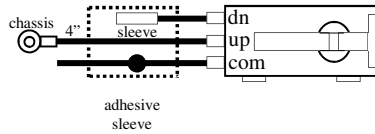
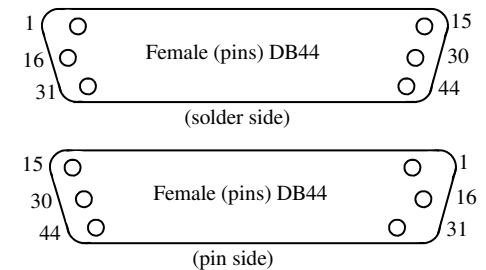
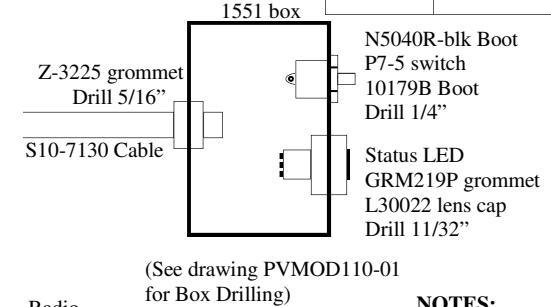
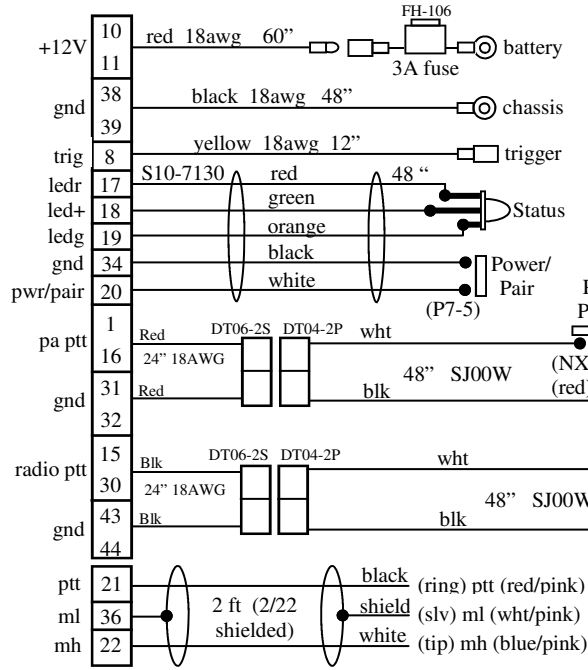


Harley kickstand switch  
PN: E1092-B9113-24V



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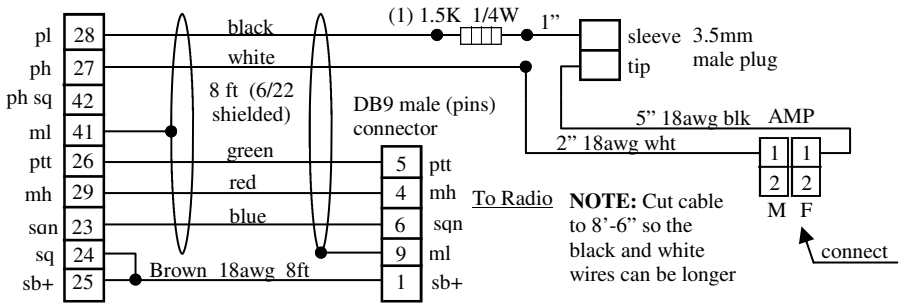
Date	Authorized	Description	Rev
04/11/08	MD	Release	NC



