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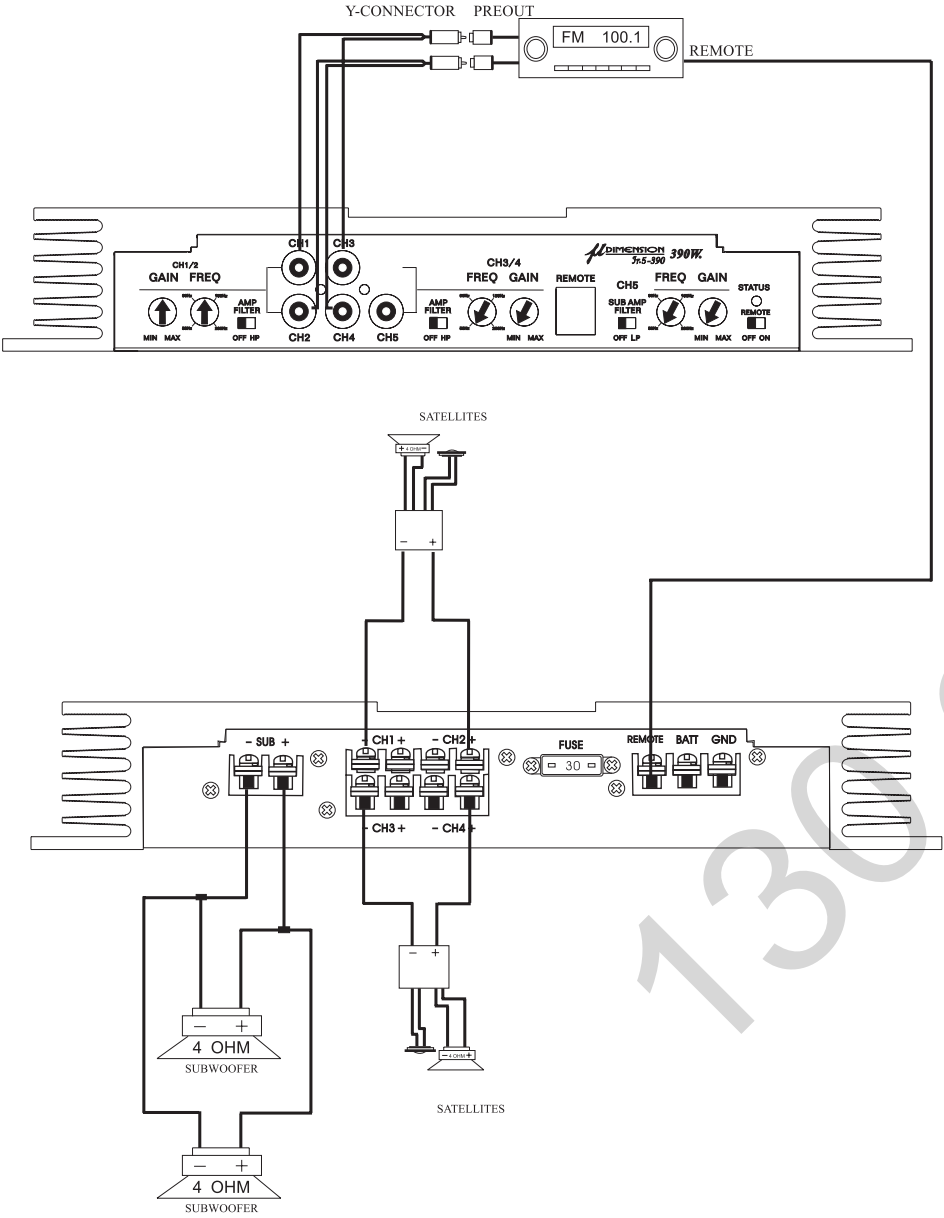
## OWNER'S MANUAL

