Practicals in Analog Communication

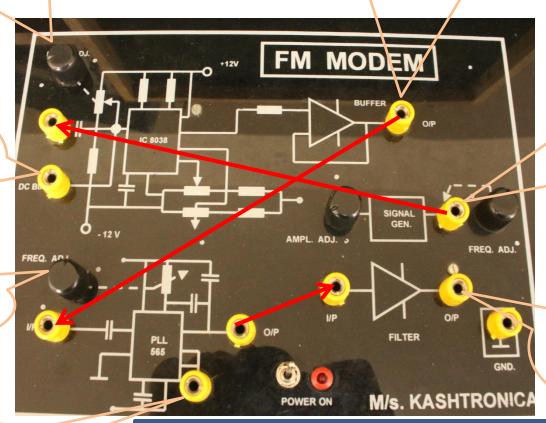
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4.Adjust frq. adj. pot so as to get
50KHz freq. on DSO
6.Vary the freq. adj. pot so as to
get 'X+0.5V' on DMM
8.Vary the freq. adj. pot so as to
get 'X-0.5V' on DMM
10.Adjust freq. adj. pot so as to get
back 50KHz freq. on DSO

3.Connect DSO
7.Note down the frequency F₁ for 'X+0.5V'
9.Note down the frequency F₂ for 'X-0.5V'
13.Observe FM signal and it's freq spectrum on DSO.
15. Observe FM signal and it's freq spectrum on DSO for new value of β.

2.Connect DMM
5.Measure dc bias vtg.
At 50KHz (say 'X' V)
11.Disconnect DMM.

18. Vary freq. adj. pot so as to have 50KHz free running freq



1.Adjust

1V_{p-p}, 1KHz

14. Change
the
modulating
signal
frequency
so as to
have
another
value of β.

20. Connect DSO 21. Observe Recovered message signal

17.Connect DSO
19. Disconnect DSO

12. Calculate frequency deviation and corresponding value of β .

16. . Repeat step 14 and 15 for at least two more values of β .

