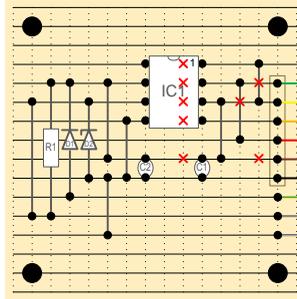# K-Line Interface using FTDI TTL-232R-5V Suzuki GSX-R 1000 K5/K6

26.02.2011 M. Rufer based on scheme by Dani_Duke

× unterbrechen / disconnect
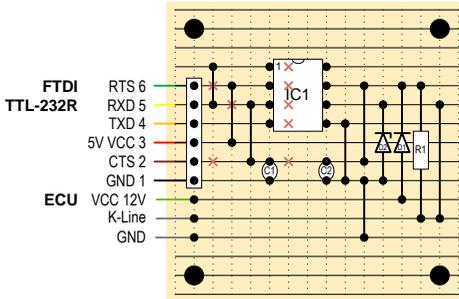
von unten (Lötseite) / bottom (solder side)

6 RTS **FTDI**
5 RXD **TTL-232R**
4 TXD
3 VCC 5V
2 CTS
1 GND

VCC 12V **ECU**
K-Line
GND

Materialliste:

C1, C2	Kondensator 100nF
D1	Diode 1N4148
D2	Z-Diode ZPD27
IC1	MCP2021-500
R1	Widerstand 510 Ohm
1x	FTDI USB TTL-232R-5V
1x	Lötstreifen Platine ca 16x16 Raster 2.54mm
1x	Stiftleiste Raster 2.54mm (mindestens 6 Stifte)
1x	Kabel min 3 Adern
1x	Stecker Sumimoto 6P090WP-MT

von oben (Komponenten) / top (component side)

FTDI RTS 6
TTL-232R RXD 5
TXD 4
5V VCC 3
CTS 2
GND 1
ECU VCC 12V
K-Line
GND

Order list:

C1, C2	Capacitor 100nF
D1	Diode 1N4148
D2	Z-Diode ZPD27
IC1	MCP2021-500
R1	Resistor 510 ohm
1x	FTDI USB TTL-232R-5V
1x	solder board about 16x16 1/10 inch hole spacing
1x	pin contact strip 1/10 inch (at least 6 pins in total)
1x	Cable with at least 3 strands
1x	Connector Sumimoto 6P090WP-MT

Verbindung zur ECU:
Connection to ECU:

connect to SDS connector (white)
Connector Type: Sumimoto 6P090WP-MT

1	*orange-green*	*VCC 12V*
2	white	serial out
3	white-red	dealer mode
4	brown	serial in
5	*grey*	*K-Line*
6	*black white*	*GND*