# *HFS*
## PAC  Hands Free Switcher.



courtesy of:
DiscountCarStereo.com

## INTRODUCTION

The HFS Universal speaker level switcher is an audio switching device that must be used in conjunction with a vehicle specific harness to seamlessly integrate a Motorola IHF1000/T605 and select Parrot Bluetooth Car kits into many of today's non-amplified factory audio systems. The primary function of the HFS is to "MUTE" the car stereo when a call is made or received and to also "SWITCH" the other party's voice to the **Front** speaker in the vehicle. The HFS is completely plug-n-play and does not require any cutting or splicing when **used in conjunction with** a VEHICLE SPECIFIC HARNESS to install Motorola and Parrot Bluetooth kits. (Other car kits or harnesses may require cutting and/or splicing).

## 1.   INSTALLATION

**Important Note**: Motorola IHF1000/T605 Bluetooth kits include one of two harnesses: 3043533**Z02 or** 3042260**Z03** —these are the only two Motorola Bluetooth harnesses compatible with the HFS. Motorola harness ending in Z01 must be cut, splice, crimp or soldered to the HFS

### Connections to Motorola Z02 or Z03 harnesses

**Note:** All connections to the vehicle (power and audio) are via the vehicle specific harness. Do *not* connect any wires from the Motorola Car Kit directly to the vehicle. All connections will be made between the Car Kit harness (Z02/Z03) and the HFS (**P-M2UP**)

**Before connecting the HFS you must install the UIM and microphone that included in the Bluetooth Kit.**

**CAUTION!!!!** Make certain that you have the radios security code if the radio has one. The radio may require the security code to operate after being plugged in.

## Connections to Radio

1. Unplug the factory harness from radio
2. Plug the factory harness in the vehicle side of the Peripheral Bluetooth harness (i.e. PPH1817).
3. Plug the radio side of the Bluetooth harness back into the factory radio
4. Connect the **18-pin plug** on the vehicle specific harness to the "Vehicle interface" side of the HFS **(See Fig.1)**

**Fig. 1**

The 18-pin Molex plug pictured on the left comes standard on all PPH (i.e. PPH1817) vehicle specific harnesses.

Connect the **16-pin plug** on the P-M2UP to the "Phone interface" side of the HFS **(See Fig. 2B)**

**Fig. 2A**

P-M2UP pictured above. 16-pin Molex plug on one end and 8-pin Molex on the other.

**Fig. 2B**

The 16-pin Molex plug pictured above connects to the 16-pin connector on the HFS

5. Connect the **8-pin Molex plug** on the P-M2UP to the Motorola Z02/Z03 harness (**See Fig. 3A/B)**

**Fig. 3A**

8-Pin Molex plug on P-M2UP pictured on the left. Pictured on the right is the 8-pin Molex connector on the Bluetooth Kit Harness (i.e. Z02)

