



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".



Ask About  
Custom  
Transformers  
& Chokes



### 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 | Winding |
|-------------|-------------|---|--|-------------------------------|---------------------------|-------------|----------------|-------------|-------------|---------|
| 290EX       | BANDMASTER* | 67233,<br>125P7D,<br>125P7DX,<br>022814 | Blond, 6G7-A,<br>Blackface,<br>AA763, AB763,<br>Silverface,<br>AC568, AD1269 | 120V                          | 660Vct @ 275<br>mA        | 53V Bias    | 6.4Vct @<br>4A |             |             | Paper   |
| 290EEX      | BANDMASTER* |   | Blond, 6G7-A,<br>Blackface,<br>AA763, AB763,<br>Silverface,<br>AC568, AD1269 | 120/210/230/240 @<br>50/60 Hz | 660Vct @ 275<br>mA        | 53V Bias    | 6.3Vct @<br>4A |             |             | Paper   |
| 290D2X      | BANDMASTER* |   | Tweed  | 120V @ 60 Hz                  | 710Vct/610Vct<br>@ 300 mA | 50V Bias    | 6.3Vct @<br>5A | 5V @ 3A     |             | Bobbin  |

| Hammond P/N | Amp Model                    | Similar Amp P/N's*                    | Chassis No.*                                      | Primary Volts                   | Secondary 1            | Secondary 2 | Secondary 3  | Secondary 4 | Secondary 5 | Winding |
|-------------|------------------------------|---------------------------------------|---|---------------------------------|------------------------|-------------|--------------|-------------|-------------|---------|
| 290D2EX     | BANDMASTER*                  |                                       | Tweed   | 120/210/220/230/240V @ 50/60 Hz | 710Vct/610Vct @ 300 mA | 50V Bias    | 6.3Vct @ 5A  | 5V @ 3A     |             | Bobbin  |
| 290DHX      | BANDMASTER DELUXE*           | 76041000                              |   | 120V @ 60 Hz                    | 315V @ 250 mA          |             | 26V @ 100 mA | 6V @ 1A     | 6.3Vct @ 5A | Bobbin  |
| 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     |             | Bobbin  |
| 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     |             | Bobbin  |
| 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     |             | Bobbin  |
| 290D2EX     | BASSMAN*                     |                                       | Tweed, 5F6, 5F6A, 10                              | 120/210/220/240V @ 50/60 Hz     | 710/610Vct @ 300 mA    | 50V Bias    | 6.3Vct @ 5A  | 5V @ 3A     |             | Bobbin  |
| 290EX       | BASSMAN*                     | 67233, 125P7D, 125P7DX, 022814        | Blackface, AA864, AA165, AB165, Silverface, AA270 | 120V @ 60 Hz                    | 660Vct @ 275 mA        | 53V Bias    | 6.4Vct @ 4A  |             |             | Paper   |
| 290EEX      | BASSMAN*                     |                                       | Blackface, AA864, AA165, AB165, Silverface, AA270 | 120/210/230/240V @ 50/60 Hz     | 660Vct @ 275 mA        | 53V Bias    | 6.3Vct @ 4A  |             |             | Paper   |
| 290DX       | BASSMAN* (Lower Plate Volts) | 8087                                  | Tweed, 5F6, 5F6A                                  | 120V @ 60 Hz                    | 650Vct @ 230 mA        | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 290DEX      | BASSMAN* (Lower Plate Volts) |                                       | Tweed, 5F6, 5F6A                                  | 240V @ 50/60 Hz                 | 650Vct @ 230 mA        | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 290DX       | BASSMAN* (Lower Plate Volts) | 8087                                  | Combos  | 120V @ 60 Hz                    | 650Vct @ 230 mA        | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 290DEX      | BASSMAN* (Lower Plate Volts) |                                       | Combos  | 240V @ 50/60 Hz                 | 650Vct @ 230 mA        | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 290FX       | BASSMAN 100*                 | 125P34A, 022756                       | Silverface  | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias    | 6.5V @ 5.5A  |             |             | Paper   |
| 290FEX      | BASSMAN 100*                 |                                       | Silverface  | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias    | 6.5V @ 5.5A  |             |             | Paper   |
| 291ZZ       | BASSMAN 135*                 | 13692                                 | Silverface  | 120V @ 60 Hz                    | 364Vct @ 1A            | 53V Bias    | 6.3Vct @ 7A  | 6.3Vct @ 7A |             | Bobbin  |
| 291ZEZ      | BASSMAN 135                  | 13830                                 | SAME  | 120/240V @ 50/60 Hz             | 364Vct @ 1A            | 53V Bias    | 6.3Vct @ 7A  | 6.3Vct @ 7A |             | Paper   |
| 290TX       | BASSMAN 59* (REISSUE)        | 36483                                 | 217-1000-010                                      | 120V @ 60 Hz                    | 696Vct @ 500 nA        | 52V Bias    | 6.5V @ 2A    | 5V @ 2A     |             | Bobbin  |
| 290YX       | BASSMAN 70*                  | 13895                                 | Silverface  | 120V @ 60 Hz                    | 372Vct @ 400 mA        | 56V Bias    | 6.3Vct @ 4A  |             |             | Bobbin  |
| 290YEX      | BASSMAN 70*                  |                                       | Silverface  | 240V @ 50/60 Hz                 | 372Vct @ 400 mA        | 56V Bias    | 6.3Vct @ 4A  |             |             | Bobbin  |
| 290UX       | BLUES DELUXE*                | 36958                                 |   | 117V @ 60 Hz                    | 308.5V @ 250 mA        | 39V Bias    | 6.6V @ 3.75A |             |             | Paper   |
| 290UEX      | BLUES DELUXE*                |                                       |   | 240V @ 50/60 Hz                 | 308.5V @ 250 mA        | 39V Bias    | 6.6V @ 3.75A |             |             | Paper   |

