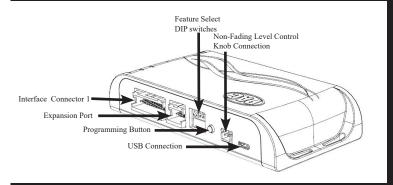
Introduction and Features

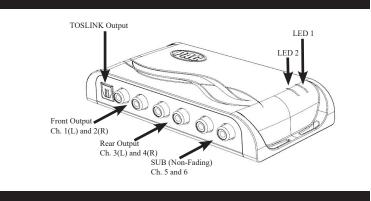
The AP4-FD32 provides a 6-channel pre-amp output for use with aftermarket audio equipment. Using the digital A2B audio data in conjunction with CAN data, the AP4-FD32 delivers a variable 5v RMS pre-amp output with fading, balance, equalization, and level control capabilities. The module also retains audio from other vehicle features such as factory navigation prompts, safety chimes, Bluetooth and voice activation. A data bus controlled remote amplifier turn on wire is also provided by the AP4-FD32. The module also provides a variable 2-channel fiber optic digital audio output (TOSLINK).

Important Notes

- 1. This interface is only compatible in vehicles equipped with an A2B data bus controlled premium sound system. To verify compatibility, look for a B&O badge on the door speakers or dash speakers.
- 2. The AP4 interface installs at the factory amplifier location. Included T-Harness installs behind radio to access factory speaker wiring not available at factory amplifier.
- 3. The factory amplifier will be disconnected and will no longer power the vehicle speakers. An aftermarket amplifier must be added to power the vehicle's speakers. For example, you cannot only add a subwoofer, as the factory speakers that were connected to the factory amplifier will no longer function.
- 4. On most Ford models, some of the vehicle speakers will be connected to the radio module in addition to the external amplifier. These speakers will also stop working when the factory amplifier is disconnected and will need to be powered by an aftermarket amplifier.
- 5. The chime volume and minimum volume levels are set to 50% by default. If this level is adequate, no additional adjustment is required. Please refer to the Setup and Configuration section on page 4 for more details.
- 6. The level control knob must be connected in order to manually adjust the minimum volume settings.
- 7. The remote output is rated at 2A of current. If more current is needed, an external relay must be used.
- 8. Channels 5 and 6 are non-fading outputs. The output level of channels 5 and 6 can be controlled using the supplied level control knob.
- 9. No adjustments can be made manually using the programming button, or the factory SWC, when the module is connected to a PC.

Module Layout







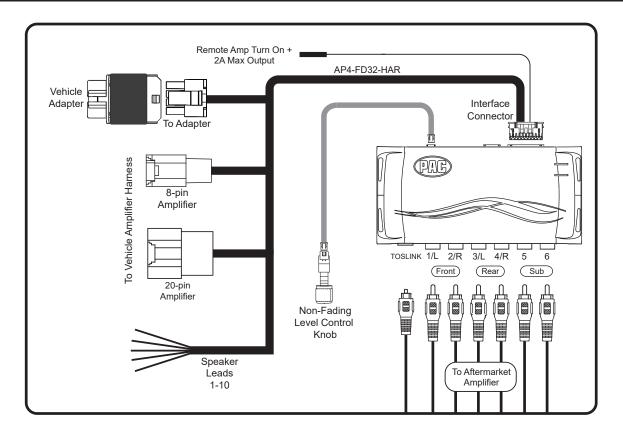
Set DIP switches to the ON position to activate the corresponding features. Set DIP switches to the OFF position for any features that are not desired.

