2023
Product Catalog

hpd.honda.com
WHO WE ARE

Honda Performance Development (HPD) is the North American racing division of American Honda.

Our challenging spirit ignites our best thinking and powers the imaginative ideas we bring to life.
HPD CELEBRATIONS

hpd.honda.com
Since 2009, the Honda Racing Line program has helped power racing dreams for Honda and Acura drivers.

If you’re looking to accelerate your racing career, there’s never been a better time to join. Honda Racing Line is now more inclusive and gives all racers and customers access to special HPD offers.

MEMBERSHIP IN HONDA RACING LINE OFFERS
- full selection of race engines
- turnkey race cars for purchase
- expert technical support and document sharing
- access to HPD and Honda parts and services for race cars

Become a Member

hpd.honda.com
ENGINES
GXH50
Karting Kits

GXH50

Engine
Production-based 4-cycle single cylinder
Displacement
49cc (30 CID)
Valvetrain
Single camshaft, pushrod 2 valves/cylinder
Crankshaft
Steel alloy, 2 main bearings
Pistons
Forged aluminum alloy
Connecting Rods
Forged steel alloy
Engine Mgmt
Carbureted
Ignition
Transistorized magneto
Lubrication
Splash
Cooling
Air-Cooled
Fuel
91 Octane unleaded
Weight
12 lbs. (5.5kg)

Additional Kits Available
Kid Kart Complete Kit- 16T
Kid Kart Complete Kit- 15T
Engine Kit
Clutch Kit-16T
Clutch Kit-15T
Engine Mount Kit
Chain Guard Kit

$656.54

HPD Parts & Engines Store

hpd.honda.com
Quarter Midgets

GX120
GX160

GX120UT3 HX2
$450.00

- Engine: Production 4-cycle single cylinder
- Displacement: 118cc (7.2 CID)
- Valvetrain: Single camshaft, pushrod 2 valves/cylinder
- Crankshaft: Steel alloy, 2 main bearings
- Pistons:Forged aluminum alloy
- Connecting Rods: Forged steel alloy
- Engine Mgmt: Carbureted
- Ignition: Transistorized magneto
- Lubrication: Splash
- Cooling: Air-cooled
- Fuel: 91 octane unleaded
- Weight: 29 lbs. (13.2 kg)

GX160UT2 HX2
$475.00

- Engine: Production 4-cycle single cylinder
- Displacement: 163cc (9.9 CID)
- Valvetrain: Single camshaft, pushrod 2 valves/cylinder
- Crankshaft: Steel alloy, 2 main bearings
- Pistons: Forged aluminum alloy
- Connecting Rods: Forged steel alloy
- Engine Mgmt: Carbureted
- Ignition: Transistorized magneto
- Lubrication: Splash
- Cooling: Air-cooled
- Fuel: 91 octane unleaded
- Weight: 33 lbs. (15.0 kg)

HPD Parts & Engines Store

hpd.honda.com
Honda Performance Development offers the Talon Crate Engine for off-road Talon racers.

The same engine that propelled the Honda off-road Factory Racing team to victory at the 2022 King of Hammers (UTV Stock NA Class) is now available to the public. Any racer who dreams of victory can now experience that same power with this new Talon Crate engine.

**Engine Specifications**
- **Engine Type**: 999cc liquid-cooled Unicam® OHC longitudinally mounted parallel-twin four-stroke
- **Valve Train**: OHC, 4 valves per cylinder
- **Bore x Stroke**: 92.0 mm x 75.1 mm
- **Compression Ratio**: 10.1:1
- **Induction**: Fuel injection
- **Ignition**: Full Transistorized
- **Starter**: Electric
- **Transmission**: Automatic DCT w/ 6 speeds + Reverse & high/low sub-transmission
- **Clutch**: (2) multiplate wet (DCT)

**Crate Engine Dealers**
- Raceco-USA [https://www.raceco-usa.com/](https://www.raceco-usa.com/)
- JSport SXS [https://www.jsportsxs.com/](https://www.jsportsxs.com/)

*Engines are available for competition use only and have no warranty*
Honda Performance Development offers the venerable K20C1 engine from the Honda Civic Type-R as a turnkey package for installation into any off-highway vehicle.

Controlled by an HPD developed ECU, the engine delivers a potent 306hp/295ft-lb via the latest technology in direct-injection, turbocharging, and variable valve timing.

