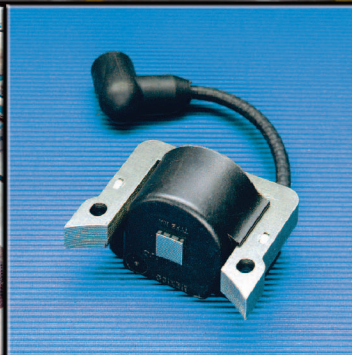
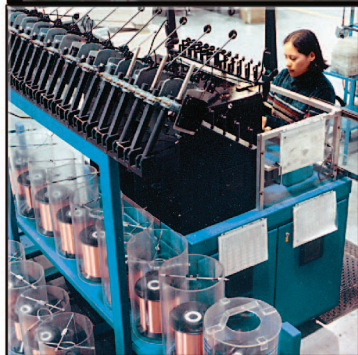
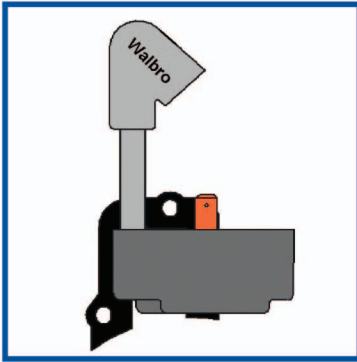


WALBRO IGNITION MODULES



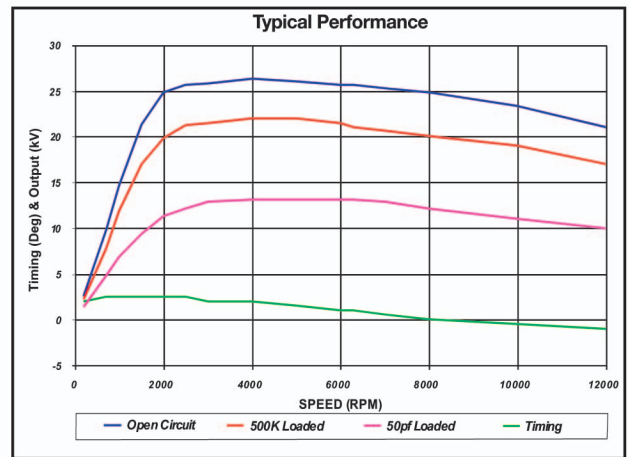
MA Standard



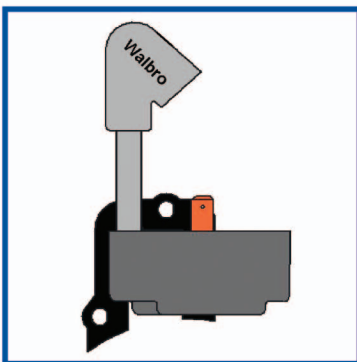
Basic module designed for high volume, low cost trimmers and chain saws.

Features available:

- Analog timing advance, improved low-end output performance, easier starting
- Speed governing
 - Safety/warranty driven
- Three-second kill function
- Ramp-type timing improved power at higher RPM
- Microprocessor capability

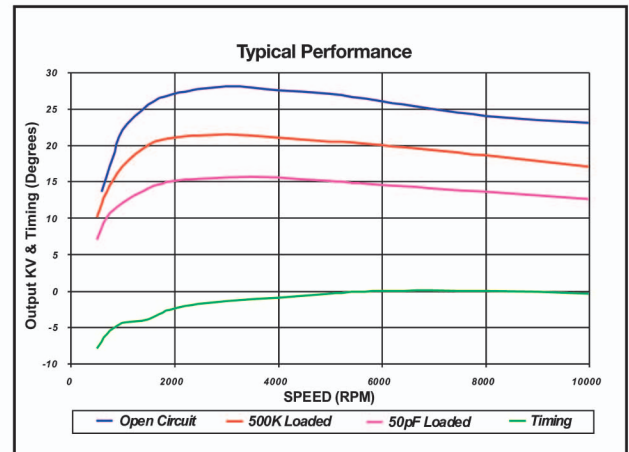


MA Easy start with positive off and auto on

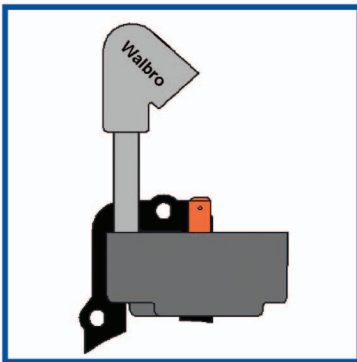


Ignition Module Parameters

- Improved low-end output performance, easier starting
- Timing advance at starting, eliminates kick back
- Momentary Kill function, Positive Off, Auto On
 - Warranty driven
- Patent received

