



*Brazilian Power*

***A7PRO 3K.2***

***A7PRO 4K.4***

# **User Manual**

**Installation Instructions/Owner's Manual**

[www.dbdrive.net](http://www.dbdrive.net)

DUE TO CONTINUOUS IMPROVEMENT OF THE PRODUCT THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

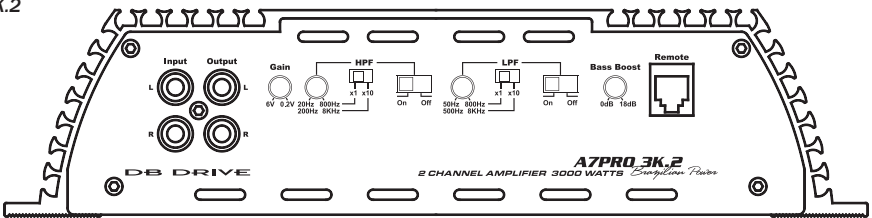
### 1. AMPLIFIERS' SPECIFICATION

#### 1-1. AMPLIFIER

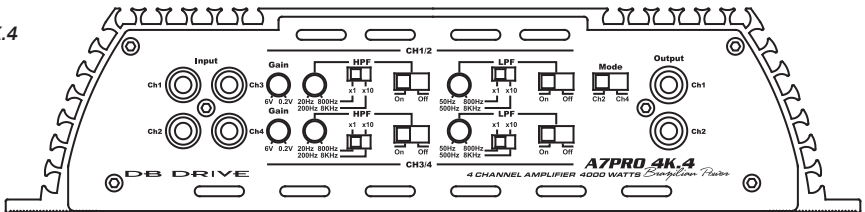
Load	Voltage & THD	A7 PRO3K.2	A7 PRO4K.4
4ohm	14.4 volts & 1%	2 x 525 Watts	4 x 250 Watts
2ohm	14.4 volts & 1%	2 x 1050 Watts	4 x 500 Watts
1ohm	14.4 volts & 1%	2 x 1500 Watts	4 x 1000 Watts
4ohm	(Bridged)	1 x 2200 Watts	2 x 2000 Watts
2ohm	(Bridged)	1 x 3000 Watts	N/A
1ohm	(Bridged)	N/A	N/A
Working Voltage		10 ~ 16Volts	
Frequency Response		<b>A7 PRO3K.2</b> 20Hz ~ 25KHz	<b>A7 PRO4K.4</b> 20Hz ~ 25KHz
Signal to Noise Ratio		< 95dB	< 95dB
Damping Factor		100 dB<	100 dB<
Low Level Input		6V ~ 0.2V	6V ~ 0.2V
High Pass Filter Variable		20Hz ~ 8KHz	35Hz ~ 10KHz
Low Pass Filter Variable		50Hz ~ 8KHz	50Hz ~ 8KHz
Bass Boost @ 45Hz Variable		0 ~ 18 dB	N/A
Remote Level Control		Yes	N/A
RCA line Output		Yes	Yes
Minimum working impedance		1 ohm In Stereo	1 ohm In Stereo

### 2. AMPLIFIER'S CONTROL & CONNECTION.

A7 PRO3K.2



A7 PRO4K.4



#### INPUT

Connect RCA output cables from the headunit to OKUR Competition amplifiers' RCA Input

#### OUTPUT

Is used when connecting multiple amplifiers

#### POWER & PROTECTION INDICATOR

Power LED - Green-lit shows normal operation.  
Protect LED - RED-lit shows general malfunction, faulty connection or thermal protection.

#### **GAIN (6V ~ 0.2V)**

Matching the output voltage of the headunit's RCA line-outs to OKUR amplifiers' input section.

#### **BASS BOOST (A7PRO3K.2)**

It boosts the bass 0 ~ 18dB

#### **REMOTE LEVEL CONTROL PORT (A7PRO3K.2)**

This port is for connecting remote gain level control

#### **High PASS FILTER**

Controls the High pass Crossover point for the speaker outputs.

#### **LOW PASS FILTER**

Controls the low pass Crossover point for the speaker outputs.

#### **+12V (POWER CONNECTION)**

This must be connected to the fuse positive terminal (+12V) of the battery.

Recommended wire is 4 gauge or thicker  
Check the battery voltage.

#### **GND (GROUND CONNECTION)**

It is connected to the Negative or ground cables of the vehicle.

Recommended wire is 4 gauge or thicker

#### **REM (REMOTE)**

It is connected to switched +12V with a trigger cable coming from the head unit.