K20C1

Controls Package & Crate Engine
$9,000.00

Crate Engine
$6,790.00

*pricing subject to change

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Engine Type</td>
<td>Inline 4 Cylinder</td>
</tr>
<tr>
<td>Displacement</td>
<td>2.0 Liter</td>
</tr>
<tr>
<td>Valve Train</td>
<td>16 Valve DOHC VTEC</td>
</tr>
<tr>
<td>Horsepower</td>
<td>306 hp @ 6500 rpm</td>
</tr>
<tr>
<td>Torque</td>
<td>295 ft-lbs. @ 2500 rpm</td>
</tr>
<tr>
<td>Induction</td>
<td>Turbocharged</td>
</tr>
<tr>
<td>Fuel Management</td>
<td>Electronic Direct Fuel Injection</td>
</tr>
<tr>
<td>Ignition</td>
<td>Coil on Plug</td>
</tr>
<tr>
<td>Bore and Stroke</td>
<td>86.0 x 85.9 mm</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>9.8 : 1</td>
</tr>
<tr>
<td>Oiling System</td>
<td>Wet Sump</td>
</tr>
<tr>
<td>Security Sealed</td>
<td>No</td>
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</table>

SUPPORTS

Civic Type R &
Civic TCR Race Car
F4 & FRA Series
& More

Crate Engine Dealers
United Speed Racing www.unitedspeedracing.com
Science of Speed www.scienceofspeed.com
MountuneUSA www.mountuneusa.com
4Piston Racing www.4pistonracing.com

hpd.honda.com
LC1 ECU

The LC1 ECU Application for FF race cars is a replacement for the original FF E1 ECU.

This replacement will provide more reliability, improved diagnostics and troubleshooting capabilities.

Options & Pricing

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC1 ECU</td>
<td>$948.00</td>
</tr>
<tr>
<td>Adapter Harness</td>
<td>$594.00</td>
</tr>
<tr>
<td>LAF Sensor</td>
<td>$275.00</td>
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</tbody>
</table>
FIA SANCTIONED OPEN WHEEL SERIES

FORMULA REGIONAL AMERICAS
U.S. F4 CHAMPIONSHIP
FR Americas is the fastest way for an aspiring driver to experience an international racing platform at an affordable price. HPD will award the scholarship to help compete in the 2023 and 2024 Super Formula series.

FIA Formula 4 was created to offer young race car drivers around the world the opportunity to take the first step from karting into the world of open-wheel racing. HPD will award the champion a chance to compete in the FRA Americas Championship.

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**F4 Engine**

- **Engine Type**: Inline 4 Cylinder
- **Displacement**: 2.0 Liter
- **Valve Train**: 16 Valve DOHC VTEC
- **Horsepower**: Per FIA Rules
- **Torque**: Per FIA Rules
- **Induction**: Normally Aspirated
- **Fuel Management**: Electronic Direct Fuel Injection
- **Ignition**: Coil on Plug
- **Bore and Stroke**: 86.0 x 85.9 mm
- **Compression Ratio**: 9.8 : 1
- **Oiling System**: Dry Sump
- **Security Sealed**: Yes

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**F4 Engine (K20C1 Engine same as Civic Type R)**

- **Engine Type**: Inline 4 Cylinder
- **Displacement**: 2.0 Liter
- **Valve Train**: 16 Valve DOHC VTEC
- **Horsepower**: Per FIA Rules
- **Torque**: Per FIA Rules
- **Induction**: Turbocharged
- **Fuel Management**: Electronic Direct Fuel Injection
- **Ignition**: Coil on Plug
- **Bore and Stroke**: 86.0 x 85.9 mm
- **Compression Ratio**: 9.8 : 1
- **Oiling System**: Dry Sump
- **Security Sealed**: Yes

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To get more information on this series please use the links below:

- **F4 Buyer's Guide**
- **FRA Buyer's Guide**

hpd.honda.com
F4 DRIVER GIVING KIDS INTRODUCTION TO RACING
RACE CARS

TURNKEY PRODUCTION-BASED RACE CARS FOR SALE
## CIVIC SI FE1 RACECAR
### PRICE: $55,000

## Eligible Racing Series
SRO Touring Car Americas TCA Class

<table>
<thead>
<tr>
<th>Engine</th>
<th>1.5 liter inline 4 cylinder (production based)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Management</td>
<td>Production-based ECU HPD or customer-tuned (series dependent)</td>
</tr>
<tr>
<td>Cooling</td>
<td>OE Honda radiator and intercooler</td>
</tr>
<tr>
<td>Fuel</td>
<td>Direct injected 91+ octane unleaded (series dependent)</td>
</tr>
<tr>
<td>Exhaust</td>
<td>HPD / Borla downpipe and turbo back exhaust</td>
</tr>
<tr>
<td>Performance</td>
<td>200+ HP</td>
</tr>
<tr>
<td>Transmission &amp; Differential</td>
<td>OEM 6-speed manual transmission, HPD high strength 4th gear, HPD/Cusco Limited Slip Differential</td>
</tr>
<tr>
<td>Suspension</td>
<td>Front MacPherson strut-multi-link rear, HPD / Bilstein inverted double adjustable dampers, Eibach race springs, HPD front camber and caster plates, HPD / SPC rear camber adjustment, HPD / SPC rear camber adjustment, Upgraded HPD / RV6 rear lower arms for race spring rates and positive toe adjustment, Enkei RPF1 cast aluminum wheels, 17 x 8 inches</td>
</tr>
<tr>
<td>Steering</td>
<td>Production electric power steering, OMP racing wheel and quick disconnect, OE Honda tilt/telescopic column</td>
</tr>
<tr>
<td>Brakes</td>
<td>HPD Wilwood Superlite front brakes with 6-piston calipers, Wilwood 2-pc slotted floating rotors, 327 x 28 mm, OEM rear brakes with single-piston calipers, HPD Goodridge front and rear braided brake lines, HPD ABS modulator, Front brake cooling inlet ducts</td>
</tr>
<tr>
<td>Body</td>
<td>Stock Honda Civic Si, HPD brake cooling inlet ducts, Adjustable electric side mirrors</td>
</tr>
<tr>
<td>Structure</td>
<td>Welded multipoint roll cage, OMP racing seat, OMP 6-pt harness, OMP window and center nets, OMP on board fire control system, HPD / Hasport polyurethane engine mounts</td>
</tr>
<tr>
<td>Electronics</td>
<td>Motec C127 data logger display</td>
</tr>
<tr>
<td>Fuel</td>
<td>12.4 Gallon-Capacity</td>
</tr>
</tbody>
</table>

More Info

hpd.honda.com
CIVIC TYPE R TC RACECAR
$89,900

Eligible Racing Series
SRO Touring Car Americas TC Class
SCCA T2 Class
NASA ST3 & E0

<table>
<thead>
<tr>
<th>Engine</th>
<th>2.0-liter inline-4 (production-based)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Management</td>
<td>Production-based ECU, HPD or customer-tuned (series dependent)</td>
</tr>
<tr>
<td>Cooling</td>
<td>HPD CSF radiator and auxiliary oil coolers, HPD Cooling Ducts, OE Honda intercooler</td>
</tr>
<tr>
<td>Fuel</td>
<td>Direct-injected 91+ octane unleaded (series dependent)</td>
</tr>
<tr>
<td>Exhaust</td>
<td>HPD/Borla downpipe and turbo back exhaust</td>
</tr>
<tr>
<td>Performance</td>
<td>306+ HP</td>
</tr>
<tr>
<td>Transmission &amp; Differential</td>
<td>OEM 6-speed manual transmission, HPD high strength 3rd and 4th gears, HPD/Cusco Limited Slip Differential</td>
</tr>
<tr>
<td>Suspension</td>
<td>Front dual axis MacPherson strut, multi-link rear, HPD/Bilstein inverted double adjustable dampers, Eibach race springs, HPD front camber and caster plates, HPD/SPC rear camber adjustment, HPD/RV6 rear adjustable stabilizer bar, Spherical suspension bushings and damper mounts, Upgraded HPD/RV6 rear lower arms for race spring rates and positive toe adjustment, Forgestar F14 rotary formed aluminum wheels, 18 x 9.5 in.</td>
</tr>
<tr>
<td>Steering</td>
<td>Production electric power steering, OMP racing wheel and quick disconnect, OE Honda tilt/telescopic column</td>
</tr>
<tr>
<td>Brakes</td>
<td>Brembo 4-piston calipers, HPD Girodisc 2-pc front rotors 350mm x 32mm, OEM rear calipers and rotors, HPD Goodridge front and rear braided brake lines, HPD ABS modulator, Variety of Sprint/Endurance brake compounds available, HPD brake cooling inlet ducts</td>
</tr>
<tr>
<td>Body</td>
<td>High-flow front grille, HPD oil cooler, brake, and radiator inlet ducts, F/Racing FRP vented hood, HPD APR adjustable rear wing, Adjustable electric side mirrors</td>
</tr>
<tr>
<td>Structure</td>
<td>Welded multipoint roll cage, OMP racing seat, OMP 6-pt harness, OMP window and center nets, OMP on board fire control system, HPD/Hasport polyurethane, engine mounts</td>
</tr>
<tr>
<td>Electronics</td>
<td>AIM MXP 1.2 data logger, Motec C125 data logger (optional), 4-wheel suspension position sensors (optional)</td>
</tr>
<tr>
<td>Fuel</td>
<td>HPD Pyrotect Bolt-In FIA fuel cell, 16-gallon capacity, High flow filler neck and cap in OE location</td>
</tr>
</tbody>
</table>

