



*Quality Products. Service Excellence.*

## Tube Guitar Amplifier - Power Transformers 290 Series

### REPLACEMENT & UPGRADES

#### Features



- Designed for drop in replacement of original units.
- Physically, parts were designed to look similar to original factory units (where possible).
- Material used & design specs. were kept as close as possible to the original part to preserve the stock "tone".



#### Fender (Power Transformers)

| Hammond<br>P/N | Amp Model             | Similar Amp<br>P/N's*                       | Chassis No.*                                                              | Primary Volts                      | Secondary 1               | Secondary 2 | Secondary 3     | Secondary 4 | Secondary 5    |
|----------------|-----------------------|---------------------------------------------|---------------------------------------------------------------------------|------------------------------------|---------------------------|-------------|-----------------|-------------|----------------|
| 290EX          | BANDMASTER*           | 67233, 125P7D,<br>125P7DX,<br>022814        | Blond, 6G7-A, Blackface,<br>AA763, AB763,<br>Silverface, AC568,<br>AD1269 | 120V                               | 660Vct @ 275<br>mA        | 53V Bias    | 6.3Vct @<br>4A  |             |                |
| 290EEX         | BANDMASTER*           |                                             | Blond, 6G7-A, Blackface,<br>AA763, AB763,<br>Silverface, AC568,<br>AD1269 | 120/210/230/240 @<br>50/60 Hz      | 660Vct @ 275<br>mA        | 53V Bias    | 6.3Vct @<br>4A  |             |                |
| 290D2X         | BANDMASTER*           |                                             | Tweed                                                                     | 120V @ 60 Hz                       | 710Vct/610Vct<br>@ 300 mA | 50V Bias    | 6.3Vct @<br>5A  | 5V @ 3A     |                |
| 290D2EX        | BANDMASTER*           |                                             | Tweed                                                                     | 120/210/220/230/240V<br>@ 50/60 Hz | 710Vct/610Vct<br>@ 300 mA | 50V Bias    | 6.3Vct @<br>5A  | 5V @ 3A     |                |
| 290DHX         | BANDMASTER<br>DELUXE* | 76041000                                    |                                                                           | 120V @ 60 Hz                       | 315V @ 250<br>mA          |             | 26V @ 100<br>mA | 6V @ 1A     | 6.3Vct @<br>5A |
| 290D2X         | BANDMASTER<br>REVERB* | 8087, 125P5D,<br>125P5DX,<br>022798, 022806 | Blackface, Silverface,<br>AA1069, AA270, AA763,                           | 120V @ 60 Hz                       | 710Vct/610Vct<br>@ 300 mA | 50V Bias    | 6.3Vct @<br>5A  | 5V @ 3A     |                |
| 290D2EX        | BANDMASTER<br>REVERB* |                                             | Blackface, Silverface,<br>AA1069, AA270, AA763,                           | 120/210/220/230/240V<br>@ 50/60 Hz | 710Vct/610Vct<br>@ 300 mA | 50V Bias    | 6.3Vct @<br>5A  | 5V @ 3A     |                |
| 290D2X         | BASSMAN*              | 8087, 125P5D,<br>125P5DX,<br>022798, 022806 | Tweed, 5F6, 5F6A, 10                                                      | 120V @ 60 Hz                       | 710/610Vct @<br>300 mA    | 50V Bias    | 6.3Vct @<br>5A  | 5V @ 3A     |                |
| 290D2EX        | BASSMAN*              |                                             | Tweed, 5F6, 5F6A, 10                                                      | 120/210/220/240V @<br>50/60 Hz     | 710/610Vct @<br>300 mA    | 50V Bias    | 6.3Vct @<br>5A  | 5V @ 3A     |                |

