

# Altronic V<sup>NG</sup>

## Ignition System for 1-6 Cylinder Engines

- Eliminates magneto, breaker points and impulse coupling
- Capacitor discharge electronic ignition
- Alternator unit with self-contained timing and distribution
- Extended spark plug life
- Superior ignition performance
- Easy to service – plug-in modules and removable back cover
- CSA-certified for Class I, Division 2, Group D hazardous areas

Altronic V<sup>NG</sup> is a self-powered, low-tension, capacitor discharge ignition system for 1 to 6 cylinder, 2 or 4-cycle engines. The Altronic V<sup>NG</sup> unit can be furnished with any number of output channels between 1 and 6. For 4-cycle applications, a choice is offered of units using the exhaust stroke firing principle or units firing on the compression stroke only. Altronic V<sup>NG</sup> has internal timing pick-up coils combined with Altronic's proven 8-pole permanent magnet alternator to give high output at low engine cranking speeds. The electronic circuit has a minimum of components for maximum reliability, and all are mounted on the unit's removable back cover for ease of service.

The combination alternator/timing-distribution unit design allows for a simple installation, directly replacing high and low-tension, breaker-type magnetos. A wiring harness and one ignition coil per cylinder complete the system.

Options available for the Altronic V<sup>NG</sup> ignition system include long spark duration coils and electronic timing capability to allow the user to customize the system to his particular application requirements.



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CERTIFIED  
CLASS I, DIV 2  
GROUP D

Factory  
Mutual  
System  
APPROVED

# Superior Performance

Altronic has been at the forefront of ignition technology leadership. The Altronic V<sup>NG</sup> continues in this tradition by providing a total performance unequalled in its class. Compare the operating parameters listed below with any other system. Of all ignition performance factors, the delivered spark duration at a typical engine KV on demand is most important for smooth, consistent engine performance. The standard coil of the Altronic V<sup>NG</sup> gives comparable spark duration to other manufacturer's long duration coils. Altronic's long duration coil, 591010, provides the extended duration required for lean mixture or non-standard fuel applications.

IGNITION COIL	MAX. KV OPEN CIRCUIT	SPARK DURATION AT 10KV
Standard - 501061	34KV	360 usec
Long Duration - 591010	34KV	800 usec
Integral - 591007	28KV	320 usec

# Low Maintenance Design and Ease of Service

Altronic V<sup>NG</sup> shares a maintenance free design with the original Altronic V, which counts thousands of units in successful field operations since 1981. Internal gears are large and underloaded, so when service is required, Altronic V<sup>NG</sup> makes it easy. All electronic components are mounted on the back cover assembly which is easily removed from the alternator section of the unit.



Altronic V<sup>NG</sup> with Cover Removed

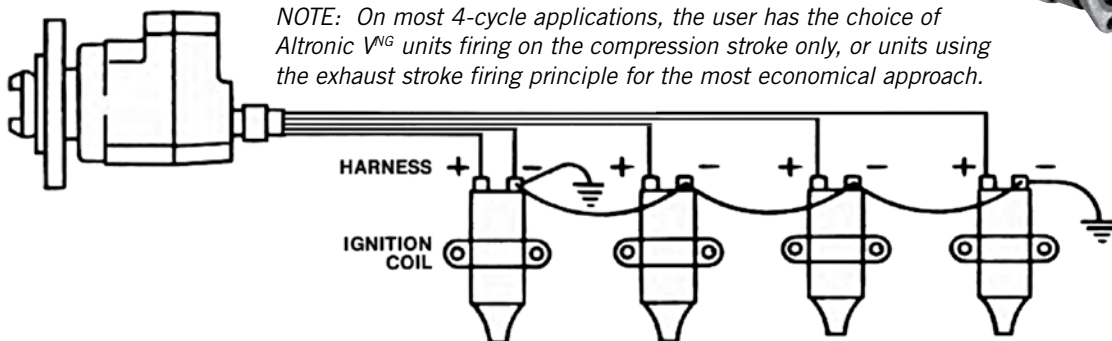
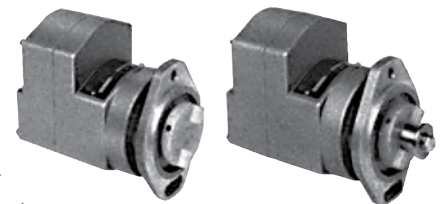
# Ease of Installation

Altronic V<sup>NG</sup> is internally timed and very compact, allowing ease of installation on virtually any industrial engine with a magneto drive. Altronic V<sup>NG</sup> is available in a choice of mounting flanges and engine drive ratios. This gives engine users and manufacturers wide flexibility in applying the system. Available options are designated in the charts below.

NUMBER OF CYLINDERS	2-CYCLE DRIVE RATIOS*	4-CYCLE DRIVE RATIOS*
1	1:1, 2:1, 3:1	0.5:1, 1:1, 1.5:1
2	1:1, 2:1, 3:1	0.5:1, 1:1, 1.5:1
3	2:1, 3:1	1:1, 1.5:1
4	2:1, 3:1	1:1, 1.5:1
5	—	1:1, 1.5:1
6	—	1:1, 1.5:1

\* Altronic VNG RPM : Engine RPM

MOUNTING FLANGE	STANDARD SHAFT COUPLING DRIVEN	EXTENDED SHAFT GEAR DRIVEN
1 slot, 3.250" pilot	-A	-AW
2 slots, 3.250" pilot	-GV	-GVW
1 slot, 3.000" pilot	-D	—



## Altronic Ignition Coils

Altronic ignition coils cover all application requirements, unshielded or shielded. The standard coils are recommended for most applications; where lean fuel mixture or low-BTU gas is encountered, the long spark duration versions are available.

### UNSHIELDED COILS

501061 – Standard  
591010 – Long Duration



**501061-S**  
**SHIELDED COIL**  
Standard

**591010-S**  
**SHIELDED COIL**  
Long-duration



**591007 INTEGRAL COIL**  
1"-20 thread, 5.6" length



## Accessories



**DTHO-1201/DTHO-3201**  
**UNIVERSAL DIGITAL**  
**TACHOMETERS**

**Includes integral overspeed trip and hourmeter.** Precise digital readout,  $\pm 1$  RPM accuracy. Operates from Altronic VNG ignition—no other signal required.

## Applications

AJAX  
ALLIS CHALMERS  
ARIEL\*  
CATERPILLAR  
CONTINENTAL  
CUMMINS\*  
DEUTZ\*  
DORMAN\*  
INTERNATIONAL HARVESTER  
JENBACHER\*  
LUFKIN  
MINNEAPOLIS MOLINE\*  
OILWELL  
WAUKESHA\*  
WHITE\*

\*Used on OEM basis by this engine manufacturer.

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