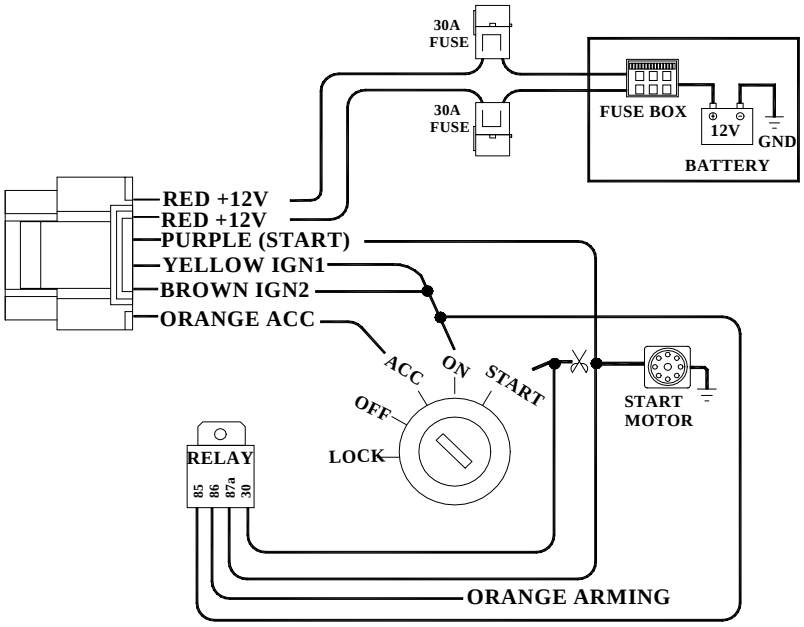
2-WAY LCD REMOTE STARTER CAR ALARM AM-8050

INSTALLATION MANUAL

We will explain the three basic functions of the ignition switch, when remote starting a vehicle. Since this installation will require analysis of the ignition switch functions, we recommend making the three connections blow at the ignition switch harness directly.

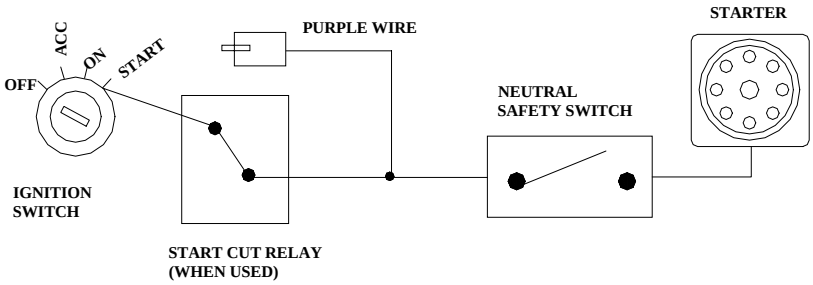


H1/1 & H1/2 Red wire - +12V Power input.

Remove the two 20A fuses prior to connecting these wires and do not replace them until the satellite has been plugged into the control module. These wires are the source o the current for all the circuits o the relay satellite will energize. They must be connected to a high current source. Since the factory supplies (+) 12V to the key switch that is used to operate the monitor, it is recommended that these wires be connected there.

Note: If the factory supplies two separate (+) 12V feeds to the ignition switch, connect one RED wire of the satellite to each feed at the switch.

H1/3 Purple wire – Starter output –



Careful consideration for the connection of this wire must be made to prevent the vehicle from the starting while in gear. Understanding the difference between a mechanical and an electrical Neutral Start Switch will allow you to properly identify the circuit and select the correct installation method. In addition you will realize why the connection of the safety wire is required for all mechanical switch configuration.

Failure to make this connection properly can result in personal injury and property damage.

In all installations it is the responsibility of the installing technician to test the remote start unit and assure that the vehicle can not start via RF control in any gear selection other than park or neutral.

In both mechanical and electrical neutral start switch configurations: the connection of the purple wire will be made to the low current start solenoid wire of the ignition switch harness. This wire had +12 volts when the ignition switch is turn to the “Start” position only. This wire will have 0 volts in all other ignition switch positions.

