APPENDIX D – Audio Proof

SHOOK *Electronics USA, Inc.*

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To: KABC-1 ENG Vehicle

Date: 08.15.00

From: Tony Raven

Re: Audio Proof of Performance on ENG Vehicle Shook J/N: 773

On this date Shook technician Lynn Crabbe performed an audio Proof of Performance on your new ENG vehicle, Shook J/N # 773:

This Proof of Performance was performed using our Audio Precision Portable One (+) Audio Test Set. Each test involved injecting test tone sweeps from the test oscillator through the items being tested and then analyzed with the Test Set after those devices.

Each test included:

LEVEL (Simultaneously measuring the level [amplitude] of both input channels during a frequency sweep from 20Hz to 20 kHz). Graphs made in the sweep mode show the selected input channel in a solid line, and the alternate channel in a dotted line. Where both channels are exactly the same only a solid line is seen.

Level sweeps were performed for comparing "A" channel left) and "B" channel (right) against each other. These tests are reflected in both graph form and a chart of the frequencies injected and the exact output level of both channels under study. Two pages of each test procedure show this sweep test:

-1- A graph for channel "A" to channel "B" comparison
-2- A chart showing "A" and channel "B" comparison and a screen print for verification purposes.

-3- PHASE (The electrical phase relationship of channel "A" (left) was measured against channel "B" (right) and is shown in both graph and chart form on the same page. One page of each test shows both the graph and chart of this sweep test, and a screen print for verification purposes.

-4- DISTORTION THD+N (Total Harmonic Distortion plus Noise) was
-5- Measured on both channels "A" and "B". Each test is shown in both graph and chart form on a single page. (Left or "A" Channel -4, Right or "B" Channel -5.) Screen prints were provided on both pages for verification purposes.

In tests where the mixer microphone Inputs were used as the point of test signal injection, the oscillator outputs were set for a - 50 dBu output level. The analyzer inputs were always looking at a + 4 dBu level. At the end of each test measurement a screen print of the test sweep is printed for verification purposes.

Test # 1: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 1 & 2. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 1 & 2. (The mixer inputs were set for Mic level.) Channel 1 was panned full left, and Channel 2 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 2 I.O. # 1. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to I.O. panel outputs PGM-1 L & R. The PGM L & R outputs were then routed through short XLR tie lines back into the portable one (+) test inputs. In this manner we were able to sweep the entire audio chain including the above-mentioned I.O. Mic inputs, the mixer input channels, and the distribution system with one set of test measurements.

Test # 2: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 3 & 4. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 3 & 4. (The mixer inputs were set for Mic level. Channel 3 was panned full left, and Channel 4 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 3 I.O. # 2. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to I.O. panel outputs PGM-2 L & R. The PGM L & R outputs were then routed through short XLR tie lines back into the portable one (+) test inputs.

Test # 3: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 3 & 4. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 3 & 4. (The mixer inputs were set for Mic level. Channel 3 was panned full left, and Channel 4 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 4 I.O. # 3. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to I.O. panel outputs PGM-3 L & R. The PGM L & R outputs were then routed through short XLR tie lines back into the portable one (+) test inputs.

Test # 4: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 3 & 4. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 3 & 4. (The mixer inputs were set for Mic level. Channel 3 was panned full left, and Channel 4 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 5 MAST-CAM. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to Inside I.O. panel outputs PGM-4 L & R. (These outputs are located inside the rear compartment on the back of the I.O. panel housing!) The PGM L & R outputs were then routed through short XLR tie lines back into the portable one (+) test inputs.

Test # 5: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 3 & 4. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 3 & 4. (The mixer inputs were set for Mic level. Channel 3 was panned full left, and Channel 4 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 4 I.O. # 3. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to Inside I.O. panel outputs PGM-5 L & R. (These outputs are located

inside the rear compartment on the back of the I.O. panel housing!) The PGM L & R outputs were then routed through short XLR tie lines back into the portable one (+) test inputs.

Test # 6: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 3 & 4. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 3 & 4. (The mixer inputs were set for Mic level. Channel 3 was panned full left, and Channel 4 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 4 I.O. # 3. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to <u>the external inputs to the 2 Ghz microwave transmitter on the mast</u>. A special adapter cable was used to connect to the mast mounted military connector where the signals were then fed through short XLR tie lines back into the portable one (+) test inputs. (After this series of test sweeps was accomplished, the mast connector was re-connected for proper user operation.)