| Hammond P/N | Amp Model                    | Similar Amp P/N's*              | Chassis No.*                                       | Primary Volts              | Secondary 1         | Secondary 2 | Secondary 3    | Secondary 4 | Secondary 5 | Winding |
|-------------|------------------------------|---------------------------------|--|----------------------------|---------------------|-------------|----------------|-------------|-------------|---------|
| 290UX       | BLUES DELUXE* (REISSUE)      | 36958                           |  | 117V @ 60 Hz               | 308.5V @ 250 mA     | 39V Bias    | 6.6V @ 3.75A   |             |             | Paper   |
| 290UEX      | BLUES DELUXE* (REISSUE)      |                                 |  | 240V @ 50/60 Hz            | 308.5V @ 250 mA     | 39V Bias    | 6.6V @ 3.75A   |             |             | Paper   |
| 290XX       | BLUES JR.*                   | 49967                           |  | 117V @ 60 Hz               | 260V @ 170 mA       |             | 20V @ 100 mA   | 6.3V @ 3A   |             | Bobbin  |
| 290XEX      | BLUES JR.*                   |                                 |  | 240V @ 50/60 Hz            | 260V @ 170 mA       |             | 20V @ 100 mA   | 6.3V @ 3A   |             | Bobbin  |
| 290AX       | BRONCO*                      | 125P1B, 022772, 66079B          | AA764, AB764, Blackface, Silverface                | 120V, 60 Hz                | 650/550Vct @ 100 mA |             | 6.3Vct @ 2.25A | 5V @ 3A     |             | Bobbin  |
| 290AXR      | 65 Princeton Reverb Reissue* | 75165000                        |  | 120V, 60 Hz                | 680Vct @ 100 mA     |             | 6.3Vct @ 2.25A | 5V @ 3A     |             | Bobbin  |
| 290AXER     | 65 Princeton Reverb Reissue* | 75165000                        |  | 240V, 50/60 Hz             | 680Vct @ 100 mA     |             | 6.3Vct @ 2.25A | 5V @ 3A     |             | Bobbin  |
| 291AEX      | BRONCO*                      |                                 | AA764, AB764, Blackface, Silverface                | 120/220/230/240V 50/60 Hz  | 650/550Vct @ 100 mA |             | 6.3Vct @ 2.25A | 5V @ 3A     |             | Bobbin  |
| 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     |             | Bobbin  |
| 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     |             | Bobbin  |
| 290BAX      | CHORUS*                      | 31668                           |  | 120V @ 60 Hz               | 60Vct @ 2.85A       |             |                |             |             | Bobbin  |
| 290EX       | CONCERT*                     | 67233, 125P7D, 125P7DX, 022814  | Brownface, 6G12A, Blackface, AA763                 | 120V @ 60 Hz               | 660Vct @ 275 mA     | 53V Bias    | 6.4Vct @ 4A    |             |             | Paper   |
| 290EEX      | CONCERT*                     |                                 | Brownface, 6G12A, Blackface, AA763                 | 120/210/230/240 @ 50/60 Hz | 660Vct @ 275 mA     | 53V Bias    | 6.4Vct @ 4A    |             |             | Paper   |
| 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     |             | Paper   |
| 290BXX      | -                            | Vertical version of 290BX       |  | 120V @ 60 Hz               | 660Vct @ 138 mA     | 50V Bias    | 6.3V @ 3A      | 5V @ 3A     |             | Paper   |
| 290BEX      | DELUEX*                      |                                 | 5A3, 5B3, 5C3, 5D3, 6G3, AB763                     | 240V @ 50/60 Hz            | 660Vct @ 138 mA     | 50V Bias    | 6.3V @ 3A      | 5V @ 3A     |             | Bobbin  |
| 290BBX      | DELUEX*                      | 6452                            | Tweed  | 120V @ 50/60 Hz            | 710Vct @ 115 mA     | -           | 6.3Vct @ 1.65A | 5V @ 2A     |             | Bobbin  |
| 290BBEX     | DELUEX*                      |                                 | Tweed  | 120/220/230/240 @ 50/60 Hz | 710Vct @ 115 mA     | -           | 6.3Vct @ 1.65A | 5V @ 2A     |             | Bobbin  |
| 290CX       | DELUXE 65 REVERB* (REISSUE)  | 041316, 022723, 125P26A         | 021-7400-000                                       | 120V @ 60 Hz               | 650Vct @ 207 mA     | 50V Bias    | 6.3V @ 4.5A    | 5V @ 3A     |             | Bobbin  |
| 290CEX      | DELUXE 65 REVERB* (REISSUE)  |                                 | 021-7400-000                                       | 240V @ 50/60 Hz            | 650Vct @ 207 mA     | 50V Bias    | 6.3V @ 4.5A    | 5V @ 3A     |             | Bobbin  |