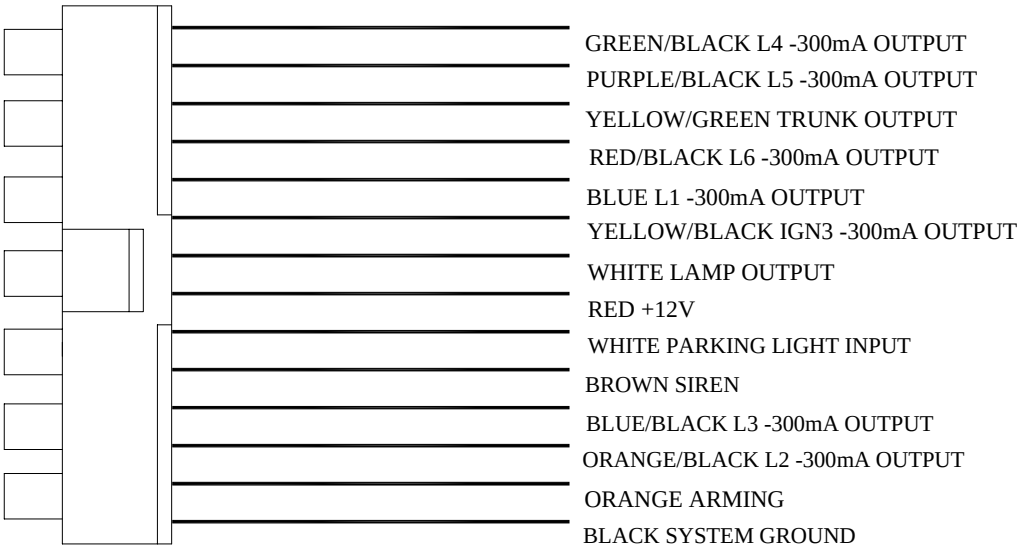
Warning: This wire must be connected to the vehicle side of the starter cut relay (when used). For the electrical neutral switch configuration, this connection must be make between the starter inhibit relay (when used) and the neutral safety switch as shown in the following diagram.
Failure to connect this wire to the ignition switch side of the neutral safety switch can result in personal injury and property damage.

H1/4 Yellow wire – Ignition 1 Output –
Connect the yellow wire to the ignition wire from the ignition switch. The ignition wire should receive “12V volts” when the ignition key is the “ON” or “RUN” and “START” or “CRANK” position. When the ignition is turned “OFF”, the ignition wire should receive “0” voltage. **The yellow wire must be connected.**

H1/5 Brown wire – ignition 2 output.
Some vehicles have (2) ignition wires that must have power. Connect the brown wire to ignition 2 wire from the ignition switch. The ignition wire should receive “12” volts when the ignition key is in the “On” or “RUN” and “START” position. When the ignition is turned “OFF”, the ignition wires should receive “0” voltage. If the brown is not used, cap the end of the wire.

H1/6 Orange wire – Accessory Output (Heater/ ACC Output) –
Connect the orange wire to the accessory wire in the vehicle that powers the climate control system.
An accessory wire will show + 12 volts when the ignition switch is turned to the “ACC” or “ON” and “RUN” positions, and will show 0 volts when the key is turned to the “OFF” or “ START” OR “CRANK” positions. There will often more than one accessory wire in the ignition harness. The correct accessory wire will power the vehicle’s climate control system. Some vehicle may have separated wires for the blower motor and air conditioning compressor. In such cases, it will be necessary to add a relay to power the second accessory wire.

H2 14-PIN OUTPUT WIRE CONNECTION



H2-1 Green/black wire – (-) 300mA Channel 4 Output –
Same function as H2-2. This feature allows you to remote other electric device.

H2-2 Purple/black wire – (-) 300mA Channel 5 Output –

Same function as H2-2. This feature allows you to remote other electric device.

H2-3 Yellow/green –300mA optional trunk output –

This feature allows you to remote control trunk release.

H2-4 Red/black wire – (-) 300mA Channel 6 Output –

Same function as H2-2. This feature allows you to remote other electric device.