| Hammond<br>P/N | Amp Model                          | Similar Amp<br>P/N's*                |  | Chassis No.*                                             | Primary Volts                  | Secondary 1            | Secondary 2 | Secondary 3       | Secondary 4    | Secondary 5 |
|----------------|------------------------------------|--------------------------------------|--|----------------------------------------------------------|--------------------------------|------------------------|-------------|-------------------|----------------|-------------|
| 290EX          | BASSMAN*                           | 67233, 125P7D,<br>125P7DX,<br>022814 |  | Blackface, AA864,<br>AA165, AB165,<br>Silverface, AA270  | 120V @ 60 Hz                   | 660Vct @ 275<br>mA     | 53V Bias    | 6.3Vct @<br>4A    |                |             |
| 290EEX         | BASSMAN*                           |                                      |  | Blackface, AA864,<br>AA165, AB165,<br>Silverface, AA270  | 120/210/230/240V @<br>50/60 Hz | 660Vct @ 275<br>mA     | 53V Bias    | 6.3Vct @<br>4A    |                |             |
| 290DX          | BASSMAN*<br>(Lower Plate<br>Volts) | 8087                                 |  | Tweed, 5F6, 5F6A                                         | 120V @ 60 Hz                   | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A        |             |
| 290DEX         | BASSMAN*<br>(Lower Plate<br>Volts) |                                      |  | Tweed, 5F6, 5F6A                                         | 240V @ 50/60 Hz                | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A        |             |
| 290DX          | BASSMAN*<br>(Lower Plate<br>Volts) | 8087                                 |  | Combos                                                   | 120V @ 60 Hz                   | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A        |             |
| 290DEX         | BASSMAN*<br>(Lower Plate<br>Volts) |                                      |  | Combos                                                   | 240V @ 50/60 Hz                | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A        |             |
| 290FX          | BASSMAN 100*                       | 125P34A,<br>022756                   |  | Silverface                                               | 120V @ 60 Hz                   | 640Vct @ 518<br>mA     | 60V Bias    | 6.5V @<br>5.5A    |                |             |
| 290FEX         | BASSMAN 100*                       |                                      |  | Silverface                                               | 240V @ 50/60 Hz                | 640Vct @ 518<br>mA     | 60V Bias    | 6.5V @<br>5.5A    |                |             |
| 291ZZ          | BASSMAN 135*                       | 13692                                |  | Silverface                                               | 120V @ 60 Hz                   | 364Vct @ 1A            | 53V Bias    | 6.3Vct @<br>7A    | 6.3Vct @<br>7A |             |
| 291ZEZ         | BASSMAN 135                        |                                      |  | SAME                                                     | 120/240V @ 50/60 Hz            | 364Vct @ 1A            | 53V Bias    | 6.3Vct @<br>7A    | 6.3Vct @<br>7A |             |
| 290TX          | BASSMAN 59*<br>(REISSUE)           | 36483                                |  | 217-1000-010                                             | 120V @ 60 Hz                   | 696Vct @ 500<br>mA     | 52V Bias    | 6.5V @ 2A         | 5V @ 2A        |             |
| 290YX          | BASSMAN 70*                        | 13895                                |  | Silverface                                               | 120V @ 60 Hz                   | 372Vct @ 400<br>mA     | 56V Bias    | 6.3Vct @<br>4A    |                |             |
| 290YEX         | BASSMAN 70*                        |                                      |  | Silverface                                               | 240V @ 50/60 Hz                | 372Vct @ 400<br>mA     | 56V Bias    | 6.3Vct @<br>4A    |                |             |
| 290UX          | BLUES<br>DELUXE*                   | 36958                                |  |                                                          | 117V @ 60 Hz                   | 308.5V @ 250<br>mA     | 39V Bias    | 6.6V @<br>3.75A   |                |             |
| 290UEX         | BLUES<br>DELUXE*                   |                                      |  |                                                          | 240V @ 50/60 Hz                | 308.5V @ 250<br>mA     | 39V Bias    | 6.6V @<br>3.75A   |                |             |
| 290UX          | BLUES<br>DELUXE*<br>(REISSUE)      | 36958                                |  |                                                          | 117V @ 60 Hz                   | 308.5V @ 250<br>mA     | 39V Bias    | 6.6V @<br>3.75A   |                |             |
| 290UEX         | BLUES<br>DELUXE*<br>(REISSUE)      |                                      |  |                                                          | 240V @ 50/60 Hz                | 308.5V @ 250<br>mA     | 39V Bias    | 6.6V @<br>3.75A   |                |             |
| 290XX          | BLUES JR.*                         | 49967                                |  |                                                          | 117V @ 60 Hz                   | 260V @ 170<br>mA       |             | 20V @ 100<br>mA   | 6.3V @ 3A      |             |
| 290XEX         | BLUES JR.*                         |                                      |  |                                                          | 240V @ 50/60 Hz                | 260V @ 170<br>mA       |             | 20V @ 100<br>mA   | 6.3V @ 3A      |             |
| 290AX          | BRONCO*                            | 125P1B,<br>022772, 66079B            |  | AA764, AB764,<br>Blackface, Silverface                   | 120V, 60 Hz                    | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A         |             |
| 290AEX         | BRONCO*                            |                                      |  | AA764, AB764,<br>Blackface, Silverface                   | 120/220/230/240V<br>50/60 Hz   | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A         |             |
| 290AX          | CHAMP*                             | 125P1B,<br>022772, 66079B            |  | 5C1, 5E1, 5F1, Tweed,<br>Blackface, Silverface,<br>AA764 | 120V, 60 Hz                    | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A         |             |
| 291AEX         | CHAMP*                             |                                      |  | 5C1, 5E1, 5F1, Tweed,<br>Blackface, Silverface,<br>AA764 | 120/220/230/240V<br>50/60 Hz   | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A         |             |
| 290BAX         | CHORUS*                            | 31668                                |  |                                                          | 120V @ 60 Hz                   | 60Vct @<br>2.85A       |             |                   |                |             |

