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DESIGNED AND BUILT IN THE U.S.A.  
**HAWG WIRED, INC.**

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## INSTALLATION GUIDE

# SC1502 AUDIO SYSTEM



## DEAR CUSTOMER

CONGRATULATIONS ON YOUR PURCHASE OF THE FINEST MOTORCYCLE AUDIO EQUIPMENT AVAILABLE. WE'RE PLEASED YOU'VE CHOSEN OUR PRODUCT, AND WELCOME YOU TO OUR FAMILY. AT HAWG WIRED, WE STRIVE TO BRING YOU THE ULTIMATE RIDE EXPERIENCE THROUGH QUALITY SOUND. WITH YEARS OF ENGINEERING, CRAFTSMANSHIP, AND A WHOLE LOT OF TRIAL AND ERROR, WE BELIEVE WE'VE GOTTEN THIS STUFF NAILED DOWN RIGHT. WE SINCERELY HOPE YOU ENJOY OUR QUALITY PRODUCTS ON ALL OF YOUR MOTORCYCLE JOURNEYS.

THANKS!  
THE HAWG WIRED TEAM



## SERIAL NUMBER

PLEASE RECORD THE MODEL AND SERIAL NUMBER(S) OF YOUR EQUIPMENT IN THE SPACE PROVIDED BELOW AS YOUR PERMANENT RECORD. THE NUMBERS ARE ON THE BOTTOM OF EACH COMPONENT. THIS WILL HELP WITH YOUR FACTORY WARRANTY COVERAGE AND MAY BE USEFUL IN RECOVERING YOUR AUDIO SYSTEM IN THE UNFORTUNATE EVENT THAT IT'S STOLEN.

MODEL NUMBER(S):

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SERIAL NUMBER(S):

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## INTRODUCTION

THIS MANUAL PROVIDES INFORMATION FOR THE OWNER, SALESPERSON, AND INSTALLER. FOR THOSE OF YOU LOOKING FOR QUICK INSTALLATION INFORMATION FOR THIS PRODUCT, PLEASE PROCEED TO THE INSTALLATION SECTION OF THIS MANUAL.

HERE AT HAWG WIRED, WE WORK HARD MAKING SURE ALL OF THE INFORMATION IN THIS MANUAL IS CORRECT AND CURRENT, BUT DUE TO OUR CONSTANT EFFORT TOWARDS IMPROVING OUR PRODUCTS, THIS INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE CHECK OUR WEB SITE REGULARLY FOR THE LATEST NEWS, TIPS, AND CHANGES TO THIS DOCUMENTATION.

THIS KIT INCORPORATES THE FOLLOWING KEY FEATURES SPECIFICALLY DESIGNED FOR MOTORCYCLES:

- ❑ MODULAR DESIGN MAKES IT EASY TO FIT IN TIGHT SPACES
- ❑ ALL DIGITAL CIRCUITRY MAKES IT EFFICIENT IN POWER USAGE AND HEAT DISSIPATION
- ❑ CREATES MORE POWER WITHOUT TAXING THE BATTERY OR CHARGING SYSTEM
- ❑ ELIMINATES COOLING OR MOUNTING CONCERNS SINCE VERY LITTLE HEAT IS GENERATED
- ❑ COMPLETE WIRING KIT MAKES FOR A PROFESSIONAL, QUICK, AND EASY INSTALLATION

THIS KIT HAS BEEN DESIGNED TO WORK WITH BOTH THE BATWING AND SHARK-NOSE HARLEY-DAVIDSON® FAIRINGS, AND CAN ALSO BE INSTALLED IN MOST AFTERMARKET FAIRINGS WITH MINOR MODIFICATION TO THE WIRING KIT.



