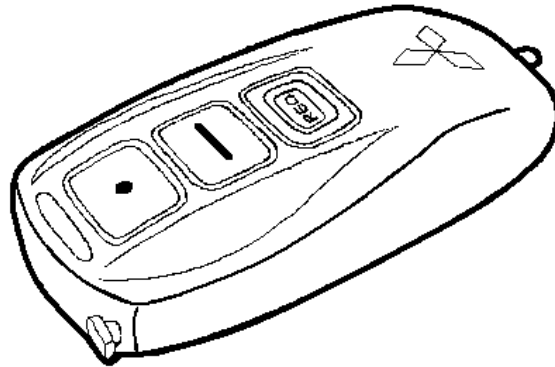


# Remote Control Engine Starter System Owner's Manual



## Introduction

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Congratulations on your purchase of the MITSUBISHI MOTORS Remote Control Engine Starter System. This system will provide you with convenience and assistance, making each drive a delightful experience.

To take full advantage of your MITSUBISHI MOTORS Remote Control Engine Starter System please read this manual thoroughly.

Keep this manual handy for easy reference.

### **⚠ DANGER**



MITSUBISHI MOTORS Remote Control Engine Starter System is only for Automatic transmission cars.

DO NOT install MITSUBISHI MOTORS Remote Control Engine Starter System in Manual transmission cars.

# 1. Introduction

## Safety Messages

●The following symbols are used in this manual.

 **DANGER**  **WARNING** are extremely important. The instructions following these symbols must be read thoroughly and followed accordingly.



The instructions following this symbol must be followed for safety. Failure to do so will result in death or serious injury.



The instructions following this symbol must be followed for safety. Failure to do so can result in injury and/or property damage.



Helpful advice and instructions to be followed in using the product.

●Failure to handle the product according to the instructions given here may not only damage the product but may also damage your car.

●MITSUBISHI MOTORS is not responsible for damages resulting from handling of the product not complying with the instructions given here.

## Precautions

●Some communities may have restrictions on the use of remote starters. Before using your remote control engine starter system, please check all local laws and regulations. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### ●FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

●This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

●Do not peel off the label on the Transmitter.

●Consult your dealer for the installation of the remote control engine starter system.

## 2. Features of the System

●The remote control engine starter system consists of a Transmitter that allows you to start and stop the engine from outside of the vehicle without using the car keys. ← P. 6

However, as precaution measures, the Transmitter will not start the engine unless all of the following conditions are satisfied:

- ①The gearshift lever is in the “P” (Parking) position.
- ②All the doors are closed securely. (cars may include tail gates and spare tire carriers, depending on a model.)
- ③The engine hood is closed securely.
- ④The car key is removed from the ignition switch. (Or, the ignition switch has not been operated in cars with a keyless entry system.)

The engine automatically stops when any one of the above conditions is not satisfied or the gas pedal is stepped on after the engine starts.

●After the remote control engine starter system starts the engine, the engine may be stopped by remote control. The engine stops automatically when a fixed time passes. ← P. 7

●The engine may not start when the outside temperature is too low or depending on the battery condition. If the engine does not start on the first try, it will automatically try again a second time. If the second try fails, the engine will automatically stop.

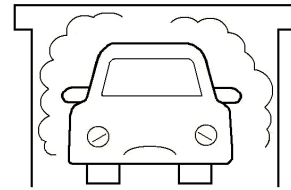
●If the car is not used for two weeks, functions will stop to save the car batteries. The engine will not start with the Transmitter, To re activate the Transmitter; turn the ignition switch of the car to the “ACC” position. The remote control can be used again after two seconds.

●Use only one Transmitter for one vehicle as a safety precaution.  
Do not register two Transmitters or more.

### 3. Safety Precaution

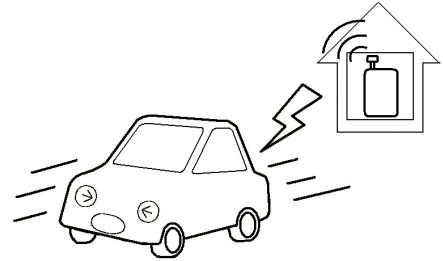
#### **⚠ DANGER**

Do not start your engine in a closed garage or other area with poor ventilation. Exhaust fumes can cause poisoning and cause unconsciousness and even death.