#### **SPEAKER OUTPUTS**

It connects amplifier's terminal to subwoofer speakers.

Minimum speaker wire is 12 gauge.

### **3. INSTALLATION**

In case you install the amplifier by yourself, please read owner's manual very carefully before your installation. Please take all steps into consideration or, you can have DB Drive or DB Research's authorized dealer to check installation and set your car audio systems.

#### **3-1. MOUNTING PREPARATION**

Disconnect the negative (-) battery cable before mounting your amplifier or making any connections. Check the battery and alternator ground (-) connections. Make sure they are properly connected and free of corrosion before selecting a mounting location. Please take some concerns into consideration with cooling efficiency and safety.

#### **3-2. MOUNTING PREPARATION**

The A7PRO amplifiers use a specially designed heat radiation heatsink to avoid excessive heat from circuitry. But for better heat dissipation, it is good to find the mounting location where you can install vertically with the heatsink fins and better air flow around heatsink.

For the safety, You have to find a dry and well ventilated location and make sure any cables and drilling car equipment are not interfere with mounting location. Be sure the mounting location and drilling of pilot cables will not present a hazard to any cables, control cables, fuel lines, fuel tanks, hydraulic lines or other vehicle systems or components.

#### **3-3. +12V, GND, REM CONNECTION.**

##### **12V (POWER CONNECTION)**

Before mounting amplifier, disconnect the negative (-) wire from battery to protect any accidental damage to amplifier and audio system. A7PRO3K.2 use minimum 4 gauge cables.

Connect the power cables to power terminal labeled as +12V. A7PRO Amplifiers are not internally fused and require external fusing.

In order to install external fuses, connect one end of fuse holder to the power cable and the other end of fuse holder to positive battery within 18in of the same cable gauge. This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable.

Be sure to use fuses and fuse holders adequate for the current draw application.

### **GAIN (6V ~ 0.2V)**

Matching the output voltage of the headunit's RCA line-outs to OKUR amplifiers' input section.

### **BASS BOOST (A7PRO3K.2)**

It boosts the bass 0 ~ 18dB

### **REMOTE LEVEL CONTROL PORT (A7PRO3K.2)**

This port is for connecting remote gain level control

### **High PASS FILTER**

Controls the High pass Crossover point for the speaker outputs.

### **LOW PASS FILTER**

Controls the low pass Crossover point for the speaker outputs.

### **+12V (POWER CONNECTION)**

This must be connected to the fuse positive terminal (+12V) of the battery.

Recommended wire is 4 gauge or thicker  
Check the battery voltage.

### **GND ( GROUND CONNECTION )**

It is connected to the Negative or ground cables of the vehicle.

Recommended wire is 4 gauge or thicker

### **REM (REMOTE)**

It is connected to switched +12V with a trigger cable coming from the head unit.

### **SPEAKER OUTPUTS**

It connects amplifier's terminal to subwoofer speakers.

Minimum speaker wire is 12 gauge.

## **3. INSTALLATION**

In case you install the amplifier by yourself, please read owner's manual very carefully before your installation. Please take all steps into consideration or, you can have DB Drive or DB Research's authorized dealer to check installation and set your car audio systems.

### **3-1. MOUNTING PREPARATION**

Disconnect the negative ( - ) battery cable before mounting your amplifier or making any connections. Check the battery and alternator ground ( - ) connections. Make sure they are properly connected and free of corrosion before selecting a mounting location. Please take some concerns into consideration with cooling efficiency and safety.

### **3-2. MOUNTING PREPARATION**

The A7PRO amplifiers use a specially designed heat radiation heatsink to avoid excessive heat from circuitry. But for better heat dissipation, it is good to find the mounting location where you can install vertically with the heatsink fins and better air flow around heatsink.

For the safety, You have to find a dry and well ventilated location and make sure any cables and drilling car equipment are not interfere with mounting location. Be sure the mounting location and drilling of pilot cables will not present a hazard to any cables, control cables, fuel lines, fuel tanks, hydraulic lines or other vehicle systems or components.

### **3-3. +12V, GND, REM CONNECTION.**

#### **12V ( POWER CONNECTION )**

Before mounting amplifier, disconnect the negative ( - ) wire from battery to protect any accidental damage to amplifier and audio system. A7PRO amplifiers require at least the use of 4 gauge wiring for all power connections. Connect the power cables to power terminal labeled as +12V. A7PRO Amplifiers are not internally fused and require external fusing.