*Jr. Series*

*2 Ohm Stable,  
MOSFET 5/3Channel Power Amplifier*

*Model Jr.5-390*

SAMPLE SYSTEM CONNECTIONS



3 CHANNEL

INDEX

*Jr.5-390*

FEATURES..... 2

CONTROLS AND CONNECTIONS.....3

CONNECTION DESCRIPTIONS.....5

INSTALLATION INSTRUCTIONS.....6

SAMPLE SYSTEM CONNECTIONS.....7- 8

SPECIFICATIONS.....9

## FEATURES

### Circuitry

100%POWER MOSFETs driven high efficiency switching power supply. And SEPP output stage constructed by real Darlington transistors.

### Pulse Width Modulated Power Supply

The PWM power supplies inside these amplifiers are both high efficiency and low noise. Since high performance power MOSFETs and PHOTO ISOLATED technology are used. Output signal is very clean as a result of very low noise interference and lower distortion from the power supply

### Audio Stage Design

Excellent power supply noise rejection ability for voltage amplification stage due to the use of constant current driven differential amplifier. Low negative feedback circuitry reduces overall distortion and greatly lessens harmful high order harmonics.

### Protection Circuitry

Every piece of amplifier incorporates a 4-Way Protection Circuitry.If driven below 1ohm; shorted the speaker outputs, DC voltage appears on the speaker outputs , over-voltage connected from battery input or overheated the amplifier , the protection circuit will shut off the amplifier to prevent damage. When the LED indicator of front panel changes color from green to RED , the protection circuit is activated the amplifier auto reset after it cools down under overheating condition or manually reset by simply switching the power off and on.

