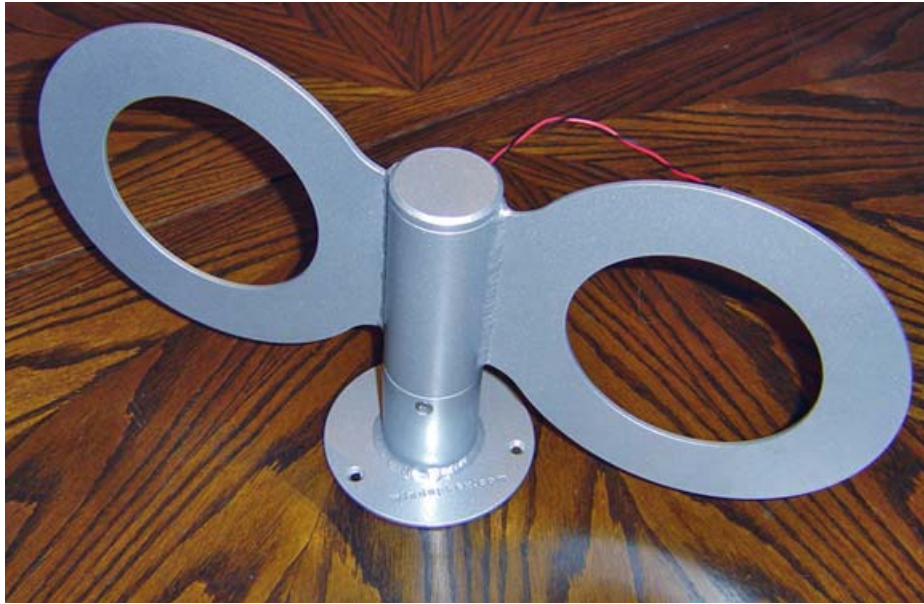


# GENERIC WINDUP KEY

## INSTALLATION INSTRUCTIONS



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WindupKey  
4050 W. Ray Road, Suite 17-199  
Chandler, AZ 85226  
602-618-9637

[www.windupkey.com](http://www.windupkey.com)

## 1.0 GENERAL CONSIDERATIONS

The Generic Windup Key is a motorized key for mounting on a variety of vehicles. The exact mounting is left to the user to determine using the following guidelines:

- Avoid locations which might obscure the driver's view of the road.
- Avoid locations on flat vertical surfaces where persons might walk into the key while the vehicle is parked.
- Avoid flat horizontal surfaces exposed to the front of the vehicle if the key is to be operated while driving at speeds over 40 mph.
- Do not mount to glass surfaces.
- Determine a 12-volt power source which is fused and can be turned on/off when the ignition key is removed.

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### CAUTION

DO NOT attempt to connect power to the windup key while holding it in your hands. The motor is quite strong and can pinch your fingers or cause other injury or damage. Only power up when properly mounted to a solid surface.

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## 2.0 INSTALL METHOD

The Generic Windup Key has a base with several equally spaced holes.

1. The user can use the base as a hole pattern to drill the holes in the mounting surface as desired. At least one hole should be towards the top or towards the front of the vehicle.

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### NOTE

BE CAREFUL WHEN DRILLING HOLES INTO BODY PANELS. There may be electrical wires, hoses or other critical items behind the panel. It is best to be able to see both sides of the panel before drilling.

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2. A center hole of 5/16-inch diameter is required for the wires to pass through the mounting surface. This hole should be insulated with the supplied rubber grommet if the hole is drilled through a metal surface.
3. The rubber gasket included is recommended under the base to prevent scratches to painted surfaces and give a water seal. Be sure to drill holes in the base without the seal in place so that you do not imbed metal chips into the seal surface. After drilling the base, then match the holes to the rubber gasket.
4. After passing the wires through the rubber gasket and the center hole drilled in (2) above, position the gasket to match the holes.

5. Install one flat headscrew through the windup key base, the rubber gasket and then the vehicle chassis.
6. Using someone to help with the assembly, place a washer and then the 1/4-inch washer on the screw and finally lightly attach a nylon locking nut.
7. Repeat steps (5-6) for the other screws.
8. Using someone to help, tighten the screws into their locking nuts. The simplest method is to hold the head of the screw with an Allen wrench and turn the nut with a socket wrench. As you tighten the nuts watch out that the gasket stays aligned properly to the base.

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#### NOTE

DO NOT OVER TIGHTEN NUTS. If you tighten them too tight you will squeeze out the nylon washers and scratch the base. Also high pressure may distort the body panel that you are mounting it on, if that body panel has any curvature in it. The nuts only need to be snug enough to keep the base from sliding around on the body panel.

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9. Route the wires to the selected power source using good practice to avoid pinched wires or hot surfaces. The red wire is connected to a positive source which is fused and the black wire is connected to a negative source. With this connection scheme the key will turn in a counter-clockwise direction (unwinding). If you want rotation in the other direction switch the polarity of the wires. Some terminals or eyelets and cable ties are included, if needed. Any switch, fuse or extra wire should be supplied by the user.

### 3.0 CHECKS

After windup key is installed check for free clearance around the key and connect power to see the key spin!

If the key does not turn, but makes a whirring sound, check for mechanical obstruction or binding near the base of the key shaft. If no whirring is heard, then check the wiring and supply circuit for 12V.

#### 4.0 SPECIFICATIONS

Overall Width:	18.0-18.5 inches (46-47 cm) depending on key tab style
Overall Height:	8.5-9.0 inches (22-23 cm) depending on key tab style
Base Mount:	4.25 or 4.75 inches (11 or 12 cm) round base, drilled
Material:	T6061 High Strength Aluminum
Assembly:	Welded key tabs and shaft base Tamper Proof Mounting Screws
Speed:	approx 30 RPM Counter-Clockwise Rotation (red wire to positive voltage)
Drive:	DC Brush Motor, reversible 12V, 0.2A nominal Internal gearbox Internal automatic resettable fuse
Weight:	4 pounds (1.8 kg)