

altronic® II

IGNITION SYSTEM FOR LARGE ENGINES

- APPLICABLE TO ALL
LARGE GAS ENGINES
3-20 CYLINDERS
- CAPACITOR DISCHARGE
ELECTRONIC IGNITION
- BASE OR FLANGE MOUNTING
- 35-50 RPM CRANKING SPEED
- STANDARD AND HIGH-OUTPUT
ENERGY LEVELS AVAILABLE



Certified
CLASS I, GROUP D, DIVISION 2



Approved

Altronic II is an alternator-powered, capacitor discharge ignition system for 3 to 20 cylinder, 2 or 4-cycle, low speed, high BMEP engines. Powered from a 12-pole permanent magnet alternator, Altronic II provides superior performance throughout the engine's operating range. Its basic design features - permanent magnet alternator; easily serviced, removable back cover containing all electronics; and simple, reliable electronic circuitry - have made Altronic II the standard of the industry on large, slow speed industrial gas engines.

Mechanical design is consistent with the long life inherent in the electronic circuitry. Sealed ball

bearings are used throughout. Gears drive only the distributor magnet assembly. The alternator has a smooth rotating cycle and flexible coupling which contribute to prolonged bearing and gear life.

Complete Altronic II ignition systems include the Altronic II unit, harness and a choice of three ignition coils: unshielded, shielded and integral. Altronic also offers a complete selection of shielded primary and spark plug lead assemblies. Altronic II can directly mount to most base mount magneto drives and to the standard SAE flange configuration. Available drive adaptors allow easy replacement of other older systems.

EASE OF INSTALLATION

Altronic II is adaptable to all large, slow speed gas engines. The Altronic II unit is available in both flange and base mount versions with four different internal gear ratios. This allows replacement of most other types of ignition systems (magnetos, battery interruptor, Pulse Generator, Pulse-Tronic, CB-5) without the need for gear boxes or other means to change the drive ratio. Units are also available to connect to mechanical timing devices to change ignition timing during engine operation. A single Altronic II unit handles most odd firing angles with no limitation on minimum firing angle.

Altronic II
Alternator Section

Altronic II
Back Cover



SUPER

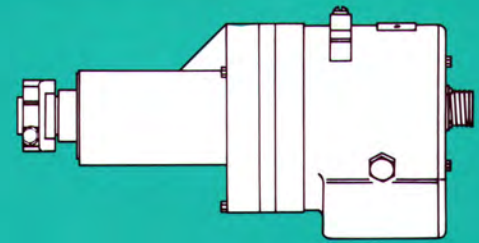
Altronic II provides
operating range.
RPM (single coil)
the 12-pole perm

IGNITION C
2 COILS - PAR

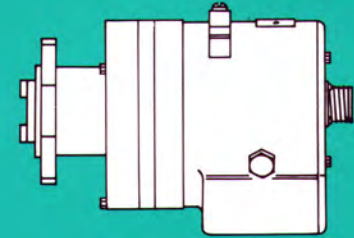
291 001
291 001-S

ENGINE TYPE	AVAILABLE DRIVE RATIO
2-Cycle	1:1, 2:1, 2.5:1, 3:1
4-Cycle	0.5:1, 1:1, 1.25:1, 1.5:1

COUPLING TYPE	FLANGE MOUNT	BASE MOUNT
Lug Coupling	-A	
Flex Coupling	-AL	-EL
Gear-flex Coupling	-AN	-EN



Base mount unit



Flange mount unit

LOW MAINTENANCE DESIGN AND EASE OF SERVICE

Altronic II has been designed to be as maintenance-free as possible. Thousands of Altronic II units in successful field operations since 1967 have resulted in a design evolution to the present field-proven form. All bearings are sealed ball bearings. The internal gears are large and underloaded. When service is required, Altronic II is designed to make it easy. All electronic components are mounted on the Back Cover assembly which is easily removed from the Alternator section of the unit.

OR PERFORMANCE

Strong performance over the entire engine low starting speed capability typically of 350 RPM (dual coil) is made possible by permanent magnet alternator. Delivered spark

duration at typical engine KV demand levels is a critical factor for smooth, consistent engine performance. The Altronic II system gives approximately 300 μ sec duration - sufficient for today's modern slow speed gas engines.

STANDARD OUTPUT MAX. KV SPARK DURATION	HIGH OUTPUT MAX. KV SPARK DURATION
30 KV 280 μ sec @ 10KV	35 KV 325 μ sec @ 10KV

UNSHIELDED COIL
291 001



SHIELDED COIL
291 001-S



INTEGRAL COIL
591 008



ALTRONIC II IGNITION COILS

Altronic ignition coils cover all application requirements, unshielded or shielded. Shielded coils are available in the external type and the integral coil series mounting directly to 1" -20 spark plugs.

ALTRONIC II APPLICATIONS

- CLARK*
- COOPER BESSEMER*
- DE LAVAL
- GEC-RUSTON*
- INGERSOLL RAND*
- MWM*
- NORDBERG
- THOMASSEN
- WORTHINGTON

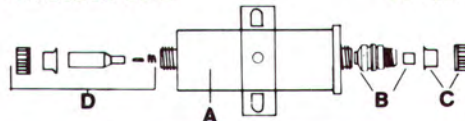
*Used on OEM basis by this engine manufacturer.

SHIELDED COMPONENTS

Shown below are the various shielded coil assembly and lead options. Altronic primary and spark plug cables are fabricated from teflon tubing covered with stainless steel braid.

SHIELDED COIL

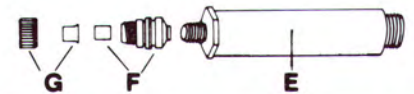
291 001-S



COIL NO.	DESCRIPTION	INCLUDES
291 001-S	Shielded Coil - Standard	A
291 001-S-2	Coil w/Pri. & Sec. Fittings	A+B+C+D
291 001-S-5	Coil w/Sec. Fittings	A+D

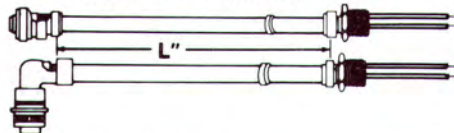
INTEGRAL COIL

591 008



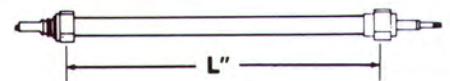
COIL NO.	DESCRIPTION	INCLUDES
591 008	Coil 1" - 20 x 5.6" Lg.	E
591 008-2	Coil w/Pri. Fittings	E+F+G

SHIELDED PRIMARY CABLE



PART NO.	CONNECTOR TYPE	LENGTH L"
593022-L"	Straight	6", 9", 12", 15", 18"
		24", 30", 36", 42"
593027-L"	Right Angle	48", 54", 60", 72"

SHIELDED SPARK PLUG LEAD



PART NO.	SPARK PLUG-WELL DEPTH	LENGTH L"
593020-L"	3/4" - 20 1"	10", 13"
	3/4" - 20 2"	16", 18"

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inc.

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