

# **06-07 FORD MUSTANG**

**PART NUMBER: 250-1800-2F**

## **ULTRASONIC PARKING ASSIST SYSTEM INSTALLATION INSTRUCTIONS**

### **CONTENTS**

<b>PARTS IDENTIFICATION . . . . .</b>	<b>2</b>
<b>SYSTEM LAYOUT . . . . .</b>	<b>3</b>
<b>VEHICLE PREPARATION . . . . .</b>	<b>3</b>
<b>INSTALLATION . . . . .</b>	<b>4</b>
<b>FUNCTION TESTING &amp; REASSEMBLY . . . . .</b>	<b>7</b>

**FORM #, REV RTP,**

# PARTS IDENTIFICATION

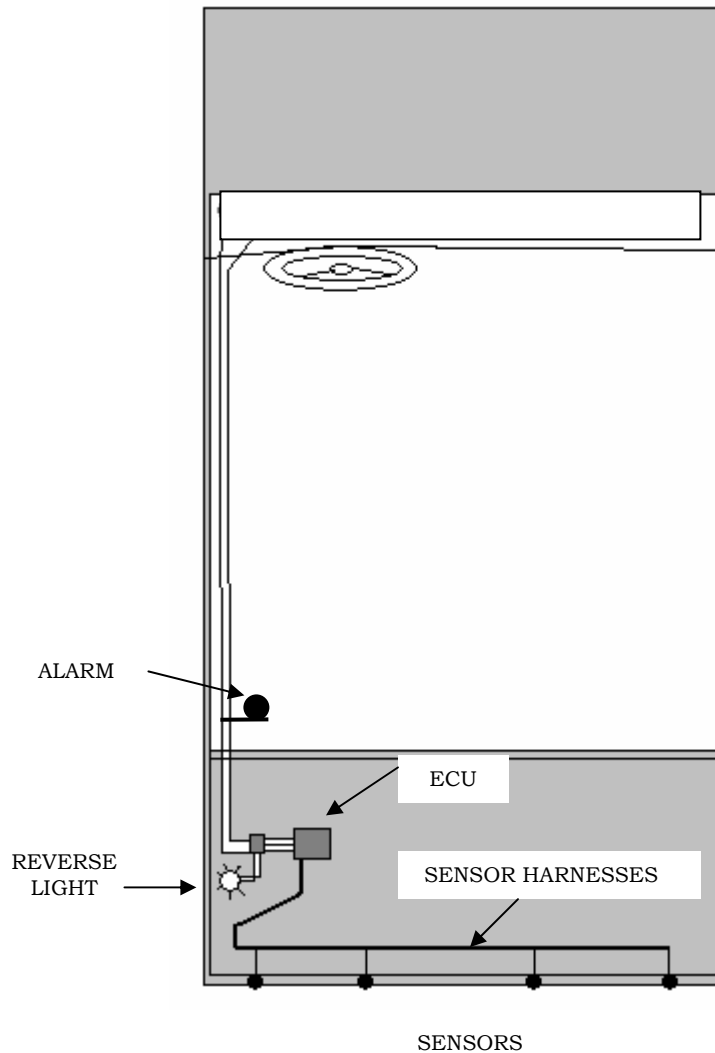
## BASE ELECTRONICS KIT

ITEM	QUANTITY	PART #	DESCRIPTION
1	1	80-0350-XL-4A	ECU CONTROL MODULE
2	2	80-0350-KMTP	SENSORS
3	1	80-0350-RL-BS	POWER HARNESS
4	1	80-0350-BUZZ	ALARM
5	1	59A-01800	HARDWARE PACKAGE
6	1	FORM #4828	OPERATION MANUAL
7	1	FORM #4819	OPERATION MANUAL



# SYSTEM LAYOUT

DIAGRAM A



# VEHICLE PREPARTION

**Before beginning installation**, familiarize your-self with the installation instructions and the ultrasonic parking assist system components.

To ensure your safety:

- A) Make sure your vehicle is in "PARK".
- B) Apply the emergency brake.
- C) Read this manual before starting.

**CAUTION: It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting.**

# INSTALLATION

## STEP 1: VEHICLE PREPARATION

1. Lift the trunk. Remove the rear door scuff panel and pull back luggage matt. **(Figure1)**. Release passenger-side trunk lining. Remove tire cover to access the rubber grommet.

