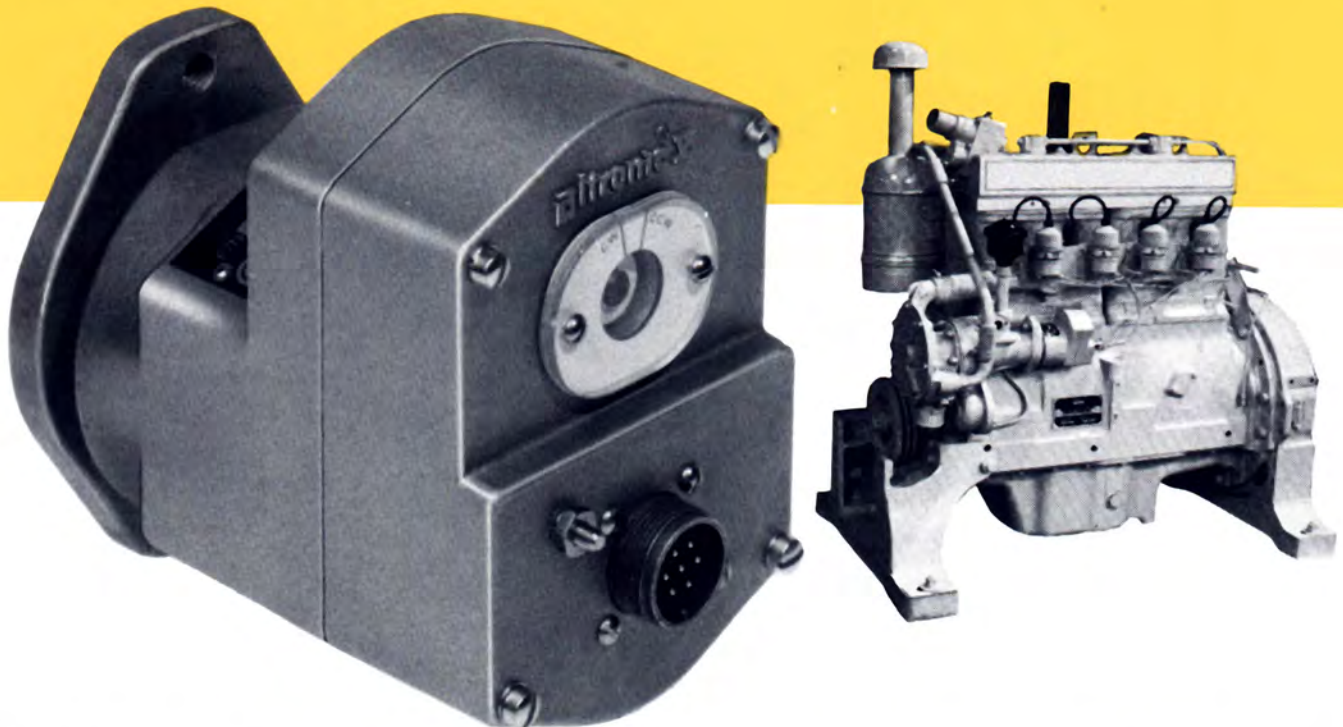


# altronic® V

## 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



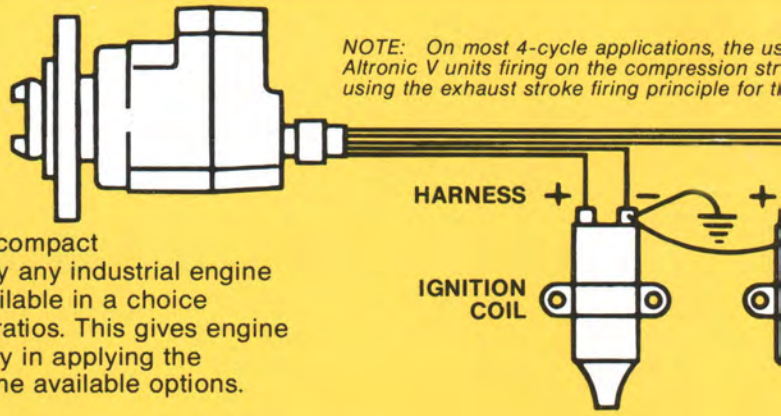
Altronic V is a self-powered, low-tension, capacitor discharge ignition system for 1 to 6 cylinder, 2 or 4-cycle engines. The Altronic V unit can be furnished with any number of output channels between 1 and 6. For 4-cycle applications, a choice is offered of units using the exhaust stroke firing principle or units firing on the compression stroke only. Altronic V 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.