## KIT CONTENTS

- 1 - SC1502 CONTROLLER MODULE
- 2 - CT75 AMPLIFIER MODULES
- 2 - 18" CONTROL CABLES
- 1 - 6' POWER CABLE WITH ATC FUSE HOLDER & BLACK SLEEVE
- 1 - 24" GROUND CABLE
- 1 - REMOTE POWER CABLE
- 1 - HIGH LEVEL INPUT CABLE
- 1 - 36" RCA CABLE
- 1 - 24" SPEAKER WIRE EXTENSION
- 2 - AMPLIFIER MOUNTING BRACKETS
- 4 - LARGE ZIP TIES
- 2 - SMALL VELCRO PADS
- 1 - LARGE VELCRO PAD
  
- 1 - INSTALLATION HARDWARE KIT
  - 1 - 25 AMP ATC FUSE
  - 6 - 18 AWG BUTT CONNECTORS
  - 4 - SMALL ZIP TIES
  - 1 - PACKET OF DIELECTRIC GREASE
  - 3 - PACKETS OF ALCOHOL CLEANING PADS

## INSTALLATION INSTRUCTIONS

1. TURN OFF THE IGNITION AND REMOVE THE SEAT.

TIP: REFER TO MANUFACTURER INSTRUCTIONS IF NECESSARY.

2. DISCONNECT THE BATTERY.

TIP: ALWAYS DISCONNECT THE NEGATIVE SIDE FIRST, POSITIVE SECOND.

3. REMOVE THE FRONT FAIRING COVER.

TIP: REFER TO MANUFACTURER INSTRUCTIONS IF NECESSARY.

4. PLACE A SMALL AMOUNT OF DIELECTRIC GREASE ON EACH CONTROL CABLE CONNECTOR, THE CONTROLLER MODULE, AND ON EACH AMPLIFIER MODULE, FOCUSING ON THE ELECTRICAL CONTACTS.

5. WITH BOTH AMPLIFIER CONTROL CABLES ATTACHED, MOUNT<sup>1</sup> THE CONTROLLER MODULE; TYPICAL BATWING MOUNTING GOES ON TOP OF THE RADIO, WHILE THE SHARK-NOSE FAIRING REQUIRES SIDE MOUNTING ON THE FLAT AREA UNDERNEATH THE GLOVE BOX.

TIP: ON 2006 BATWING MODELS: IF ONE OF THE TWO MODULES (XM SATELLITE RADIO OR CB COMMUNICATIONS) IS INSTALLED ON TOP OF YOUR RADIO, YOU WILL NEED TO INSTALL OUR HKA150 ADAPTER BRACKET IN THE BLANK MODULE SLOT. IF BOTH MODULES ARE INSTALLED, MOUNT THE CONTROLLER ON TOP OF THE MODULES. IF NEITHER MODULE IS INSTALLED, CUT THE LARGE VELCRO® PIECE IN HALF IN ORDER TO PLACE ONE PIECE ON EACH SIDE OF THE RIB DOWN THE CENTER OF THE RADIO, THEN MOUNT THE CONTROLLER ON TOP OF THE RADIO. IN ALL INSTALLATION SITUATIONS, ENSURE THAT THE CONTROLLER IS POSITIONED AS FAR BACK AS POSSIBLE.

6. ON BATWING MODELS, REMOVE BOTH SPEAKER BRACKETS AND INSTALL THE AMPLIFIER MOUNTING BRACKETS USING THE FACTORY HARDWARE. NOW MOUNT<sup>1</sup> YOUR AMPLIFIERS TO THE BRACKETS USING THE VELCRO® PATCHES PROVIDED.



## INSTALLATION INSTRUCTIONS [CONTINUED]

7. ON SHARK-NOSE MODELS, MOUNT<sup>1</sup> ONE AMPLIFIER IN FRONT OF CONTROLLER, AND ONE AMPLIFIER BEHIND CONTROLLER USING THE VELCRO® PATCHES PROVIDED.



8. CONNECT THE CONTROL CABLES TO EACH OF THE AMPLIFIER MODULES.

NOTE: NEVER CONNECT OR DISCONNECT CONTROL CABLES WHILE POWER IS ON. THIS CAN CAUSE DAMAGE TO THE AMPLIFIER MODULES AND WILL VOID YOUR WARRANTY.

