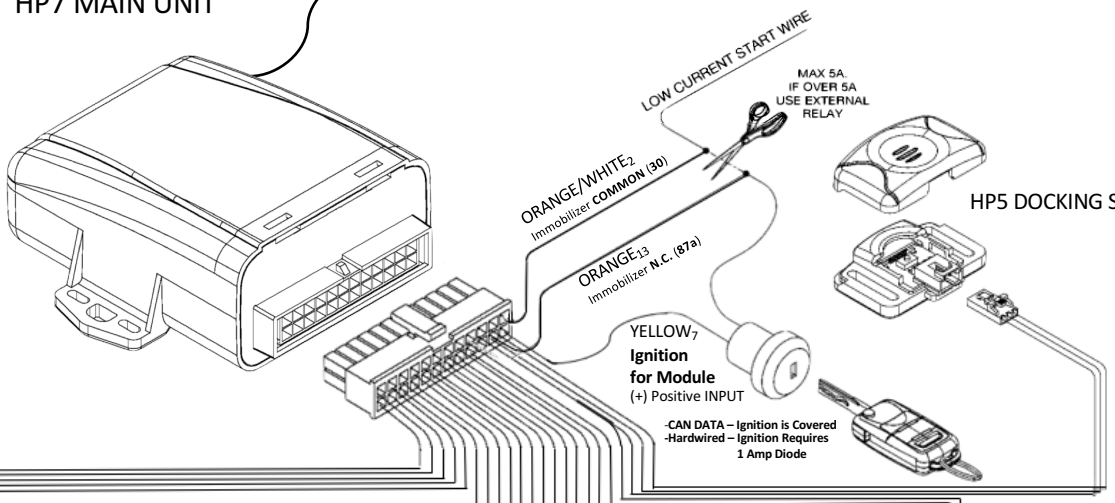
Antenna For Communication with L.O.R.A. at Dealership
- Logs All Dealer Remote Interactions
- Allows for over the air settings and firmware updates

HP7 MAIN UNIT



INTERNAL STARTER/IMMOBILIZER RELAY

Low Current Relay 5 Amp MAX

ORANGE/BROWN$_{20}$
Immobilizer **N.O.** (**87**)

YELLOW/ORANGE$_{14}$
Immobilizer Control Coil 1 (**86**)

ORANGE$_{13}$
Immobilizer **N.C.** (**87a**)

ORANGE/WHITE$_2$
Immobilizer **COMMON** (**30**)

NOTE: If Using this Relay: Connect Yellow/Orange to (+) Positive Ignition to Control the Immobilizer Coil

Negative When Armed
Coil 2 (85 Controlled Internally)

PARKING LIGHTS OR FACTORY SECURITY TRIGGER RELAY

Relay is selected automatically by connections made and the system color

WHITE/BLACK$_{18}$
Internal Relay **N.O.** (**87**)

BROWN/WHITE$_{19}$
Internal Relay **N.C.** (**87a**)

WHITE$_{17}$
Internal Relay **COMMON** (**30**)

Secondary Internal Relay
-Parking Light (BLUE AND RED SYSTEMS)
Use White 30 and White/Black 87.
-Factory Security Trigger (GREEN SYSTEMS)
Send: White 30 and White/Black 87
Open: White 30 and Brown/White 87a

Coils 1 and 2 – 85 and 86 Controlled Internally Based on System

CAN DATA

Check Technotes for Functions Covered

GREEN/YELLOW$_6$ **CAN High**
DATA I/O

GREEN/WHITE$_5$ **CAN Low**
DATA I/O Ground for Single Wire CAN Systems ex: Chevy

DATA FUNCTIONS OR HARDWIRE OPTION

Connect for hardwire installs and if CAN Function is Not Available

GREY/RED$_3$ **Lock**
(-) Negative OUTPUT Limited Current - 300mA MAX

GREY/GREEN$_{24}$ **Unlock**
(-) Negative OUTPUT Limited Current - 300mA MAX

GREEN/RED$_8$ **Arm Input**
(+/-) INPUT Keyless Lock Motor (Req. 1 Amp Diode)

BLACK/ORANGE$_{23}$ **Disarm 1 Input**
(+/-) INPUT Keyless Unlock 1st Unlock Motor
(Requires 1 Amp Diode)

BROWN$_9$ Hardwire **Doors**
TRIGGER INPUT (Requires 10K Ohm Resistor to 12V)

GREY/BLACK$_{21}$ **Trunk**
TRIGGER INPUT (Requires 10K Ohm Resistor to 12V)

BROWN/BLACK$_{22}$ **Inhibit** (hopefully disarm)
(-) Negative INPUT

PRIMARY HARDWIRE CONNECTIONS

Hardwire Connection Required

BLACK$_{16}$ **Ground**
(-) Negative INPUT

RED$_4$ **12 Volt (+) Constant**
(+) Positive INPUT

BLACK/WHITE$_7$ **Horn**
(-) Negative OUTPUT Limited Current - 300mA MAX

GREY$_1$ **Negative Out When Armed** (Corner pin)
(-) Negative OUTPUT Limited Current - 300mA MAX

GREY$_{15}$ **Trunk Shunt Motor**
(+/-) Positive or Negative INPUT

POWER-UP/SHOCK SENSOR ADJUSTMENT PROCEDURE

Upon power-up, the HP7 unit examines all wires connected along with their status in order to identify vehicle and load the proper Firmware and/or CAN file. If not properly powered up, unit will malfunction.