H2-5 Blue wire – (-) 300mA Channel 1 Output –

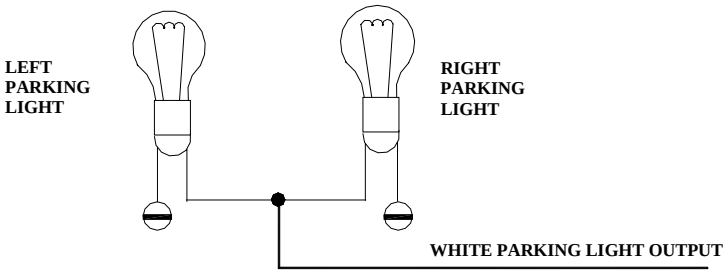
Same function as H2-2. This feature allows you to remote other electric device.

H2-6 Yellow/black wire – (-)300mA Ignition 3 output.

Some newer vehicles use a third ignition wire that is required to start and keep the vehicles engine running. Don't connect any vehicle circuits together, they are isolated for a reason.

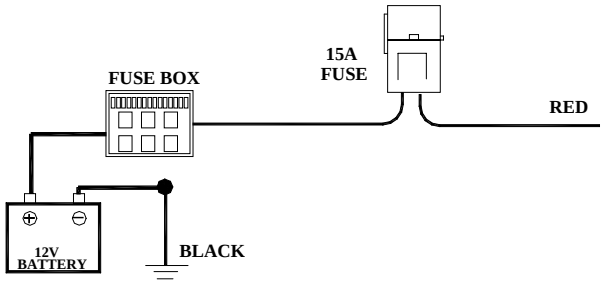
H2-7 White parking light output

This wire should be connected to the (+) parking light wire.



H2–8 Red wire – System power (+12V Constant)

The RED wire supplies power to the system. Connect this to a constant +12 volt source.

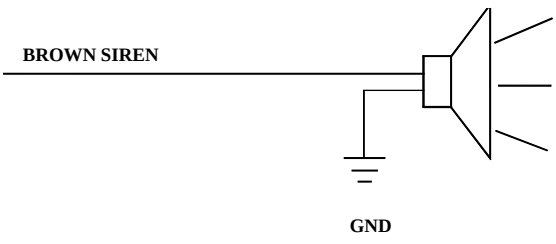


H2-9 White wire – parking light input –

Please refer to H2-7 white wire.

H2-10 Brown (+) siren output

This output can be used if an optional siren is installed. Connect this to the RED wire of the siren, Connect the BLACK wire of the siren to (-) chassis ground, preferably at the same point as the control module's BLACK ground wire.



H2-11 Blue/black wire – (-) 300mA Channel 3 Output –

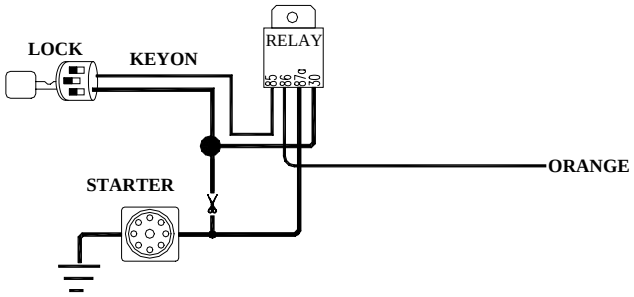
Same function as H2-2. This feature allows you to remote other electric device.

H2-12 Orange/black wire – (-) 300mA Channel 2 Output –

This will become a 1 second pulse ground by activate channel 3 on transmitter for two seconds, the current capacity of this wire is 300 mA. This feature allows you to remote other electric device.

H2-13 Orange wire – (-) 300mA Grounded Output When Armed –

This wire will become grounded when the alarm is armed. The current capacity of this wire is 300mA. This output can control starter disable, when an intrusion is detected and the system is triggered. The vehicles prevent from any unauthorized starting.



H2-14 Black wire – System Ground –

This is main ground connection of the alarm module. Make this connection to a solid section of the vehicle frame. Do not connect this wire to any existing ground wires supplied by the factory wire loom, make the connection to the vehicle's frame directly.

