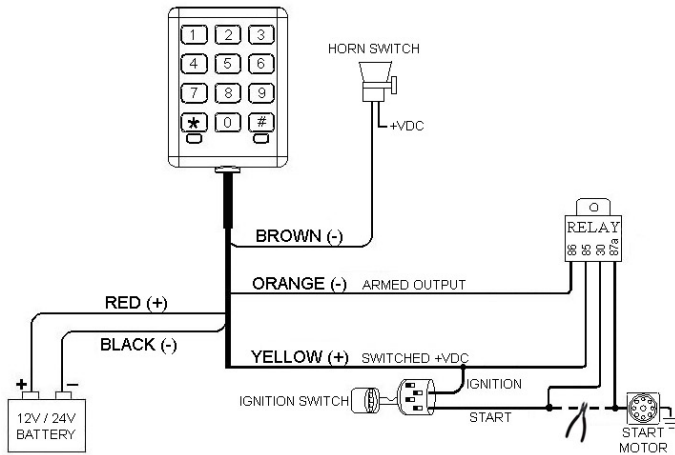


MEGATRONIX

KP20 – PROGRAMMABLE ILLUMINATED DIGITAL KEYPAD IMMOBILIZER

INSTALLATION AND WIRING INSTRUCTIONS



WARNING: NOT RECOMMENDED TO USE THIS SYSTEM TO INTERRUPT IGNITION OR FUEL PUMP.

1. Connect all the wires per wiring diagram:

a. RED Wire – System Power, Positive (+):

Connect to a constant positive 12 or 24 volt battery source (Fused connection recommended).

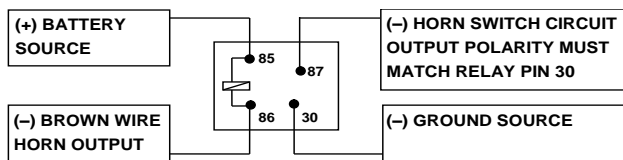
b. BLACK Wire – System Ground, Negative (-):

Connect to a clean, solid, unpainted section of the vehicle frame. Do not connect this wire to any existing ground wires supplied by the factory wire loom. Make connection to vehicle's frame directly.

c. BROWN Wire – Horn Honk Output, Negative (-) (OPTIONAL FEATURE):

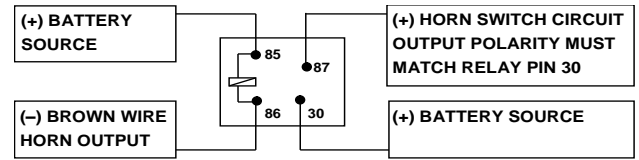
The vehicle's horn can be used as a warning audible device. It is a transistorized low current output (-200mA). Connect to the low current ground (negative) output from the vehicle's horn switch. Adding a relay as below is recommended.

NEGATIVE SWITCHED HORN



If the vehicle uses a positive (+) horn switch, a 20/30Amp SPDT automotive relay is required to convert the brown wire to positive. Connect relay terminal 86 to the brown wire. Connect relay terminal 87 to the low current positive (+) horn switch output. Connect relay terminals 85 and 30 to fused positive (+) battery source. See diagram.

POSITIVE SWITCHED HORN



d. ORANGE Wire – Starter Disable Output, Negative (-):

This wire is provided to control the starter disable relay. It gives a constant ground (negative) output while the system is armed (-200mA). Connect this wire to terminal 86 of the starter disable relay.

e. YELLOW Wire – Ignition Switched Input, Positive (+):

This wire receives positive (+) when the ignition switch is in the "ON" and "START" positions and receives "0" volts when the ignition switch is in the "OFF" position. Connect this wire to the positive (+) ignition crank source wire as well as terminal 85 of the starter disable relay.

f. Starter Disable Wiring:

Find the starter solenoid wire (usually located on starter) that goes to the ignition switch. Using a voltmeter, connect one probe of the voltmeter to ground and connect the other end of the probe to the starter wire, it should receive positive (+) only when the ignition key is in the START (CRANK) position.

Cut the starter wire and try to start vehicle. The engine should not crank over.

If the wires need to be extended, they must be the same gauge as the cut starter wire.

Connect key switch wire to terminal 30 and starter wire to relay terminal 87a of the disable relay.