**Fig 3B**

8-pin Molex on P-M2UP connected to the Z02/Z03 harness

## Connections to Motorola Z01 harness

If the Motorola IHF1000 Bluetooth® phone kit (old version) included a Z01-type harness, you will *not* be able to connect the HFS directly to it. Connecting the Z01-type harness will require you cut and splice the connections.
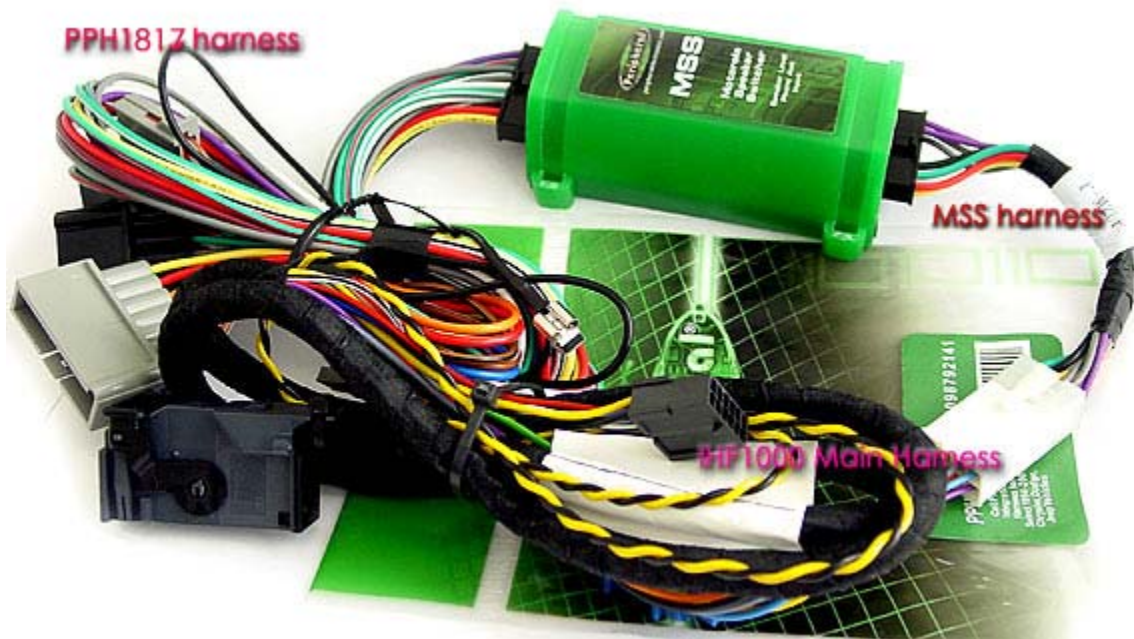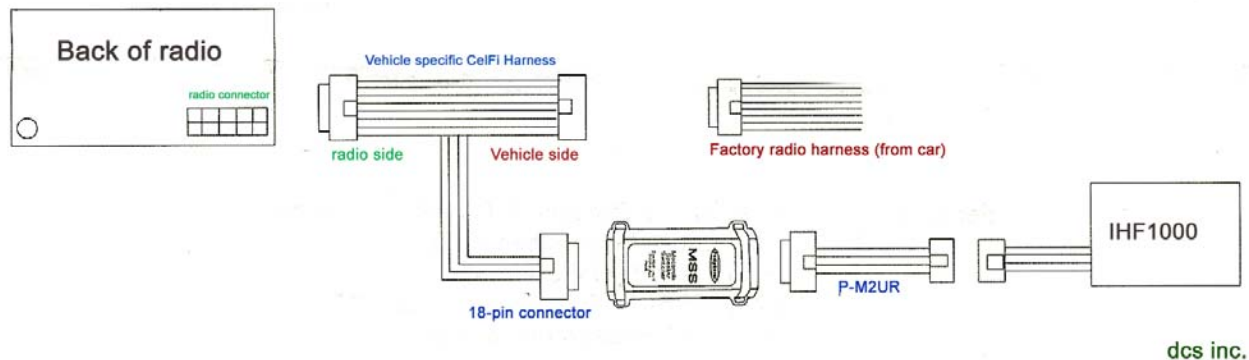
**Wiring connections for Z01 harness (only)**

1. Cut off the 8-pin white connector from the P-M2UP harness
2. From the Motorola harness—cut off the 2-pin connector for the speaker
3. Connect the **BLACK** wire from the speaker plug to the PURPLE wire on the P-M2UP harness **(FR+)**
4. Connect the YELLOW wire from the speaker plug to the GRAY wire on the P-M2UP harness (FR-)
5. Connect the RED wire from the Z01 harness to the RED wire on the P-M2UP harness (12V+)
6. Connect the GREEN wire from the Z01 harness to the GREEN wire on the P-M2UP harness (ACC)
7. Connect the **BLACK** wire from the Z01 harness to the **BLACK** wire on the P-M2UP harness (**Ground)**
8. Connect the YELLOW wire from the Z01 harness to the YELLOW wire on the P-M2UP harness (Mute)

**CAUTION!!!!**
Make certain that you have the radio security code if the radio has one. The radio may require the security code to operate after being plugged in.

**Connection made at the radio.**

1. Unplug the factory harness from radio
2. Plug the factory harness in the vehicle side of the Bluetooth harness. (i.e. PPH1817)
3. Plug the radio side of the Bluetooth harness into the factory radio
4. Connect the 18-pin connector from the vehicle specific Bluetooth harness to the "Vehicle Interface" side of the HFS
5. Connect the 16-pin connector on the P-M2UP into the "Phone interface" side of the HFS
6. Connect the 8-pin connector on the P-M2UP to the Motorola Z02/Z03 harness

## 3. WIRING DIAGRAM





Pictured above are: PPH1817 for select Chrysler, HFS (MSS), P-2MUP harness and IHF1000 harness (Z02)

**When installing Parrot Kits the following parts are required:**
1. A vehicle specific harness (i.e. PPH1817),
2. The HFS and
3. **PPAPAR** (sub-harness)

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