

# CD1

## 12–24VDC Powered Ignition System

- Applies to 1-8 cylinder engines
- Low-cost industrial system
- Capacitor-discharge, high-energy spark
- Accurate timing - crankshaft-referenced
- No moving parts - eliminates distributor
- 12-24VDC powered
- Built-in diagnostics

CD1 is a capacitor-discharge, electronic microcircuit-based ignition system for small 1 to 8 cylinder industrial engines. The system, powered from 12-24VDC, has no moving parts. Step-up coils, are used to eliminate the conventional high-tension distributor.

Employing digital circuitry, the CD1 unit processes signals from a magnetic pickup, sensing drilled reference holes or protrusions. This provides accurate and consistent timing referenced directly to the engine's crankshaft or camshaft. The CD1 uses the high energy, capacitor discharge (C.D.) principle which provides maximum engine performance and can extend spark plug life three to five times compared to an inductive system.

The CD1 system can be applied in either single-firing or double-firing (exhaust stroke firing) modes. Four CD1 units are offered having 3, 4, 6 or 8 outputs:

- 791010-3 for 1 to 6 cylinder engines, double-firing system
- 791010-4 for 1 to 8 cylinder engines, double-firing system
- 791010-6 for 3 to 6 cylinder engines, single-firing system
- 791010-8 for 4 to 8 cylinder engines, single-firing system

All operate from either 12 or 24VDC keeping stocking requirements to a minimum. Indicating LED's quickly convey whether proper pickup signals are being received and if the corresponding output signals are correct.

The low cost CD1 system brings the quality and benefits of an industrial, capacitor-discharge ignition to small engine users.



# CD1 System

## UNIVERSAL KITS

ENGINE TYPE	CD1 KIT	CD1 UNIT	HARNESS	PICKUP
DOUBLE-FIRING KITS (LESS COILS):				
1-6 Cylinder	CD100	791010-3	793035-1	791015-1
1-6 Cylinder	CD100-2	791010-3	793035-1	791016-2
1-8 Cylinder	CD100A	791010-4	793039-1	791015-1
1-8 Cylinder	CD100A-2	791010-4	793039-1	791016-2
SINGLE-FIRING KITS (LESS COILS):				
3-6 Cylinder	CD100B	791010-6	793048-6	791015-1
3-6 Cylinder	CD100B-2	791010-6	793048-6	791016-2

NOTE: Use unit 791010-4 in place of 791010-3 where a C.D. ignition shutdown lead is desired.

## CD1 COMPONENTS

PART NO.	DESCRIPTION
791010-3	CD1 unit, 3 output
791010-4	CD1 unit, 4 output
791010-6	CD1 unit, 6 output
791010-8	CD1 unit, 8 output
791015-1	Magnetic pickup, 3/4-16 x 1.9"
791016-2	Magnetic pickup, 3/4-16 x 3.4"
793035-1	Harness, 3 output, 72"
793039-1	Harness, 4 output, 72"
793048-6	Harness, 6 output, 72"
793048-8	Harness, 8 output, 72"
501061	Ignition coil, blue (use with all units)
591040	Ignition coil, black (use with all units)

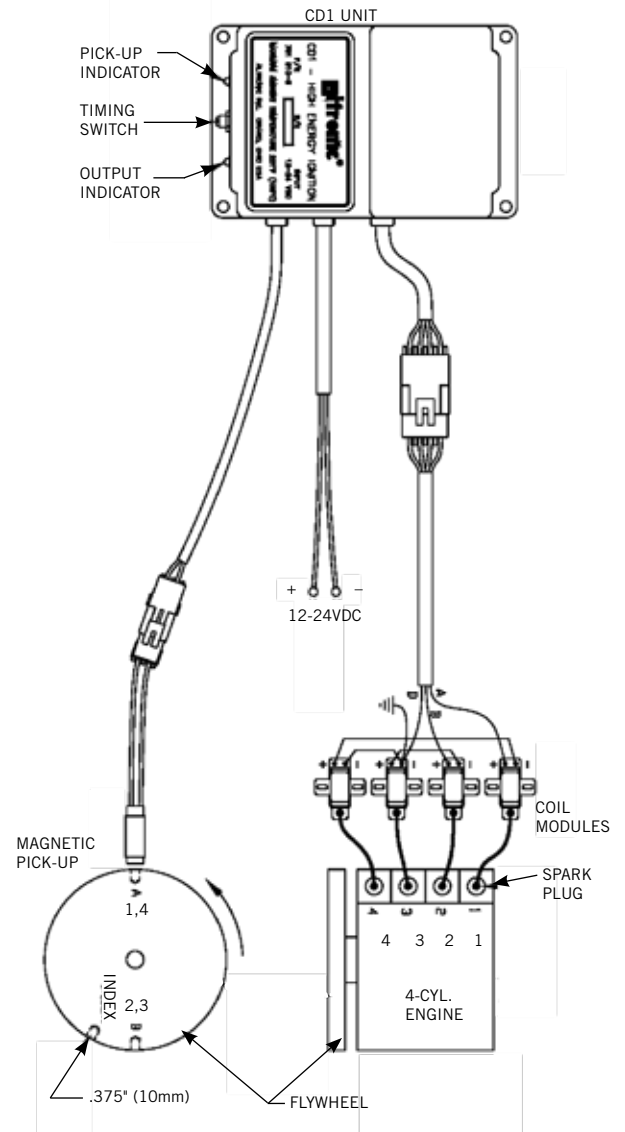
## Specifications

- No. of cylinders..... 1-8
- Power required ..... 12VDC, 1.0Amp  
24VDC, 0.5Amp
- Max. voltage output ..... 40KV
- Spark duration ..... 300-600 microsec.
- Timing adjustment ..... 8-position switch



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# CD1 System, 4-Cylinder



## Dimensions

