AudioControl®
Making Good Sound Great™

DM-RTA

In cooperation with: **EDUCAR** TRAINING

OEM Integration Checklist

Use this checklist to ensure the rest of your installation goes as planned.

Client name:	
Vehicle Year/Make/Model:	
Notes/Issues with vehicle:	

Chimes & Alerts? ➡ Use **Your Ears**

1	Activate turn signals, navi prompts, door & warning chimes, parking sensors, etc. one at a time.
2	Listen to each speaker & identify which OEM chimes/alerts/tones are played on each channel.
3	Record your results in the chart at the bottom of the checklist by writing in for each channel, which chime/alert/tone is played, if any.

Polarity Testing ➡ Use the **Polarity Checker**

1	Connect an audio output from the DM-RTA to your head unit, click 'Start Measurement".
2	Connect a mic to the XLR input using an extension cable, and hold it close to each speaker.
3	Record your results in the chart at the bottom of the checklist by writing in a + or - for each ch.

High or Low Level? ➡ Use the **Voltage Meter**

1	Connect an audio output from the DM-RTA to your head unit, play sine wave @ **1khz**.	
2	Test the signal between OEM head unit & amplifier using the 4 pin speaker level input.	
3	Test output from the OEM amplifier (if present) using 4 pin speaker level input.	
4	Record your results- was the voltage...	Less than 5 volts (balanced preamp)
		5-12 volts (basic deck power)
		13 volts or more (post-amp speaker level)

Find Max Volume ➡ Use the **Oscilloscope**

1	Connect an audio output from the DM-RTA to your head unit, play 60hz sine wave for bass or 1khz for full range applications.
2	Test the output of the source you plan to use for input, using the appropriate connector/input.
3	Raise the source unit's volume until you start to see clipping on the display. Back it down until the display shows smooth, rounded waves without any flat spots. This is your maximum undistorted volume from the
4	Record number here for future reference → MAX VOLUME:

Crossed over? ➡ Use the **RTA**

1	Connect an audio output from DM-RTA to head unit, center all BASS/TREBLE/BALANCE/FADER settings, & start playing pink noise.
2	Connect each channel individually using the 4 pin speaker level input.
3	Analyze results to determine if each channel is full range or pre-crossed over.
4	Record your results in the chart at the bottom of the checklist.

OEM EQ? ➡ Use the **RTA**

1	Connect an audio output from the DM-RTA to the source unit.
2	Center all BASS/TREBLE/BALANCE/FADER settings, & start playing pink noise.
3	Connect each channel individually using the 4 pin phoenix connector/speaker level input.
4	Test each channel, looking for any major "peaks" or "valleys" in the frequency response.
5	Change volume up & down to confirm.
6	Record your results in the chart below.

Record Results in the Chart Below

	Chimes/Alerts/Tones:	Polarity:	Full Range:	Crossed Over:	EQ:	Notes:
FRT HI						
FRT MID						
FRT LO						
REAR HI						
REAR LO						
CENTER						
SUB(S)						
OTHER						
OTHER						

Now you know the type of signal you'll be dealing with, where you'll obtain signal & integrate, if summing will be necessary, if AccuBass or an Epicenter will be needed, your source's max volume and what type of integration product will be required to achieve the desired results.

Suggested integration products:
(circle one) **EPICENTER Plus / LC2i / LC6i / LC7i / LC8i / LCQ-1 / DQ-61 / DM-608 / DM-810**