

516U Universal Voice Module

about this unit

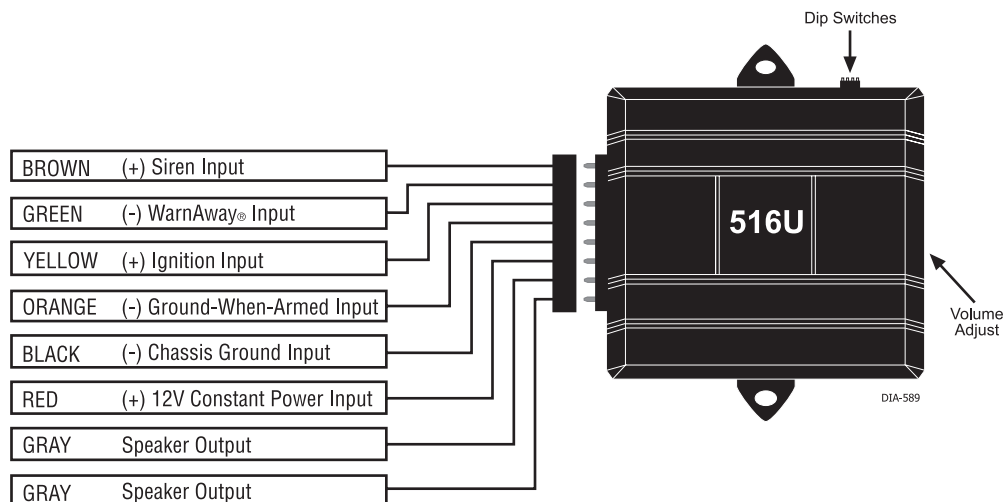
The 516U is designed to add voice response to security systems that have a ground-when-armed output. The 516U is a universal voice add-on. It can be programmed to generate voices in English or Spanish as well as generic or Viper®-specific messages. The 516U can also read the siren output of most Directed systems and

will follow the Silent Mode protocol. If desired, the unit can be used to generate the WarnAway® message only.

what is included

- Voice Module
- Speaker
- Main Harness

wiring diagram



wire connection guide

- **BROWN (+) siren input:** If using a Directed system, connect this wire to the BROWN siren output of the security system.
- **GREEN (-) WarnAway® trigger input:** Connect this wire to the first stage output of Directed dual-stage sensors.
- **YELLOW (+) ignition input:** Connect to a wire that shows voltage when the key is in the run and crank positions. Connect into the ignition input wire of the security system if more convenient.
- **ORANGE (-) armed input:** Connect to the ground-when-armed output of the security system.
- **BLACK (-) chassis ground input:** Connect to a paint-free

part of the vehicle's chassis. When possible, use a factory bolt that is not being used as a ground for any vehicle accessories.

- **RED (+) 12V constant power input:** Before connecting this wire, be sure to remove the 5 amp fuse. Connect to the positive battery terminal or another constant power source.

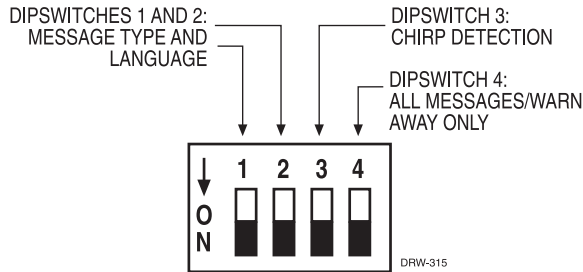
NOTE: Always insert a fuse within 12 inches of where you obtain power.

- **GRAY (2) speaker outputs:** Connect these wires to the speaker provided with the system. Polarity does not matter. If these wires short to ground, the 516U will be damaged.

NOTE: When adding more than one accessory to the average ground when armed output, the two accessories must be diode isolated.

internal programming

The 516U has selectable dipswitch settings for programming the system's features. The four dipswitches are located on the side of the unit. To select a system feature setting, simply move the dipswitch in the direction of the arrow for the ON setting, or in the opposite direction for the OFF setting:



Dipswitches 1 and 2: Dipswitches 1 and 2 are used to program the 516U for the desired language. They also select the "Viper" or generic messages.

