



SPTRONICS

Spark Performance Electronics

Installation Instruction for IDI401
Ignition Driver

Warning

The IDI401 allows for total flexibility in engine tuning, misuse of this product will destroy your engine

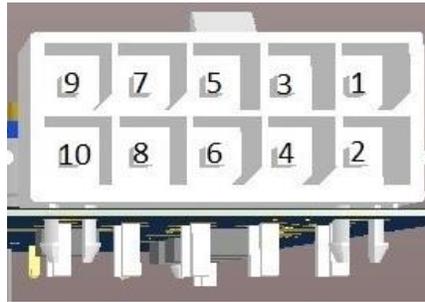
SPTRONICS holds no responsibility for any engine damage that may results from the misuse of this product

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IDI401 Specifications:

- Operating voltage 8 to 16v
- Maximum output current is 10 Amp
- Calmped output voltage at 380V
- Calmped energy at 275 mJ

Wiring Diagram:



Looking at PCB connectors

Pin	Name	Wire Color	Comment
1	Ignition 1 input	Yellow thin	
2	Ignition 2 input	Blue thin	
3	Ignition 3 input	Green thin	
4	Ignition 4 input	Red thin	
5	GND	Black	
6	GND	Black	
7	Ignition 1 output	Yellow thick	
8	Ignition 2 output	Blue thick	
9	Ignition 3 output	Green thick	
10	Ignition 4 output	Red thick	

Installation:

Grounding:

The IDI401 must have an electrically secure ground connection, which means that the battery negative must be properly grounded to the chassis AND engine. The ground wire, whether it is from the battery or to the chassis and engine, must have perfect electrical conductivity. This

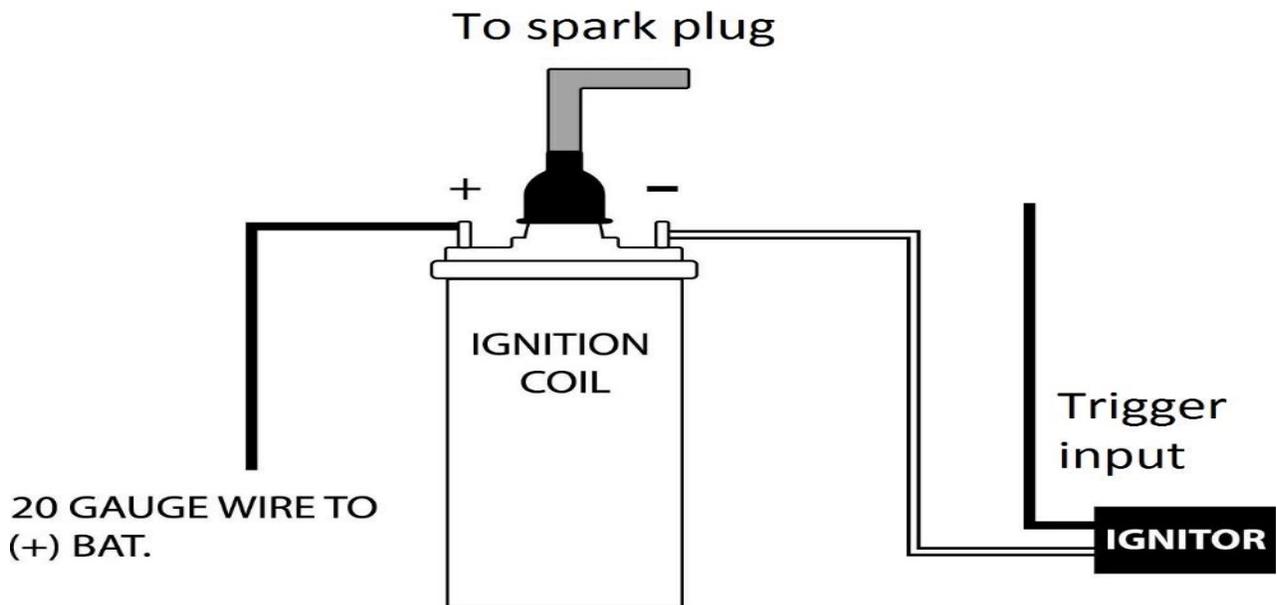
means that there must not be any paint or rust under the wire terminal. Make sure that when you install the ground wire there is bare metal exposed where the wire contacts the vehicle component. Both of black wires should be connected to secure ground and we also recommend that the ground wire be as short as possible.

Trigger Inputs:

IDI401 has four trigger inputs, which can be triggered from logic level input 5v or 12v, all inputs have pull down resistor.

Ignition Outputs:

All out can be connected to drive ignition coil with up to 10A. the input/output can be connected in parallel.



Warranty

SPTRONICS warrants to the consumer that all High Performance products will be free from defects in material and workmanship for a period of twelve (12) months from date of the original purchase. Products that fail within this 12-month warranty period will be repaired or replaced at SPTRONICS's option, when determined by SPTRONICS that the product failed due to defects in material or workmanship.

This warranty is limited to the repair or replacement of the SPTRONICS part. In no event shall this warranty exceed the original purchase price of the SPTRONICS part nor shall SPTRONICS be responsible for special, incidental or consequential damages or cost incurred due to the failure of this product. Warranty claims to SPTRONICS must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12-month warranty period. Improper use or installation, accident, abuse, unauthorized repairs or alterations voids this warranty. SPTRONICS disclaims any liability for consequential damages due to breach of any written or implied warranty on all products manufactured by SPTRONICS.

SPTRONICS will not be responsible for electronic products that are installed incorrectly, installed in a non-approved application, misused, or tampered with.

Any SPTRONICS electronics product can be returned for repair if it is out of the warranty period.

There is a minimum charge of \$20.00 for inspection and diagnosis of SPTRONICS electronic parts. Parts used in the repair of SPTRONICS electronic components will be extra.

SPTRONICS will provide an estimate of repairs and receive written or electronic authorization before repairs are made to the product.