In order to install external fuses, connect one end of fuse holder to the power cable and the other end of fuse holder to positive battery within 18in of the same cable gauge. This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable.

Be sure to use fuses and fuse holders adequate for the current draw application.



### GND ( GROUND CONNECTION )

Locate a secure grounding connection as close as possible. Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle.

Connect one end of a short piece of the same gauge cable as the power cable to the grounding point.

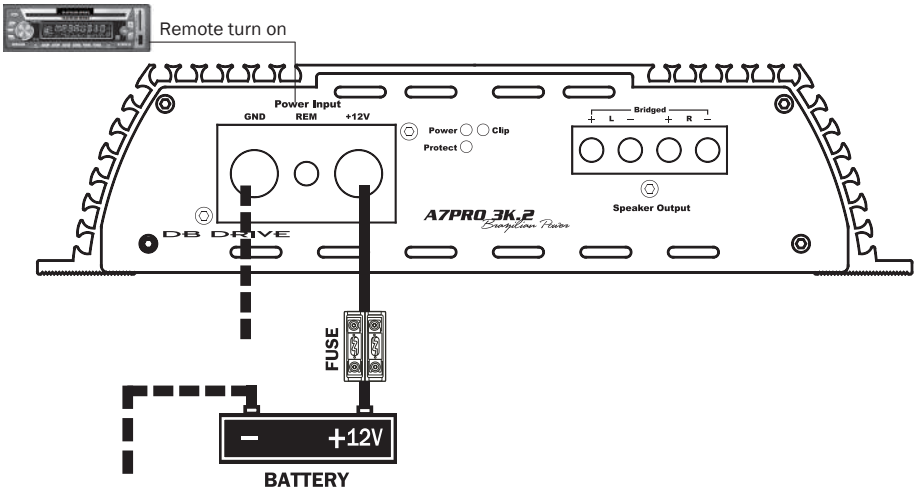
Run the one end of the cable to the grounding point. Run the other end of the cable to the mounting location.

Connect the ground cable to the screw terminal labeled as GND.

### REM ( REMOTE CONNECTION )

Run a remote turn on cable from the headunit's remote switched +12V output.

### AMPLIFIER +12V, GROUND, REMOTE CONNECTION DIAGRAM



### 3-4. SPEAKER CONNECTION

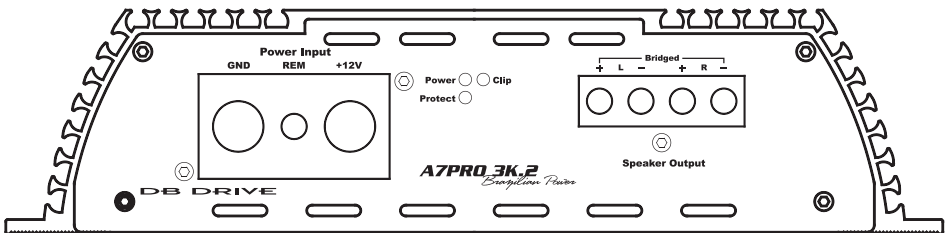
DB Drive recommends to use minimum 12 gauge speaker connecting cables. Run 12 gauge speaker connecting cables from your speakers to amplifier's mounting location.

Keep speaker cables away from the power cables and amplifier's input cables. Use grommets anywhere the cables have to pass through the holes in the metal frame or sheet metal. Connect to the speakers according to the type of terminals on each speaker. Strip 3/8" of insulation from the end of each cable and twist the cables strands together tightly. Make sure there are no stray strands that might touch other cables or terminals and cause a short circuit.

Crimp spade lugs over the cable ends or tin the ends with solder to provide a secure termination.

Connect the cable ends to amplifier as speaker system diagram.