	DIPSWITCH
ON	ON = DOWN

Two Channel Mode	5v / 4v Preout	Not Used	Not Used
1	2	3	4



Wiring Connection Chart



Installation

- 1. Access the factory amplifier (Audio Digital Sound Processing Module).
- 2. Disconnect the 20-pin, 8-pin and A2B 4-pin connectors from the amplifier. The amplifier can be removed or left in the vehicle.
- 3. Plug the 20-pin, 8-pin and A2B Adapter cables into the matching connectors on the AmpPRO (AP4-FD32-HAR) harness.
- 4. Before connecting the interface, set any feature DIP switches that apply to the install:
 - a. DIP switch 1 is used for two channel mode. In this mode, all outputs will be non-fading and all chimes are diverted through channels 1 & 2 and TOSLINK.
 - b. Set DIP switch 2 on (down) to lower the RCA output voltage to 4v. Leave DIP switch 2 off (up) to keep the RCA output voltage at 5v. See troubleshooting section on Page 6 for more details.
 - c. DIP switch 3 & 4 are not used and should remain off (up).
- Connect the AmpPRO harness to the AmpPRO interface.
- 5. Connect the level control knob cable to the AmpPRO interface.
- 6. Connect the signal cables (RCA/TOSLINK) and remote input from the aftermarket amplifier.

NOTE! The aftermarket amplifier must have a very solid ground and the amplifier power/ground connections should be made before connecting the RCA's or Remote Turn On to the AP4-FD32! On aluminum framed vehicles, it is recommended to ground directly to the battery.

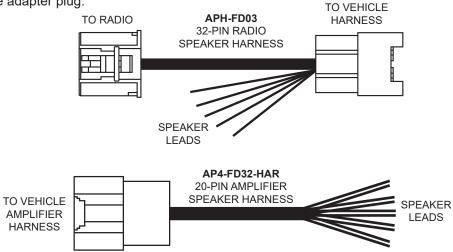
7. Reference the Speaker Connections section on the next page to connect speaker wires.



Speaker Connections

If using the factory speaker wires to connect to the aftermarket amplifier, they will be located in two locations, at the 20-pin and 8-pin plugs at the Digital Sound Processing Module (Amplifier) and a 32-pin plug at the Audio Control Module (Radio). Adapter plugs are provided for all speaker wire connections.

Because the factory speaker wire pin locations, colors and plug style vary from model to model, use a tone generator to find speaker locations and polarity and fill in the chart below. Please note that most vehicles will not follow the "standard" speaker wire colors and polarity. For example the right front positive speaker lead may connect to the left rear negative (GRN/BLK) lead on the adapter plug.



20 & 8 Pin Plugs at AMPLIFIER (DSP) (AP4-FD32-HAR)			
LEADS	PAC COLOR	POSITION/POLARITY	
Speaker 1	WHT		
Speaker 1	WHT/BLK		
Speaker 2	GRY		
Speaker 2	GRY/BLK		
Speaker 3	GRN		
Speaker 3	GRN/BLK		
Speaker 4	VIO		
Speaker 4	VIO/BLK		
Speaker 5	RED		
Speaker 5	RED/BLK		
Speaker 6	BLU		
Speaker 6	BLU/BLK		
Speaker 7	BRN		
Speaker 7	BRN/BLK		
Speaker 8	WHT/BLU		
Speaker 8	WHT/RED		
Speaker 9	LT GRN		
Speaker 9	LT GRN/BLK		
Speaker 10	ORG		
Speaker 10	ORG/BLK		

32 Pin Plug at RADIO (ACM) (APH-FD03)			
LEADS	PAC COLOR	POSITION/POLARITY	
Speaker 1	WHT		
Speaker 1	WHT/BLK		
Speaker 2	GRY		
Speaker 2	GRY/BLK		
Speaker 3	GRN		
Speaker 3	GRN/BLK		
Speaker 4	VIO		
Speaker 4	VIO/BLK		
Speaker 5	ORG		
Speaker 5	ORG/BLK		
NOTES:	I		

Setup and Configuration

- Once all connections have been made and all factory harnesses are reconnected, close all the doors, lock the car using the factory keyfob, and let the vehicle sit for 10 minutes with the keyfob out of range. This will ensure that the vehicle data-bus goes to sleep and the AmpPRO will function as intended.
- 2. Turn the ignition on. LED 1 on the interface will turn on and the +12v remote output will turn on.
- 3. Set the amp gain(s) to the desired level. We recommend using an oscilliscope and test tones to set the amp gain(s). Please refer to the MECP Advanced study guide if you are unfamiliar with this process.
- Check volume, balance, fade and EQ settings.
- 5. If you would like to adjust the minimum volume, do so using one of the methods outlined below. If you are happy with the default levels, no adjustments are necessary.
- 6. If you would like to adjust chime volume you may do so using the AmpPRO PC App.