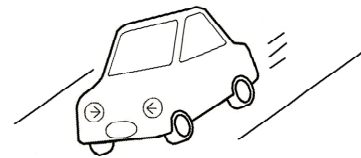
#### **⚠ DANGER**

Electric waves from the transmitter can carry very far depending on the surrounding circumstances. Do not operate the switches on the transmitter unnecessarily. To prevent an accident caused by accidental start of the engine, be sure to operate the remote control car starter system in an area where you can check the safety around the car.



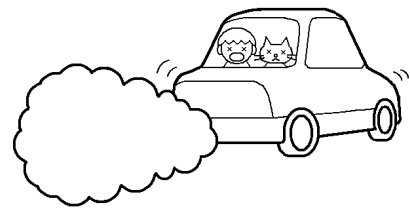
#### **⚠ DANGER**

Do not remotely start the engine when parked on a hillside. The vibrating engine may start the car unintentionally and cause an accident.



#### **⚠ DANGER**

Do not remotely start the engine when children and pets are in the car to prevent accidents from occurring. Starting the engine with the Transmitter is the same as switching the ignition in the "ON" position.



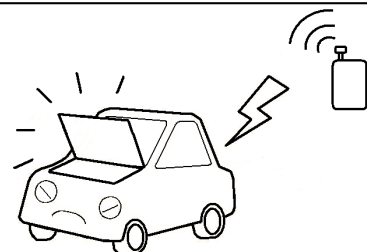
#### **⚠ WARNING**

Checking your car immediately after warming up the engine is dangerous and may cause burns.



#### **⚠ WARNING**

Do not operate the Transmitter when the engine hood is open. The engine may start and cause an accident if the switch detecting opening and shutting is pushed by mistake.



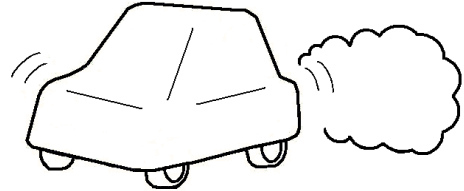
**⚠ WARNING**

Do not start the engine near flammable material, such as grass. It can cause fire.



**⚠ WARNING**

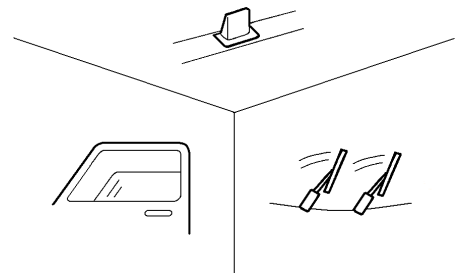
Do not start the engine without removing the body cover from the car. It can cause fire.



**⚠ WARNING**

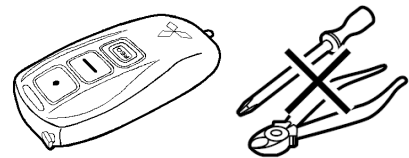
To prevent accidents during engine warm up, when parking make sure that:

- the wiper switch and wipers are turned OFF. Wipers moving when the engine is started may be dangerous. The motor may be damaged if the wiper has frozen.
- windows are closed.
- doors are locked.



**⚠ WARNING**

Do not disassemble or remodel the Transmitter. Do not use the Transmitter other than for its intended use. Such uses are not included in the warranty.



**⚠ WARNING**

Store the transmitter in a safe place out of reach of children. There is danger of batteries being swallowed or the antenna pricking the eyes.



**⚠ WARNING**

Do not wet the Transmitter with water. It can cause the transmitter to malfunction.



