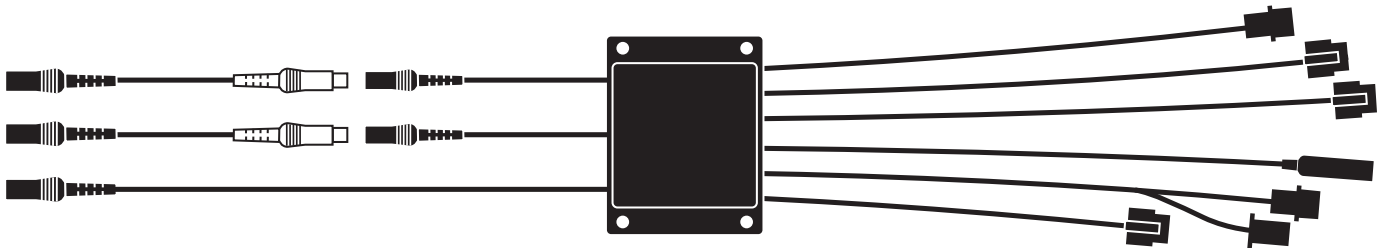


# INTEGRATR™ V

## #MI-2034



## Motorcycle Audio System

## Installation and Operation Instructions

The IntegratrV (#MI-2034) has been developed to provide motorcycle riders with the most advanced audio and communications system available. The IntegratrV allows owners to utilize privately purchased portable modular electronic devices such as cell phones, two way radios, portable music storage devices (MP3/IPOD), along with navigation (GPS)/highway warning audio devices.

The IntegratrV manages all audio sources as well as communications with a passenger and other individuals, whether on motorcycles or other vehicles. There are many choices available, so it is important to fully understand how to manage these options to bring the highest level of enjoyment to you and your passenger. Please read the enclosed manual completely. The manual provides an overview of the audio & communications system, a detailed explanation how each interface operates, and provides an understanding of options / accessories available to maximize your enjoyment of the system.

### Overview

The audio management of the IntegratrV consists of inputs and outputs from numerous standard and optional devices. To gain the most benefit from the system, it is necessary to understand what functions are available. As with all audio systems, these devices operate on different levels, which determine what priority each level has over the other. These levels go from lowest priority (level 1) to highest priority (level 4).

Music can be received into the helmet headsets using the sources listed below:

**Level 1** - Auxiliary Audio Input (MP3 players/iPod/FGA-345's)

**Level 2** - Driver/passenger intercom, which mutes level 1 audio when engaged.

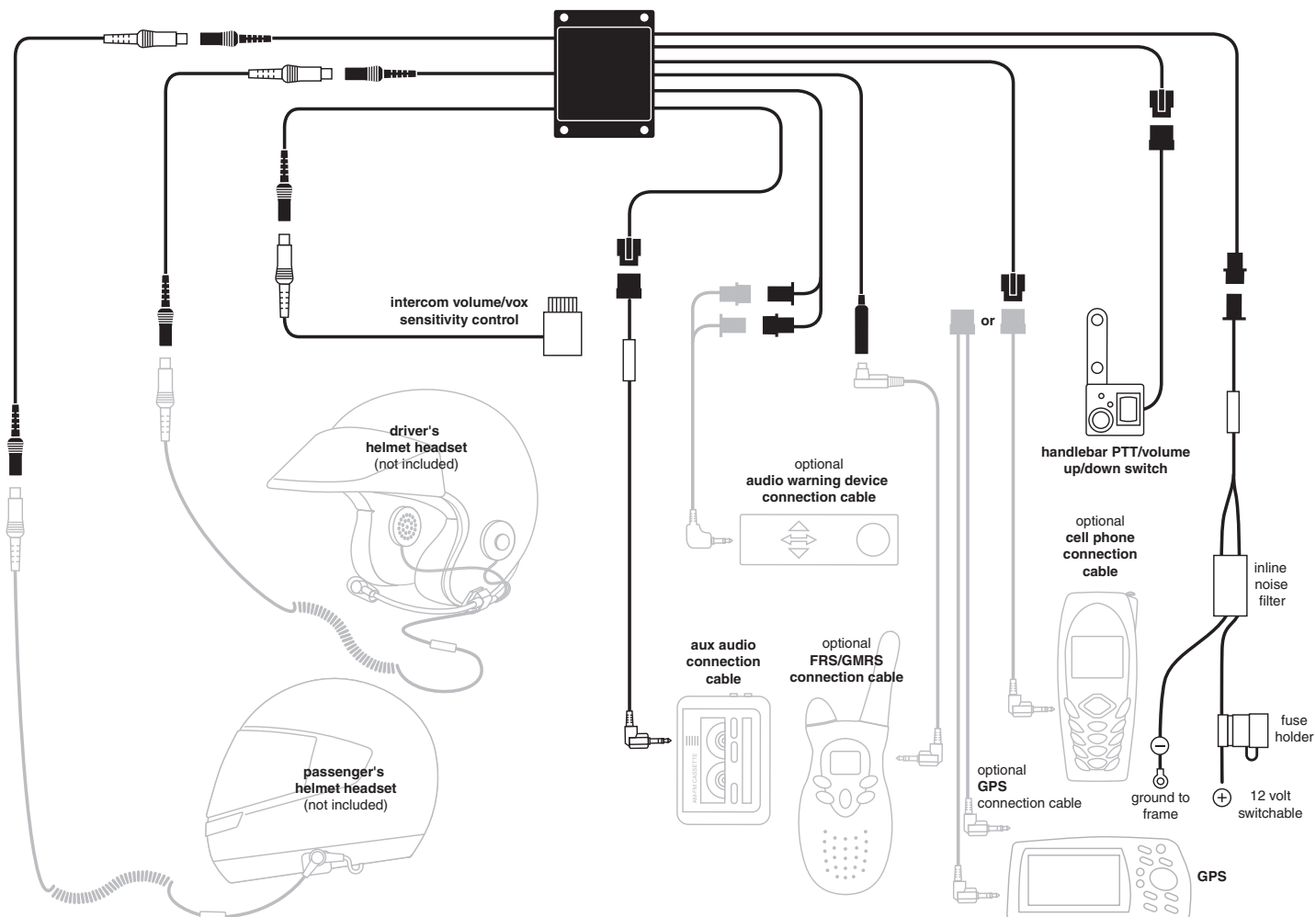
**Level 3** - FRS/GMRS radios (462 MHz two-way radios from Kenwood, Motorola, etc.) will also mute Level 1 audio and mix with Level 2 intercom when signal is received.