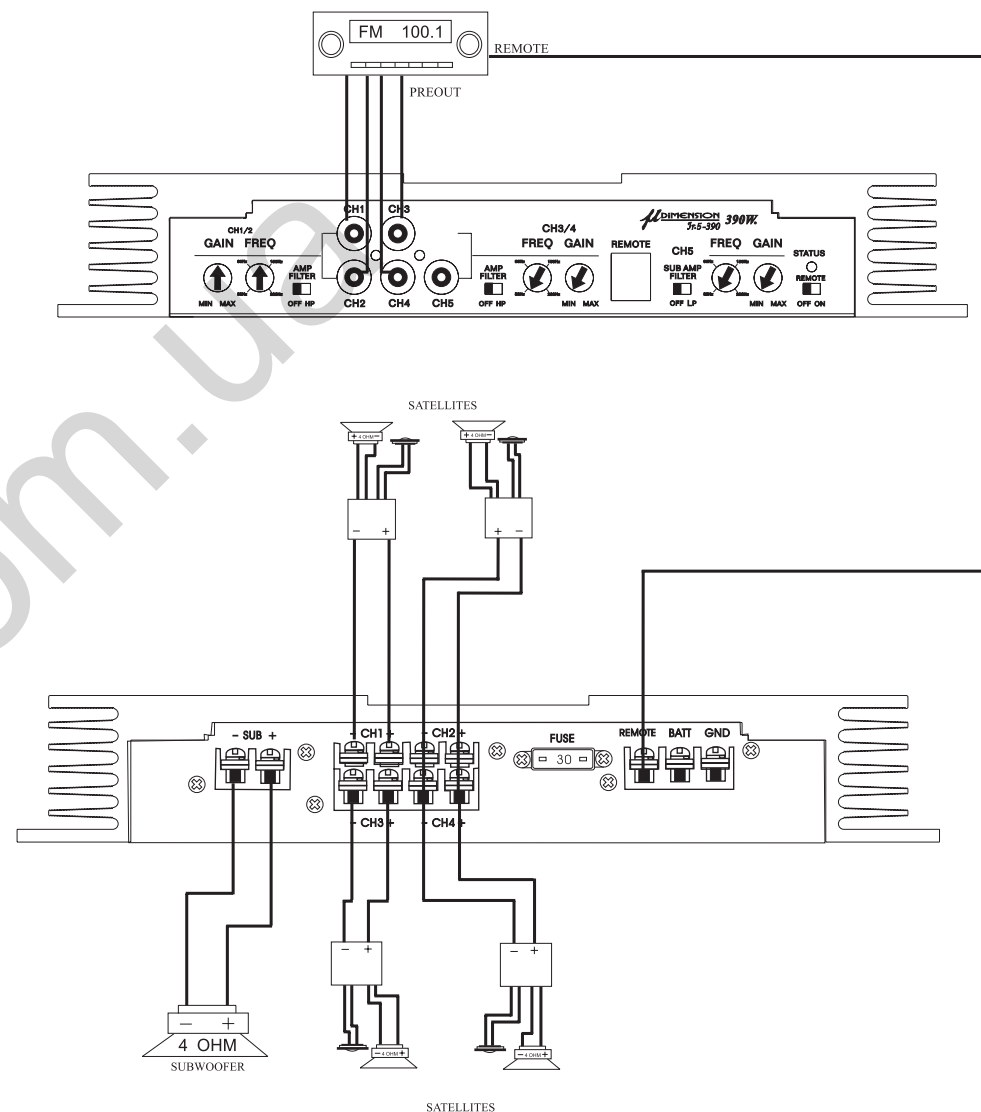
### MIL Spec P.C.Board

The components are all assembled by hand onto FR4 fiberglass P.C.Board.This assures that all high current carrying traces are of uniformly controlled Dimension. The P.C.boards are double sided to utilize space efficiently.

### Built In Crossovers & Tone Controls

For the purpose of saving your money to buy an extra crossover,each U-dimension amplifier builds in a 12dB/oct slope,50Hz to 200Hz continuously adjustable Two Way electronic crossover.There are both High Pass and Low Pass crossover output RCA jacks on the front panel.There is an INT XOVER (internal crossover) selector switch for you to select High Pass , Low Pass or Bypass (OFF) signal for internal power amplification . There are also tone controls that can be Adjusted at bass 45Hz $\pm$ 18dB and treble 11.5KHz  $\pm$  12dB range.

## SAMPLE SYSTEM CONNECTIONS



5 CHANNEL

# INSTALLING INSTRUCTIONS

Please read the following installation instructions carefully. This will ensure your U-dimension equipment shall continue to function for many years.

1. Make sure that the unit has sufficient ventilation. Do not mount the amp near hot engine compartments or electrical devices.
2. Run the black ground wire to the nearest good chassis ground point.
  - Be sure to remove paint and rust to make a high quality connection to the Chassis.
  - The lug which you attach to the black wire must be crimped well and Soldered.
3. The red wire must be extended with the appropriate gauge wire and run to the positive battery terminal via the supplied fuse.
  - The fuse must be located at the battery for absolute protection.
  - DO NOT over any rated fuse value.
4. Connect the REMOTE connector lead to the remote output wire from the head unit.
5. Make sure that the amplifier is securely mounted. Run the RCA inputs to the outputs of the preceding piece of equipment by using only quality patch cords. Be sure to observe the proper channel destination.
  - Set proper position of filter switches. HP means high pass (for ch1/2/3/4); LP means low pass (for Subwoofer out channel), and Off means by pass for internal crossover of amplifier.
  - Tune the crossover frequency knobs (FREQ) to the selected frequency point.
  - Set the amp gain knobs (sensitivity from 0.2v to 4v) to the level which matches that of the head unit (and other amplifiers).
6. Connect the speaker systems to the terminal block. Observe the polarity carefully so as to keep the speakers in phase.