**LABEL:**  
PVICF1721-HA-WW-XXMH  
Rev NC

**NOTES:**

- 1) Install Status LED and Power/Pairing Switch in 1551 box as shown. Assemble N5040R-blk cover to P7-5 switch with star washer and 10179B boot, L30022 lens cap to LED, cover LED with adhesive sleeve, and install into GRM219P grommet.
- 2) Label as shown and include installation instructions
- 3) Ream DB44 (plastic) backshell with 1/2" Drill
- 4) Complete assembly includes Module PN: PVG2AS (not shown), Kickstand Switch Assembly PN: PVHDKCK-01, PTT Assy PN: PVPPTT2-H02-DT and Harness Assembly PN: PVICF1721-HA-WW-XXMH
- 5) Assemble O-ring, backshells, boots and PTT switches to dual Harley PTT bracket (not shown) PN: PVHARPTT-02
- 6) To panel mount Power/Pairing switch and Status LED on motor, open 1551 box, remove switch and LED. Drill 1/4" hole to install P7-5 switch on motor, drill 11/32" hole to install LED grommet on motor
- 7) Cover unused lead at kickstand switch with sleeve, then apply adhesive sleeve over cable connection
- 8) Include mounting HW noted in installation instructions
- 9) When installing, program accessory connector pin 6 for COR (active low), pin 1 for SB+, and pin 5 for PTT (SEE ATTACHED APPLICATION NOTE)



**PVP Communications**

Eng	Title: Motor Kit, ICF1700 Series ICOM Mobile with WS320 Siren, G2 Wireless, for Harley Motor
Check	
Date: 04/28/2006	
Sheet 1 of 1	Drawing No: PVICF1721-HA-WW/XXMH

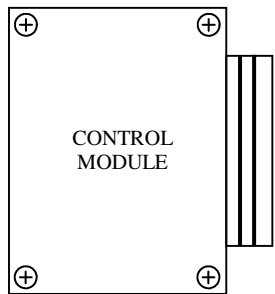


# INSTALLATION DIAGRAM

Included in this Kit:

- 1) Control Module: PVG2AS
- 2) Harness Assembly: PVICF1721-HA-WW-XMH
- 3) PTT Bracket: PVHARPTT-02
- 4) Kickstand Switch Assembly: PVHDKCK-01
- 5) PTT Assembly: PVPPT2-H02-DT
- 6) Tie Wraps (15)

**QUESTIONS? call us at 800-584-4119 Monday through Friday, 7AM to 4PM Pacific Time, USA.**



**ELECTRAGLIDE** - Mount MODULE directly under windshield and inside fairing  
**ROAD KING** - Mount MODULE directly under radio control head

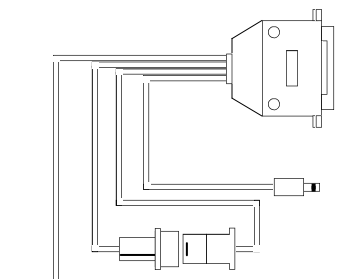
**NOTE: Mount transceiver module away from radio speakers.**

**CUT OUT AND MOUNT IN CONVENIENT LOCATION:**

**PAIRING QUICK GUIDE**

**NOTE: All other Bluetooth devices in the immediate area must be powered off.**

- 1) Power off both devices. Press each PAIR switch until LED goes to a solid color (2-3 seconds), then release.
- 2) Press and hold **Motor** PAIR switch until LED toggles red-green-red-green, then release it and immediately:
- 3) Press and hold **Shouldermic (or Headset)** PAIR switch until LED toggles red-green-red-green, then release.
- 4) After 10-15 seconds, a green pulse will confirm PAIR is established.