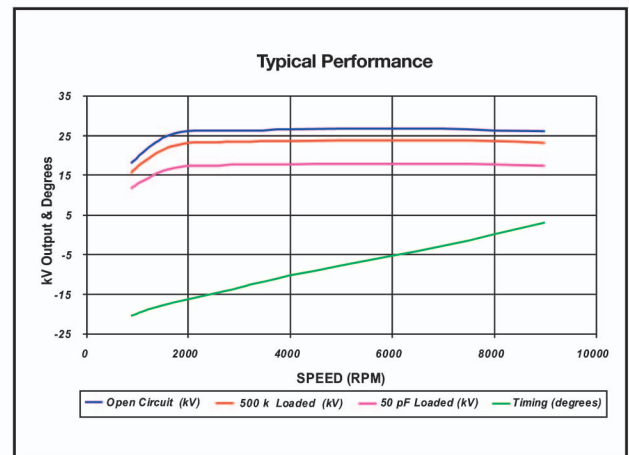


MA Linear timing with speed governing

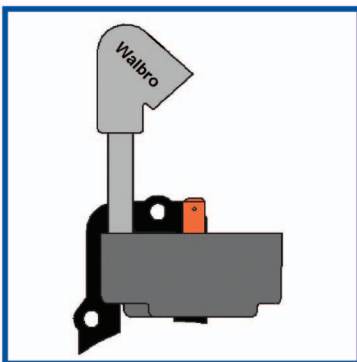


Ignition Module Parameters

- Speed governing with no loss of spark energy
- Ramp timing, improved power at higher RPM
- Longer spark duration
- Improved low-end output performance, easier starting
- Spark to kill terminal protection
- Patent received

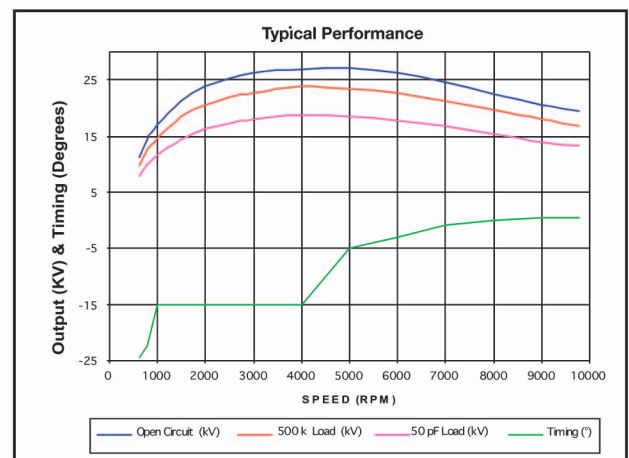


MA Digital

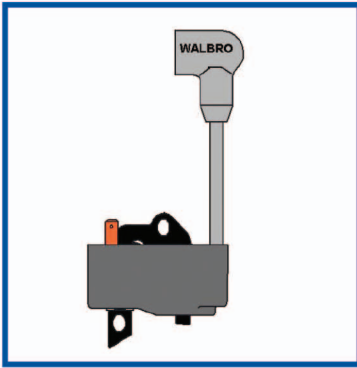


Ignition Module Parameters

- Timing advance, customized
- Precise speed governing, ± 300 RPM
 - Unaffected by air gap
 - Unaffected by flywheel magnet flux level
 - Unaffected by temperature
- Momentary kill function
- Smart on-board intelligence, idle feedback stability
- Precise cut-in
- Improved low-end output performance, easier starting
- Lower cost approach, self-powering