PLEASE NOTE: Level control knob must be connected to module for either of the following methods.

Manually Setting the Minimum Volume

If the minimum volume of the radio (factory radio volume level 1) is too loud, you can manually set the level of the minimum volume using the level control knob and either the programming button on the side of the interface or the factory SWC. If you would like to set the minimum volume using the AmpPRO app, please proceed to the AmpPRO PC App section.

Setting the minimum volume using the programming button

- 1. Start with the level control knob turned all the way down (counter-clockwise).
- 2. Set the amp gains to the desired level.
- 3. Set the volume on the factory radio to 1.
- 4. Press and release the programming button on the side of the interface.
- 5. LED 1 will turn amber and there will be two beeps.
- Turn the level control knob clockwise until the desired minimum volume level is reached.
- 7. You can now either press the programming button once or wait ten seconds to exit the settings.

Setting the minimum volume using the factory SWC

- 1. Start with the level control knob turned all the way down (counter-clockwise).
- 2. Set the amp gains to the desired level.
- 3. Set the volume on the factory radio to 1.
- 4. Press and hold the track up button on the factory SWC for approximately ten seconds. **PLEASE NOTE**: The radio will respond to the SWC commands during this process, this is normal and has no effect on the AP4 operation.
- 5. LED 1 will turn amber and there will be two beeps.
- 6. Turn the level control knob clockwise until the desired minimum volume level is reached.
- 7. You can now either press the programming button once or wait ten seconds to exit the settings.

Setting the chime volume

- The chime volume can be adjusted using the AmpPRO PC Application.
- The Dip switch 1 setting must be made prior to connecting the AP4 to the computer for the correct chime sliders to populate on the AmpPRO PC Application.
- When dip switch 1 is in the off (up) position, the AmpPRO will send front chimes to channels 1 & 2 and rear chimes to channels 3 & 4. In this scenario, there will be a slider for front chime volume and a slider for rear chime volume.
- When dip switch 1 is in the on (down) position, this will enable 2 channel mode, sending the front and rear chimes to channels 1 & 2 and the TOSLINK output. In this scenario, there will be one slider for chime volume adjust.
- Adjustments can be made on the bench or in vehicle. If you want to hear the adjustments in real time, you will need to
 trigger the appropriate chimes while adjusting them (example: rear park sensors for rear chimes or open a door while in
 gear for front chime)

See the next page for more information on the AmpPRO PC Application.



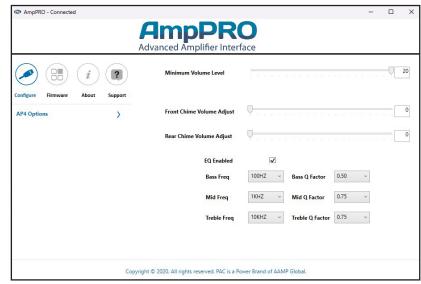
AmpPRO PC App

Use of the AmpPRO PC App allows you to do the following:

- Configure User Interface Options such as:
 - Minimum Volume Level
 - · Chime Volume Level
 - · Front Chime Volume
 - · Rear Chime Volume
 - · Enable / Disable factory EQ
 - Bass / Mid / Treble boost frequencies and Q
- Update Product Firmware
- Read Firmware / Hardware Versions

You can download the Amp PRO app at:

https://pac-audio.com/pages/apps



Shown with dip switch 1 off

PLEASE NOTE: These settings can be adjusted with the module installed in the vehicle, or on the bench. However, it is recommended to make the adjustments with the module installed, and the factory radio on, so that the changes can be heard.

Minimum Volume Level - This allows you to set the minimum volume level of the factory radio (factory radio volume level 1). Chime Volume Level - This allows you to set the volume of the AP4 chimes (ie: park sensors).

