



Figure 24.

Figure 24.

# SCHEMATIC DIAGRAM OF THE MODULATOR UNIT.

**C<sub>1</sub>**—25- $\mu$ fd. 25-volt elect.  
**C<sub>2</sub>**—0.5- $\mu$ fd. 400-volt tubular  
**C<sub>3</sub>**—8- $\mu$ fd. 450-volt elect.  
**C<sub>4</sub>**—0.003- $\mu$ fd. mica  
**C<sub>5</sub>**—1.0- $\mu$ fd. 400-volt tubular  
**C<sub>6</sub>, C<sub>7</sub>**—0.01- $\mu$ fd. 400-volt  
           tubular  
**C<sub>8</sub>, C<sub>9</sub>**—0.01- $\mu$ fd. 400-volt  
           tubular  
**C<sub>10</sub>, C<sub>11</sub>**—0.02- $\mu$ fd. 1250-volt  
           mica

**R<sub>1</sub>**—47,000 ohms  $\frac{1}{2}$  watt  
**R<sub>2</sub>**—470,000 ohms  $\frac{1}{2}$  watt  
**R<sub>3</sub>**—1800 ohms  $\frac{1}{2}$  watt  
**R<sub>4</sub>**—1.0 megohm  $\frac{1}{2}$  watt  
**R<sub>5</sub>**—39,000 ohms 2 watts  
**R<sub>6</sub>**—220,000 ohms 2 watts  
**R<sub>7</sub>**—39,000 ohms 2 watts  
**R<sub>8</sub>**—22,000 ohms 2 watts  
**R<sub>9</sub>**—500,000-ohm potentiometer  
**R<sub>10</sub>**—3300 ohms 2 watts  
**R<sub>11</sub>**—39,000 ohms 2 watts

**R<sub>12</sub>, R<sub>13</sub>**—470,000 ohms  $\frac{1}{2}$  watt  
**R<sub>14</sub>**—1000 ohms 2 watts  
**R<sub>15</sub>, R<sub>16</sub>**—47,000 ohms 2 watts  
**R<sub>17</sub>, R<sub>18</sub>**—470,000 ohms  $\frac{1}{2}$  watt  
**R<sub>19</sub>, R<sub>20</sub>**—22,000 ohms 2 watts  
**R<sub>21</sub>, R<sub>22</sub>**—470 ohms 2 watts  
**R<sub>23</sub>**—5000 ohms 10 watts  
**R<sub>24</sub>**—10,000 ohms 10 watts  
**R<sub>25</sub>**—470,000 ohms  $\frac{1}{2}$  watt  
**R<sub>26</sub>**—47,000 ohms  $\frac{1}{2}$  watt  
**R<sub>27</sub>, R<sub>28</sub>**—39,000 ohms, 2 watts

**R<sub>29</sub>**—47,000 ohms 2 watts  
**R<sub>30</sub>**—3000 ohms 10 watts  
**R<sub>31</sub>**—39,000 ohms 2 watts  
**R<sub>32</sub>**—22,000 ohms, 2 watts  
**T<sub>1</sub>**—5 volts 3 amps  
**T<sub>2</sub>**—6.3 volts 6 amps  
**T<sub>3</sub>**—50-watt modulation trans-  
           former  
**CH**—0.5 henry 125-ma. choke  
**S<sub>1</sub>**—4-pole 3-position switch  
**S<sub>2</sub>**—S.p.s.t. switch