

| Corner Station Controls Chassis 6 Left Rail | | | | | | | | |
|---|--------|------|--------|--------|---------|-------|---------|-----|
| Name | Color | Rail | Module | Number | Channel | Type | Adapter | Pin |
| Power | | | | | | | | |
| 24V | violet | L | OMRON | DC_1 | 24V | P | TBLOCK | |
| 0V | gray | L | OMRON | DC_1 | 0V | P | TBLOCK | |
| 24V | violet | L | EK1101 | 0 | 24V | P | TBLOCK | |
| 0V | gray | L | EK1101 | 0 | 0V | P | TBLOCK | |
| 5V_1 | red | L | EK1101 | 0 | + | P | DC_1 | +V |
| 5VRET_1 | black | L | EK1101 | 0 | - | P | DC_1 | -V |
| 5V_2 | red | L | EL9190 | 5 | + | P | DC_2 | +V |
| 5VRET_2 | black | L | EL9190 | 5 | - | P | DC_2 | -V |
| 24V | violet | L | EL9410 | 15 | 24V | P | TBLOCK | |
| 0V | gray | L | EL9410 | 15 | 0V | P | TBLOCK | |
| 5V_3 | red | L | EL9410 | 15 | + | P | DC_3 | +V |
| 5VRET_3 | black | L | EL9410 | 15 | - | P | DC_3 | -V |
| 24V | violet | L | OMRON | DC_2 | 24V | P | TBLOCK | |
| 0V | gray | L | OMRON | DC_2 | 0V | P | TBLOCK | |
| 24V | violet | L | OMRON | DC_3 | 24V | P | TBLOCK | |
| 0V | gray | L | OMRON | DC_3 | 0V | P | TBLOCK | |
| Coupler | | | | | | | | |
| Input | CAT5 | L | EK1101 | 0 | X1 | Comm. | IN | |
| Output | CAT5 | L | EK1101 | 0 | X2 | Comm. | M/O | X1 |
| RF Amp | | | | | | | | |
| Monitor 1 + | green | L | EL3104 | 1 | +1 | AI | 11 | 12 |
| Monitor 1 - | white | L | EL3104 | 1 | -1 | AI | 11 | 31 |
| Monitor 2 + | green | L | EL3104 | 1 | +2 | AI | 11 | 11 |
| Monitor 2 - | white | L | EL3104 | 1 | -2 | AI | 11 | 30 |
| Monitor 3 + | green | L | EL3104 | 1 | +3 | AI | 11 | 10 |
| Monitor 3 - | white | L | EL3104 | 1 | -3 | AI | 11 | 29 |
| Monitor 4 + | green | L | EL3104 | 1 | +4 | AI | 11 | 9 |
| Monitor 4 - | white | L | EL3104 | 1 | -4 | AI | 11 | 28 |
| Monitor 5 + | green | L | EL3104 | 2 | +1 | AI | 11 | 8 |
| Monitor 5 - | white | L | EL3104 | 2 | -1 | AI | 11 | 27 |
| Monitor 6 + | green | L | EL3104 | 2 | +2 | AI | 11 | 7 |
| Monitor 6 - | white | L | EL3104 | 2 | -2 | AI | 11 | 26 |
| Monitor 7 + | green | L | EL3104 | 2 | +3 | AI | 11 | 6 |
| Monitor 7 - | white | L | EL3104 | 2 | -3 | AI | 11 | 25 |
| Monitor 8 + | green | L | EL3104 | 2 | +4 | AI | 11 | 5 |
| Monitor 8 - | white | L | EL3104 | 2 | -4 | AI | 11 | 24 |
| 5VRET_1 | black | L | EL1124 | 3 | - | P | 11 | 19 |
| OK1 | brown | L | EL1124 | 3 | 11 | BI | 11 | 37 |
| OK2 | brown | L | EL1124 | 3 | 12 | BI | 11 | 17 |
| OK3 | brown | L | EL1124 | 3 | 13 | BI | 11 | 34 |
| OK4 | brown | L | EL1124 | 3 | 14 | BI | 11 | 14 |
| OK5 | brown | L | EL1124 | 4 | 11 | BI | 11 | 18 |
| OK6 | brown | L | EL1124 | 4 | 12 | BI | 11 | 35 |
| OK7 | brown | L | EL1124 | 4 | 13 | BI | 11 | 15 |
| OK8 | brown | L | EL1124 | 4 | 14 | BI | 11 | 32 |
| Low Noise VCO w/ PLL B | | | | | | | | |
| Monitor 1 + | green | L | EL3104 | 6 | +1 | AI | 10 | 1 |
| Monitor 1 - | white | L | EL3104 | 6 | -1 | AI | 10 | 14 |
