

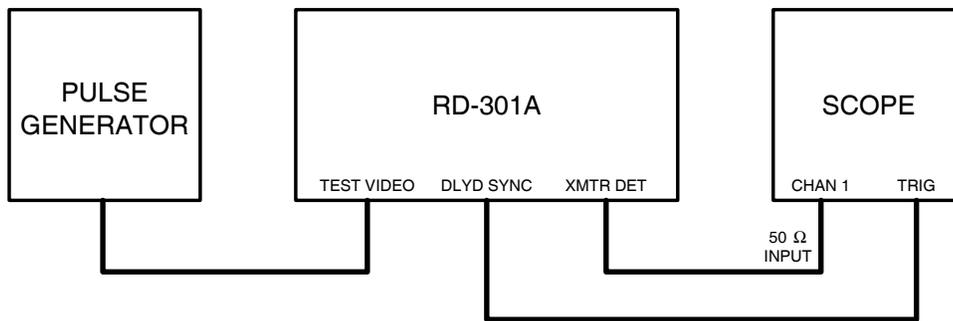
APPENDIX B - R1,R2 AUTO THRESHOLD ADJUSTMENT

1. General

When the RANGE SEL Switch is set to R1,R2 AUTO, Range 1 or Range 2 reply is selected according to the width of the UUT transmitter pulse. The R1,R2 AUTO threshold adjustment on the Discriminator #1 PC Board sets the determining width. When the UUT transmitter pulse width is > the determining width, only Range 2 reply is selected. When the UUT transmitter pulse width is < the determining width, only Range 1 reply is selected. The determining width is calibrated to 0.4 μ s. When a different determining width is desired, perform the R1,R2 AUTO Threshold Procedure.

2. R1,R2 AUTO Threshold Procedure

TEST EQUIPMENT: Oscilloscope
Pulse Generator

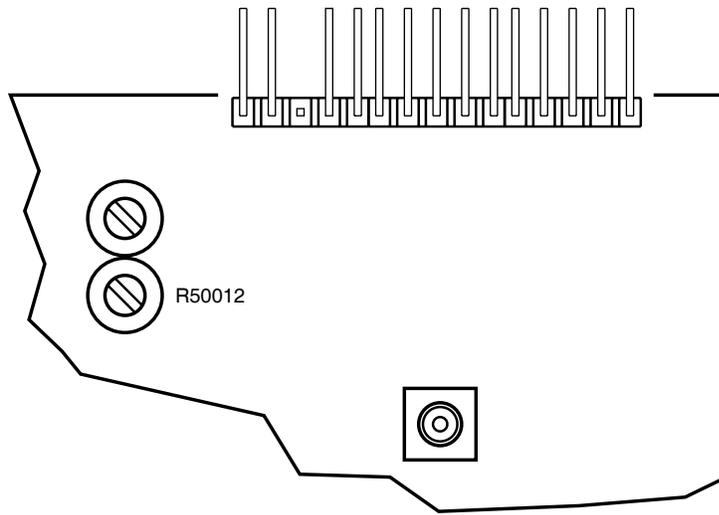


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R1,R2 AUTO Threshold Hookup Diagram
Figure 1

STEP	PROCEDURE
1.	Remove four screws and top cover from RD-301A.
2.	Connect test equipment as shown in Appendix B, Figure 1.
3.	Adjust Pulse Generator for desired determining pulse width (0.2 to 1.0 μ s) at approximately +3 Vp.
4.	Set Oscilloscope to view Range 1 or Range 2 reply delay.

5. Refer to Appendix B, Figure 2 and adjust R50012 fully cw.



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Discriminator #1 PC Board R1,R2 AUTO Threshold
Figure 2

6. Adjust R50012 ccw until AUTO function changes from Range 1 Reply to Range 2 Reply.
7. Vary Pulse Generator pulse width output and verify AUTO function range reply changes at threshold set in Step 6. Readjust R50012 as necessary.