9. RUN THE BATTERY WIRE (WITHOUT THE FUSE INSTALLED) FROM THE + BATTERY TERMINAL, UNDER THE GAS TANK, THROUGH THE FAIRING, AND CONNECT TO THE CONTROLLER TERMINAL LABELED PWR. THE BLACK SLEEVE SHOULD END UP BETWEEN THE GAS TANK AND THE FAIRING.

TIP: DO NOT CONNECT THE BATTERY WIRE TO THE BATTERY UNTIL THE INSTALLATION IS COMPLETE.

10. INSTALL THE GROUND WIRE FROM THE CONTROLLER TERMINAL LABELED GND TO CHASSIS GROUND.

TIP: TYPICALLY YOU CAN UTILIZE AN EXISTING SCREW OR NUT ON THE FRAME, PREFERABLY WHERE A FACTORY GROUND STRAP ALREADY EXISTS. IT IS IMPORTANT TO VERIFY THAT THE POINT SELECTED FOR GROUNDING IS A TRUE AND CLEAN CONNECTION TO THE CHASSIS. MANY PROBLEMS ARE THE RESULT OF A POOR GROUND.

11. INSTALL THE REMOTE TURN-ON WIRE FROM THE CONTROLLER TERMINAL LABELED REM TO DESIRED +12V TURN-ON SOURCE.

TIP: WITH FACTORY RADIOS, USE THE CIGARETTE LIGHTER METHOD (PASS THROUGH LUGS INCLUDED AND INSTALLED ON REMOTE WIRE). WITH AFTERMARKET RADIOS, REFER TO YOUR RADIO SPECIFIC WIRING DIAGRAM TO DETERMINE THE REMOTE TURN-ON LEAD TO CONNECT TO THE CONTROLLER MODULE.

## INSTALLATION INSTRUCTIONS [CONTINUED]

12. INSTALL INPUT WIRES. IF USING STOCK HARLEY® RADIO, CONNECT HIGH-LEVEL CABLE TO WIRES REMOVED FROM SPEAKERS (REFER TO WIRING CHART FOR STOCK HARLEY® RADIO).

NOTE: IF AN AFTER MARKET RADIO IS BEING INSTALLED, USE RCA LOW LEVEL OUTPUT IF AVAILABLE. IF LOW-LEVEL IS NOT AVAILABLE, SEE RADIO MANUAL TO DETERMINE HIGH-LEVEL CONNECTION.

13. RE-CONNECT THE BATTERY.

TIP: ALWAYS CONNECT THE POSITIVE SIDE FIRST, NEGATIVE SECOND.

14. INSTALL 25 AMP ATC FUSE INTO THE FUSE HOLDER ON THE POWER CABLE.

TIP: THIS IS A GOOD TIME TO RE-CHECK ALL CONNECTIONS JUST BEFORE INSTALLING THE FUSE. ALSO MAKE SURE THAT THE CONTROL CABLES ARE COMPLETELY SEATED AND LATCHED INTO THEIR RESPECTIVE SOCKETS.

15. PERFORM A SYSTEM TEST. TURN THE KEY TO THE ACCESSORY POSITION AND VERIFY THAT ALL FUNCTIONS WORK AS EXPECTED. ONCE THE SYSTEM IS OPERATIONAL AND FUNCTIONING PROPERLY, SET THE GAIN SO THAT THE SYSTEM PERFORMS AT OPTIMAL VOLUME WITH THE RADIO AT ABOUT ¾ VOLUME.

NOTE: DO NOT SET THE GAIN TOO HIGH. THIS CAN LEAD TO DAMAGING THE SPEAKERS.

16. TURN THE IGNITION OFF.

17. INSTALL THE FAIRING COVER.

TIP: REFER TO MANUFACTURE INSTRUCTIONS IF NECESSARY.

18. INSTALL THE SEAT.

TIP: REFER TO MANUFACTURE INSTRUCTIONS IF NECESSARY.