| Monitor 2 + | green | L | EL3104 | 6 | +2 | AI | 10 | 2 |
| Monitor 2 - | white | L | EL3104 | 6 | -2 | AI | 10 | 15 |
| Monitor 3 + | green | L | EL3104 | 6 | +3 | AI | 10 | 3 |
| Monitor 3 - | white | L | EL3104 | 6 | -3 | AI | 10 | 16 |
| Temp 1 + | green | L | EL3104 | 6 | +4 | AI | 10 | 4 |
| Temp 1 - | white | L | EL3104 | 6 | -4 | AI | 10 | 17 |
| PLL error signal + | green | L | EL3104 | 7 | +1 | AI | 9 | 1 |
| PLL error signal - | white | L | EL3104 | 7 | -1 | AI | 9 | 14 |
| PLL control signal + | green | L | EL3104 | 7 | +2 | AI | 9 | 2 |
| PLL control signal - | white | L | EL3104 | 7 | -2 | AI | 9 | 15 |
| Tune monitor + | green | L | EL3104 | 7 | +3 | AI | 10 | 10 |
| Tune monitor - | white | L | EL3104 | 7 | -3 | AI | 10 | 23 |
| Spare + | green | L | EL3104 | 7 | +4 | AI | 10 | 12 |
| Spare - | white | L | EL3104 | 7 | -4 | AI | 10 | 25 |

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|-------------------------------|--------|---|--------|----|-----|----|----|----|
| Tune adjust + | blue | L | EL4132 | 8 | O1 | AO | 10 | 11 |
| Tune adjust – | yellow | L | EL4132 | 8 | COM | AO | 10 | 24 |
| PLL Offset adjust + | blue | L | EL4132 | 8 | O2 | AO | 9 | 3 |
| PLL Offset adjust – | yellow | L | EL4132 | 8 | COM | AO | 9 | 16 |
| SVRET_2 | black | L | EL1124 | 9 | – | P | 10 | 20 |
| SVRET_2 | black | L | EL1124 | 9 | – | P | 9 | 13 |
| Excitation switch | brown | L | EL1124 | 9 | I1 | BI | 10 | 9 |
| OK | brown | L | EL1124 | 9 | I2 | BI | 10 | 7 |
| PLL OK | brown | L | EL1124 | 9 | I3 | BI | 9 | 25 |
| | brown | L | EL1124 | 9 | I4 | BI | | |
| Excitation enable | orange | L | EL2124 | 10 | O1 | BO | 10 | 8 |
| | orange | L | EL2124 | 10 | O2 | BO | | |
| PLL input enable | orange | L | EL2124 | 10 | O3 | BO | 9 | 4 |
| PLL sign | orange | L | EL2124 | 10 | O4 | BO | 9 | 17 |
| PLL first compensation | orange | L | EL2124 | 11 | O1 | BO | 9 | 5 |
| PLL second compensation | orange | L | EL2124 | 11 | O2 | BO | 9 | 18 |
| PLL gain slider input 2 bit 0 | orange | L | EL2124 | 11 | O3 | BO | 9 | 6 |
| PLL gain slider input 2 bit 1 | orange | L | EL2124 | 11 | O4 | BO | 9 | 19 |
| PLL gain slider input 2 bit 2 | orange | L | EL2124 | 12 | O1 | BO | 9 | 7 |
| PLL gain slider input 2 bit 3 | orange | L | EL2124 | 12 | O2 | BO | 9 | 20 |
| PLL gain slider input 2 bit 4 | orange | L | EL2124 | 12 | O3 | BO | 9 | 8 |
| PLL gain slider input 2 bit 5 | orange | L | EL2124 | 12 | O4 | BO | 9 | 21 |
| PLL option | orange | L | EL2124 | 13 | O1 | BO | 9 | 9 |
| PLL output enable | orange | L | EL2124 | 13 | O2 | BO | 9 | 22 |
| PLL integrator | orange | L | EL2124 | 13 | O3 | BO | 9 | 10 |
| PLL generic filter | orange | L | EL2124 | 13 | O4 | BO | 9 | 23 |
| PLL VCO filter | orange | L | EL2124 | 14 | O1 | BO | 9 | 11 |
| PLL Low pass | orange | L | EL2124 | 14 | O2 | BO | 9 | 24 |