| Hammond<br>P/N | Amp Model                         | Similar Amp<br>P/N's*                     |  | Chassis No.*                                                                    | Primary Volts                    | Secondary 1        | Secondary 2 | Secondary 3       | Secondary 4     | Secondary 5 |
|----------------|-----------------------------------|-------------------------------------------|--|---------------------------------------------------------------------------------|----------------------------------|--------------------|-------------|-------------------|-----------------|-------------|
| 290EX          | CONCERT*                          | 67233, 125P7D,<br>125P7DX,<br>022814      |  | Brownface, 6G12A,<br>Blackface, AA763                                           | 120V @ 60 Hz                     | 660Vct @ 275<br>mA | 53V Bias    | 6.4Vct @<br>4A    |                 |             |
| 290EEX         | CONCERT*                          |                                           |  | Brownface, 6G12A,<br>Blackface, AA763                                           | 120/210/230/240 @<br>50/60 Hz    | 660Vct @ 275<br>mA | 53V Bias    | 6.4Vct @<br>4A    |                 |             |
| 290BX          | DELUEX*                           | 125P2A,<br>125P23B,<br>022749, 025130     |  | 5A3, 5B3, 5C3, 5D3, 6G3,<br>AB763                                               | 120V @ 60 Hz                     | 660Vct @ 138<br>mA | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             |
| 290BEX         | DELUEX*                           |                                           |  | 5A3, 5B3, 5C3, 5D3, 6G3,<br>AB763                                               | 240V @ 50/60 Hz                  | 660Vct @ 138<br>mA | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             |
| 290BBX         | DELUEX*                           | 6452                                      |  | Tweed                                                                           | 120V @ 50/60 Hz                  | 710Vct @ 115<br>mA | -           | 6.3Vct @<br>1.65A | 5V @ 2A         |             |
| 290BBEX        | DELUEX*                           |                                           |  | Tweed                                                                           | 120/220/230/240 @<br>50/60 Hz    | 710Vct @ 115<br>mA | -           | 6.3Vct @<br>1.65A | 5V @ 2A         |             |
| 290CX          | DELUXE 65<br>REVERB*<br>(REISSUE) | 041316, 022723,<br>125P26A                |  | 021-7400-000                                                                    | 120V @ 60 Hz                     | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | DELUXE 65<br>REVERB*<br>(REISSUE) |                                           |  | 021-7400-000                                                                    | 240V @ 50/60 Hz                  | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CX          | DELUXE 68<br>CUSTOM<br>REVERB*    | 041316, 022723,<br>125P26A                |  |                                                                                 | 120V @ 60 Hz                     | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | DELUXE 68<br>CUSTOM<br>REVERB*    |                                           |  |                                                                                 | 240V @ 50/60 Hz                  | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290BX          | DELUXE<br>REVERB*                 | 125P33A,<br>022749,<br>125P23B,<br>025130 |  | Blackface, Silverface,<br>AA763, AB763, AB868,<br>A1172, A1270, Volume<br>Boost | 120V @ 60 Hz                     | 660Vct @ 138<br>mA | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             |
| 290BEX         | DELUXE<br>REVERB*                 |                                           |  | Blackface, Silverface,<br>AA763, AB763, AB868,<br>A1172, A1270, Volume<br>Boost | 240V @ 50/60 Hz                  | 660Vct @ 138<br>mA | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             |
| 290CX          | FENDER 30*                        | 041316, 022723,<br>125P26A                |  |                                                                                 | 120V @ 60 Hz                     | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | FENDER 30*                        |                                           |  |                                                                                 | 240V @ 50/60 Hz                  | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290HAX         | HARVARD*                          | 5F10                                      |  | Tweed Push Pull                                                                 | 120V @ 60 Hz                     | 550Vct @ 100<br>mA | 50V Bias    | 6.3Vct @<br>2.5A  | 5V @ 3A         |             |
| 290HAEX        | HARVARD*                          |                                           |  | Tweed Push Pull                                                                 | 120V/210/230V/240V<br>@ 50/60 Hz | 550Vct @ 100<br>mA | 50V Bias    | 6.3Vct @<br>2.5A  | 5V @ 3A         |             |
| 290UX          | HOT ROD<br>DELUXE*                | 36958                                     |  | 021-3202-000                                                                    | 117V @ 60 Hz                     | 308.5V @ 250<br>mA |             | 39V @ 250<br>mA   | 6.6V @<br>3.75A |             |
| 290UEX         | HOT ROD<br>DELUXE*                |                                           |  | 021-3202-000                                                                    | 240V @ 50/60 Hz                  | 308.5V @ 250<br>mA |             | 39V @ 250<br>mA   | 6.6V @<br>3.75A |             |
| 290VX          | HOT ROD<br>DEVILLE*               | 41752                                     |  |                                                                                 | 117V @ 60 Hz                     | 342V @ 500<br>mA   |             | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             |
| 290VEX         | HOT ROD<br>DEVILLE*               |                                           |  |                                                                                 | 240V @ 50/60 Hz                  | 342V @ 500<br>mA   |             | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             |
| 290CX          | MODEL 30*                         | 041316, 022723,<br>125P26A                |  |                                                                                 | 120V @ 60 Hz                     | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | MODEL 30*                         |                                           |  |                                                                                 | 240V @ 50/60 Hz                  | 650Vct @ 180<br>mA | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290AAX         | MUSICMASTER<br>BASE*              | 026821                                    |  |                                                                                 | 120V, 60 Hz                      | 490Vct @ 90<br>mA  |             | 6.3V @<br>1.25A   |                 |             |
| 290BAX         | POWER<br>CHORUS*                  | 31668                                     |  |                                                                                 | 120V @ 60 Hz                     | 60Vct @<br>2.85A   |             |                   |                 |             |