3 Band EQ Enabled - This allows you to enable / disable the 3 band factory EQ.

Bass / Mid / Treble Freq / Q Factor - This allows you to set the center frequency that will be adjusted when setting the 3 band factory EQ, as well as the Q Factor for each frequency. The Q Factor determines how many of the adjacent frequencies will be

	Available Frequencies and Q Factors				
	60HZ		500HZ	Treble Frequency	7.5KHZ
D F	80HZ		1KHZ		10KHZ
Bass Frequency	100HZ	Mid Frequency	1.5KHZ		12.5KHZ
	120HZ		2.5KHZ		15KHZ
	0.50		0.75		
Bass Q Factor	1.00	Mid O Factor	1.00	Treble O Factor	0.75
	1.50		1.25		
	2.00		1.50		1.25

PAC-audio.com



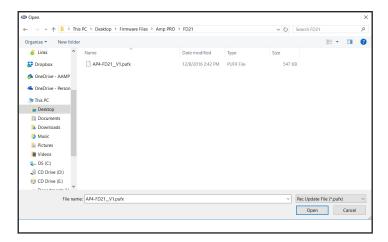
AmpPRO PC App (cont)

Firmware Updates

The AmpPRO app will also allow you to update the interface with new firmware as it becomes available. Please visit www.pac-audio.com or contact our tech support department to see if there is a firmware update for your interface.

Connect the interface to your PC and select "Firmware", then "Update Firmware". Now select "Select File". Finally, browse to the place where you saved the file and select it. This will begin the updating process. Once finished, disconnect the interface from the PC and resume normal operation.





Restoring Factory Settings

You can restore the interface to factory default settings by pressing and holding the programming button on the side of the module until the status LEDs start blinking red. Once the LEDs start blinking red, release the button. A sleep cycle will be needed after a reset is performed in order to restore proper operation of the AP4.

This reset will restore the following settings to their factory defaults:

- Chime volume level
- · Minimum volume level
- Enable / Disable factory EQ
- Factory EQ frequency
- · Factory EQ Q factor

Troubleshooting

- 1. No audio Check to see if LED 1 is illuminated. If not, cycle the ignition off and back on.
- 2. Hiss at high amp gain Set feature DIP switch 2 to the on (down) position to lower the output voltage of the AP4 to 4v. If you still hear the hiss, lower your amp gains until the hiss is gone.

3. Low volume setting on radio is too loud - Set minimum volume using process outlined in Setup and Configuration, or using the AmpPRO application.

LED Legend			
	Action/Color	During Normal Operation	
LED 1	Solid Red	Module Active	
	Solid Amber	Minimum Volume Adjustment Mode	
	Rapid Blink Any Color	DSP Activity	
	Blinking Amber	USB Connection Detected	
LED 2	Solid Red	No A2B Detected	
	Solid Green	A2B Detected	
Both LEDs	Alternate Blinking Red	Performing Memory Reset	



Technical Support

Email: support@PAC-audio.com

Phone: 727-592-5991 **Chat:** PAC-Audio.com

Warranty

LIMITED WARRANTY

The quality controls used to manufacture PAC products are designed to ensure your complete satisfaction.

This warranty applies only to the original owner of PAC products purchased from an authorized PAC dealer. It covers PAC products that, upon inspection by authorized PAC personnel, are found to have failed in normal use due to defects in material or workmanship. This warranty does not cover installation expenses.

Attempting to service or modify our products, or operate them outside their recommended usage will render this WARRANTY VOID.

Unless prescribed by law, PAC is not liable for any personal injury, property damage and/or incidental or consequential damages (including water damage) resulting from product malfunctions, defects and/or misuse. PAC is also not liable for any products that are altered or improperly installed.

WARRANTY PERIOD AND PROCESS

Within the first 12 months from date of purchase, subject to the conditions above, PAC will repair or replace product at its sole discretion if it is found to be defective in material or workmanship. Product must be returned to an authorized PAC dealer with PROOF OF PURCHASE.