H3 8-PIN INPUT CONNECTOR

H3-1 Purple/white – Tachometer Signal connection

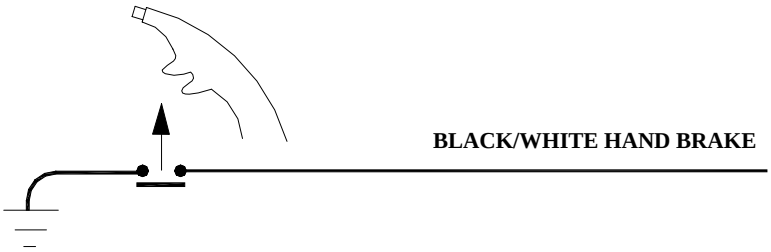
This input provides the remote start system with information about the engine’s revolutions per minute (RPM). It can be connected to the negative side of the coil in a vehicle with conventional coils. In Multi-coil and high energy ignition system locating a proper signal may be more difficult.

H3-2 Grey wire – Ground Instant Trigger Input –

This wire is the ground trigger input wire for hood/trunk pin switches.

H3-3 Black/white Negative safety shut down input -

The green wire provides an instant shutdown for the remote start, whenever it is grounded. Connect the wire to the hand switch previously installed.

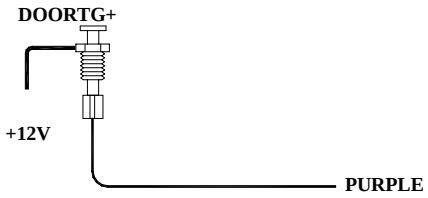


H3-4 Yellow Positive safety shut down input -

This wire provides an instant shutdown for the remote start, whenever it get +12 volts . If the brake lights switch in the vehicle switches + 12 volts to brake light circuit, connect this wire to output side of the brake switch. This will allow the remote start to shut down if an attempt is made to operate the vehicle without the key while running under the control remote star**t.**

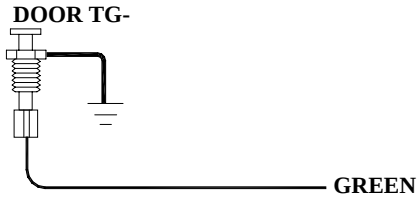
H3-5 Purple wire – Positive Door Switch Sensing Input –

This wire is the positive trigger input wire for positive door pin switch. This wire is connection for "positive" type factory door pins(typical FORD MOTOR). Locate the "common wire" for all door pins and make the connection of the white Wire here.



H3-6 Green wire – Negative Door Switch Sensing Input –

This wire is the ground trigger input wire for negative door pin switch. This wire is connection for "grounding" type factory door pins locate the "common wire" that connects the door pin switches. Make the connection of the brown Wire here.



H3-7 White/blue wire – (-) Instant Start & Turn Off Input –

This wires activates and turns off the remote starter each time it sees a momentary ground signal.

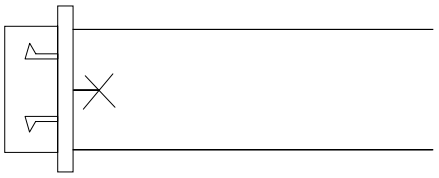
H3-8 Grey/black wire – (-) Diesel Wait – To - Start Input –

In diesel vehicles it is necessary to interface with the wire that on the WAIT-TO-START light in the dashboard. This wire illuminates the bulb until the vehicle's glow plugs are properly heated. When the light goes out the vehicle can be started. This wire is always at the connector leading to the bulb in the dashboard. It can also be found at the Engine Control Module (ECM) in many vehicles.

To test and determine the polarity of this wire:

1. Set your multi-meter to DVC or DC voltage (12V or 20V is fine).
2. Attach the (+) probe of the meter to (+) 12V.
3. Probe the wire that you suspect leads to the bulb with the (-) probe of the meter.
4. Turn the ignition switch to the ON position.
5. If the meter indicates 12 volts until the light goes out you have isolated the connect wire and the wire's polarity is negative (ground while the bulb is on).
6. If the meter reads zero volts until the light goes out and then reads 12 volts, you have isolated the connect wire and the wire's polarity is positive. Connect this wire to the wire in the vehicle that sends the signal to turn on the WAIT-TO-START bulb in the dashboard. In most diesels the wire is negative (ground turns on the bulb) and this wire can be directly connected to the wire in the vehicle. If the vehicles use a positive wire (12V to turn the bulb) a relay must be used to change the polarity.

H4 3-pin connector for Door lock & Door unlock Connection.



