



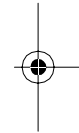
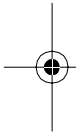
Cat. No. 49-851

## OWNER'S MANUAL

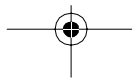
Please read before using this equipment.

# TD-1500

## Auto Theft Deterrent System



**RadioShack™**



## INTRODUCTION

The TD-1500 Auto Theft Deterrent System is a starter disable module that helps prevent auto theft or unauthorized vehicle use. It quickly connects to your vehicle's ignition system, and has an easy-to-use remote for arming and disarming. The armed indicator shows when the system is on, to deter would-be thieves from attempting to break in.

## BEFORE YOU BEGIN

It is important that you know where to find constant power, vehicle ground, and the starter wire under the dashboard of your vehicle. To help you find this, we recommend you get the wire color information from your vehicle's dealer, in the vehicle's service manual, or by calling the Auto Security Helpline at 1-800-598-2527.

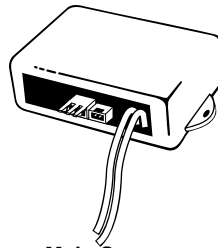
You also need the following items:

- 12-volt test light or DC voltmeter
- Wire-piercing probe adapter (such as RadioShack Cat. No. 278-715)
- Several extra wire tap-in connectors

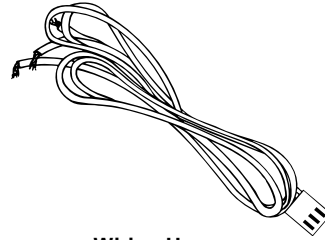
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## **INCLUDED ITEMS**

Your TD-1500 includes the following items. Be sure you have all items before you begin installation.



**Main System**



**Wiring Harness**



**Two-Button Remote**



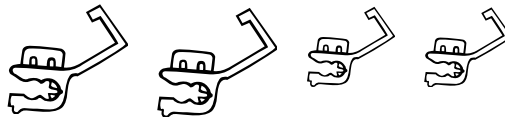
**Status Indicator with Bracket and Harness**



**Double-Sided Tape**



**Wire Ties**



**Wire Tap-In Connectors**

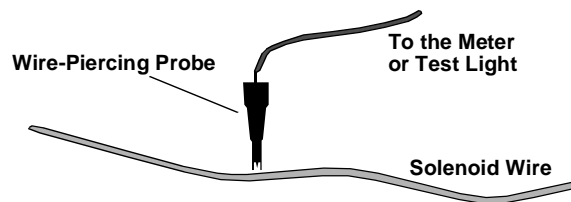
## **INSTALLING THE SYSTEM**

As you install the system, see the "Wiring Diagram" on Page 11.

### **CONNECTING TO THE STARTER WIRES**

The starter wire connects the ignition switch to the starter solenoid. Follow these steps to find this wire.

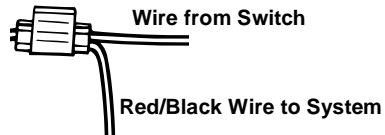
1. Using the starter solenoid's color coded wires as a guide, locate the wire that goes from your vehicle's ignition (key) switch to the solenoid. This wire is usually found under the dashboard where the wires connect to the ignition switch. If you are unsure which is the correct wire, call the Auto Security Helpline at 1-800-598-2527.
2. Connect the negative (usually black) lead from a 12-volt test light or DC voltmeter to a metal vehicle body part.
3. Connect a wire-piercing probe (Cat. No. 278-715) to the positive lead and press the pin tip through the solenoid wire's insulation and into the wire itself.



4. Start your vehicle. The test light should light or the meter should indicate voltage **only while the engine is cranking** (not while it is stopped or running).
5. If the test fails, contact the Auto Security Helpline at 1-800-598-2527 for assistance in finding the correct wire.
6. Turn off the engine. Then cut the wire you located in Steps 2–4 at a point where there are several inches of wire on each side of the cut.