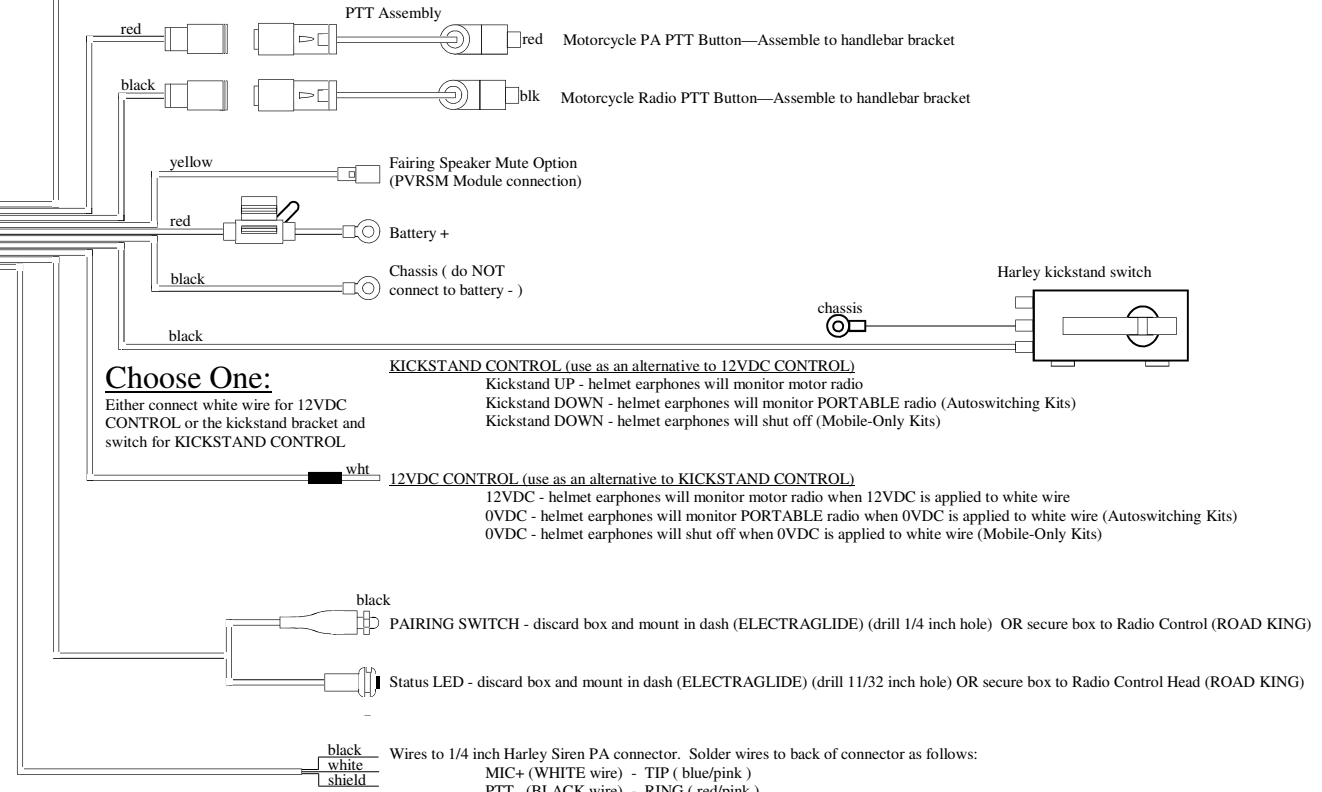


**MOBILE RADIO VOLUME ADJUSTMENT:**  
 (The mobile radio broadcast volume has been pre-adjusted at the factory and should not need adjusting, but a gain adjustment is available in the transceiver module. Use a small flat blade screwdriver at this position if additional volume adjustment is needed.)

Press the black PTT switch at the handlebar & speak directly into helmet microphone. **SET VOLUME TO MATCH LOUDNESS OF RADIO HANDMIC**

**RADIO CONNECTORS** - mate to accessory connectors at the transceiver.

**NOTE:** When installing, program accessory connector pin 6 for COR (active low), pin 1 for SB+, and pin 5 for PTT (SEE ATTACHED FACTORY APPLICATION NOTE AN258 )  
**NOTE:** When testing volume, make sure the helmet microphone is on axis (not rotated) and held close to the users mouth (within 1/4").  
**NOTE:** Mobile Radio broadcast feature is rated for operation within 15 ft of the motorcycle (line-of-sight).  
**NOTE:** Too much volume will allow wind noise distortion at speed, and not enough volume will be difficult to hear.



**PA VOLUME:**  
 Adjust helmet microphone PA transmit volume with a small flat screwdriver on the siren amplifier (to access, remove Philips head at siren amplifier).  
**NOTE:** An additional gain adjust is available in the Control Module if additional volume adjustment is needed.  
**NOTE:** When testing PA volume, make sure the siren speaker is directed to an open area to avoid improper feedback.  
**NOTE:** When testing PA volume, make sure the helmet microphone is on axis (not rotated) and held close to the users mouth (within 1/4").

# PROGRAMMING

**AUTOSWITCHING SYSTEM PAIRING:** The motor kit must be “paired” to a shouldermic. This creates a unique wireless link between the shouldermic and the motor kit. Once a pairing procedure has been performed, the link is “remembered” by both. A new pair may be established at any time, but until then, the shouldermic and the motor kit will remain “faithful”, responding only to their mate. They will remember who their mate is—even after having been powered off.