1.GREEN: (-)LOCK, (+)UNLOCK OUTPUT

3. BLUE: (+)LOCK, (-)UNLOCK OUTPUT

H4-1 Green (-) Lock, (+) Unlock Output

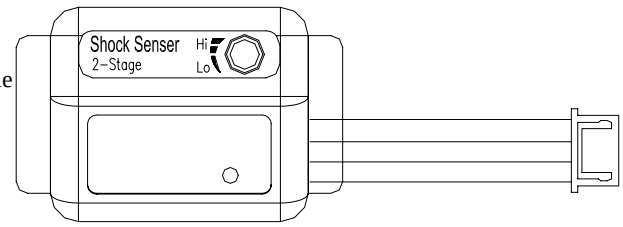
H4-3 Blue (+) Lock, (-) Unlock Output

The control module can control 2 common power door lock types without any additional parts. With certain vehicles, or if an actuator is to be installed, either a 451M Door Lock Re lay Satellite or relays will be required.

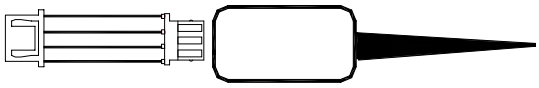
H5. 4 PIN CONNECTOR FOR 2 STAGE SHOCK SENSOR

SHOCK SENSOR

1.Turn clockwise to adjust sensitivity to Hi
2.Make sure the sensor is closely attached to vehicle
3.LED ON indicates triggering



H6. 4-PIN CONNECTOR FOR ANTENNA



The 2-way transceiver/antenna mounting location should be the upper left or lower left corner of the driver's windshield.

H7. 3-PIN CONNECTOR FOR TEMPERATURE SENSOR

The Temperature sensor can be add on. You can monitor, through the temperature sensor's LED screen, the present indoor temperature of the passenger compartment before cooling or heating your vehicle.
It can also can be programmed to automatically start the vehicle engine whenever the temperature inside the vehicle reaches or drops below the programmed temperature level.

H8. 2 PIN CONNECTOR FOR THE LED STATUS INDICATOR:

The led indicator status should be mounted in a highly visible area such as top of the dashboard, on top of the shifter console or on dashboard face. Leave at least 6mm space behind the mounting location for LED housing. Once a suitable location is chosen, drill a 6mm hole. Run the LED wires through the hole then press the 2 pin LED housing into the place. Route the LED wires to the control module.

