



# SSB-SC AMPLITUDE MODULATION DEMODULATION TRAINER

MODEL - COM103N

This trainer has been designed with a view to provide practical & experimental Knowledge of Single sideband Suppressed carrier Amplitude Modulation /Demodulation technique on a SINGLE P.C.B.



## SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board AF Modulating signal generator - Sine wave  
Frequency Range : 1KHz to 10KHz  
Amplitude : 0 to 3 Vpp.
4. On Board RF carrier signal generator.  
Frequency Range : 400KHz to 500KHz.  
Amplitude : 0 to 10 Vpp.
5. On Board Band Pass Filter : 452-458 KHz Bandwidth
6. Modulator Type : Filter & Phase shift Method.
7. Demodulator Type : Product detector with Low Pass Filter -Cut off Freq. 3.4 KHz.
8. All parts are soldered on single PCB of size 15" x 12" with complete circuit diagram screen-printed.
9. Standard Accessories :
  1. A Training Manual.
  2. Connecting Patch cords.

## EXPERIMENTS

1. To generate SSB-SC AM signal using Filter & Phase shift Method
2. To demodulate SSB-SC signal using Product detector (i.e. coherent detection).
3. To see the effect on SSB-SC AM modulated output by varying the amplitude and frequency of modulating signal.

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