

### Front Panel Assignments

| Control     | Function                     | Description                            |
|-------------|------------------------------|--|
| Shape 1     | Timbre Bias                  | Timbre Input Bias                      |
| Pict1 1     | Timbre Intensity             | Timbre Modulation Intensity            |
| Waveform 1  | [Sum : LFO*LFO2 : KT*EG Env] | Timbre Modulation Matrix Operator      |
| Pitch Int   | EG Envelope Intensity        | EG Envelope with EG Velocity Intensity |
| Shape 2     | Morph Bias                   | Morph Input Bias                       |
| Pitch 2     | Morph Intensity              | Morph Modulation Intensity             |
| Waveform 2  | [Sum : KT*Env2 : KT*LFO2]    | Morph Modulation Matrix Operator       |
| Crossmod    | LFO2 Intensity               | LFO2 Intensity                         |
| Shape       | Harmonics Bias               | Harmonics Input Bias                   |
| ShiftShape  | Harmonics Intensity          | Harmonics Modulation Intensity         |
| Ring / Sync | [LFO : Env2 : LFO2]          | Harmonics Modulation Matrix Operator   |

### MultiEngine Parameter Menu Assignments

|        |                         |                                    |
|--------|-------------------------|------------------------------------|
| Param1 | LFO2 Rate               | Triangle/Ramp LFO2 frequency       |
| Param2 | Mod Channel 1 Intensity | Timbre Key Track                   |
| Param3 | Mod Channel 1 Intensity | Morph Key Track                    |
| Param4 | Mod Channel 1 Intensity | Harmonics Key Track                |
| Param5 | Env2 Attack             | Env2 Attack Rate and Envelope Mode |
| Param6 | Env2 Decay              | Env2 Decay Rate and Envelope Mode  |

### Notes

1. Matrix Operator controls how Built In and Hardware Modulators are combined per chanr
3. Mod Channel 1 is assigned to Menu Params 2, 3, and 4
4. Mod Channel 2 is assigned Front Panel Int1, Int2, and Int3
5. Mod Channel 3 is assigned to Front Panel EG Env Int, LFO2 Int, Mod Type Select, and Param1

### Modulation Matrix Assignments

|           | Mod Ch. 1 | Mod Ch. 2 | Mod Ch. 3 |
|-----------|-----------|-----------|-----------|
| Timbre    | KT        | LFO       | EG Env    |
| Timbre    | KT        | LFO*LFO2  | EG Env    |
| Timbre    | KT        | LFO       | EG Env*KT |
| Morph     | KT        | Env2      | LFO2      |
| Morph     | KT        | Env2*KT   | LFO2      |
| Morph     | KT        | Env2      | LFO2*KT   |
| Harmonics | KT        | LFO       |           |
| Harmonics | KT        | Env2      |           |
| Harmonics | KT        | Env2*LFO  |           |

### Model Input Key

|  |                              |
|--|------------------------------|
|  | Timbre                       |
|  | Timbre and Morph             |
|  | Morph                        |
|  | Harmonics                    |
|  | Harmonics and Timbre         |
|  | Harmonics and Morph          |
|  | Timbre, Morph, and Harmonics |