19. PERFORM A FINAL SYSTEM TEST. TURN THE KEY TO THE ACCESSORY POSITION AND VERIFY THAT ALL FUNCTIONS STILL WORK AS EXPECTED.

20. PERFORM A TEST DRIVE AND AGAIN VERIFY THAT THE SYSTEM IS OK.

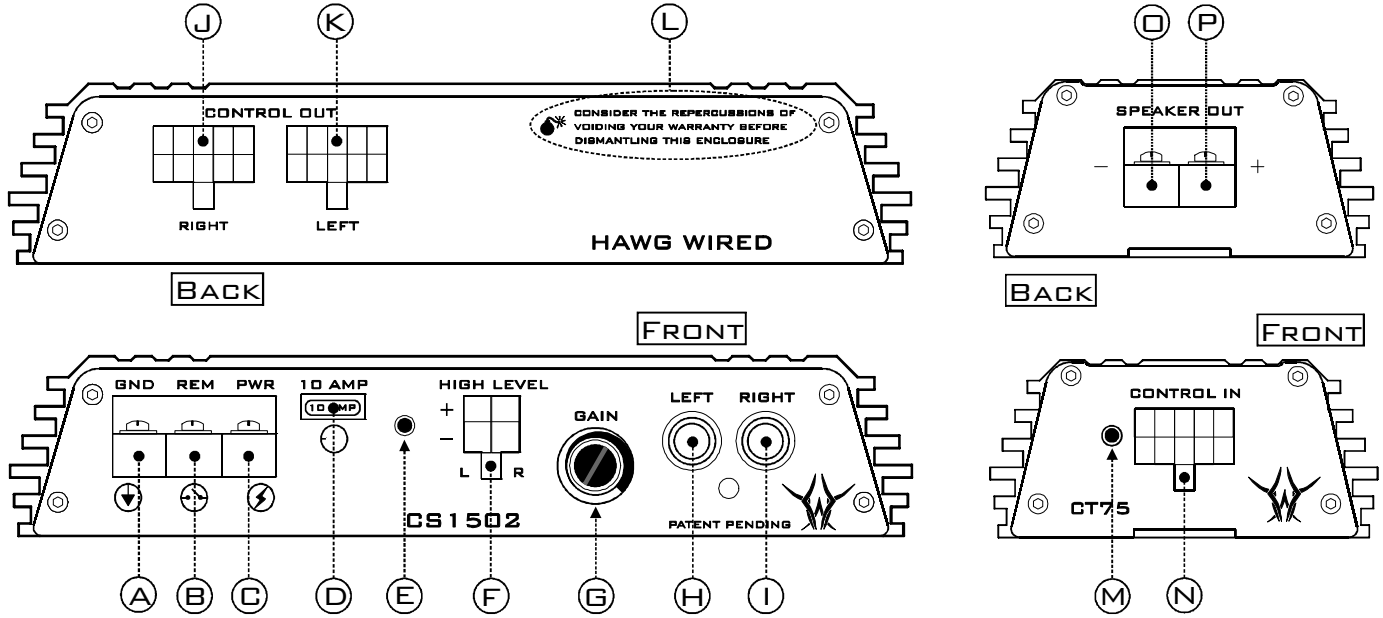
NOTE<sup>1</sup>: BE SURE TO CLEAN ALL MOUNTING SURFACES WITH THE INCLUDED ALCOHOL PADS BEFORE ATTACHING THE ADHESIVE VELCRO® PATCHES.