2. Mount the keypad on the dashboard close to the operating area with either double sided tape or the bracket and screws provided.
3. Hide the relay and socket where intruders cannot easily locate them.
4. After installing, enter the default code to test the unit for functionality.
5. Asterisk (*) LED is blue and indicates system status. All other LEDs are red including number sign (#).

OPERATING INSTRUCTIONS

The system is designed to activate and deactivate immobilization via a relay. It can be armed and disarmed simply by keying a programmable security code.

While system is armed, if the ignition switch is turned to the ON position, the keypad lights will flash and horn will sound for 15 seconds (If horn honk output is connected).

FACTORY DEFAULT DISARMING CODE: 123456

PASSIVE ARMING (AUTOMATIC ARMING)

1. When the ignition key is turned to OFF, the system will automatically enter ARMED MODE after 30 seconds.
2. The blue LED will blink slowly to indicate the status.

ACTIVE ARMING (USER ARMING)

1. When the ignition key is turned to OFF, press * then #.
2. The keypad will chirp two times and system will enter ARMED MODE.
3. The blue LED will blink slowly to indicate the status.

DISARMING

1. Press * then enter your code then press #.
2. The keypad will chirp two times to indicate the correct code was entered.
3. Within 15 seconds, turn the ignition to ON. System will disarm and blue LED will turn off.
4. Before pressing #, if you realize you entered an incorrect digit, press * to re-enter the code.
5. If an incorrect code is entered, the keypad will chirp four times and will sound the horn once (If horn output is connected).
6. If incorrect codes are entered three times consecutively, the keypad lights will flash and the horn will sound for 15 seconds (If horn honk output is connected). The blue LED will flash rapidly two times then turn off and system will be in LOCKOUT MODE for 3 minutes.

PROGRAMMING DISARMING CODE

The keypad can be programmed with a custom disarm pin code that can be changed to increase security level.

To change disarm pin code:

1. Disarm the keypad and leave the ignition ON.
2. Within 15 seconds, press * then enter your new custom code then press #.
3. The keypad will chirp two times meaning the new code has been confirmed and stored.
4. The disarm code can be 4, 5, or 6 digits in length.

PANIC MODE

NOTE: This feature will only sound the horn if the horn honk output is connected to the vehicle.

1. While ignition is ON or OFF, if the user senses they are in danger, they can activate PANIC MODE.
2. To activate PANIC MODE, press and hold # for 3 seconds.
3. The keypad lights will flash and the horn will sound for 15 seconds.

VALET MODE

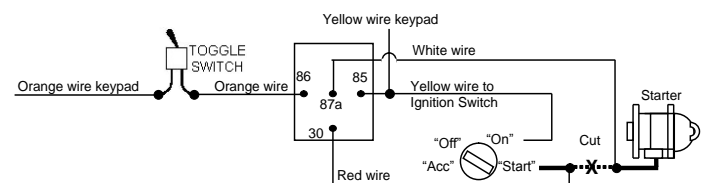
1. Disarm the keypad and turn the ignition to OFF.
2. Within 30 seconds, press * then enter your code then press #.
3. The keypad will chirp three times and system will enter VALET MODE. The blue LED will stay on solid whether ignition is in the ON or OFF position.
4. **Exit VALET MODE:** Turn the ignition to ON, and within 30 seconds, press * then #. The keypad will chirp three times, indicating system has exited VALET MODE. The Blue LED will turn off.

NOTE: In VALET MODE, the vehicle is not under immobilization protection and can be started freely.

EMERGENCY OVERRIDE (OPTIONAL FEATURE)

NOTE: If you do not want this feature, do not wire a toggle switch. Switch should be rated 3A 250V AC / 6A 125V AC.

IMPORTANT: Place the SPST on/off toggle switch in a hidden location so an intruder cannot access it.



Connect one wire of an optional toggle switch to the orange wire from the keypad. Connect the other wire from the toggle switch to terminal 86 of the starter disable relay. If keypad has failed or customer has forgotten their code and cannot disarm the system:

1. Flip the toggle switch to OFF to override the system.
2. **Exit EMERGENCY OVERRIDE:** Flip the toggle switch to ON to exit override mode.

MEGATRONIX

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