

V8 Lexus VVTI Ver 3.5E+

| Wire Colors | | | | | Mercury2 Layout | | | Software | | | Wire Colors | |
|---------------|--------------|----------------|------------|------------|-------------------------------|----|---|--------------|-------------|-----------|----------------|---------------|
| | | Priority3 | Priority2 | Priority1 | | | | Priority1 | Priority2 | Priority3 | | |
| M01-P1 | | MEX02-2 | | | P1 - 12 Way Input | | | | | | MEX02-2 | M01-P1 |
| Green | Red | | | | Water Temp | 7 | 1 | Air Temp | | | Red | Yellow |
| Red | Red | | | | Lambda | 8 | 2 | TPS | | | Blue | Blue |
| Red | Red | | | | +.5 Volt Out | 9 | 3 | MAP | | | Blue | Blue |
| Orange | Orange | | | | +.12 Volt Ign | 10 | 4 | GND | | | Black | Black |
| Yellow | Yellow | | | | TDC Sensor | 11 | 5 | Cam2 Sensor | | | Blue | N/C |
| Green | Green | | | | Crank Sensor | 12 | 6 | Cam1 Sensor | | | Red | N/C |
| M02-P2 | | MEX02-2 | | | P2 - 10 Way Output | | | | | | MEX02-2 | M02-P2 |
| Red/Yellow | Red/Yellow | | | Coil Drv 2 | P2 12 Volt | 6 | 1 | P1 12 Volt | Coil Drv 1 | | Red/White | Red/White |
| Red/Green | Red/Green | | | Coil Drv 4 | P4 12 Volt | 7 | 2 | P3 12 Volt | Coil Drv 3 | | Red/Orange | Red/Orange |
| Red/Black | Red/Black | | | Cam2 | P6 12 Volt | 8 | 3 | P5 12 Volt | Cam1 | | Red/Blue | Red/Blue |
| Blue/Black | N/C | | | | Electronic Relay | 9 | 4 | Relay Out | | | Blue | Blue/Red |
| Red | Red | | | | +.12 Volt In | 10 | 5 | +.12 Volt In | | | Red | Red |
| M03-P3 | | MEX02-2 | | | P3 - 8 Way Output | | | | | | MEX02-2 | M03-P3 |
| Black/Red | Black/Red | | GP5 | Inj Drv 6 | N6 Ground | 5 | 1 | N5 Ground | Inj Drv 5 | GP4 | Black/Purple | Black/Purple |
| Black/Brown | Black/Brown | | | Inj Drv 4 | N4 Ground | 6 | 2 | N3 Ground | Inj Drv 3 | | Black/Orange | Black/Orange |
| Black/Yellow | Black/Yellow | | | Inj Drv 2 | N2 Ground | 7 | 3 | N1 Ground | Inj Drv 1 | | Black/White | Black/White |
| Green | Green | | | | RPM Out | 8 | 4 | GP1 Out | GP1 | | Blue/Orange | Blue/Orange |
| M04-P4 | | MEX02-2 | | | P4 - 6 Way In/Output | | | | | | MEX02-2 | M04-P4 |
| Yellow | Yellow | | | | Fuel Sensor | 4 | 1 | GP2 Out | Intake Flap | | Blue/White | Blue/White |
| Blue | Blue | | | | POT | 5 | 2 | Altitude | | | Green | Green |
| Red | Red | | | | +.5 Volt Out | 6 | 3 | GND | | | Blue | Blue |
| M07-P5 | | MEX02-2 | | | P5 - 4 Way Output | | | | | | MEX02-2 | M07-P5 |
| Black/Yellow | Blue | | GP7 | Inj Drv 8 | N8 Ground | 3 | 1 | N7 Ground | Inj Drv 7 | GP6 | White | Black/White |
| Red/Yellow | Green | GP3 | Idle Valve | Micro Fuel | P8 12 Volt | 4 | 2 | P7 12 Volt | Fuel Pump | Dual Idle | GP2 | Yellow |
| USB | | | | | Comms - 6 Way USB/Firm | | | | | | USB | |
| | N/C | | | | Programmer 2 | 4 | 1 | Programmer 1 | | | N/C | |
| | Yellow | | | | Receive | 5 | 2 | Transmit | | | Green | |
| | Red | | | | +.5 Volt Out | 6 | 3 | GND | | | Blue | |

Note!! Coil and Injector numbers used here are firing phases from the ECU. It is not the actual firing order on your engine. Refer to the drawings for Phase to firing order comparison.