| Hammond P/N | Amp Model                      | Similar Amp P/N's*                        | Chassis No.*  | Primary Volts                    | Secondary 1            | Secondary 2 | Secondary 3       | Secondary 4     | Secondary 5 | Winding |
|-------------|--------------------------------|---|---|----------------------------------|------------------------|-------------|-------------------|-----------------|-------------|---------|
| 290CX       | DELUXE 68<br>CUSTOM<br>REVERB* | 041316,<br>022723,<br>125P26A             |   | 120V @ 60 Hz                     | 650Vct @ 207<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             | Bobbin  |
| 290CEX      | DELUXE 68<br>CUSTOM<br>REVERB* |   |   | 240V @ 50/60 Hz                  | 650Vct @ 207<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             | Bobbin  |
| 290BX       | DELUXE<br>REVERB*              | 125P33A,<br>022749,<br>125P23B,<br>025130 | Blackface,<br>Silverface,<br>AA763, AB763,<br>AB868, A1172,<br>A1270, Volume<br>Boost | 120V @ 60 Hz                     | 660Vct @ 138<br>mA     | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             | Paper   |
| 290BEX      | DELUXE<br>REVERB*              |   | Blackface,<br>Silverface,<br>AA763, AB763,<br>AB868, A1172,<br>A1270, Volume<br>Boost | 240V @ 50/60 Hz                  | 660Vct @ 138<br>mA     | 50V Bias    | 6.3V @ 3A         | 5V @ 3A         |             | Bobbin  |
| 290CX       | FENDER 30*                     | 041316,<br>022723,<br>125P26A             |   | 120V @ 60 Hz                     | 650Vct @ 207<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             | Bobbin  |
| 290CEX      | FENDER 30*                     |   |   | 240V @ 50/60 Hz                  | 650Vct @<br>207mA      | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             | Bobbin  |
| 290HAX      | HARVARD*                       | 5F10                                      | Tweed Push Pull   | 120V @ 60 Hz                     | 550Vct @ 100<br>mA     | 50V Bias    | 6.3Vct @<br>2.5A  | 5V @ 3A         |             | Bobbin  |
| 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         |             | Bobbin  |
| 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 |             | Paper   |
| 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 |             | Paper   |
| 290VX       | HOT ROD<br>DEVILLE*            | 41752                                     |   | 117V @ 60 Hz                     | 342V @ 500<br>mA       |             | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             | Paper   |
| 290VEX      | HOT ROD<br>DEVILLE*            |   |   | 240V @ 50/60 Hz                  | 342V @ 500<br>mA       |             | 52Vct @<br>250 mA | 6.3V @<br>3.75A |             | Paper   |
| 290CX       | MODEL 30*                      | 041316,<br>022723,<br>125P26A             |   | 120V @ 60 Hz                     | 650Vct @ 207<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             | Bobbin  |
| 290CEX      | MODEL 30*                      |   |   | 240V @ 50/60 Hz                  | 650Vct @ 207<br>mA     | 50V Bias    | 6.3V @<br>4.5A    | 5V @ 3A         |             | Bobbin  |
| 290AAX      | MUSICMASTER<br>BASE*           | 026821                                    |   | 120V, 60 Hz                      | 490V @ 90<br>mA        |             | 6.3V @<br>1.25A   |                 |             | Bobbin  |
| 290BAX      | POWER<br>CHORUS*               | 31668                                     |   | 120V @ 60 Hz                     | 60Vct @<br>2.85A       |             |                   |                 |             | Bobbin  |
| 290AX       | PRINCETON*                     | 125P1B,<br>022772,<br>66079B              | Tweed, Brown,<br>Blackface,<br>Silverface, AA964                                      | 120V, 60 Hz                      | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A          |             | Bobbin  |
| 291AEX      | PRINCETON*                     |   | Tweed, Brown,<br>Blackface,<br>Silverface, AA964                                      | 120/220/230/240V 50/60<br>Hz     | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A          |             | Bobbin  |
| 290AX       | PRINCETON<br>REVERB*           | 125P1B,<br>022772,<br>66079B              | AA1164, AA764,<br>B1270,<br>Blackface,<br>Silverface                                  | 120V, 60 Hz                      | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A          |             | Bobbin  |
| 291AEX      | PRINCETON<br>REVERB*           |   | AA1164, AA764,<br>B1270,<br>Blackface,<br>Silverface                                  | 120/220/230/240V 50/60<br>Hz     | 650/550Vct @<br>100 mA |             | 6.3Vct @<br>2.25A | 5V @3A          |             | Bobbin  |