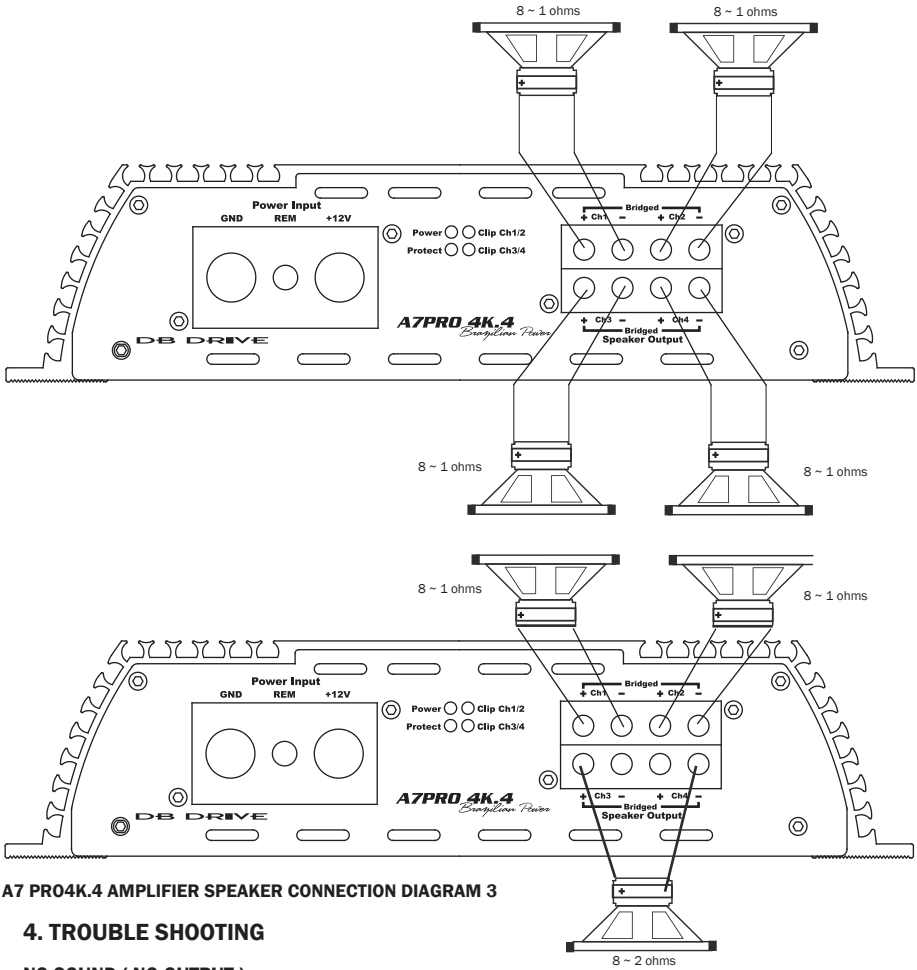
### AMPLIFIERS' SPEAKER CONNECTION



\*1 Ohm Minimum in Stereo

\*2 Ohm Minimum Bridged

**A7 PRO4K.4 AMPLIFIER SPEAKER CONNECTION DIAGRAM 2**



**A7 PRO4K.4 AMPLIFIER SPEAKER CONNECTION DIAGRAM 3**

## 4. TROUBLE SHOOTING

### NO SOUND ( NO OUTPUT )

- 1) Please check all connections, cables' routing, short and voltage at amplifier and headunit.
- 2) Please check built-in or external fuses, If it is brown, please repalce with new one.
- 3) Please check whether speakers work well, you can test speakers by connecting to another amplifiers.

### PROTECTION

- 1) Please check overload, overheat ( thermal ) , short, voltage and DC offset.
- 2) Minimum working impedance for 1 ohm
- 3) If the amplifier is shut down due to overheat, Reset by turning off the remote input and allowing time to cool down.

Please make sure there are no airflow obstructions around amplifier to prevent thermal protection.

### WHINING NOISE

- 1) Engine noise is caused by poor grounding of amplifier, headunit, other components, battery or alternator, so please check all grounding connections.

## **LIMITED WARRANTY**

DB DRIVE warrants any products purchased in the U.S.A. from an authorized DB DRIVE dealer. All products are warranted to be free from defects in material and workmanship under normal use and service for a period of (1) year when the unit is installed by an authorized DB DRIVE dealer. Non-authorized dealer installed products carry a one (1) year parts and labor limited warranty. This warranty applies to the original purchase only.

DB DRIVE will either repair or replace (as its option) any unit that has been found to be defective and under warranty provided the defect occurs within:

One (1) year if purchased through an authorized DB DRIVE dealer.

This limited warranty does not extend to units that have been subjected to misuse, abuse, neglect, or accident. Products that in DB DRIVE's judgment shows evidence of having been altered, modified, or serviced without DB DRIVE's authorization, will be ineligible under this warranty.

To obtain warranty service please contact your retailer or see our web site at [www.dbdrive.net](http://www.dbdrive.net) for more details.



**DB Research L.L.P.**

DB Research L.L.P. ■ 302 Hanmore Industrial Parkway ■ Harlingen, TX 78550  
Ph: (877) 787-0101 ■ Fax: (956) 421-4513 ■ tech support: [support@dbdrive.net](mailto:support@dbdrive.net)