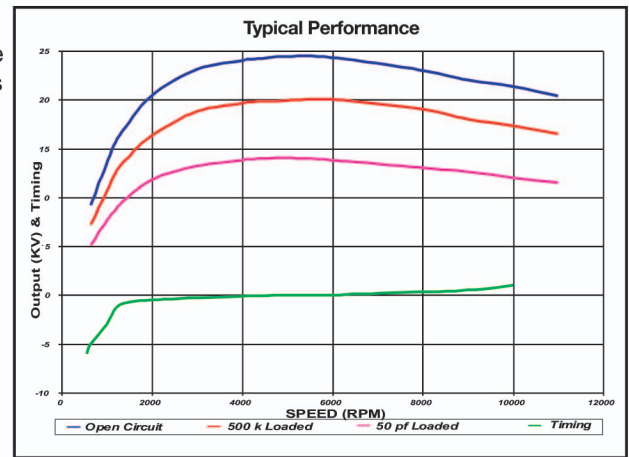
MB Standard



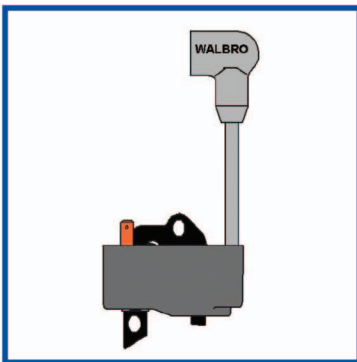
Basic module designed for high volume trimmers, brush cutters and chain saws
Smaller aerodynamic package

Features available:

- Analog timing advance
 - Reduced kickback
 - Optimized engine power
- Analog timing retard at higher RPM
 - Speed limiting timing retard
 - Gradual speed limiting
- Improved low-end output performance, easier starting
- Speed governing
- Microprocessor capability

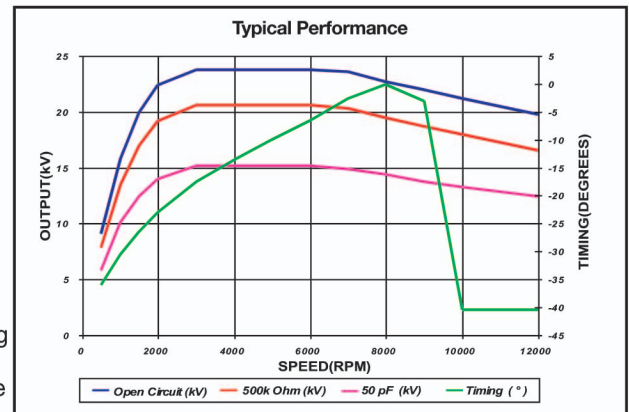


MB Timing advance and timing retard for speed governing

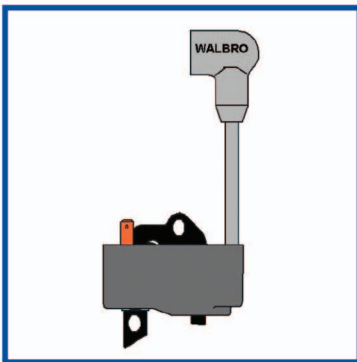


Ignition Module Parameters

- Analog timing advance
 - Gradual timing advance
 - 20-40 degrees
 - Economical solution
- Analog timing retard at higher RPM
 - Speed limiting timing retard
 - Gradual speed limiting
- Improved low-end output performance, easier starting
- Cost comparable to speed governing module
- Additional features in smaller module
- Patent filed

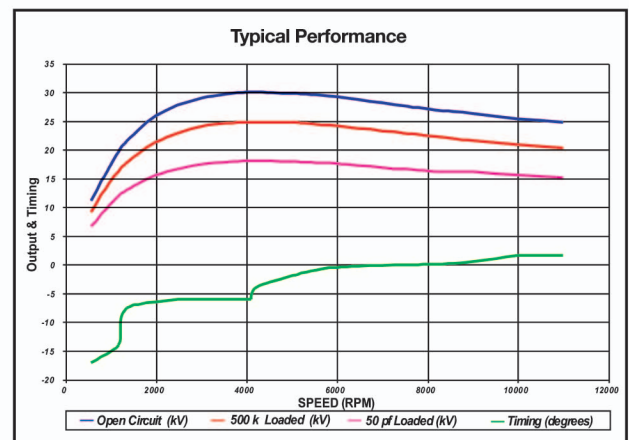


MB Timing advance and extended spark duration

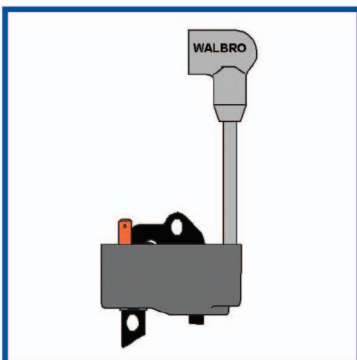


Ignition Module Parameters

- Analog timing advance
 - Eliminates kick back
 - Gradual timing advance
 - Flat timing in idle range
 - Economical solution
- Improved engine performance
- Improved low-end output performance, easier starting
- Extended spark duration, 4-5 times over standard MB
- Retarded and flattened timing at idle for easier carburetor adjustment