| Hammond P/N | Amp Model                    | Similar Amp P/N's*                    | Chassis No.*                               | Primary Volts                   | Secondary 1            | Secondary 2    | Secondary 3 | Secondary 4 | Secondary 5 | Winding |
|-------------|------------------------------|---------------------------------------|--|---------------------------------|------------------------|----------------|-------------|-------------|-------------|---------|
| 290D2X      | PRO*                         | 8087, 125P5D, 125P5DX, 022798, 022806 | Tweed, Blackface, AB763                    | 120V @ 60 Hz                    | 710/610Vct @ 300 mA    | 50V Bias       | 6.3Vct @ 5A | 5V @ 3A     |             | Bobbin  |
| 290D2EX     | PRO*                         |                                       | Tweed, Blackface, AB763                    | 120/210/220/240V @ 50/60 Hz     | 710/610Vct @ 300 mA    | 50V Bias       | 6.3Vct @ 5A | 5V @ 3A     |             | Bobbin  |
| 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     |             | Bobbin  |
| 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     |             | Bobbin  |
| 290XXA      | PRO JR.*                     | 41782                                 |  | 117V @ 60 Hz                    | 260V @ 170 mA          |                | 6.3V @ 3A   |             |             | Bobbin  |
| 290XXB      | PRO JR.*                     |                                       |  | 117V @ 60 Hz                    | 260V @ 170 mA          |                | 6.3Vct @ 3A |             |             | Bobbin  |
| 290FX       | QUAD WITH REVERB*            | 125P34A, 022756                       |  | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FEX      | QUAD WITH REVERB*            |                                       |  | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FX       | SHOWMAN*                     | 125P34A, 022756                       | Silverface, Blackface, AB763, AC568, AA763 | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FEX      | SHOWMAN*                     |                                       | Silverface, Blackface, AB763, AC568, AA763 | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FX       | SHOWMAN REVERB*              | 125P34A, 022756                       | AA768                                      | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FEX      | SHOWMAN REVERB*              |                                       | AA768                                      | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FX       | SHOWMAN DUAL*                | 125P34A, 022756                       | AB763, AC568                               | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FEX      | SHOWMAN DUAL*                |                                       | AB763, AC568                               | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FX       | SHOWMAN DUAL REVERB*         | 125P34A, 022756                       | 100, AA769                                 | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290FEX      | SHOWMAN DUAL REVERB*         |                                       | 100, AA769                                 | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A |             |             | Paper   |
| 290S2Z      | SUNN 2000*                   | 3-12 PT                               |  | 117V @ 60 Hz                    | 780Vct @ 400 mA        | 55V Bias       | 6.3Vct @ 8A | 5V @ 4A     |             | Bobbin  |
| 290D2X      | SUPER*                       | 8087, 125P5D, 125P5DX, 022798, 022806 | Tweed                                      | 120V @ 60 Hz                    | 710Vct/610Vct @ 300 mA | 50V Bias       | 6.3Vct @ 5A | 5V @ 3A     |             | Bobbin  |
| 290D2EX     | SUPER*                       |                                       | Tweed                                      | 120/210/220/230/240V @ 50/60 Hz | 710Vct/610Vct @ 300 mA | 50V Bias       | 6.3Vct @ 5A | 5V @ 3A     |             | Bobbin  |
| 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     |             | Bobbin  |
| 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     |             | Bobbin  |
| 290ACX      | SUPER CHAMP X2*              | 91234000                              |  | 120V @ 60 Hz                    | 300V @ 100 mA          | 34Vct @ 100 mA | 9V @ 1.5A   | 6.6V @ 1.5A |             | Bobbin  |