For additional vehicle applications visit the AP4-FD32 product page on PAC-audio.com





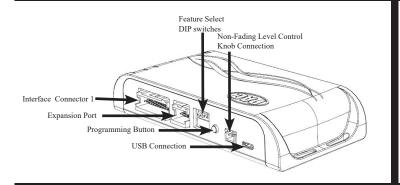
Introduction and Features

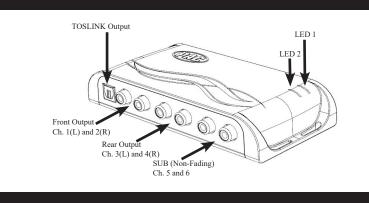
The AP4-FD32 provides a 6-channel pre-amp output for use with aftermarket audio equipment. Using the digital A2B audio data in conjunction with CAN data, the AP4-FD32 delivers a variable 5v RMS pre-amp output with fading, balance, equalization, and level control capabilities. The module also retains audio from other vehicle features such as factory navigation prompts, safety chimes, Bluetooth and voice activation. A data bus controlled remote amplifier turn on wire is also provided by the AP4-FD32. The module also provides a variable 2-channel fiber optic digital audio output (TOSLINK).

Important Notes

- 1. This interface is only compatible in vehicles equipped with an A2B data bus controlled premium sound system. To verify compatibility, look for a B&O badge on the door speakers or dash speakers.
- 2. The AP4 interface installs at the factory amplifier location. Included T-Harness installs behind radio to access factory speaker wiring not available at factory amplifier (if applicable).
- 3. The factory amplifier will be disconnected and will no longer power the vehicle speakers. An aftermarket amplifier must be added to power the vehicle's speakers. For example, you cannot only add a subwoofer, as the factory speakers that were connected to the factory amplifier will no longer function.
- 4. On most Ford models, some of the vehicle speakers will be connected to the radio module (ACM) in addition to the external amplifier. These speakers will also stop working when the factory amplifier is disconnected and will need to be powered by an aftermarket amplifier.
- 5. The chime volume and minimum volume levels are set to 50% by default. If this level is adequate, no additional adjustment is required. Please refer to the Setup and Configuration section on page 4 for more details.
- 6. The level control knob must be connected in order to manually adjust the minimum volume settings.
- 7. The remote output is rated at 2A of current. If more current is needed, an external relay must be used.
- 8. Channels 5 and 6 are non-fading outputs. The output level of channels 5 and 6 can be controlled using the supplied level control knob.
- 9. No adjustments can be made manually using the programming button, or the factory SWC, when the module is connected to a PC.

Module Layout





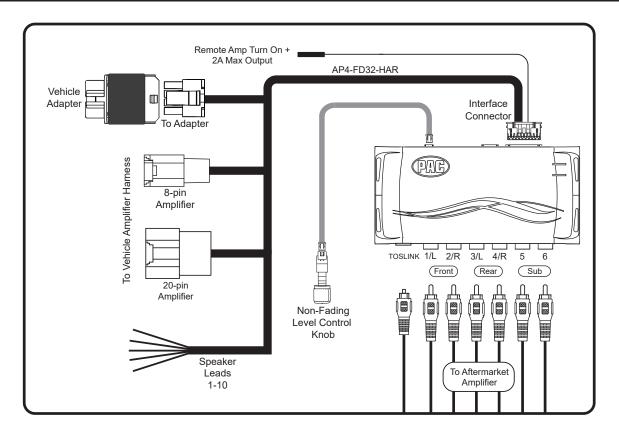


Set DIP switches to the ON position to activate the corresponding features. Set DIP switches to the OFF position for any features that are not desired.