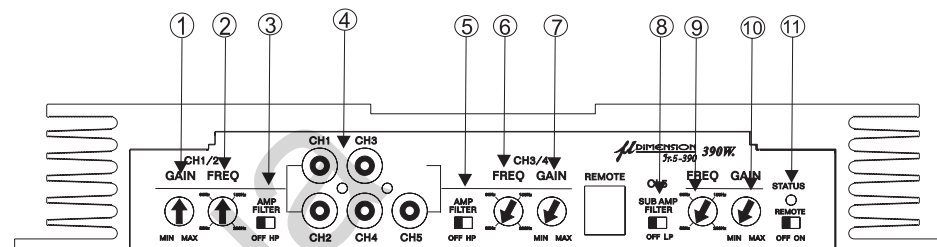
## WARNING

1. The impedance which each channel "sees" must be larger than 2 ohms.

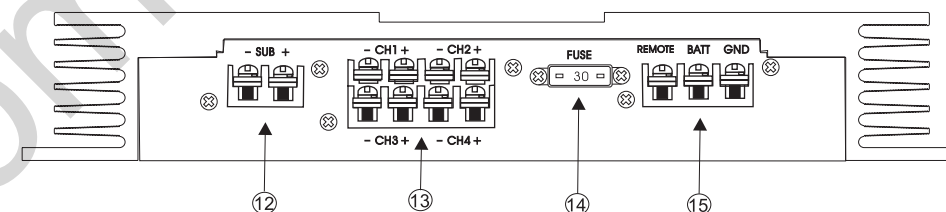
# CONTROLS AND CONNECTIONS

## Jr.5-390

[Front]



[Rear]