Test # 7: In this test sweep the outputs of the portable one (+) test generator were routed to the I.O. panel via short audio XLR tie lines, where they were connected into the I.O. Panel Mic inputs 3 & 4. The signal was then allowed to pass through the normal signal paths into the Studio Technology audio mixer Mic/Line inputs 3 & 4. (The mixer inputs were set for Mic level. Channel 3 was panned full left, and Channel 4 was panned full right.) The main mixer outputs then routed the signal through normal signal paths to the inputs the XMSN switcher # 4 I.O. # 3. The PGM outputs of the XMSN switcher were then fed through the normal signal paths to the inputs of ADA's 1 and 2 where again they were routed through normal signal paths to <u>the external inputs to the 7 Ghz microwave transmitter on the mast</u>. A special adapter cable was used to connect to the mast mounted military connector where the signals were then fed through short XLR tie lines back into the portable one (+) test inputs. (After this series of test sweeps was accomplished, the mast connector was re-connected for proper user operation.)

Comments:

The audio system in this Shook built vehicle is a voltage source balanced interconnect system, and NOT an impedance matched interconnect system. All of the level measurements contained within this "Proof of Performance" document are measured in Dbu and not Dbm as there are NO loads, of any impedance, introduced into the system. see the section of your owner's manual titled " Basic Audio Hook Up and Grounding Procedures" for further details.

After Lynn Crabbe performed the above audio tests on this audio system, I now sign it off as operating within the designed operational parameters!

Signed off by

Tony Raven
Vice President
Director of Engineering
Shook Electronics USA Inc.
FCC License number:
PG-9 10976

APPENDIX E - Serial Number List

SERIAL NUMBER LIST : JOB #773 KABC

ITEM	DESCRIPTION	QTY.	MANUFACTURER	MODEL #	SERIAL #
1	SHOOK MOBILE ENG VAN	1	SHOOK	A11 ENG	1FTSS34S5YHB23094
2	AIR CONDITIONERS	1	DUO-THERM	57915.622	02530109
	AIR BOX	1	DUO-THERM	3107206.009	01139539
	HEATER KIT	1	DUO-THERM	3101121.030	94208807
3	LINE MONITORS	1	ELECTRO INDUST	LM-1600-10A	06-22111
4	GENERATOR, 6500 COMMERCIAL	1	ONAN	6.5NHDFB/1	E000106792
5	TRANSFORMER	1	PETER DAHL	SE 7.5T	052600
6	CHARGER/CONVERTER	1	AAP INC.	51222	AD42826
				FLY BACK 20-3	

KABC-TV
Job #:773
KABC TV Provided
Equipment Serial Number List

Item	Qty.	Model / Description	Serial #
1	1	KRK 60H Dual Head Kit	No S/N
2	1	KMC-27 Microphone	No S/N
3	1	KCH-11 Full Featured Head	No S/N
4	1	KES-4 Speaker	No S/N
5	1	KCT-22M2 Control Cable	NA
6	1	HDM-1 Holland Electronics Demodulator	W300794050
7	2	TK890H 2-Way Transmitter	20200080 20200084
8	2	VX-10 Yaesu Handheld Radio	9K480064 9K480063
9	2	BC895XLT Uniden Trunk Tracker	96009114 06011190