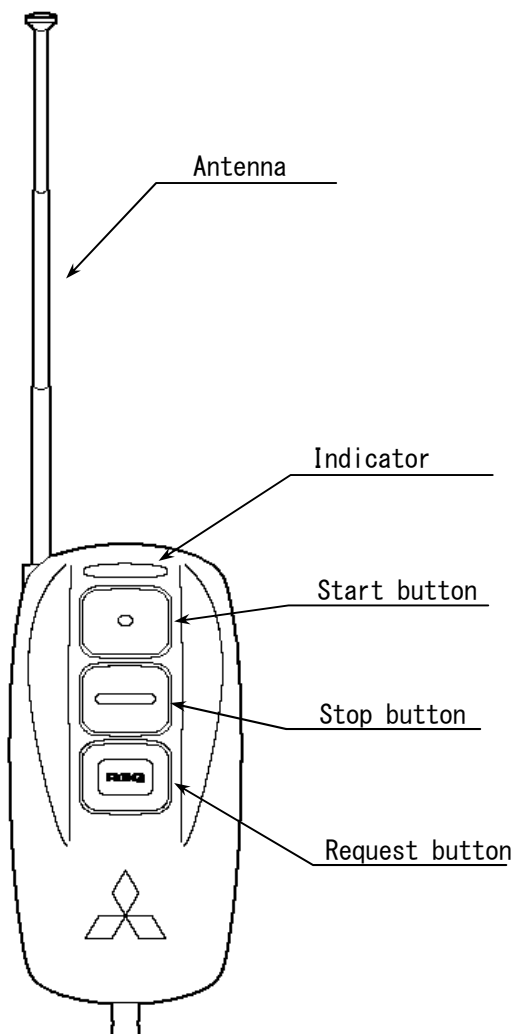
## 4. Operating the Transmitter

Electric waves from the transmitter can carry very far depending on the surrounding circumstances. To prevent an accident caused by accidental start of the engine, be sure to operate the remote control car starter system in an area where you can check the surroundings of your car.

Before you start the engine

- Check your car so that it satisfies all conditions listed on page 8.

### Starting the engine.



#### When operating the Transmitter:

- Fully extend the antenna,
- Generally, the electric waves reach farther when the antenna is put up vertically.
- Touching the antenna with hands, etc., may interfere with the electric wave transmission.

#### Operation of the Transmitter

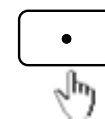
**1** Push the request button.



**2** Let go of the request button when the indicator blinks.



**3** Push the start button while the indicator is blinking (about 2 seconds).



→ The blinking indicator will change to a continuous light (about 3 seconds), and the engine-starting signal will be transmitted.

**4** The engine starts.  
→ If the engine does not start, the system will automatically go through the starting process twice.

- The engine stops automatically after a certain period of time has passed after starting the engine.

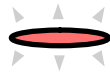
## Stopping the engine.

### Operation of the Transmitter

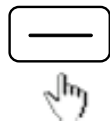
**1** Push the request button



**2** Let go of the request button when the indicator blinks.



**3** Push the stop button while the indicator is blinking (about 2 seconds).



→ The blinking indicator will change to a continuous light (about 3 seconds), and the engine-stopping signal will be transmitted

**4** The engine stops.



### ADVICE

- Note that when starting the engine, factors such as cars having noisy fan motors or other wireless devices may affect the Transmitter and reduce the operation range.
- Wait for two seconds or more after the indicator lamp goes out before pushing the switch again for repeated starting or stopping of the engine. Two seconds or more must pass before the next wireless transmission.
- The engine will automatically stop within approx. 10 minutes after starting the engine with the transmitter if the engine is not stopped.  
The time for automatically stopping may shorten when the engine is repeatedly started and stopped by the remote control.
- The engine cannot be stopped with the Transmitter if the engine has been started with the ignition switch.

## 5. Setting the idling time

Consult your dealer for setting the idling time.

The idling time can be set for 5 minutes, 10 minutes, 20 minutes or 30 minutes.

Initial setting (at factory before shipping) is ten minutes.

## 6. Before Leaving Your Car

Always confirm that the following engine starting conditions 1-4 are satisfied before using the remote control engine starter. As a precaution measure, the engine will not start if any one of the conditions 1-4 is not satisfied.

1-The gearshift lever is in the “P” (Parking) position.

2-All the doors are closed securely.

(some cars may include tail gates and spare carrier tires, depending on a model.)

3-The engine hood is closed securely.

4-The car key is removed from the ignition switch. (Or, the ignition switch has not been operated in cars with a keyless entry system.)

### **WARNING**

To prevent unexpected accidents from occurring during engine warm-up, before leaving your car, make sure that:

- the wiper switch and wipers are turned OFF.
- windows are closed
- doors are locked



## 7. Care and handling

To prevent system breakdown and accidents

### **⚠ WARNING**

- Store the transmitter out of reach of children. If your transmitter is ever lost or malfunctioning, contact your dealer at once.
- In case you lend your car and keys to a third party, do not include your Transmitter for preventing accidents.

- Do not leave the Transmitter in places of high temperature (60°C or more) such as the dashboard etc.
- Do not drop, throw, or step on the Transmitter.
- Do not apply strong tension or stress on the antenna.
- Do not use or store the Transmitter where water will directly wet it.  
It can cause the transmitter to malfunction.
- Do not disassemble or remodel the Transmitter

### **◇ Taking care of your Transmitter**

Wipe the Transmitter with a soft cloth dampened with neutral detergent and water solution, then wipe it with a dry cloth to clean. (Do not use solvents such as benzene and thinner.)

