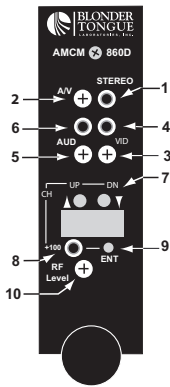


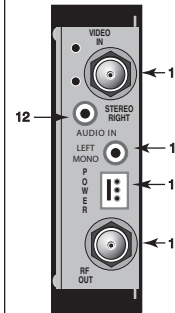
Operating Controls and Indicators

Front Panel



1. **Stereo Indicator** - Lit when video and stereo audio are present.
2. **Audio/Video Ratio Adjustment** - Adjustment of the A/V Ratio is permitted from approximately -19 dB (full clockwise position) to approximately -10 dB (full counterclockwise position) by rotating the potentiometer.
3. **Video Adjustment** - Adjustment of the Video Modulation Level is permitted by rotating the potentiometer.
4. **Video Over Modulation LED Indicator**
5. **Audio Adjustment** - Adjustment of the Audio Modulation Level is permitted by rotating the potentiometer.
6. **Audio Over Modulation LED Indicator**
7. **Up/Down Buttons** - Used to set the desired channel or mode.
8. **+100 Indicator** - Lights when channel settings are 100 -135.
9. **Channel ENT Button** - Enter button used to enter a desired channel or mode.
10. **RF Level Adjustment** - Potentiometer adjustment used to set the output level. Has a range of 15 dB, optimum performance with a 10 dB adjustment.

Rear Panel



11. **Video Input**
"F" Connector
1VP-P for 87.5% depth of mod
12. **Right Stereo Audio In**
RCA Connector
0.5 - 4.0 VP-P
(Constant AGC Range)
13. **Left Stereo Audio or Mono In**
RCA Connector
0.5 - 4.0 VP-P
(Constant AGC Range)
14. **Power Connector**
15. **RF Output**
"F" Connector

CAUTION

It is strongly recommended to use the **Blonder Tongue MIPS-12C** or the **MIRC-4B/MIRC-4C** power supplies with the **AMCM-860**. It is also recommended to use the optional headend fan unit (**QTHF, Stock No. 6235**) when deploying more than 6 **AMCM-860** units in the **MIRC-12V** chassis. A rack space above and below the chassis unit is suggested for heat dissipation and air flow.

Programming the Unit

The AMCM unit comes factory set to operate in the Standard CATV mode.

The unit has 4 valid operating modes: STD CATV, IRC, HRC & Broadcast UHF/VHF. (Skip to the next section for programming the operating mode)

Programming a Channel

1. Navigate to the desired channel number by depressing the CH ▲ UP and ▼ DN buttons.
 - a. Continuous past 99 for channels 100-135, the +100 red LED will illuminate.
2. Press the ENT button when you reach the desired channel setting. This will tune the modulator output to the corresponding channel frequency for this entry.
 - a. The LED display will blink continuously during the channel programming process and will not change the output frequency the unit is programmed until the ENT button is depressed.
 - b. The unit has a special feature that alerts an operator of an inadvertent or desired change to the channel display by flashing the LED readout. The LED display will continue to flash for 30 seconds if the ENT button is not depressed and then will return to the display of the previously programming channel entry setting.

Operating Mode Selection

The unit has 4 valid operating modes: STD CATV, IRC, HRC & Broadcast UHF/VHF. The AMCM unit comes factory set to operate in the Standard CATV mode.

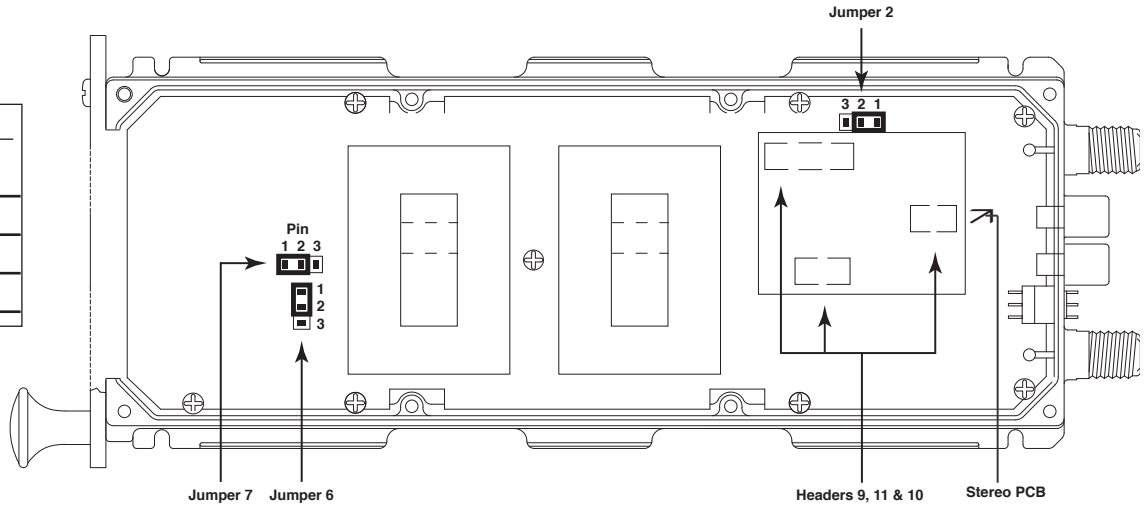
To change the operating mode:

1. Simultaneously depress the CH ▲ UP and ▼ DN buttons for approximately 5 seconds.
2. The Channel LED display will switch to the operating mode selection.
3. Use the CH ▲ UP and ▼ DN buttons to select the desired mode:
 - a. C = STD CATV
 - b. H = HRC
 - c. I = IRC
 - d. U = Broadcast (VHF/UHF)
4. After selecting the desired mode depress the ENT button to set the mode.
5. The unit will return to the channel display mode.
 - a. Programming will reflect the mode chosen – See Appendix A for a detailed frequency plan.
 - b. The programming mode will also flash continuously during the programming process. The LED display will continue to flash for 30 seconds if the ENT button is not depressed and then will return to the display of the previously programming channel & mode entry setting.

ATTENTION!

See Appendix A on the reverse of this sheet for a complete list of available channels and corresponding frequency plan

JUMPER SETTINGS	
MONO Stock No. 7766D	STEREO Stock No. 7766DS
J2 – PIN 2-3	J2 – PIN 1-2
J6 – PIN 2-3	J6 – PIN 1-2
J7 – PIN 2-3	J7 – PIN 1-2



Jumper Settings Shown For Optional Stereo PCB Installation

Troubleshooting

A continuous flashing Channel Display indicates an Error Condition detected by the unit microcontroller. Sample conditions include:

- Channel Selector Entry does not match the channel number on which the modulator is operating, the display will flash for 30 seconds and then revert back to the previous CH entry
- E1 is displayed if the Input & VCO is Not Locked
- E2 is displayed if the Output VCO is Not Locked
- E3 is displayed if both VCO's are Not Locked

Correction Suggestions

The User should perform the following steps to correct an Error Condition:

1. Check that the Channel Display is set to the desired channel & reset as appropriate
2. Check that the unit is set to the appropriate desired operating mode
3. Verify the unit output on a spectrum analyzer
4. Disconnect & reconnect power to the unit

If an error condition continues to be displayed, unit should be replaced and serviced