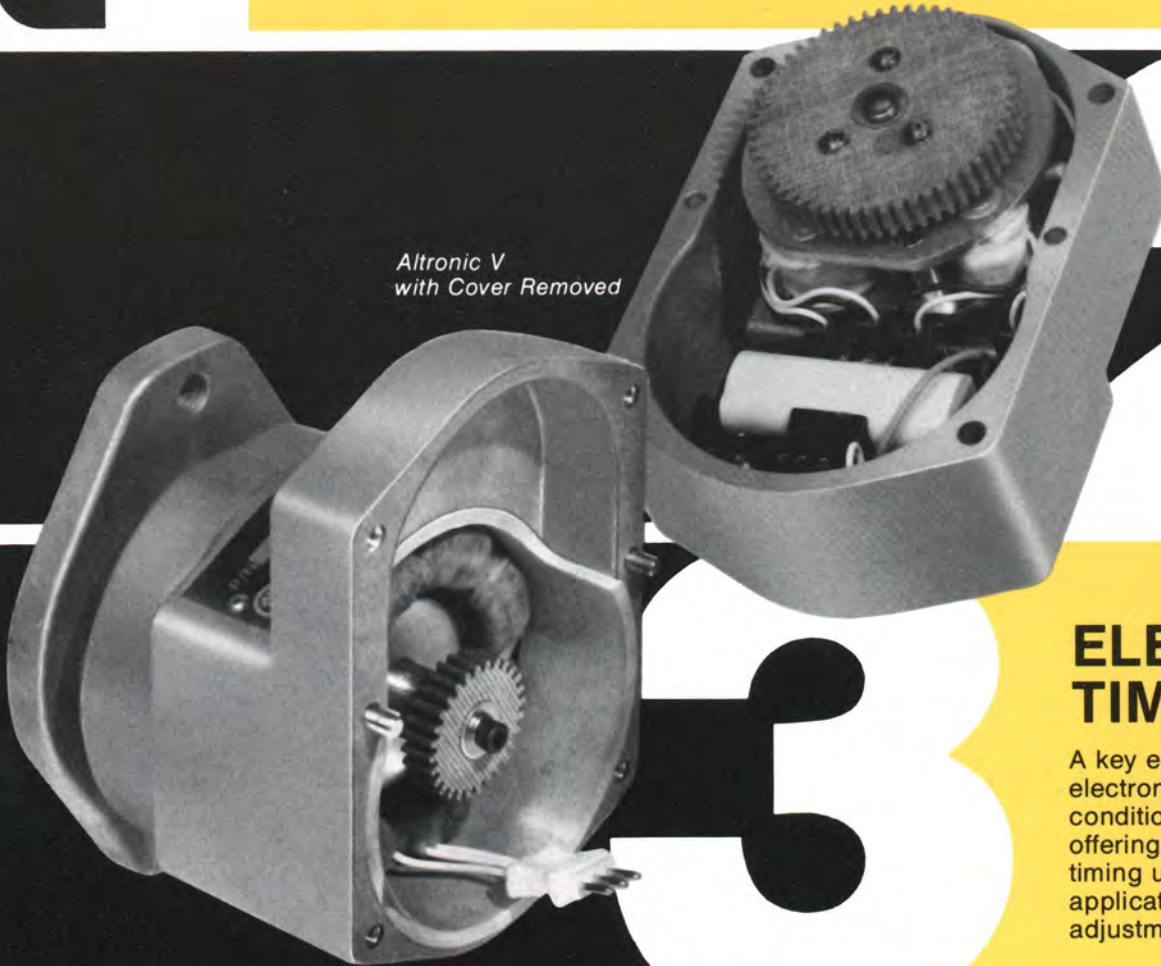
Options available for the Altronic V ignition system include long spark duration coils and electronic timing capability to allow the user to customize the system to his particular application requirements.