**Note:** If you cut the correct wire, you will not be able to start your vehicle until you complete installation.

7. Try to start your vehicle. The engine should not crank.  
If it does crank, you cut an incorrect wire — use a wire tap-in to restore the connection.
8. Snap a yellow tap-in's grooved channel over the wire going to the back of the ignition switch. Then push the system's red/black wire into the other channel.
9. Use pliers to squeeze the metal tap down through the wires. Then snap the tap-in's plastic cover closed.



10. Repeat Steps 8 and 9 for the wire going to the starter solenoid (the other end of the cut wire) and the system's white wire.
11. Use the supplied large wire tie to resecure all loose wires.

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## CONNECTING TO POWER

1. Touch the negative lead from a 12-volt test light or DC voltmeter to a metal part of your vehicle and use the positive lead (with a wire-piercing probe adapter) to probe for an existing wire that has 12 volts when your vehicle's ignition is off.
2. Use one of the supplied wire tap-ins to connect the system's red wire to the wire you located in Step 1, then replace the fuse.
3. Connect the system's black wire to a metal vehicle part, using an existing bolt or screw.
4. Plug the power harness' three-pin connector into the system with the antenna lead to the left (see "Wiring Diagram" on Page 11).
5. Immediately press **DISARM** on the remote transmitter. This trains the system to recognize the remote.

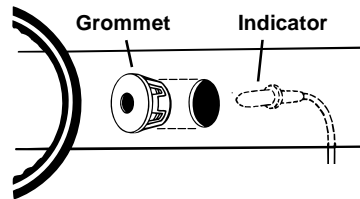
## INSTALLING THE STATUS INDICATOR

Select a highly visible location for the indicator. You can use the supplied bracket to stick the indicator on your dashboard or drill a hole in the dash's front panel and insert the indicator. Follow these steps to install it.

1. Plug the indicator's two-wire connector into the two-wire jack on the system.

2. **If you are using the supplied bracket**, clean the mounting surface with denatured alcohol and allow it to dry. Peel the backing off of one side of the double-sided tape and press it onto the bottom of the bracket. Then peel off the adhesive backing from the other side of the tape and press the bracket onto the dash.

**If you are mounting the indicator in the dash's front panel**, drill a  $\frac{5}{16}$ -inch hole at the selected location, taking care not to damage anything behind the surface.



3. Push the supplied snap-in grommet into the mounting surface's hole from the front of the mounting surface (bracket or dash panel).
4. From the back of the mounting surface, push the indicator into the grommet until it snaps into place.

## MOUNTING THE SYSTEM

Use the two supplied small wire ties to secure the system under the dash. Secure all loose wires except the yellow antenna wire. Allow the antenna wire to hang down.

## USING THE SYSTEM

### ACTIVATING THE REMOTE CONTROL

You must train the system to respond to the supplied remote control. To activate the remote control, immediately after applying power, press **DISARM** on the remote. The system beeps twice.

If the system loses power, the system stops responding to the remote. To reactivate it, simply press **DISARM** on the remote after power is restored.

Your system can learn two remote codes if you want to add a second remote control (RadioShack Cat. No. 49-845). To activate a second remote control code, be sure the system is disarmed, then hold down **ARM** for 10 seconds. The status indicator flashes. Press **DISARM** on the new remote to activate it. The status indicator stops flashing.

### ARMING AND DISARMING THE STARTER

To disable your starter, press **ARM** on the remote control. The indicator flashes rapidly. If you try to start your vehicle, the engine does not crank.

To enable the starter, press **DISARM** on the remote control. The indicator turns off. The vehicle now starts as usual.



## **CARE AND MAINTENANCE**

To enjoy your starter kill module for a long time:

- Keep the module dry. If it gets wet, wipe it dry immediately.
- Handle the module gently and carefully. Don't drop it.

Modifying or tampering with the starter kill module's internal components can cause a malfunction and invalidate its warranty. If your starter kill module is not performing as it should, take it to your local RadioShack store for assistance.

## **REPLACING THE REMOTE CONTROL'S BATTERY**

If your remote control stops working or if its range is reduced, replace its battery. Follow these steps to replace the battery.