| Hammond<br>P/N | Amp Model                       | Similar Amp<br>P/N's*                       |  | Chassis No.*                                   | Primary Volts                      | Secondary 1               | 2                 | 3                 | 4              | 5 |
|----------------|---------------------------------|---------------------------------------------|--|------------------------------------------------|------------------------------------|---------------------------|-------------------|-------------------|----------------|---|
| 290AX          | PRINCETON*                      | 125P1B,<br>022772, 66079B                   |  | Tweed, Brown, Blackface,<br>Silverface, AA964  | 120V, 60 Hz                        | 650/550Vct @<br>100 mA    |                   | 6.3Vct @<br>2.25A | 5V @3A         |   |
| 290AEX         | PRINCETON*                      |                                             |  | Tweed, Brown, Blackface,<br>Silverface, AA964  | 120/220/230/240V<br>50/60 Hz       | 650/550Vct @<br>100 mA    |                   | 6.3Vct @<br>2.25A | 5V @3A         |   |
| 290AX          | PRINCETON<br>REVERB*            | 125P1B,<br>022772, 66079B                   |  | AA1164, AA764, B1270,<br>Blackface, Silverface | 120V, 60 Hz                        | 650/550Vct @<br>100 mA    |                   | 6.3Vct @<br>2.25A | 5V @3A         |   |
| 290AEX         | PRINCETON<br>REVERB*            |                                             |  | AA1164, AA764, B1270,<br>Blackface, Silverface | 120/220/230/240V<br>50/60 Hz       | 650/550Vct @<br>100 mA    |                   | 6.3Vct @<br>2.25A | 5V @3A         |   |
| 290D2X         | PRO*                            | 8087, 125P5D,<br>125P5DX,<br>022798, 022806 |  | Tweed, Blackface, AB763                        | 120V @ 60 Hz                       | 710/610Vct @<br>300 mA    | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A        |   |
| 290D2EX        | PRO*                            |                                             |  | Tweed, Blackface, AB763                        | 120/210/220/240V @<br>50/60 Hz     | 710/610Vct @<br>300 mA    | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A        |   |
| 290D2X         | PRO REVERB*                     | 8087, 125P5D,<br>125P5DX,<br>022798, 022806 |  | Silverface, AB668,<br>AA1069, AA270            | 120V @ 60 Hz                       | 710/610Vct @<br>300 mA    | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A        |   |
| 290D2EX        | PRO REVERB*                     |                                             |  | Silverface, AB668,<br>AA1069, AA270            | 120/210/220/240V @<br>50/60 Hz     | 710/610Vct @<br>300 mA    | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A        |   |
| 290XXA         | PRO JR.*                        | 41782                                       |  |                                                | 117V @ 60 Hz                       | 260V @ 170<br>mA          |                   | 6.3V @ 3A         |                |   |
| 290XXB         | PRO JR.*                        |                                             |  |                                                | 117V @ 60 Hz                       | 260V @ 170<br>mA          |                   | 6.3Vct @<br>3A    |                |   |
| 290FX          | QUAD WITH<br>REVERB*            | 125P34A,<br>022756                          |  |                                                | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FEX         | QUAD WITH<br>REVERB*            |                                             |  |                                                | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FX          | SHOWMAN*                        | 125P34A,<br>022756                          |  | Silverface, Blackface,<br>AB763, AC568, AA763  | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FEX         | SHOWMAN*                        |                                             |  | Silverface, Blackface,<br>AB763, AC568, AA763  | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FX          | SHOWMAN<br>REVERB*              | 125P34A,<br>022756                          |  | AA768                                          | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FEX         | SHOWMAN<br>REVERB*              |                                             |  | AA768                                          | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FX          | SHOWMAN<br>DUAL*                | 125P34A,<br>022756                          |  | AB763, AC568                                   | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FEX         | SHOWMAN<br>DUAL*                |                                             |  | AB763, AC568                                   | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FX          | SHOWMAN<br>DUAL REVERB*         | 125P34A,<br>022756                          |  | 100, AA769                                     | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290FEX         | SHOWMAN<br>DUAL REVERB*         |                                             |  | 100, AA769                                     | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                |   |
| 290S2Z         | SUNN 2000*                      | 3-12 PT                                     |  |                                                | 117V @ 60 Hz                       | 780Vct @ 400<br>mA        | 55V Bias          | 6.3Vct @<br>8A    | 5V @ 4A        |   |
| 290DX          | SUPER*                          | 8087                                        |  | Brownface, 5F4, 6G4,<br>6G4-A                  | 120V @ 60 Hz                       | 650Vct @ 230<br>mA        | 50V Bias          | 6.3Vct @<br>4A    | 5V @ 3A        |   |
| 290DEX         | SUPER*                          |                                             |  | Brownface, 5F4, 6G4,<br>6G4-A                  | 240V @ 50/60 Hz                    | 650Vct @ 230<br>mA        | 50V Bias          | 6.3Vct @<br>4A    | 5V @ 3A        |   |
| 290D2X         | SUPER*                          | 8087, 125P5D,<br>125P5DX,<br>022798, 022806 |  | Tweed                                          | 120V @ 60 Hz                       | 710Vct/610Vct<br>@ 300 mA | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A        |   |
| 290D2EX        | SUPER*                          |                                             |  | Tweed                                          | 120/210/220/230/240V<br>@ 50/60 Hz | 710Vct/610Vct<br>@ 300 mA | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A        |   |
| 290DX          | SUPER* (lower<br>plate voltage) | 8087                                        |  | Tweed, 5F4, Brownface,<br>6G4, 6G4-A           | 120V @ 60 Hz                       | 650Vct @ 230<br>mA        | 50V Bias          | 6.3Vct @<br>4A    | 5V @ 3A        |   |
| 290DEX         | SUPER* (lower<br>plate voltage) |                                             |  | Tweed, 5F4, Brownface,<br>6G4, 6G4-A           | 240V @ 50/60 Hz                    | 650Vct @ 230<br>mA        | 50V Bias          | 6.3Vct @<br>4A    | 5V @ 3A        |   |
| 290ACX         | SUPER CHAMP<br>X2*              | 91234000                                    |  |                                                | 120V @ 60 Hz                       | 300V @ 100<br>mA          | 34Vct @<br>100 mA | 9V @ 1.5A         | 6.6V @<br>1.5A |   |