Appendix A - Unit Operating Frequency Plan

EIA Chan.	Standard Visual Carrier	Incremental Visual Carrier (IRC)	Harmonic Visual Carrier (HRC)	EIA Chan.	Standard Visual Carrier	Incremental Visual Carrier (IRC)	Harmonic Visual Carrier (HRC)	EIA Chan.	Standard Visual Carrier	Incremental Visual Carrier (IRC)	Harmonic Visual Carrier (HRC)	VHF Broadcast Channels Channel	Video (MHz)	UHF Broadcast Channels Channel	Video (MHz)	
02	55.2500	55.2625	54	42	331.2750	331.2750	330	88	607.2500	607.2625	606	2	55.25	35	597.25	
03	61.2500	61.2625	60	43	337.2625	337.2625	336	89	613.2500	613.2625	612	3	61.25	36	603.25	
04	67.2500	67.2625	66	44	343.2625	343.2625	342	90	619.2500	619.2625	618	4	67.25	37	609.25	
01	NA	73.2625	72	45	349.2625	349.2625	348	91	625.2500	625.2625	624	5	77.25	38	615.25	
05	77.2500	79.2625	78	46	355.2625	355.2625	354	92	631.2500	631.2625	630	6	83.25	39	621.25	
06	83.2500	85.2625	84	47	361.2625	361.2625	360	93	637.2500	637.2625	636	7	175.25	40	627.25	
95	91.2500	91.2625	90	48	367.2625	367.2625	366	94	643.2500	643.2625	642	8	181.25	41	633.25	
96	97.2500	97.2625	96	49	373.2625	373.2625	372	100	649.2500	649.2625	648	9	187.25	42	639.25	
97	103.2500	103.2625	102	50	379.2625	379.2625	378	101	655.2500	655.2625	654	10	193.25	43	645.25	
98	109.2750	109.2750	Cannot lock to comb ref. refer to FCC regs	51	385.2625	385.2625	384	102	661.2500	661.2625	660	11	199.25	44	651.25	
99	115.2750	115.2750		52	391.2625	391.2625	390	103	667.2500	667.2625	666	12	205.25	45	657.25	
14	121.2625	121.2625	120	53	397.2625	397.2625	396	104	673.2500	673.2625	672	13	211.25	46	663.25	
15	127.2625	127.2625	126	54	403.2500	403.2625	402	105	679.2500	679.2625	678			47	669.25	
16	133.2625	133.2625	132	55	409.2500	409.2625	408	106	685.2500	685.2625	684			48	675.25	
17	139.2500	139.2625	138	56	415.2500	415.2625	414	107	691.2500	691.2625	690			49	681.25	
18	145.2500	145.2625	144	57	421.2500	421.2625	420	108	697.2500	697.2625	696			50	687.25	
19	151.2500	151.2625	150	58	427.2500	427.2625	426	109	703.2500	703.2625	702			51	693.25	
20	157.2500	157.2625	156	59	433.2500	433.2625	432	110	709.2500	709.2625	708			52	699.25	
21	163.2500	163.2625	162	60	439.2500	439.2625	438	111	715.2500	715.2625	714			53	705.25	
22	169.2500	169.2625	168	61	445.2500	445.2625	444	112	721.2500	721.2625	720			54	711.25	
07	175.2500	175.2625	174	62	451.2500	451.2625	450	113	727.2500	727.2625	726			55	717.25	
08	181.2500	181.2625	180	63	457.2500	457.2625	456	114	733.2500	733.2625	732			56	723.25	
09	187.2500	187.2625	186	64	463.2500	463.2625	462	115	739.2500	739.2625	738			57	729.25	
10	193.2500	193.2625	192	65	469.2500	469.2625	468	116	745.2500	745.2625	744			58	735.25	
11	199.2500	199.2625	198	66	475.2500	475.2625	474	117	751.2500	751.2625	750			59	741.25	
12	205.2500	205.2625	204	67	481.2500	481.2625	480	118	757.2500	757.2625	756			60	747.25	
13	211.2500	211.2625	210	68	487.2500	487.2625	486	119	763.2500	763.2625	762			61	753.25	
23	217.2500	217.2625	216	69	493.2500	493.2625	492	120	769.2500	769.2625	768			62	759.25	
24	223.2500	223.2625	222	70	499.2500	499.2625	498	121	775.2500	775.2625	774			63	765.25	
25	229.2625	229.2625	228	71	505.2500	505.2625	504	122	781.2500	781.2625	780			64	771.25	
26	235.2625	235.2625	234	72	511.2500	511.2625	510	123	787.2500	787.2625	786			65	777.25	
27	241.2625	241.2625	240	73	517.2500	517.2625	516	124	793.2500	793.2625	792			66	783.25	
28	247.2625	247.2625	246	74	523.2500	523.2625	522	125	799.2500	799.2625	798			67	789.25	
29	253.2625	253.2625	252	75	529.2500	529.2625	528	126	805.2500	805.2625	804			68	795.25	
30	259.2625	259.2625	258	76	535.2500	535.2625	534	127	811.2500	811.2625	810			69	801.25	
31	265.2625	265.2625	264	77	541.2500	541.2625	540	128	817.2500	817.2625	816					
32	271.2625	271.2625	270	78	547.2500	547.2625	546	129	823.2500	823.2625	822					
33	277.2625	277.2625	276	79	553.2500	553.2625	552	130	829.2500	829.2625	828					
34	283.2625	283.2625	282	80	559.2500	559.2625	558	131	835.2500	835.2625	834					
35	289.2625	289.2625	288	81	565.2500	565.2625	564	132	841.2500	841.2625	840					
36	295.2625	295.2625	294	82	571.2500	571.2625	570	133	847.2500	847.2625	846					
37	301.2625	301.2625	300	83	577.2500	577.2625	576	134	853.2500	853.2625	852					
38	307.2625	307.2625	306	84	583.2500	583.2625	582	135	859.2500	859.2625	858					
39	313.2625	313.2625	312	85	589.2500	589.2625	588									
40	319.2625	319.2625	318	86	595.2500	595.2625	594									
41	325.2625	325.2625	324	87	601.2500	601.2625	600									

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**BLONDER
TONGUE**
LABORATORIES, INC.

One Jake Brown Road
Old Bridge, NJ 08857-1000 USA
(800) 523-6049 • (732) 679-4000 • FAX: (732) 679-4353
www.blondertongue.com