KABC TV
Job #: 773
Equipment List
Serial Number List

Item	Qty.	Model / Description	Serial #
1	1	TMD7-42PAK Willburt 42' Pneumatic Mast Package	26963
2	1	7-59121 Quickset Pan/Tilt Head	CP0600173
3	1	C90VS12-DC12 Quickset Controller for Pan/Tilt Head	0082
4	1	2/7Ghz BMS 2 & 7 Ghz Microwave System including: 80-13454-504 Rev. T BMT75-7P 12/3 Watt Transmitter 80-13454-800 Rev. D BMT75-9P Transmitter 800-6006-23 Rev. B TCP-100 Transmitter Control Panel 80-13776-030 2x4 Dish P/N: 740-3600-24	 453-18200 446-18200 424-20300 535-18200
5	1	Shook Mini-Shooter NTSC Mast Camera Pkg. including: 1- PT175-24P Pelco Weather Proof Pan/Tilt 1- MPT24DT Pelco Desktop Joystick Control Module 1- EH4718-1 Pelco Environmental Camera Enclosure 1- KP-D51 Hitachi Digital 1/2" CCD Color Camera 1- LMZ107M3R Kowa 8-80mm 1/2" C-Mount Zoom Lens 1- MLZ6DT Pelco Desktop Zoom Lens Control 1- R300 Pelco Rackmount Kit	 00026-22-0060 00041-05-0025 00066-20-0083 0040815 No S/N 00151-05-0040 No S/N
6	1	LNS-8 Shook Live News Switcher	652044B00240022
7	1	LNS-8 Toggle Option – Allows Remote Switching	NA
8	1	TSG-440 Sigma Genlockable Test & Sync Generator	5000003
9	1	1710J Tektronix NTSC Analog Video Waveform Monitor	B041727
10	1	1700F05 Tektronix Side-by-Side Mount	NA
11	2	FR-684AV Leitch Audio/Video DA Frame	0021822 0021821
12	4	VDA-683 Leitch Video/Subcarrier DA	No S/N
13	3	VEA-684 Leitch Video DA	No S/N
14	4	AMD-880 Leitch Mono Audio DA	No S/N
15	2	TM9-1 Ikegami 9" NTSC/PAL Color Monitor	17410486 17410320
16	1	RKMOB910 FEC Dual Rackmount Kit for TM9-1	NA
17	1	PM-509RM3 Ikegami Triple 5" Monochrome Monitor	105321 105351 105371
18	1	M750 Studio Technologies Audio Mixer	M750-00318
19	1	ELX-1B Electro Voice Mono Broadcast Mixer	994590007
20	1	LR412 RTS 12" Gooseneck Mic	NA
21	3	BP325 RTS Belt Pack Headset Station	B86365 B86336 B86392
22	1	MCP1 RTS Rackmount Kit	NA
23	1	MCS325 RTS Modular Intercom Speaker	553063T
24	1	MCE325 RTS Intercom Station	13263
25	1	PS15 RTS Intercom Power Supply	13246
26	1	D-45 Crown Audio Power Amplifier	560096
27	1	S-40B Electro-Voice Compact Monitor Speaker (Pair)	0021A1655
28	1	S-40MBB Electro-Voice Mounting Bracket for S-40B	NA

KABC TV
Job #: 773
Equipment List
Serial Number List

29	2	6301BEAV Fostex Monitor Speaker	0282724 0282725
30	1	Shook Off-Air Antenna "UFO" Style	NA
31	1	261U-DVJW Canare 1 RU Video Patch Panel Loaded	NA
32	8	VPC002F Canare 2′ Video Patch Cord	NA
33	1	32-12A/Type2 Audio Accessories 2RU Audio Patch Panel	NA
34	6	B2 ADC 2′ Blue Longframe Audio Patch Cord	NA
35	1	2000-012-115-060-X-S Exeltech Inverter	3069
36	1	EC1518-17-18-8-P LT Hannay Reel Motorized Cable Reel	1285975
37	1	VA2/4 2000 333 Gepco 100m Video/Audio Cable	NA
38	1	1091 Sachtler Sandwich Touch & Go Plate	NA
39	1	SPM-1 Wohler Audio Monitor Speaker	43506

APPENDIX F - Pre Delivery Check List

Shook Electronics USA, Inc.
Pre-Delivery Check List

Customer Name: KABC TV	Job Number: 773
Contact Name/Title:	Order Date:
Address:	Ship Date:
City, State, Country:	Shook Model: A-11 ENG
Type of Vehicle:	VIN: 1FTSS34S5YHB23094

I. Chassis

A: Functional Check:

Item	OK	By	Date	Comments
DOORS:			9/11	
Open & Close Easily	✓	TEF.		
Locks Work Properly	✓	TEF.		
2 Keys Work in Locks	✓	TEF.		
Hood Opens Properly	✓	TEF.		
Hood Latches Securely	✓	TEF.		
ENGINE:				
Starts Properly	✓	TEF.		
2 Keys Work	✓	TEF.		
Idles Smoothly	✓	TEF.		
Gear Select is Smooth	✓	TEF.		
HEATER/AC:				
Blower Works / All Speeds	✓	TEF		
Heater Blows Hot	✓	TEF		
AC Blows Cold	✓	TEF		
Defrost Blows Hot	✓	TEF		
Parking Brake Operates	✓	TEF.		
Tire Pressure Meets Mfg. Specs	✓	TEF.		
ELECTRICAL:				
Windshield Wipers/Washer	✓	TEF.		
Horn	✓	TEF		
Dome Lights	✓	TEF.		
Instrument Lights	✓	TEF		
Headlights (High and Low)	✓	TEF		
Parking Lights	✓	TEF.		
Turn Signals (front of vehicle)	✓	TEF.		
Tail Lights	✓	TEF.		
Turn Signals – Amber if required (rear of vehicle)	→			NA
Brake Lights	✓	TEF		
Back Up Lights	✓	TEF		
Running Lights	→			NA
License Plate Lights	✓	TEF.		
Cigarette Lighter	✓	TEF.		
Radio – AM/FM	✓	TEF.		
Seats Adjust Properly:				
Mirrors Adjust:	✓	TEF		
Windows Open/Close:	✓	TEF		
Test Driven:	✓	Bill		

Shook Electronics USA, Inc.
Pre-Delivery Check List

B: Visual Inspection Items:
(Nothing short of Perfection is acceptable!!)

Item	OK	By	Date	Comments
EXTERIOR:				
Clean	✓	TEF.		
Paint (Clean, no dings,chips or scratches)	✓	Bill		
Windows	✓	TEF.		
Chrome Nick & Dent Free	✓	TEF.		
Body Panel & Fit Finish OK	✓	TEF.		
License Plate Installed	✓	Bill		
AIR SUSPENSION:				
Properly Installed				
No Leaks				
ENGINE COMPARTMENT:				
Clean	✓	TEF.		
No Leaks	✓	TEF.		
Transmission Fluid Level	✓	TEF.		
Oil Level	✓	TEF.		
Brake Fluid	✓	TEF.		
Power Steering Fluid	✓	TEF.		
Cables in Loom & Tie-Wrapped	✓	TEF.		
Fan Belts Tight	✓	TEF.		
Battery Posts Clean & Tight	✓	TEF.		
Battery Isolator Installed/Labeled	✓	TEF.		
Coolant Level	✓	TEF.		
Spare Tire Secure	✓	TEF		
Jack Secure	✓	TEF.		
CAB INTERIOR:				
Trim and Moldings Tight	✓	Bill		
Floor and Mats Clean	✓	Bill		
Ashtrays Clean	✓	Bill		
Dashboard Clean and Dusted	✓	TEF.		
Glove Compartment Clean	✓	TEF.		
Steering Wheel Tight & Clean	✓	TEF.		
Door Panels Tight	✓	TEF.		
Upholstery Clean	✓	TEF.		
Operator's Manual in Vehicle	✓	TEF.		
Safety Labels Installed	✓	TEF.		

II. Equipment Housing

A: Visual Inspection Items:
(Nothing Short of Perfection is Acceptable!!)

Item	OK	By	Date	Comments
EXTERIOR:				

Shook Electronics USA, Inc.
Pre-Delivery Check List

Roof: No Punctures	✓	TEF.		
Paint Smooth and Uniform	✓	TEF.		
Logo Sharp & Clear	✓	TEF.		
No Dings, Dents	✓	TEF.		
Cracks & Joints Sealed Smoothly	✓	TEF.		
Holes Sealed, Vulcumed & Touched Up	✓	TEF.		
Door & Window Fit	✓	TEF		
Dead Bolt Locks on Entry Doors	→			NA
METAL WORK:				
Tight Fit	✓	TEF		
Smooth Corners	✓	TEF.		
Smooth Edges	✓	TEF.		
Joints Sealed, Caulked & Smooth	✓	TEF		
No Burrs	✓	TEF.		
Welds: No Cracks, Holes, Splatter, or Burn-Through	✓	TEF.		
BELLY BOXES:				
Doors Close & Latch Properly				
Clean & Tight				
Steps & Rails Securely Stowed				
Contents Stowed Neatly				
Vulcum Installed where Needed				
I/O PANEL:				
Properly Labeled	✓	TEF.		
Weatherstripping Installed Securely	✓	TEF.		
Lights Work	✓	TEF.		
Covers Close Tightly	✓	TEF		
2 Keys per Lock	✓	TEF.		
AWNING:				
Securely Mounted				
Neatly Rolled				
Controls Labeled				
INTERIOR:				
Carpet Clean, Tight, No Burns or Snags	✓	TEF.		
Tile Floor Clean & Waxed	✓	TEF.		
Ceiling Sonex	✓	TEF.		
WOODWORK:				
Wood Surface Finish Smooth & Sealed	✓	TEF.		
Cabinets & Consoles Secure	✓	TEF.		
Formica Fit & Finish	✓	TEF.		
Fire Extinguishers in Place	✓	TEF		