| Hammond<br>P/N | Amp Model                | Similar Amp<br>P/N's*                       |  | Chassis No.*                                                       | Primary Volts                      | Secondary 1               | Secondary 2       | Secondary 3       | Secondary 4     | Secondary 5 |
|----------------|--------------------------|---------------------------------------------|--|--------------------------------------------------------------------|------------------------------------|---------------------------|-------------------|-------------------|-----------------|-------------|
| 291ACX         | SUPER CHAMP<br>X2*       |                                             |  |                                                                    | 120/240V @ 50/60 Hz                | 300V @ 100<br>mA          | 34Vct @<br>100 mA | 9V @ 1.5A         | 6.6V @<br>1.5A  |             |
| 290D2X         | SUPER<br>REVERB*         | 8087, 125P5D,<br>125P5DX,<br>022798, 022806 |  | Brownface, Blackface,<br>AA763, AB763,<br>Silverface, AB568, AA270 | 120V @ 60 Hz                       | 710Vct/610Vct<br>@ 300 mA | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A         |             |
| 290D2EX        | SUPER<br>REVERB*         |                                             |  | Brownface, Blackface,<br>AA763, AB763,<br>Silverface, AB568, AA270 | 120/210/220/230/240V<br>@ 50/60 Hz | 710Vct/610Vct<br>@ 300 mA | 50V Bias          | 6.3Vct @<br>5A    | 5V @ 3A         |             |
| 290FX          | SUPER SIX<br>REVERB 100* | 125P34A,<br>022756                          |  |                                                                    | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                 |             |
| 290FEX         | SUPER SIX<br>REVERB 100* |                                             |  |                                                                    | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                 |             |
| 291ZZ          | SUPER SIX<br>REVERB 135* | 13692                                       |  |                                                                    | 120V @ 60 Hz                       | 364Vct @ 1A               | 53V @ 1A          | 6.3Vct @<br>7A    |                 |             |
| 291ZEZ         | SUPER SIX<br>REVERB 135* |                                             |  |                                                                    | 120/240V @ 50/60 Hz                | 364Vct @ 1A               | 53V @ 1A          | 6.3Vct @<br>7A    |                 |             |
| 290VX          | SUPER SONIC<br>60 COMBO* | 41752                                       |  | 021-3201-000                                                       | 117V @ 60 Hz                       | 342V @ 500<br>mA          |                   | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             |
| 290VEX         | SUPER SONIC<br>60 COMBO* |                                             |  | 021-3201-000                                                       | 240V @ 50/60 Hz                    | 342V @ 500<br>mA          |                   | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             |
| 290SX          | TONEMASTER*              | 26554                                       |  |                                                                    | 120/230/240V @<br>50/60 Hz         | 337Vct @<br>1.1A          |                   | 54V @ 250<br>mA   | 6.4V @ 3A       |             |
| 290CX          | TREMOLUX*                | 041316, 022723,<br>125P26A                  |  | AA763, AB763                                                       | 120V @ 60 Hz                       | 650Vct @ 180<br>mA        | 50V Bias          | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | TREMOLUX*                |                                             |  | AA763, AB763                                                       | 240V @ 50/60 Hz                    | 650Vct @ 180<br>mA        | 50V Bias          | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290BX          | TREMOLUX*<br>TWEED       | 041316, 022723,<br>125P26A                  |  | 5E9, 5E9-A, 5G9                                                    | 120V @ 60 Hz                       | 660Vct @ 138<br>mA        | 50V Bias          | 6.3V @ 3A         | 5V @ 3A         |             |
