### General Information

- It is important to read the entire installation manual before starting your installation. Doing so will ensure proper setup and trouble-free operation.
- Download and install the PerTronix Digital HP Mobile app on your phone or tablet.
- Only connect the Digital HP Mobile main battery power leads to the battery. If installing on a vehicle with a trunk mounted battery, extend the Digital HP Mobile battery leads with 10 - AWG wire.
- Completely disconnect and remove the Digital HP Mobile before performing any welding on the vehicle.
- If using the gray wire to trigger a fuel injection system, disable the rev limiter verification setting.
- Remember to disconnect the battery negative cable before installation.
- The Digital HP Mobile should only be used in conjunction with a low resistance coil. We recommend the Flame-Thrower III or Flame-Thrower HP coil for optimal performance.
- Never use solid core spark plug wires on this ignition system.
- We recommend the factory spark plug heat range be used. The spark plug gap can be incrementally increased by 0.005" while testing after changes for best performance.

### Capacitive Discharge

Traditional Points or Electronic Ignitions require a long dwell time to store energy in the coil from 12V before firing. The Digital HP Mobile CD ignition stores the energy in a capacitor, charging it up to 530V. When triggered, it dumps all of this energy into the coil causing it to fire immediately. There is no dwell time for the coil with a CDI. Most CD boxes stop multiplexing around 3000 RPM. This is due to the rate at which other CD's stop multiplexing, about 1 time per millisecond. At 3000 RPM, their second spark occurs about 2 crank degrees later. The Digital HP Mobile sparks 50% faster. This means that you have 2-1/2 times as much sparks at 3000 rpm and multiple sparks to 7000 RPM. More importantly, the following sparks are closer to the desired ignition timing for better combustion.

### Coil Compatibility

The Digital HP Mobile is a high power CD ignition system and needs a coil that is capable of handling the increased power without overheating. For normal street driving, the Digital HP Mobile will work with most coils that have a primary resistance of .32 ohms or less. A low resistance coil such as the Flame-Thrower III or Flame-Thrower HP coil are highly recommended. For extended high RPM use, such as circle track or road racing, use the Flame-Thrower HP coil ( PN 60100) or equivalent. The Flame-Thrower III canister coil, or Flame-Thrower HP or HP are highly recommended. For extended high RPM use, such as circle track or road racing, use the Flame-Thrower HP coil ( PN 60100) or equivalent. The Flame-Thrower HP coil is an ultra low resistance coil designed specifically for CD ignitions.

### Wiring

The Digital HP Mobile uses a locking automotive connector. Push the wiring harness connector onto the box until it clicks. Push in the red lock to insure the connector is secure. To remove the connector, pull the red lock out, and press down on black latch while pulling on the connector.

Route the wires towards their connection points. Make sure to keep the wires away from sharp edges, moving objects, and heat sources. Determine the appropriate length for each wire then cut the wire to length. Any unused wires should be coiled and taped out of the way. The common terminals are provided to complete each connection. Use a proper crimp tool to attach the terminals to the Loom. The PerTronix T3001 quick change crimp tool provides excellent crimp connections. It is best to keep the coil wires (Black & Black/White) separated from the trigger wires (White & Violet, Green) to prevent EMI. The Digital HP Mobile main battery power leads must be connected directly to the battery; if necessary, the wires can be extend with 10 - AWG wire.

### Parts Included

- Digital HP Mobile Ignition
- Main Harness
- Mag Trigger Harness
- Hardware Pack

### Tools Needed for Installation

- Phillips Screw Driver
- Wrenches and Sockets
- Wire Cutters / Stripper
- Power Drill & #20 or smaller Drill Bit
- Crimper

### Specifications

- **Operating Voltage:** 9-22 Volts
- **Current Draw:** 1.2A per 1000 RPM
- **Input Triggers:** Points, Electronic Ignition, or Mag Pickup
- **Output Voltage:** 530 Volts
- **Output Energy:** Up to 187+mJ primary spark
- **Multi-Spark Window:** Up to 20 crank degrees
- **Start Retard:** 0.18 degrees / 500-1400 RPM
- **Weight:** 0.7 lb
- **Length:** 4.18 inches (5.15” with connector)
- **Width:** 3.75 inches
- **Height:** 1.65 inches
- **Mounting Pattern:** 3.5 x 3.25"
WIRING DIAGRAM FOR 
DIGITAL HP MOBILE

For most applications, the tachometer should be connected to the 
gray wire output from the Digital HP Mobile. This output gen-
eralizes a 12V square wave signal for smooth tach function. If your 
tach is triggered by a voltage spike or current sensing method, 
follow the instructions below. Tach wires should never be connect-
ed directly to the coil when using the Digital HP Mobile ignition 
system.