	DIPSWITCH
ON	ON = DOWN

Two Channel Mode	5v / 4v Preout	Not Used	Vehicle Select
1	2	3	4

Wiring Connection Chart



Installation

- 1. Access the factory amplifier (Audio Digital Sound Processing Module).
- 2. Disconnect the 20-pin, 8-pin and A2B 4-pin connectors from the amplifier. The amplifier can be removed or left in the vehicle.
- 3. Plug the 20-pin, 8-pin and A2B Adapter cables into the matching connectors on the AmpPRO (AP4-FD32-HAR) harness.
- 4. Before connecting the interface, set any feature DIP switches that apply to the install:
 - **a. DIP Switch 1:** is used for two channel mode. In this mode, all outputs will be non-fading and all chimes are diverted through channels 1 & 2 and TOSLINK.
 - **b. DIP Switch 2:** Set to on (down) position to lower the RCA output voltage to 4v. Leave DIP switch 2 off (up) to keep the RCA output voltage at 5v. See troubleshooting section on Page 6 for more details.
 - c. DIP Switch 3: is not used and should remain off (up).
 - **d. DIP Switch 4:** Set to on (down) position if installing interface in a Lightning. For all other vehicle models, DIP switch 4 should be off (up).
- 5. Connect the AmpPRO harness to the AmpPRO interface.
- 6. Connect the level control knob cable to the AmpPRO interface.
- 7. Connect the signal cables (RCA/TOSLINK) and remote input from the aftermarket amplifier.

NOTE! The aftermarket amplifier must have a very solid ground and the amplifier power/ground connections should be made before connecting the RCA's or Remote Turn On to the AP4-FD32! On aluminum framed vehicles, it is recommended to ground directly to the battery.

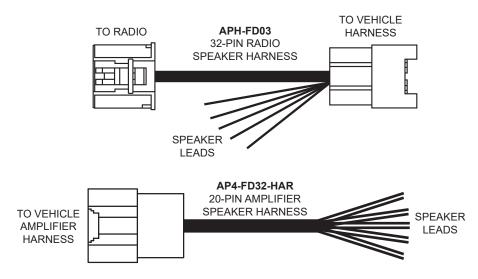
8. Reference the Speaker Connections section on the next page to connect speaker wires.



Speaker Connections

If using the factory speaker wires to connect to the aftermarket amplifier, they may be located in two locations, at the 20-pin and 8-pin plugs at the Digital Sound Processing Module (Amplifier) and a 32-pin plug at the Audio Control Module (Radio). Adapter plugs are provided for all speaker wire connections.

Because the factory speaker wire pin locations, colors and plug style vary from model to model, use a tone generator to find speaker locations and polarity and fill in the chart below. Please note that most vehicles will not follow the "standard" speaker wire colors and polarity. For example the right front positive speaker lead may connect to the left rear negative (GRN/BLK) lead on the adapter plug. Start testing with the 20 and 8 pin plugs at the factory amplifier location. If you find all of the speaker wires at this location, it will not be necessary to use the 32 pin connector at the Audio Control Module.



20 & 8 Pin P	20 & 8 Pin Plugs at AMPLIFIER (DSP) (AP4-FD32-HAR)			
LEADS	PAC COLOR	POSITION/POLARITY		
Speaker 1	WHT			
Speaker 1	WHT/BLK			
Speaker 2	GRY			
Speaker 2	GRY/BLK			
Speaker 3	GRN			
Speaker 3	GRN/BLK			
Speaker 4	VIO			
Speaker 4	VIO/BLK			
Speaker 5	RED			
Speaker 5	RED/BLK			
Speaker 6	BLU			
Speaker 6	BLU/BLK			
Speaker 7	BRN			
Speaker 7	BRN/BLK			
Speaker 8	WHT/BLU			
Speaker 8	WHT/RED			
Speaker 9	LT GRN			
Speaker 9	LT GRN/BLK			
Speaker 10	ORG			
Speaker 10	ORG/BLK			

32 Pin Plug at RADIO (ACM) (APH-FD03)			
LEADS	PAC COLOR	POSITION/POLARITY	
Speaker 1	WHT		
Speaker 1	WHT/BLK		
Speaker 2	GRY		
Speaker 2	GRY/BLK		
Speaker 3	VIO		
Speaker 3	VIO/BLK		
Speaker 4	GRN		
Speaker 4	GRN/BLK		
Speaker 5	ORG		
Speaker 5	ORG/BLK		
NOTES:			

