

## AUTRONIC 500R CDI

4 Channel direct fire Capacitor Discharge Ignition system
2 Channel simultaneous discharge
2 Power settings
Second spark capable
Tacho output



Order: 500R CDI or 500R Kit that includes CDI, Connector set with pins & seals

## AUTRONIC 500R CDI Configuration overview

Feature	Configuration (for HF suffix serial numbers)	
4 Output channels	Direct fire non-waste spark on up to 4 cylinder engines	
	Direct fire on 2 rotor rotary engines	
	Waste spark fire on up to 8 cylinder engines (4-stroke only)	
2 Internal ignition units for simultaneous or split	Twin spark plug per cylinder engines or rotary engines	
triggering of two output channels	Split timing between plugs in same cylinder or rotor	
Two output power levels selectable by either	Low power 1 <sup>st</sup> spark - 100 mJ	
switch or ECU control	High power 1st spark – 125 mJ	
Second spark for low RPM	Second spark capability (RPM/Simultaneous/Split dependent)	
	Can be inhibited by trigger signal pulse time if required	
Triggering by -ve (negative) signal edge	Same triggering as most conventional transistor type ignition modules	
Tacho output	12v square wave for electronic tachometers	
EMC compatibility (C-Tick compliant)	Shielded / twisted cables NOT required for installation	



## AUTRONIC 500R CDI Detailed Specifications

Double Spark Mode	1st spark (High power setting)	500 volts, 125 mJ to 480Hz (8cyl @ 7200 RPM)
Output Voltage & Energy per spark @		
13.8v minimum supply voltage (Hr	1st speck (Low power setting)	450 valta 100 m T to 570 /= (8avil @ 8500 DDM)
Note: Double spark mode not	Ist spark (Low power setting)	450 VOTIS, 100 MJ 10 570HZ (8691 @ 8500 RPM)
permitted above 733Hz (8cyl @ 11000		
RPM)	2nd spark (Both settings)	350 volts. 60 mJ
Single Spark Mode	High power setting	500 volts, 125 mJ to 800Hz (8cyl @ 12000 RPM)
Output Voltage & Energy per spark	51 5	
(Max RPM) @ 13.8v minimum supply	Low power setting	450 volts, 100 mJ to 1KHz (8cyl @ 15000 RPM)
voltage (HF version)		
	Both settings	350 volts, > 60 mJ to 1.5KHz (8cyl @ 22500 RPM)
2nd spark delay @ 13.8v minimum (HF		0.65 msec after 1 <sup>st</sup> spark (typical)
version)		
Primary side voltage rise time		0.22 usec (typical)
Trigger Inputs	Input low threshold voltage	< 1.7 volts
(Passive pull-up type. Compatible with	Input high threshold voltage	
open collector and push-pull output types)	Input low current	> 2.7 volts
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Survival limit	> -13 mA
		+/-24 volts (< 5 minutes)
Techemeter O/D rules width		+/- 300 Volts (< 10 USEC)
Pawan Supply Valtage	Openetienel limite (including	6.2 to 20 valta DC continuous
Power Supply - Voltage	Operational limits (including	12 volte DC minimum required for operation up to
	start-up)	670Hz (Double spark) 1340Hz (Single spark)
		or or iz (bouble spark), 13-or iz (Single spark)
	Survival limits	+/- 23 volts (< 5 minutes)
		Outside +/-23 volt limits:
		> 60 A (Load dump < 20 mSEC)
		<ul> <li>10 A (Inductive surge &lt; 1 mSEC)</li> <li>10 A (Inductive surge &lt; 100 uSEC)</li> </ul>
		(Inductive surge (IOUUSEC)
Power Supply - Current	Off	< 10 uA
	Engine stopped	< 200 mA
	At maximum spark rate	< 13 Amp
Operating temperature range	Limits	-25 deg C to +85 deg C
Storage temperature range	Limits	-25 deg C to +105 deg C
Dimensions	Case	180 * 140 * 50mm
	Overall	200 * 140 * 50mm
Weight		0.75 kg
Connector		18 way splash & dust proof