| 290BEX         | TREMOLUX*<br>TWEED       |                                             |  | 5E9, 5E9-A, 5G9                                                    | 240V @ 50/60 Hz                    | 660Vct @ 138<br>mA        | 50V Bias          | 6.3V @ 3A         | 5V @ 3A         |             |
| 290RX          | TWIN RED<br>KNOB*        | 26477                                       |  |                                                                    | 120V @ 60 Hz                       | 337Vct @<br>1.1A          |                   | 54V @ 250<br>mA   | 6.4V @ 3A       |             |
| 290REX         | TWIN RED<br>KNOB*        |                                             |  |                                                                    | 100/120/220/240V @<br>50/60 Hz     | 337Vct @<br>1.1A          |                   | 54V @ 250<br>mA   | 6.4V @ 3A       |             |
| 290FX          | TWIN REVERB*             | 125P34A,<br>022756                          |  | AA769, AA270,<br>Silverface, AB763,<br>Blackface, 100              | 120V @ 60 Hz                       | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                 |             |
| 290FEX         | TWIN REVERB*             |                                             |  | AA769, AA270,<br>Silverface, AB763,<br>Blackface, 100              | 240V @ 50/60 Hz                    | 640Vct @ 518<br>mA        | 60V Bias          | 6.5V @<br>5.5A    |                 |             |
| 290BAX         | ULTIMATE<br>CHORUS*      | 31668                                       |  |                                                                    | 120V @ 60 Hz                       | 60Vct @<br>2.85A          |                   |                   |                 |             |
| 290BAX         | ULTIMATE<br>CHORUS*      | 31668                                       |  |                                                                    | 120V @ 60 Hz                       | 60Vct @<br>2.85A          |                   |                   |                 |             |
| 290BAX         | ULTRA<br>CHORUS*         | 31668                                       |  |                                                                    | 120V @ 60 Hz                       | 60Vct @<br>2.85A          |                   |                   |                 |             |
| 290AX          | VIBRO CHAMP*             | 125P1B,<br>022772, 66079B                   |  | AA764, Blackface,<br>Silverface                                    | 120V, 60 Hz                        | 650/550Vct @<br>100 mA    |                   | 6.3Vct @<br>2.25A | 5V @3A          |             |
| 290AEX         | VIBRO CHAMP*             |                                             |  | AA764, Blackface,<br>Silverface                                    | 120/220/230/240V<br>50/60 Hz       | 650/550Vct @<br>100 mA    |                   | 6.3Vct @<br>2.25A | 5V @3A          |             |
| 290ABX         | VIBRO CHAMP<br>XD*       | 74596000F                                   |  |                                                                    | 120/240V, 50/60 Hz                 | 293.5V @ 100<br>mA        | 34Vct @<br>95 mA  | 9V @<br>1.25A     | 6.3V @ 5A       |             |
| 290SX          | VIBRO KING*              | 26554                                       |  |                                                                    | 120/230/240V @<br>50/60 Hz         | 337Vct @<br>1.1A          |                   | 54V @ 250<br>mA   | 6.4V @ 3A       |             |
| 290ABX         | VIBRO CHAMP<br>XD*       | 74596000F                                   |  |                                                                    | 120/240V, 50/60 Hz                 | 293.5V @ 100<br>mA        | 34Vct @<br>95 mA  | 9V @<br>1.25A     | 6.3V @ 5A       |             |
| 290SX          | VIBRO KING*              | 26554                                       |  |                                                                    | 120/230/240V @<br>50/60 Hz         | 337Vct @<br>1.1A          |                   | 54V @ 250<br>mA   | 6.4V @ 3A       |             |