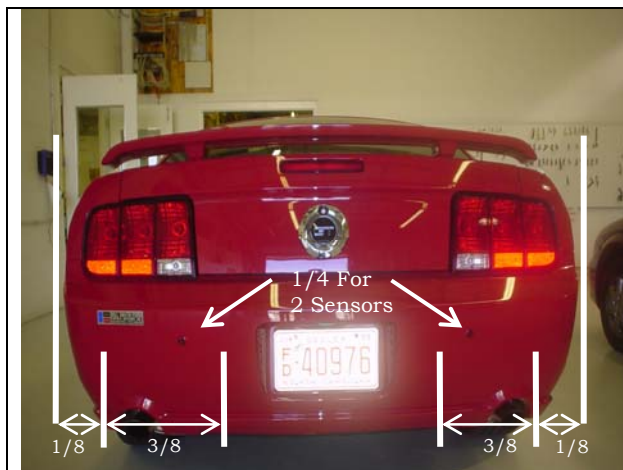


**FIGURE 1**

## STEP 2: SENSOR LOCATION

1. If using **mylar template**, align with the surface of the bumper. Make sure the template is centered horizontally on the bumper. Use the trunk or tailgate latch bar as a reference for the centerpoint, and use the printed arrows and lines on the template as a guide. Secure the template to the bumper with masking tape.

2. For (4) sensor applications, measure the width of the bumper and mark locations at  $1/8$  and  $3/8$  distance in from each end as shown in **Figure 2**. For (2) Sensor applications, place one sensor at  $1/4$  distance from each end. The ideal location will be 18"-22" off the ground. Mark the holes in the template on the bumper. Using a **22mm or 7/8"** hole-saw, drill holes at the four marked spots. Hold the drill steady and level such that the holes will be drilled perpendicular to the surface of the bumper. Use a deburring tool to carefully remove any burrs of plastic in the holes **(Figure 3)**.



**FIGURE 2**



**FIGURE 3**

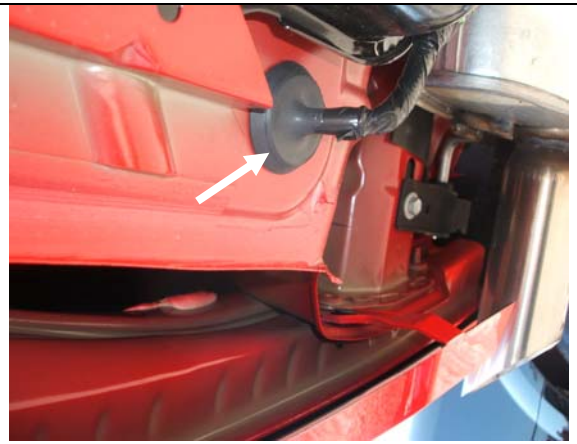
# INSTALLATION

## STEP 3: SENSOR MOUNTING

1. Feed the sensor harnesses through the holes until they are accessible from behind the bumper. Pull them until the sensor is at the face of the bumper. Turn the sensor so that the mounting tab with the arrow on it is facing the top of the vehicle (**Figure 4**).
2. Mount the sensor harnesses behind the bumper using wire ties supplied in hardware bag. Press the sensors firmly into the fascia, making sure they snap in place.
3. Route the sensor harnesses to the rubber grommet under vehicle as shown (**Figure 5**). Cut a slit in the grommet and pass the harnesses through to the interior of the vehicle. Secure the harnesses with wire ties. Seal the grommet with silicone sealant.



