

FROM HEAD END 70V SPEAKER OUT

TAP INTO EXISTING 70V SPEAKER WIRE

TSD-HF11
Atlas Sound
TSD-HF11
Passive Horn Crossover and Limiter

CROSSOVER/LIMITER HORN PROTECTION

SET LOW-CUT FILTER SW AND ADJUST GAIN AND LIMITER SEE MANUAL

PA601
Atlas Sound
PA601
Power Amplifier

AMPLIFIER

70V SPEAKER OUT

FAP42TC
Atlas Sound
FAP42TC
Passive Horn Driver

EXISTING DISTRIBUTED AUDIO

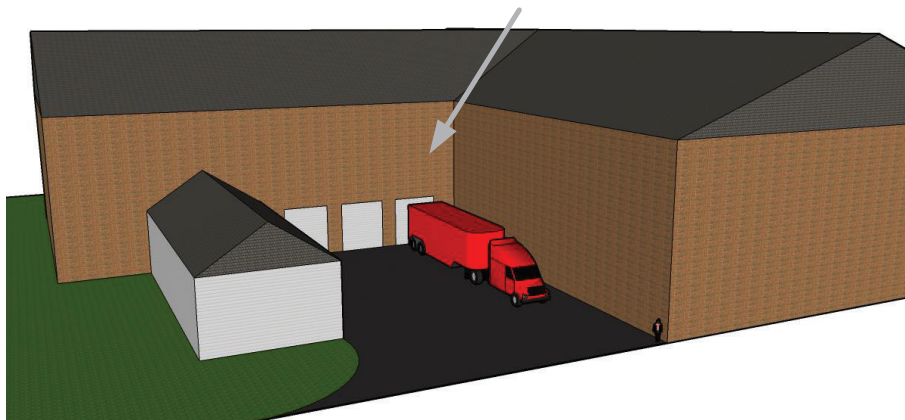
TSD-TXHL
Atlas Sound
TSD-TXHL
Active Line Level Converter

CONVERTS SPEAKER LEVEL TO LINE LEVEL

ADDED ZONE

AP-30T
Atlas Sound
AP-30T
Active Horn Driver

LOADING DOCK OR WAREHOUSE



LINE COLOR KEY

	LINE LEVEL AUDIO SIGNAL
	LOUDSPEAKER LEVEL
	CONTROL SIGNAL
	MIC LEVEL AUDIO SIGNAL
	VIDEO
	GROUND
	120V



Overview:

This example illustrates how to use a TSD-HF11 as a preamp/limiter to feed a secondary horn paging system in an existing 70V system using a TSD-TXHL speaker level to line level converter.

Application Example Description:

This example will illustrate how to use an existing 70V speaker line in conjunction with a TSD-HF11 and TSD-TXHL to create a secondary paging zone when the head end is too far away or not easily accessible to economically run pre-amp lines. The TSD-TXHL is used to convert the 70V speaker line to line-level. This unit can be connected to the TSD-HF11 for separate filtering and horn protection. An additional amplifier can then be used to set the desired horn level.

Benefits:

- Cost effective Problem Solver
- Excellent Horn Protection
- Easy to Install and Configure

Application Example Notes:

1. Any paging system with 70V speakers can be used for this simple add-on. The TSD-TXHL does not add a resistive load to the existing speaker system when connected.
2. The following diagram incorporates an Atlas Sound PA601, but any amplifier can be used as long as the total power of the amplifier does not exceed the maximum power of the attached speakers/horns needed to complete the design. A good rule of thumb is to allow 30% amplifier head room in the amplifier power.
3. Ensure an AC power location is accessible near the location of the TSD components and amplifier such as a shelf or rack.
4. Before installing the TSD-HF11 and TSD-TXHL read the manuals for a complete understanding of the benefits and use.
 - Select the 70V option on the TSD-TXHL.
 - Ensure the pre-amp output level of the TSD-TXHL is set so as to not overdrive the input of the TSD-HF11.
 - Find the frequency bandwidth of the speakers being connected to the TSD-TXHL. Select the appropriate Low Cut filter on the TSD-HF11 that corresponds to the frequency range of the speakers.
 - Set the maximum input level to the amplifier via the TSD-HF11 output limiter in order to not overdrive the input.
 - Adjust the amplifier level to the desired level. Fine-tune the limiter so the speakers are not overpowered.



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