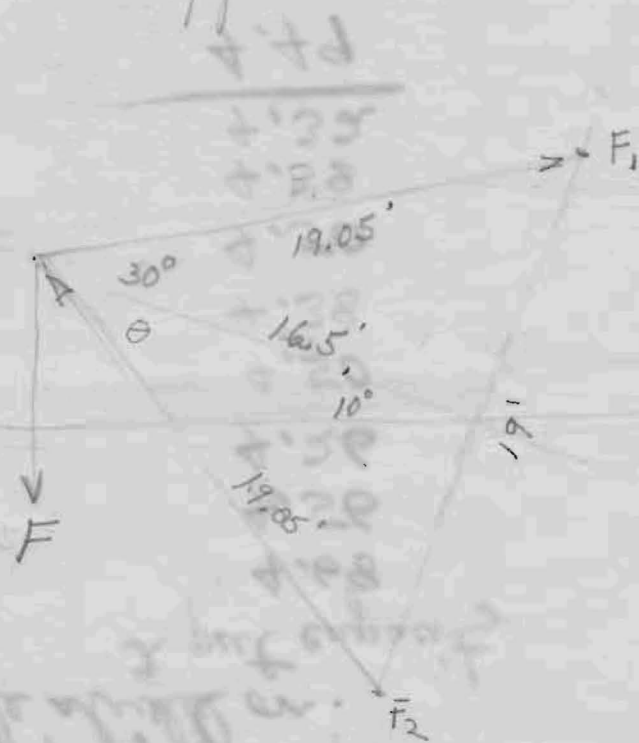


Machine tipped to 10° to horizon



$$\tan \theta = \frac{9.5}{16.5} = .576$$

$$\theta = 30^\circ$$

$$F_1 \cos(30-10) = F_2 \cos(30+10) = .942F_1 = .769F_2$$

$$F = F_1 \sin(30-10) + F_2 \sin(30+10) = .343F_1 + .644F_2$$

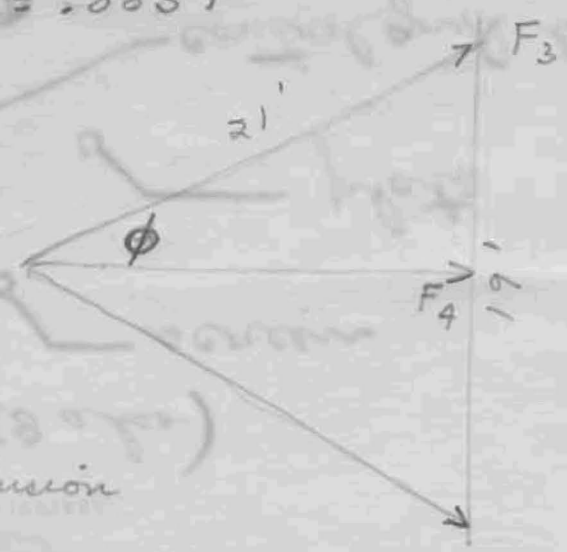
$$F_1 = \frac{.769}{.942} F_2 = .815 F_2$$

$$F = .343 \cdot .815 F_2 + .644 F_2 = .924 F_2$$

$$F_2 = \frac{F}{.924} = 1.082 F, F_1 = .883 F$$

$$\phi = \sin^{-1} \frac{9.5}{21} = \sin^{-1} .453 = 27^\circ$$

$$F_3 = F_4 / 2 \cos \phi = .556 F_4$$



Load on upper members each (28000)

$$.556 \cdot .883 F = .491 F \text{ tension}$$

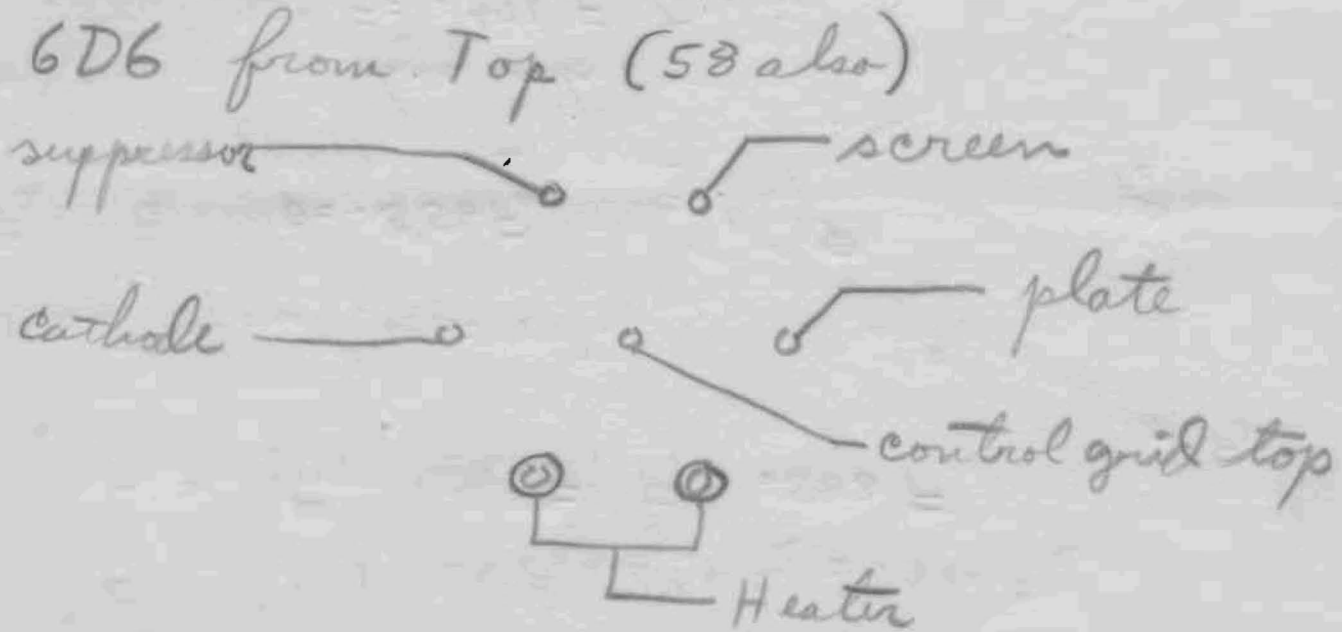
Load on lower members each

$$.556 \cdot 1.082 F = .602 F \text{ compression}$$



UNITED STATES RADIO & TELEVISION CORPORATION

MARION...INDIANA



Heater, cathode, suppressor tied together and used for ground. Input capacity is control grid to ground. Output Capacity is plate to ground.

Tube side shield on.

Tube #	Input capacity	Output Capacity
1	4.68	9.66
2	4.56	9.54
3	4.26	9.96
4	4.50	
5	4.38	9.90
6	4.50	9.96
7	4.38	9.48
8	4.32	9.66
average.	4.49	9.65