**FIGURE 4**

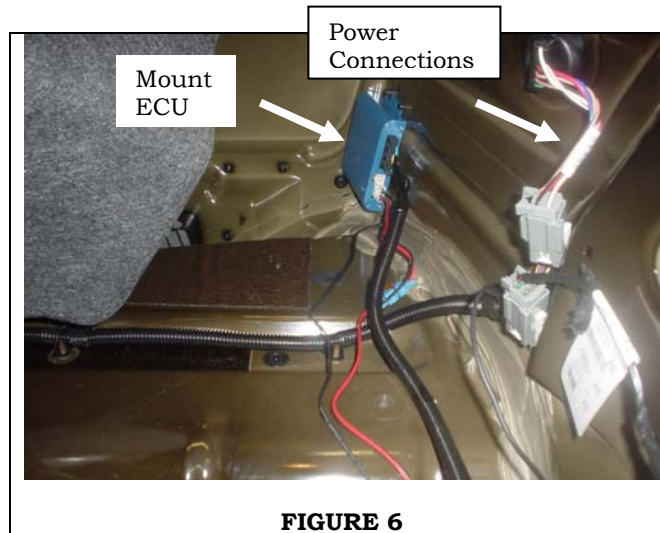


**FIGURE 5**

# INSTALLATION

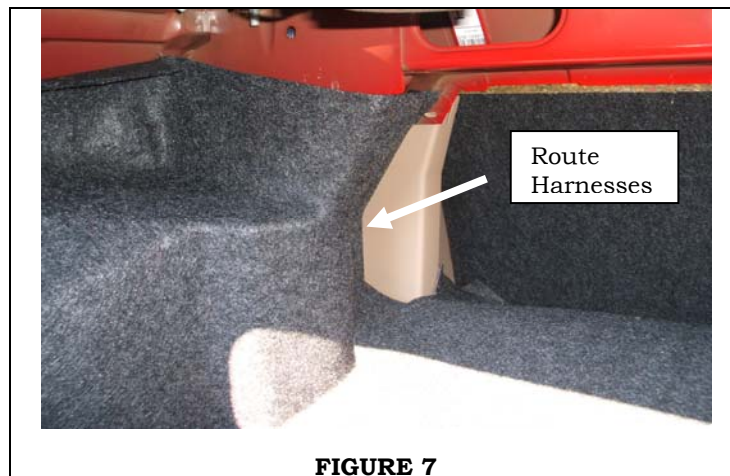
## STEP 4: POWER CONNECTIONS & ECU MOUNTING

1. Connect the white 4-pin connector from the power harness, and the sensor harnesses to the ECU module as shown in Diagram A on page 3. Using the supplied Velcro pad, mount the ECU to inner wall of rear trunk on passenger-side (**Figure 6**).
2. Connect the blue power wire from the power harness to the reverse light wire of existing vehicle connector. Connect the black ground wire from the power harness to the ground wire of vehicle connector as shown. Use the supplied red t-taps to make the connections. Secure excess wire with wire ties (**Figure 6**).



## STEP 5: WIRE ROUTING ALARM UNIT HARNESS

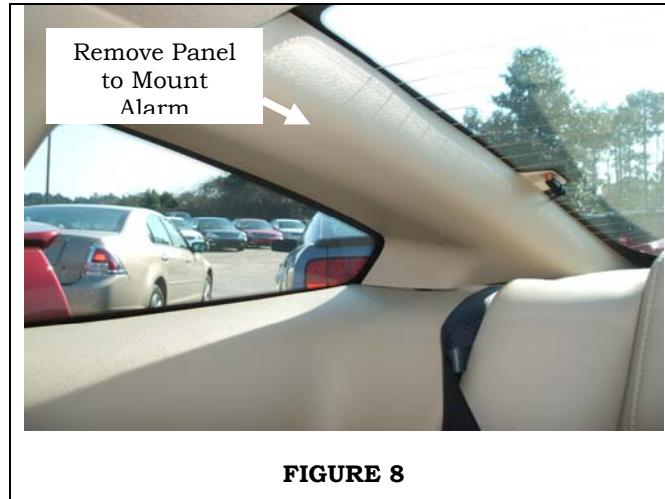
1. Route the alarm unit harness to the back of the vehicle. Use a wire pulling tool to route the harness behind the passenger side rear trunk lining and up the rear seat (**Figure 7**). Continue the harness behind trim panel. Use wire ties to secure the harness to the vehicle harness along the same path. Be sure not to run the harness where it would be pinched by clips or sharp edges.



# INSTALLATION

## STEP 6: ALARM UNIT MOUNTING

1. Connect the white 2-pin connector from the alarm unit extension harness to the 2-pin connector of the alarm unit. Make sure the “**HI/LO/OFF**” switch on the unit is set to the “**HI**” setting. Peel the paper backing off the adhesive and mount the alarm unit to an inner wall behind trim panel (**Figure 8**).