| PLL Excitation enable | orange | L | EL2124 | 14 | O3 | BO | 9 | 12 |
| | orange | L | EL2124 | 14 | O4 | BO | | |
| Low Noise VCO w/ PLL A | | | | | | | | |
| Monitor 1 + | green | L | EL3104 | 16 | +1 | AI | 8 | 1 |
| Monitor 1 – | white | L | EL3104 | 16 | –1 | AI | 8 | 14 |
| Monitor 2 + | green | L | EL3104 | 16 | +2 | AI | 8 | 2 |
| Monitor 2 – | white | L | EL3104 | 16 | –2 | AI | 8 | 15 |
| Monitor 3 + | green | L | EL3104 | 16 | +3 | AI | 8 | 3 |
| Monitor 3 – | white | L | EL3104 | 16 | –3 | AI | 8 | 16 |
| Temp 1 + | green | L | EL3104 | 16 | +4 | AI | 8 | 4 |
| Temp 1 – | white | L | EL3104 | 16 | –4 | AI | 8 | 17 |
| PLL error signal + | green | L | EL3104 | 17 | +1 | AI | 7 | 1 |
| PLL error signal – | white | L | EL3104 | 17 | –1 | AI | 7 | 14 |
| PLL control signal + | green | L | EL3104 | 17 | +2 | AI | 7 | 2 |
| PLL control signal – | white | L | EL3104 | 17 | –2 | AI | 7 | 15 |
| Tune monitor + | green | L | EL3104 | 17 | +3 | AI | 8 | 10 |
| Tune monitor – | white | L | EL3104 | 17 | –3 | AI | 8 | 23 |
| Spare + | green | L | EL3104 | 17 | +4 | AI | 8 | 12 |
| Spare – | white | L | EL3104 | 17 | –4 | AI | 8 | 25 |
| Tune adjust + | blue | L | EL4132 | 18 | O1 | AO | 8 | 11 |
| Tune adjust – | yellow | L | EL4132 | 18 | COM | AO | 8 | 24 |
| PLL Offset adjust + | blue | L | EL4132 | 18 | O2 | AO | 7 | 3 |
| PLL Offset adjust – | yellow | L | EL4132 | 18 | COM | AO | 7 | 16 |
| SVRET_3 | black | L | EL1124 | 19 | – | P | 8 | 20 |
| SVRET_3 | black | L | EL1124 | 19 | – | P | 7 | 13 |
| Excitation switch | brown | L | EL1124 | 19 | I1 | BI | 8 | 9 |
| OK | brown | L | EL1124 | 19 | I2 | BI | 8 | 7 |
| PLL OK | brown | L | EL1124 | 19 | I3 | BI | 7 | 25 |
| | brown | L | EL1124 | 19 | I4 | BI | | |
| Excitation enable | orange | L | EL2124 | 20 | O1 | BO | 8 | 8 |
| | orange | L | EL2124 | 20 | O2 | BO | | |
| PLL input enable | orange | L | EL2124 | 20 | O3 | BO | 7 | 4 |
| PLL sign | orange | L | EL2124 | 20 | O4 | BO | 7 | 17 |
| PLL first compensation | orange | L | EL2124 | 21 | O1 | BO | 7 | 5 |
| PLL second compensation | orange | L | EL2124 | 21 | O2 | BO | 7 | 18 |
| PLL gain slider input 2 bit 0 | orange | L | EL2124 | 21 | O3 | BO | 7 | 6 |
| PLL gain slider input 2 bit 1 | orange | L | EL2124 | 21 | O4 | BO | 7 | 19 |
| PLL gain slider input 2 bit 2 | orange | L | EL2124 | 22 | O1 | BO | 7 | 7 |

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|-------------------------------|--------|---|--------|----|----|----|---|----|
| PLL gain slider input 2 bit 3 | orange | L | EL2124 | 22 | O2 | BO | 7 | 20 |
| PLL gain slider input 2 bit 4 | orange | L | EL2124 | 22 | O3 | BO | 7 | 8 |
| PLL gain slider input 2 bit 5 | orange | L | EL2124 | 22 | O4 | BO | 7 | 21 |
| PLL option | orange | L | EL2124 | 23 | O1 | BO | 7 | 9 |
| PLL output enable | orange | L | EL2124 | 23 | O2 | BO | 7 | 22 |