| Hammond<br>P/N | Amp Model                     | Similar Amp<br>P/N's* Chassis No.* |                     | Primary Volts       | Secondary 1            | Secondary 2 | Secondary 3       | Secondary 4     | Secondary 5 |
|----------------|-------------------------------|------------------------------------|---------------------|---------------------|------------------------|-------------|-------------------|-----------------|-------------|
| 290CX          | VIBROLUX*                     | 041316, 022723,<br>125P26A         | AB763               | 120V @ 60 Hz        | 650Vct @ 180<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | VIBROLUX*                     |                                    | AB763               | 240V @ 50/60 Hz     | 650Vct @ 180<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CX          | VIBROLUX<br>REVERB*           | 041316, 022723,<br>125P26A         | AA964, AB568, AA270 | 120V @ 60 Hz        | 650Vct @ 180<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290CEX         | VIBROLUX<br>REVERB*           |                                    | AA964, AB568, AA270 | 240V @ 50/60 Hz     | 650Vct @ 180<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             |
| 290FX          | VIBROSONIC*                   | 125P34A,<br>022756                 |                     | 120V @ 60 Hz        | 640Vct @ 518<br>mA     | 60V Bias    | 6.5V @<br>5.5A    |                 |             |
| 290FEX         | VIBROSONIC*                   |                                    |                     | 240V @ 50/60 Hz     | 640Vct @ 518<br>mA     | 60V Bias    | 6.5V @<br>5.5A    |                 |             |
| 290EZ          | 57 TWIN<br>REISSUE*           | 64419000                           |                     | 120V @ 60 Hz        | 640Vct @ 250<br>mA     | 50V Bias    | 6.3V @ 4A         | 5V @ 4A         |             |
| 290EEZ         | 57 TWIN<br>REISSUE*           |                                    |                     | 240V @ 50/60 Hz     | 660Vct @ 250<br>mA     | 50V Bias    | 6.3V @ 4A         | 5V @ 4A         |             |
| 290DX          | 59 BASSMAN*                   | 8087                               |                     | 120V @ 60 Hz        | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A         |             |
| 290DEX         | 59 BASSMAN*                   |                                    |                     | 240V @ 50/60 Hz     | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A         |             |
| 290WX          | 63 REVERB*                    | 68319A                             | 6G15                | 120V @ 60 Hz        | 237V @ 50<br>mA        |             | 6.6V @<br>1.05A   |                 |             |
| 290WEX         | 63 REVERB*                    |                                    | 6G15                | 240V @ 50/60 Hz     | 237V @ 50<br>mA        |             | 6.6V @<br>1.05A   |                 |             |
| 290UX          | 63 VIBROVERB<br>REISSUE*      |                                    |                     | 117V @ 60 Hz        | 308.5V @ 250<br>mA     |             | 39V @ 250<br>mA   | 6.6V @<br>3.75A |             |
| 290UEX         | 63 VIBROVERB<br>REISSUE*      |                                    |                     | 240V @ 50/60 Hz     | 308.5V @ 250<br>mA     |             | 39V @ 250<br>mA   | 6.6V @<br>3.75A |             |
| 290EBZ         | 65 TWIN<br>REVERB<br>REISSUE* |                                    |                     | 120V @ 60 Hz        | 340V @ 500<br>mA       |             | 50V @ 100<br>mA   | 6.3V @ 6A       |             |
| 290VX          | 93 SUPER<br>CONCERT*          |                                    |                     | 117V @ 60 Hz        | 342V @ 500<br>mA       |             | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             |
| 290VEX         | 93 SUPER<br>CONCERT*          |                                    |                     | 240V @ 50/60 Hz     | 342V @ 500<br>mA       |             | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             |
| 290EAX         | 94 TWIN<br>REISSUE*           | 41776                              |                     | 120V @ 60 Hz        | 365Vct @ 850<br>mA     |             | 27.5V @<br>100 mA | 6.3V @ 7A       |             |
| 291AX          | GENERIC                       |                                    |                     | 120V @ 60 Hz        | 650Vct @ 81<br>mA      |             | 6.3V @ 2A         | 5V @ 2A         |             |
| 291BX          | GENERIC                       |                                    |                     | 120V @ 60 Hz        | 660Vct @ 138<br>mA     | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             |
| 291BEX         | GENERIC                       |                                    |                     | 240V @ 50/60 Hz     | 660Vct @ 138<br>mA     | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             |
| 291CX          | GENERIC                       |                                    |                     | 120V @ 60 Hz        | 650Vct @ 207<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A         |             |
| 291CEX         | GENERIC                       |                                    |                     | 240V @ 50/60 Hz     | 650Vct @ 207<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A         |             |
| 291DX          | GENERIC                       |                                    |                     | 120V @ 60 Hz        | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A         |             |
| 291DEX         | GENERIC                       |                                    |                     | 240V @ 50/60 Hz     | 650Vct @ 230<br>mA     | 50V Bias    | 6.3Vct @<br>4A    | 5V @ 3A         |             |
| 291EEX         | GENERIC                       |                                    |                     | 240V @ 50/60 Hz     | 660Vct @ 276<br>mA     | 53V Bias    | 6.5V @<br>3.15A   |                 |             |
| 291FX          | GENERIC                       |                                    |                     | 120V @ 60 Hz        | 640Vct @ 518<br>mA     | 60V Bias    | 6.5V @<br>5.5A    | 6.5V @<br>5.5A  |             |
| 290CAX         | GENERIC                       |                                    |                     | 120/240V @ 50/60 Hz | 630/550Vct @<br>115 mA |             | 6.3V @ 2A         | 5V @ 2A         |             |
| 290CBZ         | GENERIC                       |                                    |                     | 120V @ 60 Hz        | 650Vct @ 120<br>mA     |             | 6.3V @ 2A         | 5V @ 3A         |             |

