



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

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

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

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

| Hammond<br>P/N | Amp Model                | Similar Amp                                 |  | Primary Volts                      | Secondary                 |                   |                   |                 |   |
|----------------|--------------------------|---|--|------------------------------------|---------------------------|-------------------|-------------------|-----------------|---|
|                |                          | P/N's*                                      | Chassis No.*   |                                    | Secondary 1               | 2                 | 3                 | 4               | 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                |                     | Primary Volts       | Secondary              |          |                   |                 |   |
|----------------|-------------------------------|----------------------------|---------------------|---------------------|------------------------|----------|-------------------|-----------------|---|
|                |                               | P/N's*                     | Chassis No.*        |                     | Secondary 1            | 2        | 3                 | 4               | 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 |   |
| 290EAZ         | 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 |           | Similar Amp |              | Secondary           |                        |   |                |   |         |
|---------|-----------|-------------|--------------|---------------------|------------------------|---|----------------|---|---------|
| P/N     | Amp Model | P/N's*      | Chassis No.* | Primary Volts       | Secondary 1            | 2 | 3              | 4 | 5       |
| 290DAX  | GENERIC   |             |              | 120/240V @ 50/60 Hz | 710/610Vct @<br>230 mA |   | 6.3Vct @<br>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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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А