Setup and Configuration

- Once all connections have been made and all factory harnesses are reconnected, close all the doors, lock the car using the factory keyfob, and let the vehicle sit for 10 minutes with the keyfob out of range. This will ensure that the vehicle data-bus goes to sleep and the AmpPRO will function as intended.
- 2. Turn the ignition on. LED 1 on the interface will turn on and the +12v remote output will turn on.
- 3. Set the amp gain(s) to the desired level. We recommend using an oscilliscope and test tones to set the amp gain(s). Please refer to the MECP Advanced study guide if you are unfamiliar with this process.
- 4. Check volume, balance, fade and EQ settings.
- 5. If you would like to adjust the minimum volume, do so using one of the methods outlined below. If you are happy with the default levels, no adjustments are necessary.
- 6. If you would like to adjust chime volume you may do so using the AmpPRO PC App.

PLEASE NOTE: Level control knob must be connected to module for either of the following methods.

Manually Setting the Minimum Volume

If the minimum volume of the radio (factory radio volume level 1) is too loud, you can manually set the level of the minimum volume using the level control knob and either the programming button on the side of the interface or the factory SWC. If you would like to set the minimum volume using the AmpPRO app, please proceed to the AmpPRO PC App section.

Setting the minimum volume using the programming button

- 1. Start with the level control knob turned all the way down (counter-clockwise).
- 2. Set the amp gains to the desired level.
- 3. Set the volume on the factory radio to 1.
- 4. Press and release the programming button on the side of the interface.
- 5. LED 1 will turn amber and there will be two beeps.
- Turn the level control knob clockwise until the desired minimum volume level is reached.
- 7. You can now either press the programming button once or wait ten seconds to exit the settings.

Setting the minimum volume using the factory SWC

- 1. Start with the level control knob turned all the way down (counter-clockwise).
- Set the amp gains to the desired level.
- 3. Set the volume on the factory radio to 1.
- 4. Press and hold the track up button on the factory SWC for approximately ten seconds. **PLEASE NOTE**: The radio will respond to the SWC commands during this process, this is normal and has no effect on the AP4 operation.
- 5. LED 1 will turn amber and there will be two beeps.
- Turn the level control knob clockwise until the desired minimum volume level is reached.
- 7. You can now either press the programming button once or wait ten seconds to exit the settings.

Setting the chime volume

- The chime volume can be adjusted using the AmpPRO PC Application.
- The Dip switch 1 setting must be made prior to connecting the AP4 to the computer for the correct chime sliders to populate on the AmpPRO PC Application.
- When dip switch 1 is in the off (up) position, the AmpPRO will send front chimes to channels 1 & 2 and rear chimes to channels 3 & 4. In this scenario, there will be a slider for front chime volume and a slider for rear chime volume.
- When dip switch 1 is in the on (down) position, this will enable 2 channel mode, sending the front and rear chimes to channels 1 & 2 and the TOSLINK output. In this scenario, there will be one slider for chime volume adjust.
- Adjustments can be made on the bench or in vehicle. If you want to hear the adjustments in real time, you will need to
 trigger the appropriate chimes while adjusting them (example: rear park sensors for rear chimes or open a door while in
 gear for front chime)

See the next page for more information on the AmpPRO PC Application.



AmpPRO PC App

Use of the AmpPRO PC App allows you to do the following:

- Configure User Interface Options such as:
 - Minimum Volume Level
 - Chime Volume Level
 - · Front Chime Volume
 - · Rear Chime Volume
 - · Enable / Disable factory EQ
 - Bass / Mid / Treble boost frequencies and Q factor
- · Update Product Firmware
- Read Firmware / Hardware Versions

You can download the Amp PRO app at:

https://pac-audio.com/pages/apps



Shown with dip switch 1 off

PLEASE NOTE: These settings can be adjusted with the module installed in the vehicle, or on the bench. However, it is recommended to make the adjustments with the module installed, and the factory radio on, so that the changes can be heard.

Minimum Volume Level - This allows you to set the minimum volume level of the factory radio (factory radio volume level 1). **Chime Volume Level** - This allows you to set the volume of the AP4 chimes (ie: park sensors).

