lighter plug, but are wiring directly please follow these directions.

- ① Cut the cigarette lighter plug cord.
- ② Connect the white striped wire to the ACC +12V.
- ③ Connect the solid wire to body earth.

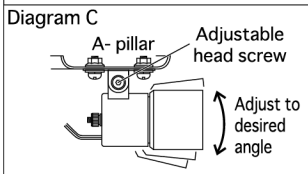
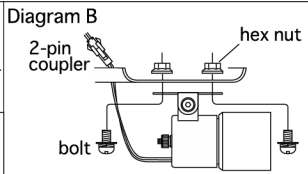
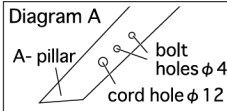


Shift Lamp for SSL-X

1 Installing to the A-pillar.

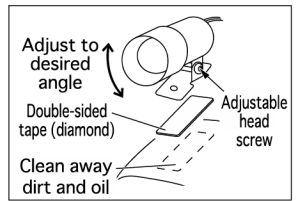
- ① Choose the location for installation.
- ② Take off the A-pillar.
- ③ Open two holes for the bolts and one hole for the cord. (see diagram A).
- ④ Insert the bolts through the holes and fasten with the hex nuts.
- ⑤ Pull the 2-pin coupler cord through the hole.
- ⑥ Connect the 2-pin cord to the controller (see diagram B).
- ⑦ Re-attach the A-pillar.
- ⑧ Loosen the adjustable head screw and adjust to desired angle.
- ⑨ Tighten the adjustable head screw and fasten the shift lamp. (see diagram C).

NOTE
When installing to the A-pillar, use either the bolt and nut or the tapping screws for fastening the unit. Do not use the double-sided tape to fasten the unit.



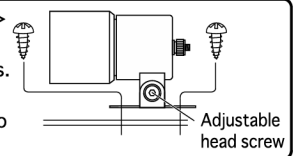
2 Installing onto the Steering Column / Dashboard Hood

- ① Attach the double-sided tape to the bottom of the stand.
- ② Clean away all dirt and oil from the installation location.
- ③ Attach the Shift lamp to the location.
- ④ Loosen the adjustable head screw and adjust to desired angle.
- ⑤ Tighten the adjustable head screw to fasten the shift lamp.



<Using the tapping screws to install>

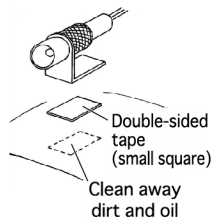
- ① Loosen the adjustable head screw.
- ② Securely screw in the tapping screws.
- ③ Adjust head to desired angle.
- ④ Tighten the adjustable head screw to fasten the shift lamp.



Shift Lamp for SSL-M

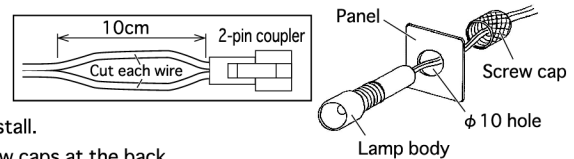
1 Installing the Stand

- ① Attach the double-sided tape to the bottom of the lamp stand.
- ② Clean away all dirt and oil from the installation location.
- ③ Attach the Shift lamp to the location.



2 Installing into Front Panel

- ① For a length of about 10 cm from the base, separate the 2-pin coupler cord into two wires (as in diagram at right).
- ② Cut each wire in the middle.
- ③ Loosen the screw caps and take off the stand.
- ④ Open a $\phi 10$ hole in the panel where you wish to install.
- ⑤ Insert lamp body through hole and tighten the screw caps at the back.
- ⑥ Securely re-connect the 2-pin coupler wires (white lines to white lines / solid to solid) and insulate properly.



Troubleshooting

Please read this before asking for repair.

TROUBLE	POSSIBLE	CAUSES POSSIBLE SOLUTIONS
Shift Lamp doesn't light or flash.	•The detection adjustor at <rear> of controller is turned to the right	•Turn adjustor all the way to the left.
	•The RPM Signal Switch is to the right when the actual connection is for the cigarette lighter (Auto-Detection).	•Move the RPM Signal Switch to the left side and turn on the power again.
	•The white extension cord is not connected properly.	•Check the connection points and conditions.
Noticeable gap in operations between when using and not using the air-conditioner, fan, or lights.	•Auto-detection system is unstable due to car characteristics.	
When using air conditioner or such device, the lamps come on at a lower rpm than the one you set.	•Auto-detection system is unstable due to car characteristics.	Turn the Detection Adjustor from the far left slowly to the right until you reach a stable position.
	•Unstable operation. •Unstable operation at low rpm.	•Auto-detection system is unstable due to car characteristics. •Try turning the Detection Adjustor. •Try making setting above 3000 rpm.

Note

In some cases, turning the Detection Adjustor too far to the right will cause the failure of the lamp to operate at the settings made. →Make the shift point settings again.



If the controller has been installed using the cigarette lighter only, and after trying these solutions nothing improves, please reinstall following the directions for

Wiring for RPM Signal

as above.