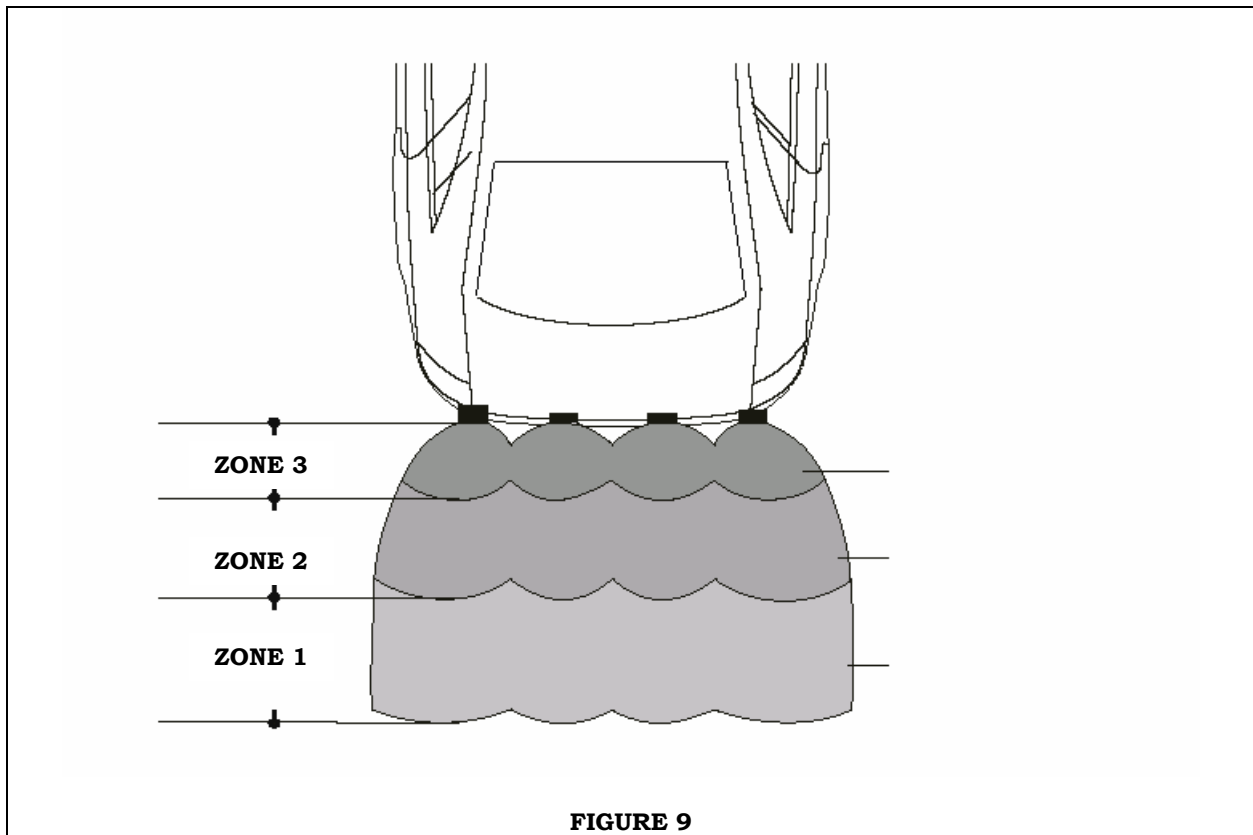
# FUNCTION TESTING AND REASSEMBLY

## TESTING

1. Reconnect Negative Battery Cable and torque to 3 ft lbs. Re-enter any theft deterrent information, if applicable.
2. Turn the ignition to the “on” position, engage the emergency brake, and put the vehicle into reverse. The alarm unit will alert two quick beeps to indicate that the system is active. Have an assistant walk into the detection area and trigger an alarm. Press the “Park Assist Off” switch and verify that the alarm shuts off. Cycle the reverse gear and verify that the system powers up again. Refer to **Figure 9** for the detection pattern.

Average distances are as follows:

- Zone 1 (slow beeping) from 60” to 35”
- Zone 2 (fast beeping) from 35” to 18”
- Zone 3 (solid tone) is 18” and less.



### **REASSEMBLY**

1. Reinstall all trim pieces taking special care to ensure harnesses and wiring connections are properly secured.
2. Be sure harness is not pinched or bound by trim pieces.
3. Place the Owner's card in the glove box.
4. Reconnect all disconnected bulbs and check for function.

## **NOTES**