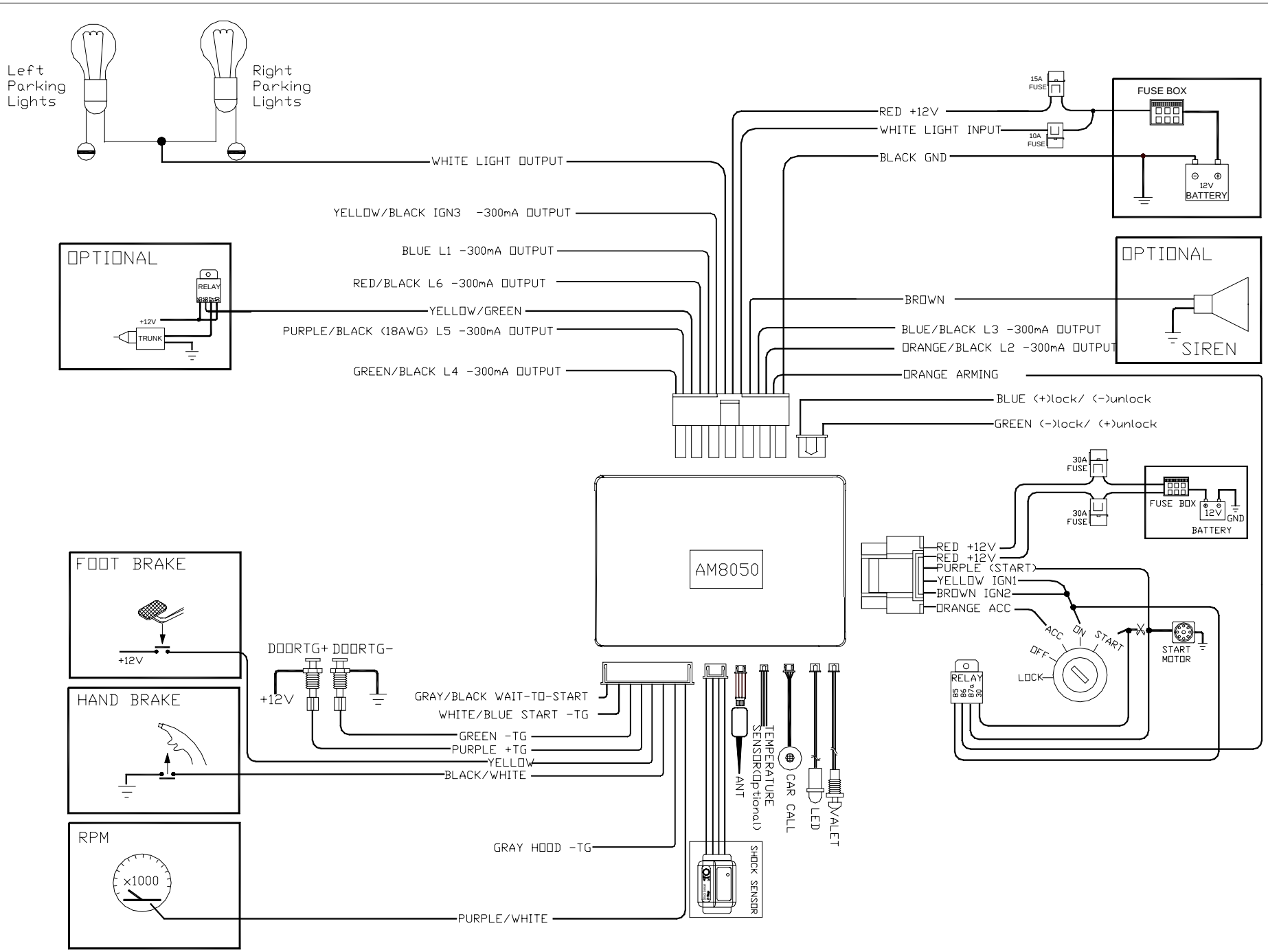
H9. 2 PIN CONNECTOR FOR THE VALET SWITCH

Select a mounting location for the switch that is easily accessible to the driver of the vehicle. The switch does not have to be concealed, however, concealing the switch is always recommended, as this provides an even higher level of security to the vehicle. Mount the valet switch in a hidden but accessible location. Route the valet switch wires to the control module.

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.

Caution:

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


Left Parking Lights
Right Parking Lights
WHITE LIGHT OUTPUT
YELLOW/BLACK IGN3 -300mA OUTPUT
BLUE L1 -300mA OUTPUT
RED/BLACK L6 -300mA OUTPUT
YELLOW/GREEN
PURPLE/BLACK (18AWG) L5 -300mA OUTPUT
GREEN/BLACK L4 -300mA OUTPUT
RED +12V
WHITE LIGHT INPUT
BLACK GND
15A FUSE
10A FUSE
FUSE BOX
12V BATTERY
OPTIONAL
RELAY
+12V
TRUNK
BROWN
BLUE/BLACK L3 -300mA OUTPUT
ORANGE/BLACK L2 -300mA OUTPUT
ORANGE ARMING
BLUE (+)lock/ (-)unlock
GREEN (-)lock/ (+)unlock
SIREN
AM8050
30A FUSE
30A FUSE
FUSE BOX
12V
GND
BATTERY
RED +12V
RED +12V
PURPLE (START)
YELLOW IGN1
BROWN IGN2
ORANGE ACC
ACC
ON
START
OFF
LOCK
START MOTOR
RELAY
85
86
87a
87
30
FOOT BRAKE
+12V
HAND BRAKE
RPM
×1000
DOORTG+
DOORTG-
+12V
GRAY/BLACK WAIT-TO-START
WHITE/BLUE START -TG
GREEN -TG
PURPLE +TG
YELLOW
BLACK/WHITE
GRAY HOOD -TG
PURPLE/WHITE
ANT
TEMPERATURE SENSOR(Optional)
CAR CALL
LED
VALET
SHOCK SENSOR

PORTMAN

9TH BUILDING, TONGFUYU INDUSTRIAL PARK, LONGHUA TOWN, BAOAN,
SHENZHEN CITY, CHINA.

Tel: +86-755-2814 0190 Fax: +86-755-2814 0201