**Level 4** - Cell Phone or Navigation (GPS), which mutes level 3 through 1 and also connects rider and passenger helmet headsets to the cell phone.

Radar detector will momentarily interrupt all lower levels (for Right helmet speaker only), to signal:

- Accessory Audio Warning Device (equipped with audio output jack)

The IntegratrV also provides the connection plugs for the rider /passenger headsets for all of the functions noted above. The IntegratrV has been optimized to provide excellent music fidelity for your listening enjoyment.



## Installation

1. Mount the control module inside the front fairing where desired, taking into consideration the wire lengths of the different components. Be sure to keep all the associated cables and wires as far as possible from ignition coils and wires, voltage regulator rectifiers, and other potential sources of unwanted noise. Secure the control module at its mounting location with screws and nuts, double-back tape, or tie straps, all of which are provided.
2. Mount the handlebar control switch assembly to the handlebar with the supplied bracket. Run switch cable to the IntegratrV component and plug in per diagram.
3. Connect the power wire (red) to a switchable power source or accessory terminal so that the unit is automatically turned off when the ignition is turned off. Connect the black wire to a frame ground. If it becomes necessary to replace the fuse use a 3 amp fuse.
4. Route all other cables where desired and hook them up according to the wiring diagram.

## Auxiliary Audio Input

The IntegratrV provides a cable to connect auxiliary audio players (such as MP3/ IPOD devices) to the audio input (Level 1).

- Connect the accessory audio device using the connection auxiliary cable.
- Using the handlebar volume control switch, adjust the audio to maximum volume.
- Then adjust the audio volume of the accessory audio device to a level just before distortion.
- Now adjust the volume to a comfortable headset level using the handlebar rocker volume switch.

## Rider / Passenger Intercom

**Intercom volume adjustment.** To initially set the intercom, **pull out and hold** on the intercom volume/sensitivity knob, turn it all the way clockwise, and release the knob so that it returns to the inward position. With the knob in the inward position turn it clockwise to increase the intercom volume. Speak into your microphone to activate the intercom and continue to adjust the volume to a comfortable level.

**Vox sensitivity adjustment.** Pull out and hold the intercom volume/sensitivity knob to adjust the vox sensitivity. Turning it counter-clockwise will make it more difficult to activate the intercom with your voice. Turning it clockwise makes it easier to voice-activate the intercom function. The idea here is to turn the sensitivity control knob as far counter-clockwise as necessary so as to allow the intercom to be activated only when you or your passenger speak into the microphone.

Once you have adjusted the sensitivity while traveling at highway speeds, it should not have to be adjusted every time you ride.

To find the optimum vox sensitivity, make only small adjustments at a time.

Approximately 3.5 seconds after your intercom conversation is over, the music will return to both helmet speakers at the volume previously set.

**Note:** For maximum enjoyment of the system, it is important that the helmet headset microphone placement be correct, as advised in the headset installation instructions. Too much gap between the mouth and microphone will result in excessive noise entering the system and imperfect intercom operation / VOX switching.

