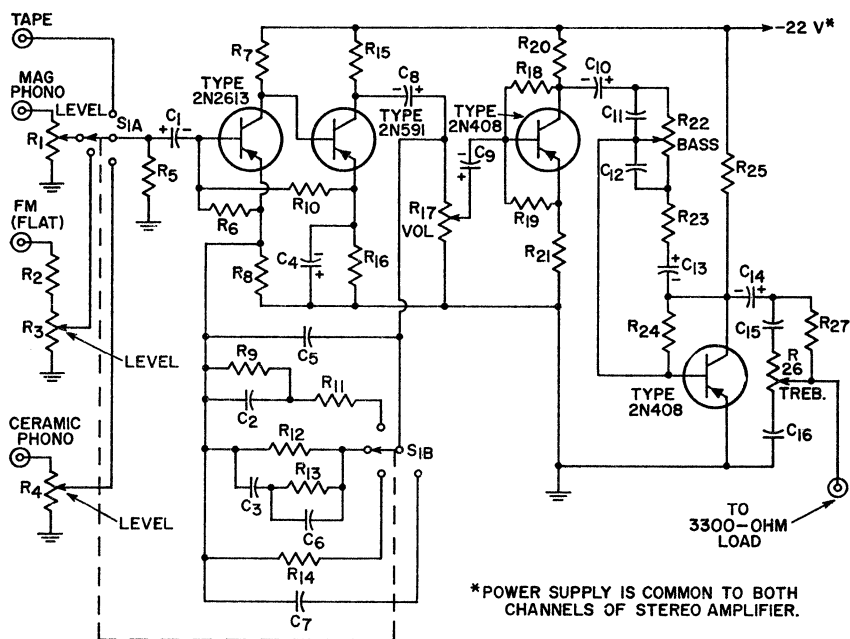


## 12-9

# HIGH-QUALITY PREAMPLIFIER FOR PHONO, FM, OR TAPE PICKUP (cont'd)



## Parts List

C<sub>1</sub> = 25  $\mu$ F, electrolytic, 3 V  
 C<sub>2</sub> = 0.06  $\mu$ F  $\pm$  5%, ceramic, 50 V  
 C<sub>3</sub> = 0.2  $\mu$ F  $\pm$  5%, ceramic, 25 V  
 C<sub>4</sub> = 50  $\mu$ F, electrolytic, 3 V  
 C<sub>5</sub> = 270 pF, ceramic, 600 V  
 C<sub>6</sub>, C<sub>16</sub> = 0.05  $\mu$ F  $\pm$  5%, ceramic, 50 V  
 C<sub>7</sub> = 0.25  $\mu$ F, ceramic, 50 V  
 C<sub>8</sub> = 25  $\mu$ F, electrolytic, 15 V  
 C<sub>9</sub> = 2  $\mu$ F, electrolytic, 3 V  
 C<sub>10</sub>, C<sub>14</sub> = 2  $\mu$ F, electrolytic, 10 V  
 C<sub>11</sub> = 0.15  $\mu$ F  $\pm$  5%, ceramic, 50 V  
 C<sub>12</sub> = 0.12  $\mu$ F  $\pm$  5%, ceramic, 50 V  
 C<sub>13</sub> = 10  $\mu$ F, electrolytic, 10 V  
 C<sub>15</sub> = 0.003  $\mu$ F  $\pm$  5%, ceramic, 500 V

R<sub>1</sub> = level control, potentiometer, 50000 ohms, 0.5 watt  
 R<sub>2</sub> = 51000 ohms, 0.5 watt  
 R<sub>3</sub> = level control, potentiometer, 1000 ohms, 0.5 watt  
 R<sub>4</sub> = level control, potentiometer, 5000 ohms, 0.5 watt  
 R<sub>5</sub> = 1 megohm, 0.5 watt  
 R<sub>6</sub> = 15000 ohms, 0.5 watt  
 R<sub>7</sub> = 47000 ohms, 0.5 watt  
 R<sub>8</sub> = 100 ohms, 0.5 watt  
 R<sub>9</sub> = 0.1 megohm  $\pm$  5%, 0.5 watt  
 R<sub>10</sub> = 0.18 megohm, 0.5 watt  
 R<sub>11</sub> = 820 ohms  $\pm$  5%, 0.5 watt  
 R<sub>12</sub> = 27000 ohms  $\pm$  5%, 0.5 watt  
 R<sub>13</sub> = 1500 ohms  $\pm$  5%, 0.5 watt

R<sub>14</sub> = 1000 ohms, 0.5 watt  
 R<sub>15</sub> = 1800 ohms, 0.5 watt  
 R<sub>16</sub> = 330 ohms, 0.5 watt  
 R<sub>17</sub> = volume control, potentiometer, 10000 ohms, 0.5 watt  
 R<sub>18</sub> = 56000 ohms, 0.5 watt  
 R<sub>19</sub> = 6800 ohms, 0.5 watt  
 R<sub>20</sub>, R<sub>23</sub> = 2700 ohms, 0.5 watt  
 R<sub>21</sub> = 180 ohms, 0.5 watt  
 R<sub>22</sub> = bass control, potentiometer, 50000 ohms, 0.5 watt  
 R<sub>24</sub> = 0.1 megohm, 0.5 watt  
 R<sub>25</sub> = 3300 ohms, 0.5 watt  
 R<sub>26</sub> = treble control, potentiometer, 0.1 megohm, 0.5 watt  
 R<sub>27</sub> = 27000 ohms, 0.5 watt  
 S<sub>1</sub> = selector switch; rotary type; 2-pole, 3-position