| Hammond P/N | Amp Model             | Similar Amp P/N's*                    | Chassis No.*   | Primary Volts                   | Secondary 1            | Secondary 2    | Secondary 3    | Secondary 4  | Secondary 5 | Winding |
|-------------|-----------------------|---------------------------------------|--|---------------------------------|------------------------|----------------|----------------|--------------|-------------|---------|
| 291ACX      | SUPER CHAMP X2*       | 13830                                 |  | 120/240V @ 50/60 Hz             | 300V @ 100 mA          | 34Vct @ 100 mA | 9V @ 1.5A      | 6.6V @ 1.5A  |             | Bobbin  |
| 290D2X      | SUPER REVERB*         | 8087, 125P5D, 125P5DX, 022798, 022806 | Brownface, Blackface, AA763, AB763, Silverface, AB568, AA270 | 120V @ 60 Hz                    | 710Vct/610Vct @ 300 mA | 50V Bias       | 6.3Vct @ 5A    | 5V @ 3A      |             | Bobbin  |
| 290D2EX     | SUPER REVERB*         |                                       | Brownface, Blackface, AA763, AB763, Silverface, AB568, AA270 | 120/210/220/230/240V @ 50/60 Hz | 710Vct/610Vct @ 300 mA | 50V Bias       | 6.3Vct @ 5A    | 5V @ 3A      |             | Bobbin  |
| 290FX       | SUPER SIX REVERB 100* | 125P34A, 022756                       |  | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A    |              |             | Paper   |
| 290FEX      | SUPER SIX REVERB 100* |                                       |  | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A    |              |             | Paper   |
| 291ZZ       | SUPER SIX REVERB 135* | 13830                                 |  | 120V @ 60 Hz                    | 364Vct @ 1A            | 53V @ 1A       | 6.3Vct @ 7A    |              |             | Bobbin  |
| 290VX       | SUPER SONIC 60 COMBO* | 41752                                 | 021-3201-000   | 117V @ 60 Hz                    | 342V @ 500 mA          |                | 52Vct @ 250 mA | 6.3V @ 3.75A |             | Paper   |
| 290VEX      | SUPER SONIC 60 COMBO* |                                       | 021-3201-000   | 240V @ 50/60 Hz                 | 342V @ 500 mA          |                | 52Vct @ 250 mA | 6.3V @ 3.75A |             | Paper   |
| 290SX       | TONEMASTER*           | 26554                                 |  | 120/230/240V @ 50/60 Hz         | 337Vct @ 1.1A          |                | 54V @ 250 mA   | 6.4V @ 3A    |             | Bobbin  |
| 290CX       | TREMOLUX*             | 041316, 022723, 125P26A               | AA763, AB763   | 120V @ 60 Hz                    | 650Vct @ 207mA         | 50V Bias       | 6.3V @ 4.5A    | 5V @ 3A      |             | Bobbin  |
| 290CEX      | TREMOLUX*             |                                       | AA763, AB763   | 240V @ 50/60 Hz                 | 650Vct @ 207 mA        | 50V Bias       | 6.3V @ 4.5A    | 5V @ 3A      |             | Bobbin  |
| 290BX       | TREMOLUX* TWEED       | 041316, 022723, 125P26A               | 5E9, 5E9-A, 5G9  | 120V @ 60 Hz                    | 660Vct @ 138 mA        | 50V Bias       | 6.3V @ 3A      | 5V @ 3A      |             | Paper   |
| 290BEX      | TREMOLUX* TWEED       |                                       | 5E9, 5E9-A, 5G9  | 240V @ 50/60 Hz                 | 660Vct @ 138 mA        | 50V Bias       | 6.3V @ 3A      | 5V @ 3A      |             | Bobbin  |
| 290RX       | TWIN RED KNOB*        | 26477                                 |  | 120V @ 60 Hz                    | 337Vct @ 1.1A          |                | 54V @ 250 mA   | 6.4V @ 3A    |             | Paper   |
| 290REX      | TWIN RED KNOB*        |                                       |  | 100/120/220/240V @ 50/60 Hz     | 337Vct @ 1.1A          |                | 54V @ 250 mA   | 6.4V @ 3A    |             | Bobbin  |
| 290FX       | TWIN REVERB*          | 125P34A, 022756                       | AA769, AA270, Silverface, AB763, Blackface, 100              | 120V @ 60 Hz                    | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A    |              |             | Paper   |
| 290FEX      | TWIN REVERB*          |                                       | AA769, AA270, Silverface, AB763, Blackface, 100              | 240V @ 50/60 Hz                 | 640Vct @ 518 mA        | 60V Bias       | 6.5V @ 5.5A    |              |             | Paper   |
| 290BAX      | ULTIMATE CHORUS*      | 31668                                 |  | 120V @ 60 Hz                    | 60Vct @ 2.85A          |                |                |              |             | Bobbin  |
| 290BAX      | ULTIMATE CHORUS*      | 31668                                 |  | 120V @ 60 Hz                    | 60Vct @ 2.85A          |                |                |              |             | Bobbin  |
| 290BAX      | ULTRA CHORUS*         | 31668                                 |  | 120V @ 60 Hz                    | 60Vct @ 2.85A          |                |                |              |             | Bobbin  |
| 290AX       | VIBRO CHAMP*          | 125P1B, 022772, 66079B                | AA764, Blackface, Silverface                                 | 120V, 60 Hz                     | 650/550Vct @ 100 mA    |                | 6.3Vct @ 2.25A | 5V @ 3A      |             | Bobbin  |
| 291AEX      | VIBRO CHAMP*          |                                       | AA764, Blackface, Silverface                                 | 120/220/230/240V 50/60 Hz       | 650/550Vct @ 100 mA    |                | 6.3Vct @ 2.25A | 5V @ 3A      |             | Bobbin  |
| 290ABX      | VIBRO CHAMP XD*       | 74596000F                             |  | 120/240V, 50/60 Hz              | 293.5V @ 100 mA        | 34Vct @ 95 mA  | 9V @ 1.25A     | 6.3V @ 5A    |             | Bobbin  |