| Hammond P/N | Similar Amp Amp Model | P/N's* | Chassis No.* | Primary Volts       | Secondary 1         | Secondary 2 | Secondary 3 | Secondary 4 | Secondary 5 |
|-------------|-----------------------|--------|--------------|---------------------|---------------------|-------------|-------------|-------------|-------------|
| 290DAX      | GENERIC               |        |              | 120/240V @ 50/60 Hz | 710/610Vct @ 230 mA |             | 6.3Vct @ 5A |             | 5V @ 3A     |

## Marshall (Power Transformers)

| Part No. | Primary                           | Marshall Model Names     | Equivalent To Marshall Part No. | Bobbin/Paper Wound |
|----------|-----------------------------------|--------------------------|---------------------------------|--------------------|
| 290MAZ   | 117/234VAC 50/60 Hz.              | Studio 15 "Little Fatty" | 294-285/6                       | BOBBIN             |
| 290PAZ   | 120/240 VAC 50/60 Hz.             | 18 Watt Combo            | -                               | BOBBIN             |
| 290GX    | 120/220/240 VAC 50/60 Hz.         | JCM 800, JMP - 50 watt   | -                               | BOBBIN             |
| 290HX    | 120/220/240 VAC 50/60 Hz.         | JCM 800 & JMP - 100 watt | -                               | PAPER              |
| 290KX    | 120/240 VAC 50/60 Hz.             | JCM 900 - 50 watt        | -                               | BOBBIN             |
| 290JX    | 120/240 VAC 50/60 Hz.             | JCM 900 - 100 watt       | -                               | BOBBIN             |
| 290LEX   | 100/120/220/230/240 VAC 50/60 Hz. | JMT 45                   | -                               | BOBBIN             |
| 290LX    | 120/240 VAC 50/60 Hz.             | General                  | -                               | BOBBIN             |
| 290QX    | 120/240 VAC 50/60 Hz.             | JTM30                    | -                               | BOBBIN             |

## VOX (Power Transformers)

| Part No. | Primary                           | VOX Model Names            | Equivalent To VOX Part No. | Bobbin/Paper Wound |
|----------|-----------------------------------|----------------------------|----------------------------|--------------------|
| 290PX    | 120/240 VAC 50/60 Hz.             | AC15                       | -                          | BOBBIN             |
| 290CZ    | 120 VAC 60 Hz.                    | AC15C1                     | -                          | BOBBIN             |
| 290CEZ   | 120/240 VAC 50/60 Hz.             | AC15C1                     | -                          | BOBBIN             |
| 290NX    | 100/120/220/230/240 VAC 50/60 Hz. | AC30 60's Vintage Vertical | -                          | PAPER              |
| 290MX    | 120/240 VAC 50/60 Hz.             | AC30 60's Vintage Flat     | -                          | BOBBIN             |
| 290MAX   | 120/240 VAC 50/60 HZ.             | TB35C2 TONY BRUNO          | -                          | BOBBIN             |

## Yorkville/ Traynor (Power Transformers)

| Part No. | Old Part No. | Traynor Amp           | Yorkville / Traynor Part No. | Primary           | Secondary 1     | Secondary 2 | Secondary 3    | Secondary 4 |
|----------|--------------|-----------------------|------------------------------|-------------------|-----------------|-------------|----------------|-------------|
| 291TC    | 99145        | Mono Block 2 Bass Amp | A-1305                       | 115VAC / 60Hz.    | 76.5Vct @ 4.3A  |             |                |             |
| 290TRA   | 98965        | 100 Watt Bass         | A-1380                       | 120VAC 60 Hz.     | 320V @ 600 mA   | 60V @ 50 mA | 6.3Vct @ 9A    |             |
| 290TRB   | 79465        | YBA2-B                | A-1314                       | 120VAC 60 Hz.     | 620Vct @ 115 mA | 6.3Vct @ 3A |                |             |
| 291YX    | 79691        | YBA-3                 | A-1315                       | 120V 60 Hz        | 800Vct @ 530 mA | 6.3Vct @ 6A |                |             |
| 291JX    | 81384        | BaseMaster YBA-1      | A-1310                       | 120V 60 Hz        | 320V @ 500 mA   | 60V @ 20 mA | 6.65Vct @ 2.5A | -           |
| 291JEX   | ---          | BaseMaster YBA-1      | A-1310                       | 120/240V 50/60 Hz | 320V @ 500 mA   | 60V @ 20 mA | 6.65Vct @ 2.5A | -           |

<sup>1</sup> Special order only. Please contact Hammond's sales team for more information.

## AMPEG (Power Transformers)

| Part No. | Primary        | AMPEG Model Names | Equivalent To AMPEG Part No. | Bobbin/Paper Wound |
|----------|----------------|-------------------|------------------------------|--------------------|
| 290CAZ   | 117 VAC 60 Hz. | GEMINI VI 25W     | PT 113                       | BOBBIN             |
| 290ETX   | 120 VAC 60 Hz. | SUPER ECHO TWIN   | PT-109                       | BOBBIN             |

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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