

Magneti Marelli Rev Limiter Module (AEC104 BK-660/780)

Components and PCB Diagram

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Rev Limiter Connector

1. +12V to Rev Limiter
2. Trigger/RPM signal to Rev Limiter
3. Spark disable signal from Rev Limiter
4. Tacho out signal from Rev Limiter

Components

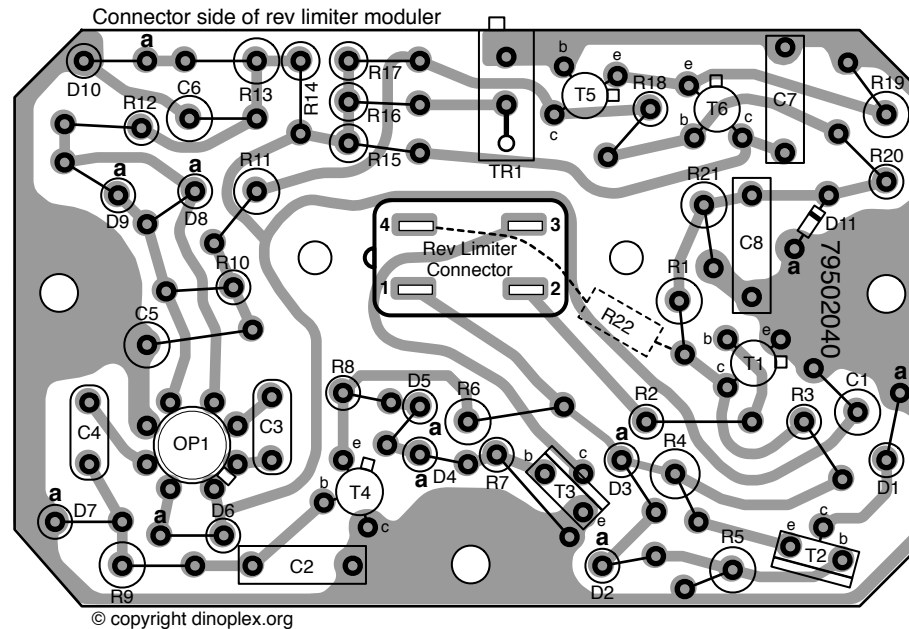
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|-----------------------|-------------------------|
| R1: 680 Ω | D1: 1N4737A |
| R2: 100Ω 5% | D2: Diode G1K |
| R3: 680Ω 5% | D3: Diode G1K |
| R4: 22.1Ω 1% | D4: Diode G1K |
| R5: 2,2KΩ | D5: Diode G1K |
| R6: 330Ω | D6: Diode G1K |
| R7: 220Ω 5% | D8: Diode G1K |
| R8: 220Ω 5% | D9: Diode G1K |
| R9: 7922 Dale | D9: Diode G1K |
| R10: 4.7K 0.5% | D10: Diode G1K |
| R11: 7873 Dale | D11: Diode C6 U2 |
| R12: 4.7K 0.5% | |
| R13: 8007 Dale | T1: 2N956 (NPN) |
| R14: 2K 5% | T2: TIP30A (PNP) |
| R15: 1K 5% | T3: TIP31C (NPN) |
| R16: 10K 5% | T4: BC177 (PNP) |
| R17: 470Ω 5% | T5: 2N956 (NPN) |
| R18: 22.1K 1% | T6: 2N956 (NPN) |
| R19: 7919 Dale | |
| R20: 22.1K 1% | OP1: MC1709G |
| R21: 1.5K 1% | |
| R22: 10K 5% | |
- TR1:** Bourns 3.5K Trimmer
- C1:** 10 uF 150D+-10% 20DC
C2: 047K 250V
C3: 10 pF 50V CM05CD-100D03
C4: 0.5pF CD
C5: 10 uF 150D+-10% 20DC
C6: 10 uF 150D+-10% 20DC
C7: .12 pF 100V
C8: 33 nF 250V

Calibration Procedure

1. Remove the module from the ignition unit.
2. Wire a 10K pull-up resistor between terminal 1 and terminal 3
3. Connect a square wave generator to terminal 2 and ground, the output amplitude should be set to 1V.
4. Connect a scope or multimeter to terminal 3 and ground.
5. Supply 12 V via terminal 1 and ground

On the scope/multimeter you should now see 12V below the set rev limit, and 0V above the rev limit.

Set the square wave generator output frequency to the desired RPM (660 HZ=6600 RPM, 780 HZ=7800 RPM), then adjust the trimmer TR1 until you get 0V on terminal 3.



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