## Cellular Telephone or Navigation Systems (GPS)

The IntegratrV provides an input for cellular phone or Navigation System (GPS). Given the increased emphasis/local legislation requiring the use of cellular phone headsets while driving a car, as well as the proliferation of phone models and calling plans available, J&M is providing a simple connection to the IntegratrV via the cellular phone headset 3.5 mm jack found on most phones. If your phone does not have a headset jack, consult your phone supplier for an accessory headset adapter or with an optional adapter harness a Navigation System can be connected to the IntegratrV.

- Consult your cellular phone owners manual to set your telephone to auto-answer. This will allow you to receive calls while riding, without the need to touch or manipulate the phone to receive a call.
- Adjust the volume of the phone audio to be received at a comfortable level. To do this, use the cellular phone volume control (you need to receive a real call to do this) before the ride begins.
- For cellular phones equipped with voice-command dialing, your helmet headset microphone is continually connected to the cellular phone. This will enable the rider or passenger to activate the voice command dialing feature from the phone itself and give the commands from the helmet mounted mike.
- Once a call is received, the rider and passenger headsets will connect to the phone via a distinct VOX activated intercom channel, muting out all lower level communications (music and FRS radio). Phone conversations are then shared by rider and passenger. Any audio generated from the phone or voice input will keep the intercom latched, with a 3.5 second intercom delay from the last VOX input. If a pause in conversation exceeds 3.5 seconds, lower level audio will return until new VOX input is received.
- You may need to fine-tune the cell phone volume until you have established a comfortable volume level while riding. Manipulation of phone controls while riding is not recommended.

**Note: 1** When using a minority of cell phone providers / systems you may hear a slight buzz in the helmet headset when cellular phone activation occurs. This buzzing noise is normal and can be reduced or eliminated by placing the cellular phone as far away as possible from the IntegratrV.

## FRS / GMRS Two-Way Radio

• The IntegratrV provides a port to connect FRS / GMRS radio's of various types such as Kenwood FreeTalk™ or Motorola " T Series " with corresponding adapter cables.

### Operation

- We recommend reading the owners manual provided with your FRS / GMRS radio to take full advantage of the features and benefits.
- Connect the FRS radio cable to the IntegratrV. Turn the FRS radio "on".
- We recommend placing the radio on the fairing.

- Adjust the volume of the FRS radio to be received at a comfortable level. Use the FRS radio volume control to do this (you need to receive a real transmission to do this) before the ride begins.
- Incoming FRS radio transmissions will activate the intercom system, mute the music (Level 1), and will be heard by rider and passenger. Rider and passenger can discuss what is being heard from the FRS radio without that conversation be transmitted.
- To transmit, rider must press and hold the PTT button.
- The 3.5 second delay of the intercom system aids two-way radio conversations, since most users don't say "over" when their statements are finished. The 3.5 second delay also provides time to bridge the natural pause that occurs while listeners determine the incoming speech has ended, before they respond.

**Note:** If you receive a cell phone call while riding with the FRS radio in use, the cell phone will mute all Level 1 & 3 communications. However, if (out of habit) you press the PTT button while talking on the phone that portion of your phone conversation could be transmitted over the FRS radio.

**Note:** The range afforded with the FRS radio will vary depending upon terrain, weather conditions, outside sources of interference, etc.

### **Radar Detector**

- Mount your radar detector to the motorcycle and connect it to the IntegratV with one of the optional connection cables.
- Radar detectors will momentarily mute all other audio, momentarily muting all other forms of communication only in the right speaker of the helmet headset. Therefore, the left speaker will still be playing whatever audio is being used, but the right speaker will play the warning tone.

Use of radar detectors may not be approved in all States. Please consult and observe all local regulations.

### **Noise and Interference**

Motorcycle audio systems by their very nature are noisy. While we do not guarantee this system to be completely free from electrical noises and interference, we have taken many steps to achieve that goal: the power supply system is well filtered, the unit is shielded in its metal container, and the cables associated with the unit are shielded.

Most modern day motorcycles have resistor-type spark plugs installed by the factory. It may be necessary to insure that resistor-type spark plugs are installed on your motorcycle.

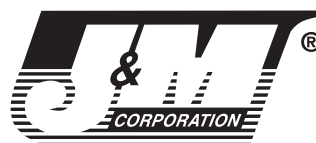
Power requirements: 11-16 volts DC negative ground

Minimum speaker impedance: 32Ω

Typical current draw: 1.5 amps

Thank you for the confidence you have shown in J&M Corporation by purchasing one of our innovative products.

If you have any question or comments about this product, you may contact us at USA 1-520-624-7000 Monday thru Friday, 8:00AM thru 5:00PM Mountain Standard Time.



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