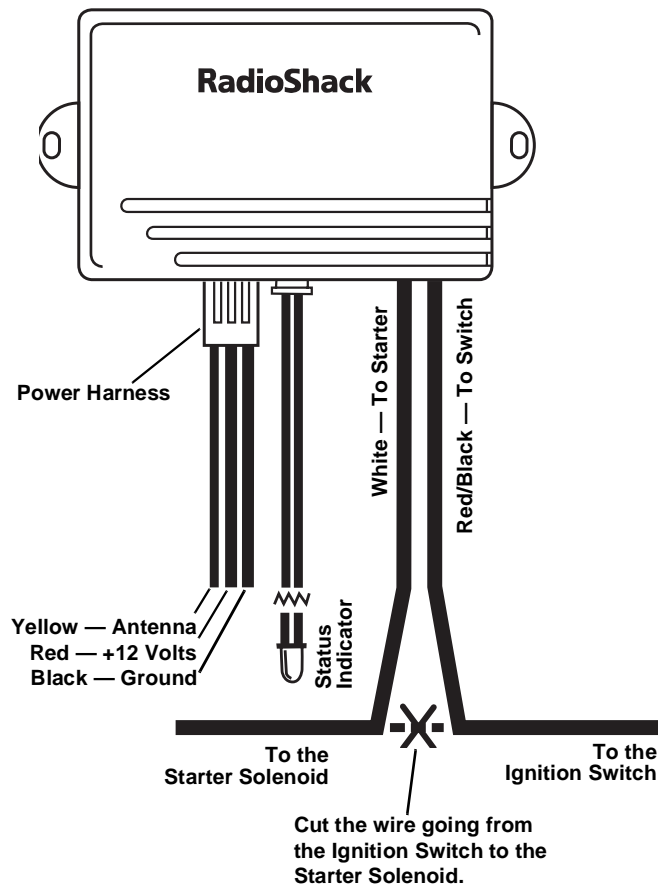
1. Snap apart the case halves, taking care not to lose any of the remote control's pieces.
2. Remove the old battery and replace it with a 12-volt remote control battery (Cat. No. 23-144).
3. Put all parts back in place and snap the case halves back together.

If you lose your remote control, you can get a replacement at your local RadioShack store. The four-button remote (Cat. No. 49-845) also controls this system — just use the top two buttons.

## **SPECIFICATIONS**

System Power .....	9–16 Volts DC
Current Draw .....	22 mA (Disarmed) Pulsed 40 mA (Armed)
Maximum Switched Current .....	30 Amps
Remote Control Battery .....	12 Volt
Size (HWD) .....	$3\frac{3}{8} \times 2\frac{3}{8} \times 1\frac{1}{8}$ Inches (System) $2\frac{11}{16} \times 1\frac{5}{16} \times \frac{1}{2}$ Inches (Remote)
Weight .....	2.8 ounces (System Without Harness) 0.9 Ounces (Remote)
RF Carrier .....	303.875 MHz
RF Power Output .....	5,580 $\mu$ V at 1 Meter

## WIRING DIAGRAM



### RadioShack Limited Warranty

This security product is warranted against manufacturing defects in material and workmanship for ninety (90) days from the date of purchase from RadioShack company owned stores and authorized RadioShack franchisees and dealers. Within this period RadioShack will repair the security product without charge for parts and labor. Simply **bring your RadioShack sales slip** as proof-of-purchase date to any RadioShack store.

This warranty does not cover damage or failure caused by or attributable to Acts of God, abuse, misuse, improper or abnormal usage, faulty installation, improper maintenance, lightning or other incidence of excess voltage, or any repairs other than those provided by a RadioShack Authorized Service Facility, or transportation costs. **RadioShack is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use or performance of the product or other damages with respect to loss of property, loss of revenues or profit, or costs of removal, installation or reinstallation.**

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This warranty gives you specific legal rights and you may have other rights which vary from state to state.

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**Fort Worth, Texas 76102**

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