3 Band EQ Enabled - This allows you to enable / disable the 3 band factory EQ.

Bass / Mid / Treble Freq / Q Factor - This allows you to set the center frequency that will be adjusted when setting the 3 band factory EQ, as well as the Q Factor for each frequency. The Q Factor determines how many of the adjacent frequencies will be

	Available Frequencies and Q Factors				
	60HZ		500HZ	Treble Frequency	7.5KHZ
Pace Fraguency	80HZ		1KHZ		10KHZ
Bass Frequency	100HZ	Mid Frequency	1.5KHZ		12.5KHZ
	120HZ		2.5KHZ		15KHZ
	0.50	l l	0.75		
Bass Q Factor	1.00		1.00	Treble () Factor	0.75
	1.50	IVIIU Q FACTOI	1.25		
	2.00		1.50		1.25



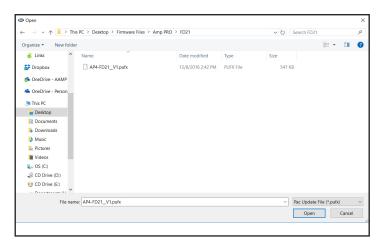
AmpPRO PC App (cont)

Firmware Updates

The AmpPRO app will also allow you to update the interface with new firmware as it becomes available. Please visit www.pac-audio.com or contact our tech support department to see if there is a firmware update for your interface.

Connect the interface to your PC and select "Firmware", then "Update Firmware". Now select "Select File". Finally, browse to the place where you saved the file and select it. This will begin the updating process. Once finished, disconnect the interface from the PC and resume normal operation.





Restoring Factory Settings

You can restore the interface to factory default settings by pressing and holding the programming button on the side of the module until the status LEDs start blinking red. Once the LEDs start blinking red, release the button. A sleep cycle will be needed after a reset is performed in order to restore proper operation of the AP4.

This reset will restore the following settings to their factory defaults:

- Chime volume level
- · Minimum volume level
- Enable / Disable factory EQ
- Factory EQ frequency
- · Factory EQ Q factor

Troubleshooting

- 1. No audio Check to see if LED 1 is illuminated. If not, cycle the ignition off and back on.
- 2. Hiss at high amp gain Set feature DIP switch 2 to the on (down) position to lower the output voltage of the AP4 to 4v. If you still hear the hiss, lower your amp gains until the hiss is gone.
- 3. Low volume setting on radio is too loud Set minimum volume using process outlined in Setup and Configuration, or using the AmpPRO application.

LED Legend			
	Action/Color	During Normal Operation	
LED 1	Solid Red	Module Active	
	Solid Amber	Minimum Volume Adjustment Mode	
	Rapid Blink Any Color	DSP Activity	
	Blinking Amber	USB Connection Detected	
LED 2	Solid Red	No A2B Detected	
	Solid Green	A2B Detected	
Both LEDs	Alternate Blinking Red	Performing Memory Reset	



Technical Support

Email: support@PAC-audio.com

Phone: 727-592-5991 **Chat:** PAC-Audio.com

Warranty

LIMITED WARRANTY

The quality controls used to manufacture PAC products are designed to ensure your complete satisfaction.

This warranty applies only to the original owner of PAC products purchased from an authorized PAC dealer. It covers PAC products that, upon inspection by authorized PAC personnel, are found to have failed in normal use due to defects in material or workmanship. This warranty does not cover installation expenses.

Attempting to service or modify our products, or operate them outside their recommended usage will render this WARRANTY VOID.

Unless prescribed by law, PAC is not liable for any personal injury, property damage and/or incidental or consequential damages (including water damage) resulting from product malfunctions, defects and/or misuse. PAC is also not liable for any products that are altered or improperly installed.

WARRANTY PERIOD AND PROCESS

Within the first 12 months from date of purchase, subject to the conditions above, PAC will repair or replace product at its sole discretion if it is found to be defective in material or workmanship. Product must be returned to an authorized PAC dealer with PROOF OF PURCHASE.

For additional vehicle applications visit the AP4-FD32 product page on PAC-audio.com