| Hammond |                         | Similar Amp             |                     |                                 | Secondary          |               |                |              |   | Winding |
|---------|-------------------------|-------------------------|---------------------|---------------------------------|--------------------|---------------|----------------|--------------|---|---------|
| P/N     | Amp Model               | P/N's*                  | Chassis No.*        | Primary Volts                   | Secondary 1        | 2             | 3              | 4            | 5 |         |
| 290SX   | VIBRO KING*             | 26554                   |                     | 120/230/240V @ 50/60 Hz         | 337Vct @ 1.1A      |               | 54V @ 250 mA   | 6.4V @ 3A    |   | Bobbin  |
| 290ABX  | VIBRO CHAMP XD*         | 74596000F               |                     | 120/240V, 50/60 Hz              | 293.5V @ 100 mA    | 34Vct @ 95 mA | 9V @ 1.25A     | 6.3V @ 5A    |   | Bobbin  |
| 290SX   | VIBRO KING*             | 26554                   |                     | 120/230/240V @ 50/60 Hz         | 337Vct @ 1.1A      |               | 54V @ 250 mA   | 6.4V @ 3A    |   | Bobbin  |
| 290CX   | VIBROLUX*               | 041316, 022723, 125P26A | AB763               | 120V @ 60 Hz                    | 650Vct @ 207 mA    | 50V Bias      | 6.3V @ 4.5A    | 5V @ 3A      |   | Bobbin  |
| 290CEX  | VIBROLUX*               |                         | AB763               | 240V @ 50/60 Hz                 | 650Vct @ 207 mA    | 50V Bias      | 6.3V @ 4.5A    | 5V @ 3A      |   | Bobbin  |
| 290CX   | VIBROLUX REVERB*        | 041316, 022723, 125P26A | AA964, AB568, AA270 | 120V @ 60 Hz                    | 650Vct @ 207 mA    | 50V Bias      | 6.3V @ 4.5A    | 5V @ 3A      |   | Bobbin  |
| 291MZ   | VIBROLUX TWEED          |                         | 5F11                | 100/120/220/230/240V @ 50/60 Hz | 700/650Vct @ 75 mA | 50V Bias      | 6.3V @ 3A      | 5V @ 2A      |   | Bobbin  |
| 290CEX  | VIBROLUX REVERB*        |                         | AA964, AB568, AA270 | 240V @ 50/60 Hz                 | 650Vct @ 180 mA    | 50V Bias      | 6.3V @ 4.5A    | 5V @ 3A      |   | Bobbin  |
| 290FX   | VIBROSONIC*             | 125P34A, 022756         |                     | 120V @ 60 Hz                    | 640Vct @ 518 mA    | 60V Bias      | 6.5V @ 5.5A    |              |   | Paper   |
| 290FEX  | VIBROSONIC*             |                         |                     | 240V @ 50/60 Hz                 | 640Vct @ 518 mA    | 60V Bias      | 6.5V @ 5.5A    |              |   | Paper   |
| 290EZ   | 57 TWIN REISSUE*        | 64419000                |                     | 120V @ 60 Hz                    | 640Vct @ 250 mA    | 50V Bias      | 6.3V @ 4A      | 5V @ 4A      |   | Paper   |
| 290EEZ  | 57 TWIN REISSUE*        |                         |                     | 240V @ 50/60 Hz                 | 660Vct @ 250 mA    | 50V Bias      | 6.3V @ 4A      | 5V @ 4A      |   | Paper   |
| 290DX   | 59 BASSMAN*             | 8087                    |                     | 120V @ 60 Hz                    | 650Vct @ 230 mA    | 50V Bias      | 6.3Vct @ 4A    | 5V @ 3A      |   | Bobbin  |
| 290DEX  | 59 BASSMAN*             |                         |                     | 240V @ 50/60 Hz                 | 650Vct @ 230 mA    | 50V Bias      | 6.3Vct @ 4A    | 5V @ 3A      |   | Bobbin  |
| 290WX   | 63 REVERB*              | 68319A                  | 6G15                | 120V @ 60 Hz                    | 237V @ 50 mA       |               | 6.6V @ 1.05A   |              |   | Bobbin  |
| 290WEX  | 63 REVERB*              |                         | 6G15                | 240V @ 50/60 Hz                 | 237V @ 50 mA       |               | 6.6V @ 1.05A   |              |   | Bobbin  |
| 290UX   | 63 VIBROVERB REISSUE*   |                         |                     | 117V @ 60 Hz                    | 308.5V @ 250 mA    |               | 39V @ 250 mA   | 6.6V @ 3.75A |   | Paper   |
| 290UEX  | 63 VIBROVERB REISSUE*   |                         |                     | 240V @ 50/60 Hz                 | 308.5V @ 250 mA    |               | 39V @ 250 mA   | 6.6V @ 3.75A |   | Paper   |
| 290EBZ  | 65 TWIN REVERB REISSUE* |                         |                     | 120V @ 60 Hz                    | 340V @ 500 mA      |               | 50V @ 100 mA   | 6.3V @ 6A    |   | Bobbin  |
| 290VX   | 93 SUPER CONCERT*       |                         |                     | 117V @ 60 Hz                    | 342V @ 500 mA      |               | 52Vct @ 250 mA | 6.3V @ 3.75A |   | Paper   |
| 290VEX  | 93 SUPER CONCERT*       |                         |                     | 240V @ 50/60 Hz                 | 342V @ 500 mA      |               | 52Vct @ 250 mA | 6.3V @ 3.75A |   | Paper   |
| 290EAZ  | 94 TWIN REISSUE*        | 41776                   |                     | 120V @ 60 Hz                    | 365Vct @ 850 mA    |               | 27.5V @ 100 mA | 6.3V @ 4A    |   | Bobbin  |
| 290EEAZ | 94 TWIN REISSUE*        |                         |                     | 120/210/220/230/240V @ 50/60 Hz | 365Vct @ 850 mA    |               | 27.5V @ 100 mA | 6.3V @ 4A    |   | Bobbin  |
| 290HBZ  | GENERIC                 |                         |                     | 120V @ 60 Hz                    | 620V @ 150 mA      | 50V Bias      | 6.3Vct @ 2.25A | 5V @ 4A      |   | Bobbin  |
| 290LEX  | GENERIC                 |                         |                     | 100/120/220/230/240V @ 50/60 Hz | 690vCT @ 200 mA    |               | 6.3Vct @ 5A    | 5V @ 3A      |   | Bobbin  |
| 291AX   | GENERIC                 |                         |                     | 120V @ 60 Hz                    | 650Vct @ 81 mA     |               | 6.3V @ 2A      | 5V @ 2A      |   | Bobbin  |
| 291BX   | GENERIC                 |                         |                     | 120V @ 60 Hz                    | 660Vct @ 138 mA    | 50V Bias      | 6.3V @ 3A      | 5V @ 3A      |   | Paper   |
| 291BEX  | GENERIC                 |                         |                     | 240V @ 50/60 Hz                 | 660Vct @ 138 mA    | 50V Bias      | 6.3V @ 3A      | 5V @ 3A      |   | Paper   |