## EASE OF INSTALLATION

Altronic V is internally timed and very compact allowing ease of installation on virtually any industrial engine with a magneto drive. Altronic V is available in a choice of mounting flanges and engine drive ratios. This gives engine users and manufacturers wide flexibility in applying the system. The charts at right designate the available options.



Altronic V  
with Cover Removed



## ELECTRONIC TIMING CAPABILITY

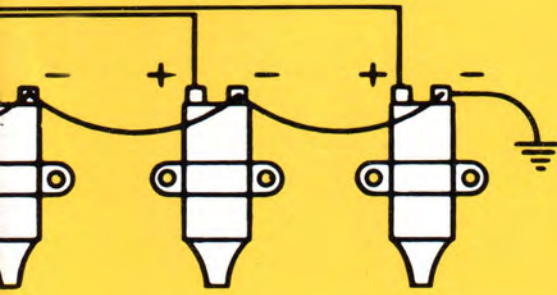
A key element for the future is the ability to adjust engine timing electronically to optimize engine performance under various operating conditions. Altronic V has been designed to provide this capability, offering an adjustment range of up to 25 degrees. The timing unit pictured below is designed for applications requiring two different ignition timing settings. An adjustment screw is used to set the desired timing.

## SUPERIOR PERFORMANCE

Altronic has been at the forefront of ignition technology leadership. The Altronic V continues to provide a total performance unequalled in its class. Compare the operating parameters of the Altronic V system. Of all ignition performance factors, the delivered spark duration at a typical engine KV is the most important for smooth, consistent engine performance. Altronic V's standard coil gives comparable spark duration to the manufacturer's long duration coils. Altronic's long duration coil 591 010 truly gives the extended spark duration for mixture or non-standard fuel applications.

IGNITION COIL	MAX. KV OPEN CIRCUIT	SPARK DURATION AT 10KV
Standard - 501 061	34KV	180 usec.
Long Duration - 591 010	34KV	450 usec.
Integral - 591 007	28KV	150 usec.

has the choice of  
 re only, or units  
 most economical approach.



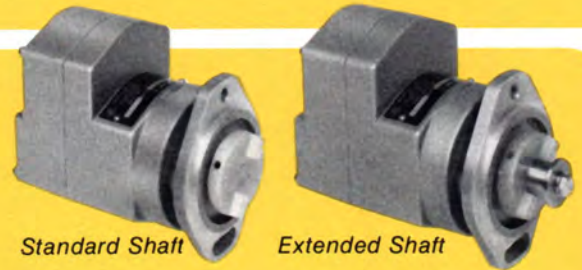
No. of Cylinders	2-cycle Drive Ratios*	4-cycle Drive Ratios*
1	1:1, 2:1, 3:1	0.5:1, 1:1, 1.5:1
2	1:1, 2:1, 3:1	0.5:1, 1:1, 1.5:1
3	2:1, 3:1	1:1, 1.5:1
4	2:1, 3:1	1:1, 1.5:1
5	-	1:1, 1.5:1
6	-	1:1, 1.5:1