VOLTAGE SPIKE TACH

Many older tachs attach to the coil negative on standard igni-
tions. These may need to see the voltage spike from the coil firing, 
and can have problems reading a square wave tach signal. To adapt 
the tach signal for these tachs, attach the red wire with black stripe 
and ignition switch on the Digital HP Mobile. The gray wire on the 
Digital HP Mobile harness.

CURRENT SENSING TACH

Current sensing tachs 
typically connect in line 
with the coil 12V feed 
and ignition switch on 
a stock ignition system. 
For these tachs, connect 
the original wire that was 
on the coil positive to the 
red wire with black stripe 
on the Digital HP Mobile. 
The gray wire on the 
Digital HP Mobile is left 
unconnected.

SHIFT LIGHT OUTPUT (YELLOW WIRE)

This output can be used to trigger a shift light, or as an RPM 
activated switch. Adjustable shift lights or shift lights having more 
than two wires are not compatible. 
To wire for a shift light, connect one 
side of the light to 12V, the other 
side of the light to the yellow wire. It is 
not recommended to exceed 300mA 
(approximately 2W bulbs). LED lights 
generally use less current and are 
recommended for this reason. If more 
current is needed, the yellow wire can 
be used to trigger a power relay. This 
output grounds when active.

LAUNCH LIMIT INPUT (DARK BLUE WIRE)

This input is used to activate the 
Launch RPM Limit (2nd RPM Limit). It is 
activated when the input wire is ground-
ed. To deactivate it, pull the input wire up 
to 12V, or disconnect it. This function can be 
tested by turning the ignition switch on, with engine not running, and 
activat-
ing the launch. The Launch Limit 
light on the lower right side of the App 
home screen will illuminate when active.

BURNOUT LIMIT INPUT (LIGHT BLUE WIRE)

This input is used to activate the 
Burnout RPM Limit (3rd RPM Limit). It is 
active when the input wire is pulled to 12V. 
To deactivate it, ground the wire, or just 
disconnect it. This function can be 
tested by turning the ignition switch on, with en-
gine not running, and activating the burnout 
switch. The Burnout Limit light on the 
lower right side of the App home screen 
will illuminate when active.

WIRING DIAGRAM FOR 
IGNITOR, II OR III DISTRIBUTOR

WIRING DIAGRAM FOR 
MAGNETIC PICKUP DISTRIBUTOR

WIRING DIAGRAM FOR 
GM HEI DISTRIBUTOR

PerTronix LLC warrants to the original Purchaser of this product 
that the product shall be free from defects in material and workman-
ship for a period of 12 months from the date of purchase. 
If within the period of the foregoing warranty PerTronix finds, after 
inspection, that the product or any component thereof is defective, 
PerTronix will, at its option, repair such product or component or 
replace them with an identical or similar product or component PRO-
VIDED that within such period Purchaser:

- Promptly notifies PerTronix, in writing, of such defects.
- Delivers the defective product or component to PerTronix (Attn: Warranty) with proof of purchase date; and
- Has installed and used the product in a normal and proper man-
ner, consistent with PerTronix printed instructions.

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN 
LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR 
IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANT-
ABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THE FURNISHING OF A REPAIR OR REPLACEMENT COM-
ONENT OR COMPONENTS SHALL CONSTITUTE THE SOLE 
REMEDY OF PURCHASER AND THE SOLE LIABILITY OF 
PerTronix WHETHER ON WARRANTY, CONTRACT OR FOR NEG-
LIGENCE, AND IN NO EVENT WILL PerTronix BE LIABLE FOR 
MONEY DAMAGES WHETHER DIRECT OR CONSEQUENTIAL.

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