## SPEAKER WIRING CHART

MODEL/PART	LEFT SPEAKER (+)	LEFT SPEAKER (-)	RIGHT SPEAKER (+)	RIGHT SPEAKER (-)
1998 - 2006 STOCK HARLEY HEAD UNIT	WHITE / ORANGE	LIGHT GREEN / WHITE	GRAY / RED	LIGHT GREEN / BLACK
HIGH-LEVEL INPUT CABLE	WHITE	BLACK (TWISTED W/ WHITE WIRE)	RED	BLACK (TWISTED W/ RED WIRE)

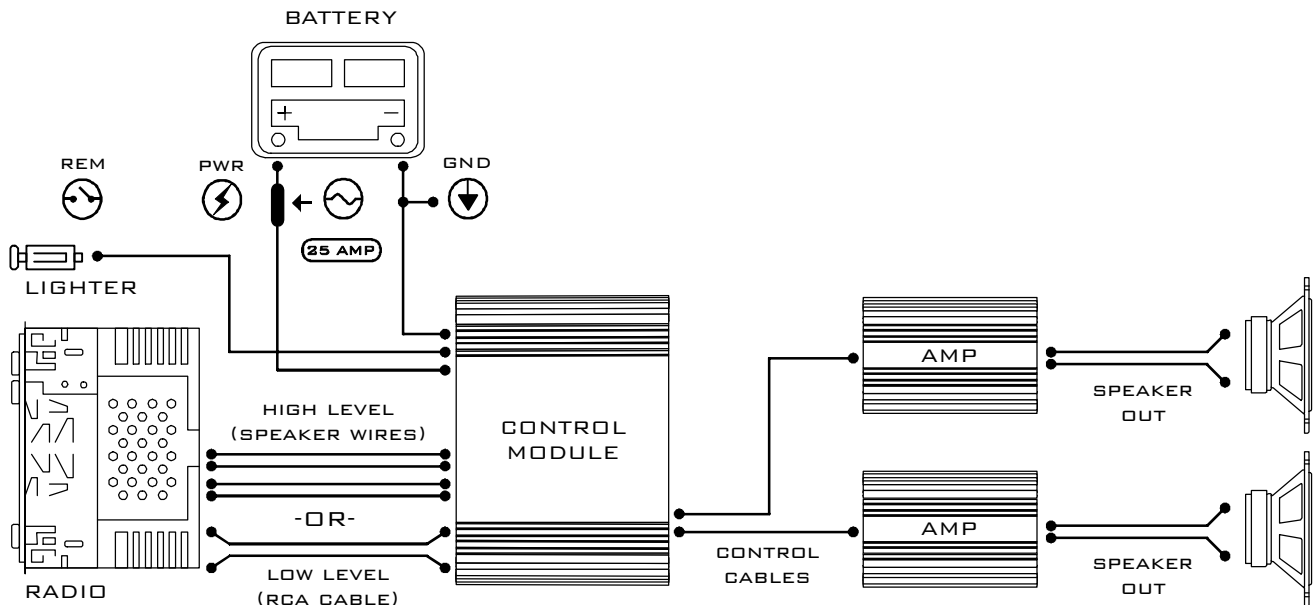
# SYSTEM DIAGRAMS

## FACEPLATES:



A	GROUND TERMINAL	G	GAIN ADJUSTMENT KNOB	M	POWER INDICATOR
B	REMOTE TERMINAL	H	LEFT LOW LEVEL INPUT	N	CONTROL CABLE INPUT
C	POWER TERMINAL	I	RIGHT LOW LEVEL INPUT	O	NEGATIVE SPEAKER OUTPUT (-)
D	10AMP FUSE	J	RIGHT CONTROL CABLE OUT	P	POSITIVE SPEAKER OUTPUT (+)
E	POWER INDICATOR	K	LEFT CONTROL CABLE OUT		
F	HIGH LEVEL INPUT	L	HIGHLY RECOMMENDED		

## SYSTEM CONFIGURATION:



# SPECIFICATIONS

SYSTEM MODEL NUMBER:..... SC1502  
 NOMINAL OUTPUT IMPEDANCE: ..... 4 OHMS  
 NOMINAL POWER OUTPUT (WATTS RMS):..... 75 WATTS PER CHANNEL  
 FREQUENCY RESPONSE: ..... 10HZ-50KHZ

CASE DIMENSIONS:

CS1502 CONTROL MODULE ..... 6.75" W X 4.50" D X 1.25" H  
 CT75 AMPLIFIER MODULE..... 3.00" W X 4.00" D X 1.25" H

OUR AMPLIFIER TECHNOLOGY FEATURES CLASS-T® DIGITAL AMPLIFIERS BY TRIPATH

"UNCOMPROMISED SOUND QUALITY" TYPICALLY:..... 0.005% THD+N @ 70W 40  
 ..... 10.0% THD+N @ 117W 40

DYNAMIC RANGE = 103DB

OVER-CURRENT AND OVER-TEMPERATURE PROTECTION

TURN-ON AND TURN-OFF POP SUPPRESSION

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



## WARRANTY INFORMATION

HAWG WIRED OFFERS A LIMITED WARRANTY ON HAWG WIRED PRODUCTS ON THE FOLLOWING TERMS:

- **LENGTH OF WARRANTY**

1 YEAR ON AUDIO SYSTEMS AND 6 MONTHS ON SPEAKERS (RECEIPT REQUIRED).

- **COVERAGE**

THIS WARRANTY COVERS ONLY THE ORIGINAL PURCHASER OF A HAWG WIRED PRODUCT PURCHASED FROM AN AUTHORIZED HAWG WIRED DEALER IN THE UNITED STATES. IN ORDER TO RECEIVE SERVICE, THE PURCHASER MUST PROVIDE HAWG WIRED WITH A COPY OF THE RECEIPT STATING THE CUSTOMER NAME, DEALER NAME, PRODUCT PURCHASED AND DATE OF PURCHASE.

- **DEFECTIVE PRODUCTS**

PRODUCTS FOUND TO BE DEFECTIVE DURING THE WARRANTY PERIOD WILL BE REPAIRED OR REPLACED (WITH A PRODUCT DEEMED TO BE EQUIVALENT) AT HAWG WIRED'S DISCRETION.

- **WHAT IS NOT COVERED**

DAMAGE CAUSED BY ACCIDENT, ABUSE, IMPROPER OPERATIONS, WATER, THEFT  
ANY COST OR EXPENSE RELATED TO THE REMOVAL OR REINSTALLATION OF PRODUCT  
SERVICE PERFORMED BY ANYONE OTHER THAN HAWG WIRED OR AN AUTHORIZED HAWG WIRED SERVICE CENTER

ANY PRODUCT WHICH HAS HAD THE SERIAL NUMBER OR TAMPER LABELS DEFACED, ALTERED, OR REMOVED

SUBSEQUENT DAMAGE TO OTHER COMPONENTS

ANY PRODUCT PURCHASED OUTSIDE THE U.S.

ANY PRODUCT NOT PURCHASED FROM AN AUTHORIZED HAWG WIRED DEALER

- **LIMIT ON IMPLIED WARRANTIES**

ANY IMPLIED WARRANTIES INCLUDING WARRANTIES OF FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF AN IMPLIED WARRANTY, SO THIS LIMITATION MAY NOT APPLY. NO PERSON IS AUTHORIZED TO ASSUME FOR HAWG WIRED ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

- **HOW TO OBTAIN SERVICE**

PLEASE CALL 1-510-894-2999 FOR HAWG WIRED CUSTOMER SERVICE. YOU MUST OBTAIN A RETURN MATERIAL AUTHORIZATION NUMBER (RMA) TO RETURN ANY PRODUCT TO HAWG WIRED. YOU ARE RESPONSIBLE FOR SHIPPING CHARGES OF RETURNED PRODUCTS TO HAWG WIRED.

- **MADE IN THE USA**

THIS PRODUCT WAS PROUDLY DESIGNED, DEVELOPED AND BUILT IN THE USA. THE MAJORITY OF THE COMPONENTS USED IN THE CONSTRUCTION OF THIS PRODUCT ARE PRODUCED BY AMERICAN COMPANIES. HOWEVER, DUE TO THE GLOBAL NATURE OF MODERN MANUFACTURING AND THE ELECTRONICS INDUSTRY IN GENERAL, SOME PARTS MAY BE MANUFACTURED IN OTHER COUNTRIES.

### HAWG WIRED, INC. FREMONT, CA

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