\* Altronic V 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	

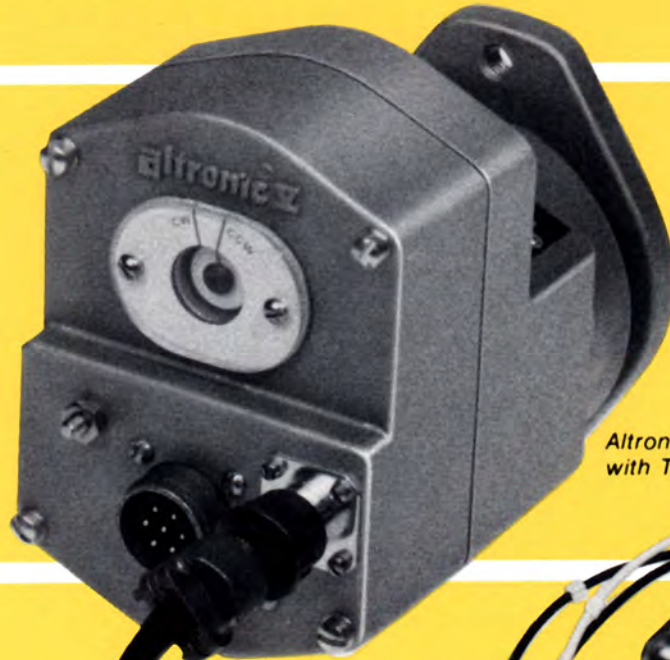
## LOW-MAINTENANCE DESIGN AND EASE OF SERVICE

Altronic V has been designed to be as maintenance-free as possible. Thousands of Altronic V units in successful field operations since 1981 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, the Altronic V 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.



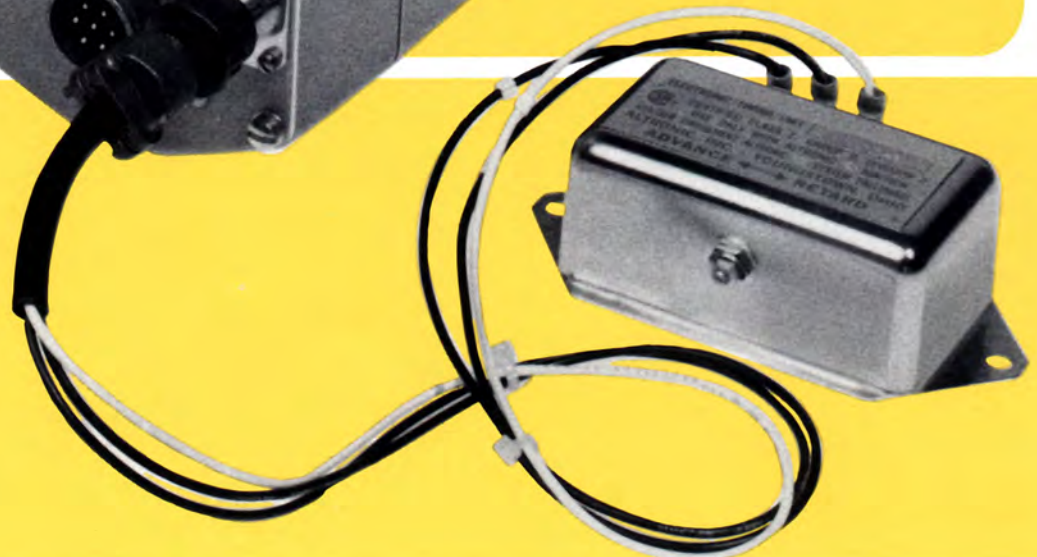
## TY

to control ignition timing  
 ance under various operating  
 with this requirement in mind  
 engine degrees. The 581 603  
 or a dual-gas or dual-load  
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Altronic V  
 with Timing Unit

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 rk duration to other  
 d duration required for lean



## UNSHIELDED COILS

501 061  
STANDARD  
591 010  
LONG DURATION



## SHIELDED COILS

501 061-S  
STANDARD  
591 010-S  
LONG DURATION



## INTEGRAL COIL

591 007



## 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.



CERTIFIED APPROVED  
CLASS I, GROUP D, DIVISION 2

## ALTRONIC V APPLICATIONS

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

\*Used on OEM basis by this engine manufacturer.

## ACCESSORY EQUIPMENT



DT-3200  
DIGITAL TACHOMETER  
DTH-3200  
DIGITAL TACH/HOURMETER  
DTO-3200  
DIGITAL TACH W/OVERSPEED

Precise, digital readout  $\pm 1$  RPM accuracy.  
Operates from Altronic V ignition - no other signal required.  
Combination models add hourmeter or overspeed function.

**altronic<sup>®</sup>**  
**inc.**

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