- A) Connect helmet to shouldermic. The shouldermic will power on and the LED will begin to flash.  
**NOTE:** Helmet must be connected to the shouldermic to power on.
- B) Power off by pressing the power switch for 2-3 seconds until the LED transitions to a solid color, then release.
- C) Turn on the mobile radio to activate the Motor Kit (auto power-on mode) - the motor status LED will begin to flash. Manually power off the Motor Kit by pressing the power switch for 2-3 seconds until the status LED transitions to a solid color. The release.
- D) From the powered off condition, press the Motor Kit power switch for 7-9 seconds until the LED begins toggling red-green-red-green, then release. The motor has powered on into pairing mode and is searching for a mate.
- E) *Immediately after releasing the switch at the motor*, press the power switch at the shouldermic (from the powered off condition) for 7-9 seconds until the LED begins toggling red-green-red-green, then release. The shouldermic has now powered on into pairing mode and searching for a mate.
- Within 15 seconds both devices will display a green status LED pulse, indicating that they have been successfully paired to each other.

**MOBILE-ONLY SYSTEM PAIRING:** The motor kit must be “paired” to a Headset. This creates a unique wireless link between the Headset and the motor kit. Once a pairing procedure has been performed, the link is “remembered” by both. A new pair may be established at any time, but until then, the Headset and the motor kit will remain “faithful”, responding only to their mate. They will remember who their mate is—even after having been powered off.

- A) If the Headset LED is flashing, power off the Headset by pressing the power switch for 2-3 seconds until the LED transitions to a solid color, then release.
- B) Turn on the mobile radio to activate the Motor Kit (auto power-on mode) - the motor status LED will begin to flash. Manually power off the Motor Kit by pressing the power switch for 2-3 seconds until the status LED transitions to a solid color. The release.
- C) From the powered off condition, press the Motor Kit power switch for 7-9 seconds until the LED begins toggling red-green-red-green, then release. The motor has powered on into pairing mode and is searching for a mate.
- D) *Immediately after releasing the switch at the motor*, press the power switch at the Headset (from the powered off condition) for 7-9 seconds until the LED begins toggling red-green-red-green, then release. The Headset has now powered on into pairing mode and searching for a mate.
- Within 15 seconds both devices will display a green status LED pulse, indicating that they have been successfully paired to each other.

## **POWER ON/OFF MODES:**

**NOTE:** The Motor Kits are factory set for auto power-on mode where they will power on automatically whenever the radio power is turned on. It is recommended to leave the Kit in this configuration.

The Motor Kit may be configured for “auto power-on” mode or “manual power-on” mode:

“Auto power-on” mode causes the motor kit to power on automatically whenever it is provided with “switched battery” power through the radio interface cable connection to the mobile radio.

“Manual power-on” mode causes the motor kit to be powered on when the “Power” button is pressed. To perform a manual power-on, turn on the mobile radio, then press and hold the Power switch for 2-3 seconds until the Status LED lights. Release the switch.

**NOTE:** Reverse the 2-3 second procedure to manually power off.

### Changing power-on modes

Verify the Kit is powered on. Press the power switch quickly 5 times within one second to place the kit in manual power-on mode. Press the power switch quickly 4 times within one second to place the kit in auto power-on mode.



## **INSTALLATION and OPERATING INSTRUCTIONS**

### **Motor-One™ Wireless Mobile Radio Interface Kit with PA Broadcast for Police Motorcycles**

**United States Patents: 7,062,301 6,311,052 7,203,525**

*QUESTIONS? call us at 800-584-4119 Monday through Friday, 7AM to 4PM Pacific Time, USA.*

## **AUTOSWITCHING OPERATION**

### **HELMET DISCONNECTED**

- 1) Attach shouldermic to portable radio, turn the radio on.
  - 2) Press shouldermic PTT switch to transmit.
- NOTE:** An additional PTT switch is located on the radio connector.
- 3) Receive audio will play at the shouldermic speaker.