| PLL integrator | orange | L | EL2124 | 23 | O3 | BO | 7 | 10 |
| PLL generic filter | orange | L | EL2124 | 23 | O4 | BO | 7 | 23 |
| PLL VCO filter | orange | L | EL2124 | 24 | O1 | BO | 7 | 11 |
| PLL Low pass | orange | L | EL2124 | 24 | O2 | BO | 7 | 24 |
| PLL Excitation enable | orange | L | EL2124 | 24 | O3 | BO | 7 | 12 |
| | orange | L | EL2124 | 24 | O4 | BO | | |

| Corner Station Controls Chassis 6 | | | | Middle Rail | | | | |
|--|--------|------|--------|-------------|---------|-------|---------|-----|
| Name | Color | Rail | Module | Number | Channel | Type | Adapter | Pin |
| Power | | | | | | | | |
| 24V | violet | M | OMRON | DC_4 | 24V | P | TBLOCK | |
| 0V | gray | M | OMRON | DC_4 | 0V | P | TBLOCK | |
| 24V | violet | M | EK1100 | 0 | 24V | P | TBLOCK | |
| 0V | gray | M | EK1100 | 0 | 0V | P | TBLOCK | |
| 24V | violet | M | EK1100 | 0 | + | P | TBLOCK | |
| 0V | gray | M | EK1100 | 0 | - | P | TBLOCK | |
| 5V_4 | red | M | EL9190 | 3 | + | P | DC_4 | +V |
| 5VRET_4 | black | M | EL9190 | 3 | - | P | DC_4 | -V |
| 5V_5 | red | M | EL9190 | 9 | + | P | DC_5 | +V |
| 5VRET_5 | black | M | EL9190 | 9 | - | P | DC_5 | -V |
| 24V | violet | M | OMRON | DC_5 | 24V | P | TBLOCK | |
| 0V | gray | M | OMRON | DC_5 | 0V | P | TBLOCK | |
| Coupler | | | | | | | | |
| Output | CAT5 | M | EK1100 | 0 | X2 | Comm. | OUT | |
| Fast Shutter (see T1400687 for details) | | | | | | | | |
| High Voltage Ready Monitor | brown | M | EL1098 | 1 | I1 | BI | 6 | 1 |
| Status Monitor | brown | M | EL1098 | 1 | I2 | BI | 6 | 2 |
| Composite Fault | brown | M | EL1098 | 1 | I3 | BI | 6 | 3 |
| Spare 1 | brown | M | EL1098 | 1 | I4 | BI | 6 | 4 |
| Spare 2 | brown | M | EL1098 | 1 | I5 | BI | 6 | 5 |
| Spare 3 | brown | M | EL1098 | 1 | I6 | BI | 6 | 6 |
| Spare 4 | brown | M | EL1098 | 1 | I7 | BI | 6 | 7 |
| Spare 5 | brown | M | EL1098 | 1 | I8 | BI | 6 | 8 |
| Shutter Up Command (Block Beam) | orange | M | EL2004 | 2 | O1 | BO | 6 | 9 |
| 0V | grey | M | EL2004 | 2 | - | P | 6 | 14 |
| Shutter Down Command (Unblock Beam) | orange | M | EL2004 | 2 | O2 | BO | 6 | 10 |
| | | M | EL2004 | 2 | - | P | 6 | 15 |
| Spare 1 | orange | M | EL2004 | 2 | O3 | BO | 6 | 11 |
| | | M | EL2004 | 2 | - | P | 6 | 16 |
| Spare 2 | orange | M | EL2004 | 2 | O4 | BO | 6 | 12 |
| | | M | EL2004 | 2 | - | P | 6 | 17 |
| EOM Driver B | | | | | | | | |
| Bias 1 + | green | M | EL3104 | 4 | +11 | AI | 5 | 10 |
| Bias 1 - | white | M | EL3104 | 4 | -11 | AI | 5 | 23 |
| Bias 2 + | green | M | EL3104 | 4 | +12 | AI | 5 | 11 |
| Bias 2 - | white | M | EL3104 | 4 | -12 | AI | 5 | 24 |
| SlowControl + | green | M | EL3104 | 4 | +13 | AI | 5 | 12 |
| SlowControl - | white | M | EL3104 | 4 | -13 | AI | 5 | 25 |
| SP0 + | green | M | EL3104 | 4 | +14 | AI | 5 | 1 |
| SP0 - | white | M | EL3104 | 4 | -14 | AI | 5 | 22 |
| 5VRET_4 | black | M | EL1124 | 5 | - | P | 5 | 13 |