Shook Electronics USA, Inc.
Pre-Delivery Check List

RACKS:				
Securely Mounted in Place	✓	TEF.		
Proper Matching Screws Used	✓	TEF.		
No Scratched Paint	✓	TEF.		
Floor Area Clean	✓	TEF.		
Exposed Wood Painted Black	✓	TEF.		
EQUIPMENT WIRING:				
Neatly Dressed/Harnessed	✓	Bill		
Properly Labeled & Terminated	✓	Bill		
Service Loops Correct Length	✓	Bill		
Matches Provided Diagrams				
AC WIRING:				
Neatly Dressed/Harnessed	✓	Bill		
Numbered & Labeled	✓	Bill		
Conforms to Wiring Diagram	✓	Bill		
DC WIRING:				
Neatly Dressed/Harnessed	✓	Bill		
Numbered & Labeled	✓	Bill		
Conforms to Wiring Diagrams	✓	Bill		
ELECTRICAL:				
Switch & Outlet Covers in Place	✓	Bill		
Breaker Panels Properly Labeled	✓	Bill		
Shore Power Switch Labeled & Tested	✓	Bill		
Meters working & legible	✓	Bill		
Safety Labels Installed where appropriate	✓	Bill		
GENERATOR:				
Securely Mounted	✓	TEF.		
Soundproofing Installed Properly	✓	TEF.		
Compartment Clean	✓	TEF.		
Hose & Belt Routing	✓	TEF.		
Access Panel Tight	✓	TEF.		
Exhaust Secure, no Leaks	✓	TEF.		
Hot Exhaust Pipes Insulated				
Intake Opening Clear	✓	TEF.		

B: Functional Checks:
(Check Operation of All Items Listed)

Item	OK	By	Date	Comments
Electric Steps				
Stabilizers and Ignition				

Shook Electronics USA, Inc.
Pre-Delivery Check List

Cutouts	✓	BH		
Trailer Landing Gear				
Air Ride System (check for leaks)				
LIGHTS:				
Exterior Lights	✓	TEF.		
Interior Overhead Lights	✓	TEF		
Track Lights	✓	TEF.		
Emergency Lights	✓	TEF.		
MAST SYSTEM:				
Moves Up/Down Smoothly	✓	TEF.		
Warning Label Installed/Visible	✓	TEF		
Pan/Tilt Moves Smoothly	✓	TEF.		
Pan/Tilt Limits Set	✓	TEF.		
Connections Checked for Tight Fit/Proper Termination, with Strain Relief	✓	TEF		
Ignition Cutout Properly Working	✓	TEF.		
Cutout Sensor Switches Located as shown in diagrams				
ALARM SYSTEM:	✓	BH		
Arm & Disarm	✓	BH		
2 Remotes Working	✓	BH		
Installation Matches Drawing				

I. Video System

A: Functional Checks:

Item	OK	By	Date	Comments
Sync Generator(s)				
Check all Outputs	✓	MC	9/29/00	
Changeover Unit				
Check Functioning	N/A			
Video Distribution Amplifiers				
All Gains Matched	✓	MC	9/29/00	
Clocks & Timers	N/A			
Test Signal Generator				
Check all Functions	✓	MC	9/29/00	
Waveform/Vectorscope				
Check all Functions	✓	MC	9/29/00	
Cameras				
Test Auto Set-Up	✓	MC	9/29/00	
High & Low Light Operation	✓			
Shutter	✓			
Picture and Bars Out	✓			