### **HELMET ATTACHED and MOTORCYCLE KICKSTAND DOWN**

- 1) Attach headset to shouldermic.
  - 2) The following will occur:
    - A) The shouldermic speaker will mute and portable radio will play at the helmet earphones.
    - B) The helmet microphone will now be activated when PTT switch is pressed.
    - C) The wireless transceiver will power-on (auto power-on mode) and the status LED will begin flashing.
- NOTE:** The shouldermic contains a rechargeable battery that powers the internal wireless transceiver, and should be charged each day. Charger connects at the headset connector port.
- ### **HELMET ATTACHED and MOTORCYCLE KICKSTAND UP**
- When paired (see **PAIRING** procedure), the shouldermic and motor kit status LED's will display a green pulse, allowing the following:
- 1) The black handlebar PTT switch will activate mobile radio transmit using the helmet microphone.
  - 2) The red handlebar PTT switch will activate PA broadcast using the helmet microphone.
- NOTE:** Regardless of kickstand position, any PTT switch can be used *at any time*.
- 3) The shouldermic PTT switch will activate portable radio transmit using the helmet microphone.
- NOTE:** For Motor Kits equipped with Remote Speaker Mute (PV-RSM) option, pressing the PTT switch at the Shouldermic will cause the mobile radio speaker to mute.
- 4) Helmet Earphones - With the kickstand is up, helmet earphones will play the mobile radio. With the kickstand down, helmet earphones will play the portable radio.

## **MOBILE-ONLY OPERATION**

- 1) Turn the Wireless Headset on. The Headset status LED will begin flashing.
- NOTE:** The Headset contains a rechargeable battery that powers the internal wireless transceiver, and should be charged each day.
- 2) When paired (see **PAIRING** procedure), the Headset and Motor Kit status LED's will display a green pulse, allowing the following:
    - a) The black handlebar PTT switch will activate mobile radio transmit using the helmet microphone.
    - b) The red handlebar PTT switch will activate PA broadcast using the helmet microphone.
- NOTE:** Regardless of kickstand position, any PTT switch can be used *at any time*.
- c) Helmet Earphones - With the kickstand is up, helmet earphones will play the mobile radio. With the kickstand down, helmet earphones will be turned off.

# APPLICATION NOTE 258

<b>Pyramid Model #:</b> SVR-200	<b>AN#258</b>	<b>Approval Initials:</b>
<b>Radio Model:</b> IcomF1700 Series Conventional	Date: 22-Mar-06	Engineer _____
<b>Engineer:</b> C. Carbajal		Dept. Head _____

<b>Connections:</b>	<b>SVR-200</b>	<b>Function</b>	<b>Radio DB9 of ICOM OPC-617</b>
	Black/Shield	Ground	J2 Pin 9
	White	Tx Audio Out	J2 Pin 4
	Blue	Remote Enable/Disable	External Switch to Ground
	Green	PTT Out	J2 Pin 5
	Red	Switched B+	J2 Pin 1
	Yellow	Rx Audio In	J2 Pin 3
	Violet	COR	J2 Pin 6
	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

<b>SVR-200 Jumpers:</b>				<b>SVR-200 Program:</b>		
	JP1	[-]	Remote Enable		Mobile COR Polarity:	Low
	J1	[Out]	Tx Audio Level		Mobile Type:	Conv
	J2	[Out]	Tx Audio Impedance		On-Air Polarity:	---
	J4	[Out]	Local Mic Audio Loop		Tx Audio Response:	Flat
	J5	[Out]	Local Mic PTT Loop		Rx Audio Response:	Flat
	J6	[Out]	Local Mic Sensitivity		Local Mic Repeat:	Disabled
	J7	[In]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR Pull Up Resistor			

**Additional Modifications (SVR-200):** Adjust SVR-200 RV1 for 2.5VDC

**Additional Modifications (Radio):**

1. Remove the Blue Wire from Pin2 of J8 (11 pin connector) and move this wire to Pin 1 of J8. This provides SWB+ to Pin 1 of the OPC-617 DB9 connector.
2. Ensure that Solder Bead F is installed on the Main Unit PCB of the radio. This enables the external radio input.
3. Disable 2/5 tone functions for the desired channels.
4. In radio cloning software **Common/Common** data screen:
  - A. Set EXO to ON and EXO Delay Timer to OFF
  - B. Set EPTT Delay Timer to OFF
  - C. Set Tone Mute EPTT to OFF