| Excitation enabled | brown | M | EL1124 | 5 | I1 | BI | 5 | 16 |
| RF On | brown | M | EL1124 | 5 | I2 | BI | 5 | 4 |
| Internal/External | brown | M | EL1124 | 5 | I3 | BI | 5 | 17 |
| OK | brown | M | EL1124 | 5 | I4 | BI | 5 | 5 |
| Excitation switch | orange | M | EL2124 | 6 | O1 | BO | 5 | 15 |
| Value enable | orange | M | EL2124 | 6 | O2 | BO | 5 | 3 |
| SP1 | orange | M | EL2124 | 6 | O3 | BO | 5 | 14 |
| SP2 | orange | M | EL2124 | 6 | O4 | BO | 5 | 2 |
| Value bit 0 | orange | M | EL2124 | 7 | O1 | BO | 5 | 18 |
| Value bit 1 | orange | M | EL2124 | 7 | O2 | BO | 5 | 6 |
| Value bit 2 | orange | M | EL2124 | 7 | O3 | BO | 5 | 19 |
| Value bit 3 | orange | M | EL2124 | 7 | O4 | BO | 5 | 7 |
| Value bit 4 | orange | M | EL2124 | 8 | O1 | BO | 5 | 20 |
| Value bit 5 | orange | M | EL2124 | 8 | O2 | BO | 5 | 8 |
| Value bit 6 | orange | M | EL2124 | 8 | O3 | BO | 5 | 21 |
| Value bit 7 | orange | M | EL2124 | 8 | O4 | BO | 5 | 9 |
| EOM Driver B | | | | | | | | |
| Bias 1 + | green | M | EL3104 | 10 | +11 | AI | 4 | 10 |
| Bias 1 - | white | M | EL3104 | 10 | -11 | AI | 4 | 23 |
| Bias 2 + | green | M | EL3104 | 10 | +12 | AI | 4 | 11 |
| Bias 2 - | white | M | EL3104 | 10 | -12 | AI | 4 | 24 |

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|--------------------|--------|---|--------|----|-----|----|---|----|
| SlowControl + | green | M | EL3104 | 10 | +13 | AI | 4 | 12 |
| SlowControl - | white | M | EL3104 | 10 | -13 | AI | 4 | 25 |
| SP0 + | green | M | EL3104 | 10 | +14 | AI | 4 | 1 |
| SP0 - | white | M | EL3104 | 10 | -14 | AI | 4 | 22 |
| SVRET_4 | black | M | EL1124 | 11 | - | P | 4 | 13 |
| Excitation enabled | brown | M | EL1124 | 11 | I1 | BI | 4 | 16 |
| RF On | brown | M | EL1124 | 11 | I2 | BI | 4 | 4 |
| Internal/External | brown | M | EL1124 | 11 | I3 | BI | 4 | 17 |
| OK | brown | M | EL1124 | 11 | I4 | BI | 4 | 5 |
| Excitation switch | orange | M | EL2124 | 12 | O1 | BO | 4 | 15 |
| Value enable | orange | M | EL2124 | 12 | O2 | BO | 4 | 3 |
| SP1 | orange | M | EL2124 | 12 | O3 | BO | 4 | 14 |
| SP2 | orange | M | EL2124 | 12 | O4 | BO | 4 | 2 |
| Value bit 0 | orange | M | EL2124 | 13 | O1 | BO | 4 | 18 |
| Value bit 1 | orange | M | EL2124 | 13 | O2 | BO | 4 | 6 |
| Value bit 2 | orange | M | EL2124 | 13 | O3 | BO | 4 | 19 |
| Value bit 3 | orange | M | EL2124 | 13 | O4 | BO | 4 | 7 |
| Value bit 4 | orange | M | EL2124 | 14 | O1 | BO | 4 | 20 |
| Value bit 5 | orange | M | EL2124 | 14 | O2 | BO | 4 | 8 |
| Value bit 6 | orange | M | EL2124 | 14 | O3 | BO | 4 | 21 |
| Value bit 7 | orange | M | EL2124 | 14 | O4 | BO | 4 | 9 |

| Corner Station Controls Chassis 6 | | | | Right Rail | | | | |
|--|--------------|-------------|---------------|-------------------|----------------|-------------|----------------|------------|
| Name | Color | Rail | Module | Number | Channel | Type | Adapter | Pin |