Shook Electronics USA, Inc.
Pre-Delivery Check List

Return Video				
All Remote Control Functions	✓	MZC	9/29/00	
VCR's				
Audio & Video Record	N/A			
Audio & Video Playback	N/A			
Switchers/DVE				
Check Input Timing	✓	MZC	9/29/00	
Test All Functions/All Buses	✓			
Check Output Levels	✓			
Test all Functions on all Panels	✓			
Monitors				
Check all Active Inputs	✓	MZC	9/29/00	
Test All Controls	✓			
Tallies Labeled & Working	✓			
Flow Diagrams Provided	✓			
Wiring Diagrams Provided	✓			

II. Audio Systems

Item	OK	By	Date	Comments
Intercom System				
Test All Stations	✓	MZC	9/29/00	
Test All Channels	✓			
Test All Headsets	✓			
IFB System				
Test all Components	✓	MZC	9/29/00	
Audio Mixer				
Test all Inputs	✓	MZC	9/29/00	
Test all Outputs	✓			
Test Aux Sends	✓			
Test Aux Returns	✓			
Test all Controls	✓			
Audio Sources				
CD Player	N/A			
Cart Recorder/Player	N/A			
Digicart	N/A			
R-Dat	N/A			
All Microphones	N/A			
Amps & Speakers				
Flow Diagrams Provided	✓	MZC	9/29/00	
Wiring Diagrams Provided	✓	"	"	

III. RF Systems

Item	OK	By	Date	Comments
Microwave System				
Power Output Indication	✓	MZC	9/29/00	
'N' Connectors Checked	✓	MZC	9/29/00	

Shook Electronics USA, Inc.
Pre-Delivery Check List

Connections Tight	✓	JRC	9/29/00	
Satellite Uplink System	N/A			
Positioning System finds Satellite				
Deviations Set				
Power Output				
Video & Audio Back Feeds				
Flow Diagrams Provided				
Wiring Diagrams Provided				

Present this completed Checklist to Customer or Representative

SHOOK DOMESTIC WARRANTY

SHOOK ELECTRONICS USA, INC. warrants that at the time of delivery and thereafter, all vehicles (with the exception of the Ford Supervan) will be warranted against structural defects in material and workmanship for a period of (7) years. All other items are warranted for a period of one (1) year for parts and labor. Products delivered under the order will conform to applicable drawings and specifications and will be free of defects in material and workmanship.

Parts defective in material and/or workmanship returned to SHOOK ELECTRONICS USA will be repaired or replaced at the option of SHOOK ELECTRONICS USA and returned to the BUYER. Parts returned to SHOOK ELECTRONICS USA must be shipped prepaid. All shipping and transportation charges shall be the responsibility of the BUYER.

This warranty does not extend to any SHOOK ELECTRONICS USA products which have been subjected to misuse, accident or improper installation, maintenance or application, nor does it extend to products which have been repaired or altered outside the SHOOK ELECTRONICS USA plant unless authorized in writing by SHOOK ELECTRONICS USA or unless such installation, repair or alteration is performed by SHOOK ELECTRONICS USA. This warranty does not extend to any labor charges for the removal and/or replacement of any defective product or part thereof, nor does it extend to parts of components which are not manufactured by SHOOK ELECTRONICS USA, such as, without limitation, solid state devices, electron tubes, cable, monitors, switching equipment and tripods; such parts or components are covered by the warranties of their respective manufacturers.

THIS WARRANTY IS EXPRESSLY ACCEPTED BY THE BUYER IN LIEU OF ANY OR ALL OTHER WARRANTIES OR REPRESENTATION, EXPRESSED OR IMPLIED, IN FACT OR IN LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND OF ALL DUTIES OR LIABILITIES OF SHOOK ELECTRONICS USA TO THE BUYER ARISING OUT OF THE USE OF THE GOODS, AND NO AGREEMENT OR UNDERSTANDING VARYING OR EXTENDING THIS WARRANTY WILL BE BINDING UPON SHOOK ELECTRONICS USA UNLESS IN WRITING, SIGNED BY A DULY AUTHORIZED OFFICER OF SHOOK ELECTRONICS USA, INC.

NOTE: THERE MAY BE AREAS OF THIS WARRANTY VOIDED OR ALTERED BY STATE LAW