DIPSWITCH 1	DIPSWITCH 2	MESSAGE
Off	Off	English Viper
On	Off	Spanish Viper
Off	On	SP System
On	On	ENG System

Dipswitch 3: Dipswitch 3 is used to program the 516U to read the H1/1 BROWN siren input. In the ON setting, the 516U will monitor the H1/1 BROWN siren input as well as the H1/4 ORANGE armed input. In the OFF setting, the 516U will ignore the H1/1 BROWN siren input and will only monitor the H1/4 ORANGE armed input.

Dipswitch 4: Dipswitch 4 programs which messages the 516U will generate. In the ON position, all messages are generated. In the OFF position, only the Warn Away message will be generated.

operation

The 516U is a universal module that can be used in many ways. Some of the most common applications are described below. Each of the applications involve connecting certain inputs of the 516U, as well as programming the module using Switches 3 and 4. In all cases it is assumed that the voice language and type have already been programmed.

Directed Security System With External Shock Sensor

This interface will take advantage of all the 516U features. During normal operation, the security system will still generate all the standard chirp confirmation for arm and disarm. The chirp(s) will be followed by the armed/disarmed message. If Silent Mode is used, since the chirp is disabled, no armed/disarmed message is generated. When the system has been triggered, four chirps are generated on disarm and the 516U will generate a violation message. If the GREEN WarnAway® input is connected, the WarnAway® message will be generated whenever the system is armed and an input is detected on the (-) WarnAway® input wire. The WarnAway® message can be generated without any connections to the GREEN wire if the system features WarnAway®. the 516U will detect the WarnAway® chirps on the BROWN wire and generate the WarnAway® message immediately after the chirps.

Connect the ORANGE wire of the 516U to the ORANGE ground-when-armed output of the DIRECTED security system. Connect the BROWN siren input of the 516U to the BROWN siren output of the security system. Connect the first stage output of the shock sensor to the GREEN input of 516U if desired. This connection is not required, but if used, the 516U will generate the WarnAway® message instantly instead of after counting the WarnAway® chirps. Switch 3 must be on to enable the 516U to detect siren chirps except for WarnAway®.

Directed Security System With On-Board Shock Sensor

The 516U will use chirp counting to generate the armed/disarmed/WarnAway® messages. Since the shock sensor is on-board the security system, it is impossible to physically connect to it. Unless the siren chirps are completely disabled inside the 514T siren itself, all chirps that the security system generates will be heard. Immediately following the chirp(s), the 516U will generate the corresponding voice message.

Connect the ORANGE wire of the 516U to the ORANGE ground-when-armed output of the Directed security system. Connect the BROWN siren input of the 516U to the BROWN siren output of the security system.

NOTE: Switch 3 must be ON to enable the 516U to detect siren chirps except for WarnAway®.

Non-Directed Security System (no chirp detection)

The 516U will determine the state of the security system based on the (-) armed input. It will generate the armed/disarmed message whenever the security system is armed or disarmed. The WarnAway® message will be generated whenever the system is armed and an input is detected on the WarnAway® input wire.

Connect the ORANGE wire of the 516U to the ORANGE, ground-when-armed output of the security system (consult installation manual of the system being installed in non-Directed brand for ground-when-armed wire color). Do not connect the BROWN wire of the 516U. Switch 3 must be OFF to disable chirp detection. Connect the GREEN (-) WarnAway® input to the output of the sensor that will be used to trigger the WarnAway® message.

WarnAway® Message Only

In any of the applications above, it is possible to program the 516U to generate only the WarnAway® message. Switch 4 is used to program this. If Switch 4 is ON, all messages will be generated. If Switch 4 is OFF, only the WarnAway® message is generated.