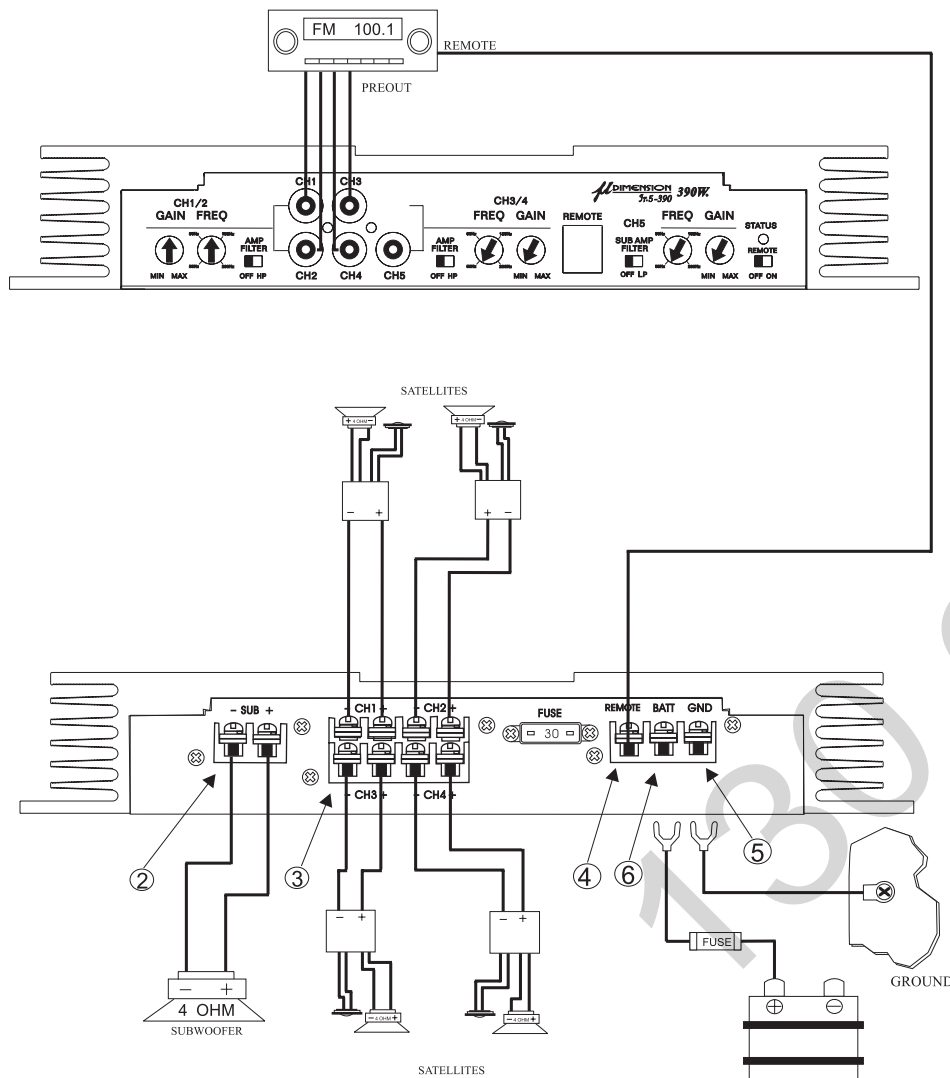


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|--|--|
| ① CH1/2 Amplifier Gain Control         | ⑨ Subwoofer Crossover Frequency Adjustment |
| ② CH1/2 Crossover Frequency Adjustment | ⑩ Subwoofer Crossover Gain Control         |
| ③ CH1/2 Internal Crossover Switch      | ⑪ Status LED Indicator                     |
| ④ CH1/2/3/4 RCA Input Jacks            | (Green: power on, Red: protection)         |
| ⑤ CH3/4 Internal Crossover Switch      | ⑫ Subwoofer Speaker Output Terminals       |
| ⑥ CH3/4 Crossover Frequency Adjustment | ⑬ CH1/2/3/4 Speaker Output Terminals       |
| ⑦ CH3/4 Amplifier Gain Control         | ⑭ Fuse                                     |
| ⑧ Subwoofer Amp Internal Crossover     | ⑮ Power Supply and Remote Terminals        |



# CONTROLS AND CONNECTIONS

Please refer to the connection descriptions of Page 5



# CONNECTION DESCRIPTIONS

## ① RCA Input Jacks

The Line-Out leads of your head unit are connected here using RCA extension patch cords. Be sure to observe proper channel designation-CH1,CH2 to Front Left, Right and CH3, CH4 to Rear Left, Right.

## ② Subwoofer Speaker Output Terminals

Connect to subwoofer Speaker. Make sure to observe correct speaker connections, intaining the polarity of the speakers. Positive(+) and Negative(-) terminals.

## ③ CH1/2/3/4 Speaker Output Terminals

Connect to Satellite Speakers. Make sure to observe correct speaker connections, maintaining the polarity of the speakers. Positive(+) and Negative(-)terminals.

## ④ Remote Input Leads

Connect remote input to the remote turn-on lead of your head unit.

## ⑤ Ground Lead(Black)

Secure the connection of this lead to a clean bare metal spot on the vehicle's chassis. Veri fy this point to be a true ground by checking for continuity between the point and the negative terminal of the vehicle's battery.

## ⑥ Battery lead (Red)

For power terminal connection,an aproprate gauge wire is run to the positive battery terminal via a fuse of adequate amperes.The Fuse must be placed close to the vehicle battery.And plugged in after all connections have been made to ensure maximun p-rotection.

## SPECIFICATIONS

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### *Jr.5-390*

Power Output @ 4 Ohm	40W X 4+100WX1
Power Output @ 2 Ohm	60W X 4+150WX1
Bridged Output @ 4 Ohm	100W X 2 —
Frequency Response	10Hz-50KHz (-1dB)
THD	0.05%
S/N Ratio	90dB
Stereo Separation	55dB
Input Sensitivity	200mV-4V
Damping Factor	>200
Input Impedance	20KOhm
Crossover	High-Pass 50-200Hz/12dB oct Low-Pass 50-200Hz/12dB oct
Idle Current	1.2A
Remote Voltage	7-14V
Remote Current	<1mA
Dimensions(W X H X D)	330 x 46 x 292mm
Weight	3.7kg