### **◇ Storing the Transmitter**

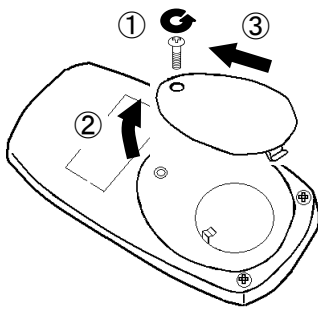
Remove the batteries from the Transmitter.

# 8. Transmitter Battery Replacement

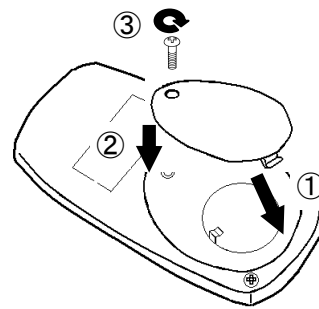
Replace old batteries for new ones according to the following procedures:

## Battery Replacement

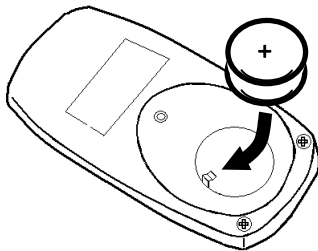
- 1** ① Remove the screw in the battery cover using a plus driver.  
② Lift the front side of the cover.  
③ Remove the cover. Be careful of the tab.



- 3** Close the battery cover according to steps ① to ③.



- 2** Insert two new batteries (coin type lithium batteries GR2032 × 2) with the positive (+) mark facing upward.



### **ADVICE**

Wipe the batteries well with a dry cloth before use to prevent poor contact of the batteries.

### **WARNING**

- Store the batteries out of reach of children especially. If a child accidentally swallows it, give him/her medical treatment immediately.
- Do not hold batteries with metallic tools, such as tweezers. It can short-circuit the batteries and may generate heat.
- Do not disassemble, heat or throw the removed batteries in fire. This may cause explosion, etc.

# 9. Troubleshooting

Check the following symptoms to diagnose problems with the Remote Control Engine Starter System before consulting your dealer.

**Engine does not start by operating the transmitter.**

**【The indicator of the Transmitter does not light up】**

Check	Remedy
Is a transmission repeated directly one after another?	The next transmission cannot be made for two seconds after the indicator goes off. Wait for two seconds or more before the next operation.
Is the battery correctly set?	Place batteries in correctly. See 'Transmitter Battery Replacement'.
Are the batteries discharged?	Replace the batteries with the new ones.

**【The indicator of the Transmitter lights up】**

Are the requirements on page 6 met?	Meet all requirements.
Is the antenna of the Transmitter extended enough?	Fully extend the antenna.
Is the distance to the car too faraway?	Use the Transmitter closer to the car.
Has the car been parked for two weeks or more?	Turn the ignition switch to the "ACC" position. After two second, the remote function may be used.

**The engine does not stop by the Transmitter.**

Is the antenna of the Transmitter extended enough?	Fully extend the antenna.
Is the distance to the car too faraway?	Use the Transmitter closer to the car.

**The operation distance is short.**

Is the antenna of the Transmitter extended enough?	Fully extend the antenna.
Are the batteries discharged?	Replace the batteries with the new ones.

\* The remote control range may change by the neighborhood, surrounding circumstances and the electric wave noise, etc. such as in TV towers, power plants, railways, and broadcasting stations, etc.

**If the above remedies do not solve your problems, consult your dealer.**

# 10. Specifications

Transmitter	
Communication frequency	426.0500MHz
Communication method	uni-directional (transmission.)
Application standard	FCC conforming
Transmission time	approximately 3 seconds
Transmission rest time	Two seconds or more
Transmission antenna	Built-in rod antenna
batteries	Coin type lithium battery CR2016 (2 pieces)
Battery life	One year or more (use during twice/day)
case sizes	70.0*×35.0*×14.4mm
Weight	Approximately 30g

Main Unit (Receiver)	
Communication frequency	426.0500MHz
Communication method	uni-directional (receiving)
Transmission antenna	Coaxial cable whip antenna
Operation power-supply voltage	DC10V~16V
Current consumption at standby	10mA or less (3mA or less at sleep mode)
Size of case	130.0*×93.0*×28.0mm
Weight	Approximately 200g

Control Unit ※	
Communication frequency	315MHz
Communication method	uni-directional communication
Application standard	FCC conforming
Transmission time	approximately. 1.1 seconds
Transmission antenna	Built-in antenna
Operation power-supply voltage	DC10V~16V
Current consumption at standby	1mA or less
Size of case	63.1×39×29mm
Weight	Approximately 35g

※ : may not be equipped according to the vehicle.