| Hammond P/N | Similar Amp Amp Model | Similar Amp P/N's* | Chassis No.* | Primary Volts       | Secondary 1         | Secondary 2 | Secondary 3  | Secondary 4 | Secondary 5 | Winding |
|-------------|-----------------------|--------------------|--------------|---------------------|---------------------|-------------|--------------|-------------|-------------|---------|
| 291CX       | GENERIC               |                    |              | 120V @ 60 Hz        | 650Vct @ 207 mA     | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 291CEX      | GENERIC               |                    |              | 240V @ 50/60 Hz     | 650Vct @ 207 mA     | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 291DX       | GENERIC               |                    |              | 120V @ 60 Hz        | 650Vct @ 230 mA     | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 291DEX      | GENERIC               |                    |              | 240V @ 50/60 Hz     | 650Vct @ 230 mA     | 50V Bias    | 6.3Vct @ 4A  | 5V @ 3A     |             | Bobbin  |
| 291EEX      | GENERIC               |                    |              | 240V @ 50/60 Hz     | 660Vct @ 276 mA     | 53V Bias    | 6.5V @ 3.15A |             |             | Paper   |
| 291FX       | GENERIC               |                    |              | 120V @ 60 Hz        | 640Vct @ 518 mA     | 60V Bias    | 6.5V @ 5.5A  |             |             | Paper   |
| 290CAX      | GENERIC               |                    |              | 120/240V @ 50/60 Hz | 630/550Vct @ 115 mA |             | 6.3V @ 2A    | 5V @ 2A     |             | Bobbin  |
| 290CBZ      | GENERIC               |                    |              | 120V @ 60 Hz        | 650Vct @ 120 mA     |             | 6.3V @ 2A    | 5V @ 3A     |             | Paper   |
| 290DAX      | GENERIC               |                    |              | 120/240V @ 50/60 Hz | 710/610Vct @ 230 mA |             | 6.3Vct @ 5A  | 5V @ 3A     |             | Paper   |