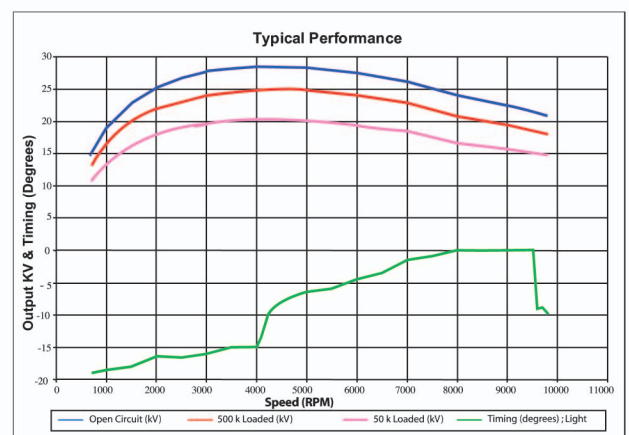


MB Digital

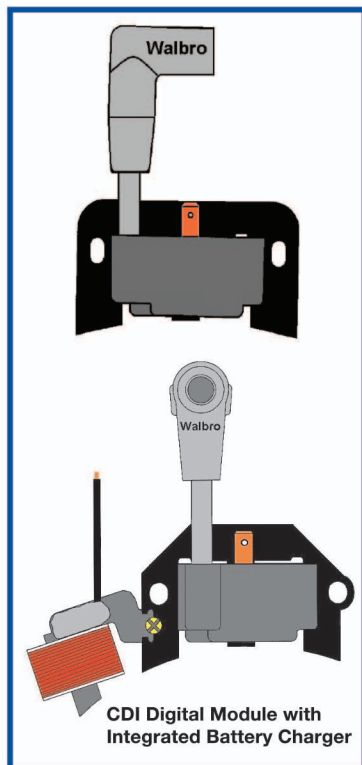


Ignition Module Parameters

- Smaller package
- Timing advance, customized
- Precise speed governing, ± 300 RPM
 - Not sensitive to air gap
 - Not sensitive to flux level
 - Not sensitive to temperature
- Momentary kill function
- Smart on board intelligence
 - idle feedback stability
- Precise cut-in
- Higher low end output performance
- Lower cost approach, self powering



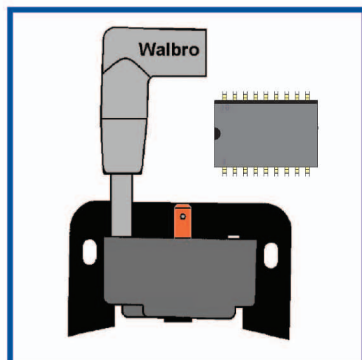
CDI Digital



CDI Digital Module - 4 Cycle (Spark Management)

- Timing control, customized
- Precise speed governing
 - Unaffected by air gap
 - Unaffected by flywheel magnet flux level
 - Unaffected by temperature
- Smart on-board intelligence
 - Idle stability feedback
 - Improved cold starting
 - Improved warm-up
 - Fast idle control
 - Improved acceleration
 - Lower cost approach, self-powering
 - Precise cut-in
 - Optimized engine power
 - Reduced kick back
 - Spark management
- Integrated battery charger option

CDI Digital - External Control



CDI Digital Module with Integrated ECU

- Controlled input and output ports
 - Safety switches/interlocks
 - Temperature sensor
 - Voltage regulator control
 - Oil level/pressure
 - Service reminder
 - Hour meter
- Addresses warranty issues
 - Maximum engine temperature
 - Maximum engine speed
 - Oil pressure

Walbro Engine Management employs the latest technology and modern state-of-the-art processing equipment to provide its customers with ignition systems having increased functionality and improved reliability. With the applied process controls offered by modern coil winding and materials dispensing equipment, the Walbro team has established effective engineering solutions to meet engine specifications with optimum energy delivery and custom designed ignition timing. Let the Walbro team go to work for you!



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