1. Connect Entire Harness - Keep Security Unit Disconnected
2. Connect Security Unit to Harness
3. Close the Driver Door - Dock Light will Flash every 3 Seconds
4. Turn Ignition On
5. Open the Driver Door (2 HONK) IMPORTANT: **Repeat Steps 3-5 If You Do Not Get 2 Honks**
6. Press Arm on the Dealer Remote (within 6 seconds) (1 HONK)
7. Turn Ignition Off (2 HONKS) - SHOCK SENSOR ADJUSTMENT MODE -
8. LED Will Flash Current Sensitivity Setting – Default Sensitivity = 8
   (1 = Lowest Sensitivity, 15 = Highest Sensitivity)
9. Press Programming Button to Match Desired Setting
   (1 HONK and Light will Flash Current Setting)
10. Close Doors to Test USER MODE Shock Sensor Sensitivity Setting
    6 FAST HONKS = Soft Impact – No Factory Security Violation but Full Systems will Pre-Warn.
    1 SOLID HONK = Sufficient Impact - Security Violation Across All Systems
11. Turn Ignition On to Save Settings and Exit (3 HONKS)

SHOCK SENSOR ADJUSTMENT MODE (Post Power-Up)

To Access Shock Sensor Adjustment Mode Separate from the Power Up Process:

1. Turn Ignition On then Off
2. Press and Hold the Programming Button for 5 Seconds
3. Wait for Horn to Honk then Release Button
4. **Continue From Step 8 Above**

UNIT MEMORY REPORT BACK

Check List of Security Violations by Zone

1. Turn Ignition On then Off and wait 10 Seconds.
2. Press the Programming Button 10 Times
3. LED will Turn Solid for 1 Second (to Start)
4. LED reports zones: 1, 2, 3, and/or 5
5. LED flashes quickly for 1 Second (to End)
   (ZONES: 1-Shock, 2-Green Wire, 3-Brown Wire and 5-Activation Chip)

DOME LIGHT FADE LEARNING PROCEDURE

Learn Only In USER Mode AND Also, Only If Dome Light Fade is Longer than 5 Seconds

1. Enter Programming Mode and Change the Dome Light Fade Setting - Step 11 to 3 Honks.
2. Insert Activation Chip to Enter User Mode
3. Open Driver Door.
4. Press Arm, Disarm, Arm, Disarm, Arm on Vehicles Factory Remote Until Docking Station Light Illuminates Solid.
5. Close Driver Door in order for the Dome Light to Fade out.
6. Once Vehicles Dome Light Fades out, the Docking Station Light starts flashing again, signifying fade time has been learned.

IMPORTANT: With Only the Driver Door Open, Our Security System Must be "Armed, Disarmed, Armed, Disarmed and Armed" all within 6 Seconds, the Light on Docking Station Must then Illuminate Solid (the learning process has started), All Doors Must Then be Closed for Dome Light to Fade Out. At this point the Vehicles Factory Dome Light Fade Time has been Learned.

ALL DOOR UNLOCK

To Unlock All Doors from One Unlock Press on Factory Remote

NOTE: Only for vehicles that require Double Pulse to Unlock (Step 9 at 3 Honks) OR has CAN connections controlling unlock.

1. Turn Ignition On
2. Press the Unlock Switch, Inside Driver Door, 3 Times
   (1 Honk = On/2 Honks = Off)

SILENT ARMING

1. Turn Ignition On then Off.
2. Press the Programming Button 3 Times
   (1 Honk = Audible Arm/Disarm Tones /2 Honks = Silent)

RESET ALL FACTORY DEFAULTS

Deletes Current Dealer Remote Code, Setting Changes, Firmware and/or CAN File

1. Disarm Unit.
2. Press Program Button 5 Times within 6 Seconds
3. Switch Ignition On then Off 5 Times within 6 Seconds (3 HONKS)

FEATURE SELECTION CHART

ENTERING PROGRAMMING MODE

OPTION

- WHEN DISARMED, TURN IGNITION ON – PRESS AND RELEASE PROGRAMMING BUTTON 3 TIMES
- TURN IGNITION OFF THEN ON AGAIN
- PRESS BUTTON TO SCROLL THROUGH FEATURES
- THE LED WILL FLASH TO INDICATE WHICH FEATURE YOU SCROLLED TO
- THE HORN WILL HONK 1,2 OR 3 TIMES TO INDICATE FEATURE SELECTION

FEATURE SELECTION		INDICATION		
		1 HONK	2 HONKS	3HONKS
1	Auto Lock with Ignition	Auto Lock On	Auto Lock Off	
2	Auto Unlock with Ignition	Auto Unlock On	Auto Unlock Off	
3	Lock with Passive Arming	Lock	No Lock	
4	Passive/Active Arming	Passive Arm (Door Output)	Active Arm	
5	Arm/Disarm Chirp Duration	15 ms	30 ms	55 ms (Chrysler)
6	Dealer Disarm	Tap	No Tap	
7	Trigger Length	1 Sec	2 Sec	3 Sec
8	User Mode Starter Kill (Green System)	Starter Kill On	Starter Kill Off	
9	Lock/Unlock Duration	Single Unlock	3.5 Seconds	Double Unlock
10	Short Lock/Unlock Duration	400 ms	600 ms	800 ms
11	Dome Light Fade	No Fade	5 Sec	Dome Light Learning
12	Trigger Type	Horn	Siren	

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.