**Marshall (Power Transformers)**

| Part No. | Amp Model                    | Similar Amp P/N's* | Primary                           | Secondary 1         | Secondary 2 | Secondary 3    | Winding |
|----------|------------------------------|--------------------|-----------------------------------|---------------------|-------------|----------------|---------|
| 290MAZ   | Studio 15 "Little Fatty"     | 294-285/6          | 117/234VAC 50/60 Hz.              | 600Vct @ 100 mA     | 6.3Vct @ 2A |                | BOBBIN  |
| 290PAZ   | 18 Watt Combo*               | -                  | 120/240 VAC 50/60 Hz.             | 580Vct @ 140 mA     | 6.3Vct @ 3A | 6.3/5V @ 2A    | BOBBIN  |
| 290JDX   | DSL-401*                     | Dagnall TXMA-00080 | 117/234 VAC 50/60 Hz.             | 307V @ 215 mA       | 6.7V @ 3.5A | 25V @ 75 mA    | BOBBIN  |
| 290GX    | JCM 800*, JMP - 50* Watt     | -                  | 120/220/240 VAC 50/60 Hz.         | 690Vct @ 150 mA     | 6.3Vct @ 5A |                | BOBBIN  |
| 290GZ    | Same as 290GX except Z mount | -                  | 120/220/240 VAC 50/60 Hz.         | 690Vct @ 150 mA     | 6.3Vct @ 5A |                | BOBBIN  |
| 290HX    | JCM 800* & JMP-100* Watt     | -                  | 120/220/240 VAC 50/60 Hz.         | 350Vct @ 420 mA     | 6.3Vct @ 7A | 50 mA Bias     | PAPER   |
| 290HZ    | Same as 290HX except Z mount |                    | 120/220/240 VAC 50/60 Hz.         | 350Vct @ 420 mA     | 6.3Vct @ 7A | 50 mA Bias     | PAPER   |
| 290KX    | JCM 900* - 50 Watt           | -                  | 120/240 VAC 50/60 Hz.             | 332V @ 300 mA       | 6.6Vct @ 4A | 41Vct @ 100 mA | BOBBIN  |
| 290JX    | JCM 900-100* Watt            | -                  | 120/240 VAC 50/60 Hz.             | 360V @ 450 mA       | 6.3vct @ 7A | 43Vct @ 250 mA | BOBBIN  |
| 290MAEX  | JTM 45-50*                   | -                  | 100/120/220/230/240 VAC 50/60 Hz. | 690/625Vct @ 150 mA | 6.3Vct @ 5A | 5V @ 3A        | BOBBIN  |
| 290LX    | Bluesbreaker Reissue         | -                  | 120/240 VAC 50/60 Hz.             | 600Vct @ 230 mA     | 6.3Vct @ 4A | 5V @ 2A        | BOBBIN  |
| 290QX    | JTM30*                       | -                  | 120/240 VAC 50/60 Hz.             | 325V @ 270 mA       | 6.3V @ 3.1A | 25V @ 233 mA   | BOBBIN  |
| 290CG    | TSL100                       | -                  | 120/240 VAC 50/60 Hz.             | 338V @ 450 mA       | 6.3Vct @ 7A | 43Vct @ 150 mA | 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 | Winding |
|----------|--------------|-------------|------------------------------|---------|-------------|-------------|-------------|---------|
|----------|--------------|-------------|------------------------------|---------|-------------|-------------|-------------|---------|



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

<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             |

\***DISCLAIMER:** Hammond Mfg. is not affiliated with Fender Musical Instruments Corp., Marshall Amplification, Yorkville/Traynor, AMPEG or VOX Amplification companies. Amplifier model names are trademarks of the Amplifier companies and are just listed here for reference purpose only.

*Data subject to change without notice*

© 2022. Hammond Manufacturing Ltd. All rights reserved.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Hammond:

[290AX](#) [290BX](#) [290CX](#) [290DX](#) [290EX](#) [290FX](#) [290GX](#) [290HX](#) [290JX](#) [290KX](#) [290LX](#) [290MX](#) [290PX](#) [290NX](#)  
[290AEX](#) [290BEX](#) [290CEX](#) [290DEX](#) [290EEX](#) [290FEX](#) [291AEX](#) [291AX](#) [291BEX](#) [291BX](#) [291CEX](#) [291CX](#) [291DEX](#)  
[291DX](#) [291EEX](#) [291EX](#) [291FEX](#) [291FX](#) [290QX](#) [290WX](#) [290YX](#) [290XX](#) [290XEX](#) [290VX](#) [290SX](#) [290CAX](#)  
[290TX](#) [290RX](#) [290UX](#) [290YEX](#) [290UEX](#) [290PAZ](#) [290EAX](#) [290REX](#) [290CEZ](#) [290ETX](#) [290CAZ](#) [290LEX](#) [290MAX](#)  
[290EBZ](#) [290XXA](#) [290BBEX](#) [290ACX](#) [291ACX](#) [290CZ](#) [290EEZ](#) [291ZEZ](#) [290WEX](#) [290BBX](#) [290CBZ](#) [290MAZ](#)  
[290ABX](#) [290EZ](#) [291ZZ](#) [290AAX](#) [290VEX](#) [290BXX](#) [290D2EX](#) [290BAX](#) [290DHX](#) [290EEBZ](#) [291TC](#) [290AXR](#)  
[290EEAZ](#) [290JDX](#) [290AXER](#) [291MZ](#) [290CG](#)