hpd.honda.com
NSX GT3 EVO22 RACECAR

€550,000

Eligible Racing Series
IMSA WeatherTech Sports Car Challenge – GTD class
SRO GT World Challenge America – GT class
SRO GT America – SRO3 class

International Racing Series
SRO GT World Challenge Europe
SRO GT World Challenge Asia
China GT
Intercontinental GT Challenge
Super GT (Japan)
Super Taikyu (Japan Endurance)

Engine
Type: Longitudinal/mid-mounted twin-turbocharged DOHC 75 V6
Bore x stroke: 91 x 90mm
Capacity: 3501cc
Power/torque: Per FIA/ Series Regulation (BOP)
Construction: Light alloy block and head
Pistons: Cast aluminum
Valvetrain: 24 valve, IN/EX VTC, chain driven camshaft
Fuel injection: Direct and port injection
Lubrication: Dry sump system
Throttle control: Drive-by-Wire throttle system
Wastegate control: Electrical
Turbocharger: 2 off-Mono scroll
Exhaust: Twin pipe with CAT converter

Dimensions
Wheelbase: 2630mm, Overall length: 4612mm, Overall width: 2040mm, Front track: 1715mm, Rear track: 1687mm, Weight: 1240 Kg (prior to BOP adjustments)

Chassis
Material: Aluminum alloy extruded profiles/cast nodes; steel roof structure, TIG welded roll cage in 25CrMo- bolted to chassis

Transmission
Gearbox: XTRAC semi-automatic 6-speed sequential
Clutch: ZF SACHS high performance sintered or carbon clutch (endurance option)
Driveline: PANKL double tripod system

Brakes
BREMBO disks: 390x34 front / 355x32 Rear
ABS (VF): BOSCH M5

Suspension
Front: Double wishbone
Rear: Multi-link
Shock absorbers: SACHS 5-way adjustable dampers
Sway bar: FR/RR with adjustable blade

Wheels
Front: 12" x 18" forged aluminum
Rear: 13" x 18" forged aluminum

Buy NSX here

hp.d.honda.com
The HPD Drivers Academy is a four-part development experience for drivers who are looking to gain the skills needed to be ready to race at an elite level in North America or in a global series. As the preeminent OEM racing organization in North America, one of HPD’s core principles is to support drivers in achieving their racing dreams.

The HPD Driver Academy embodies this by providing extensive track time in the Acura NSX Evo22 and Civic Type R TCR, and access to experienced professional GT3 Evo22 and Civic TCR drivers, HPD engineering and trackside support staff, and SRO and IMSA Championship engineers and team owners.

The program includes on-track racecraft coaching sessions at some of the top racetracks in the U.S., off-track instruction relating to effective communication with team personnel and engineers, and additional driver marketing insights and sponsor searches.

For further information on this program and how to apply for future academy spots please click the link below.
Even when you’re not on track, you can show off your Honda Racing and Acura Motorsports style with our HPD Merchandise.

All items are designed to bring comfort and style to the track or wherever your racing adventures take you. From hats to jackets, mugs to backpacks, and everything in between, you will find the perfect accessory to cheer on your favorite Honda and Acura drivers.

HPD Merchandise Store
Marcus Ericsson
2022 Indianapolis 500 Winner
No.8 Honda for Chip Ganassi Racing
INDYCAR Racing

**HPD** was founded in 1993 to spearhead Honda's entry into INDYCAR racing. No other manufacturer has matched Honda's success in INDYCAR, which includes over 213 race victories, 10 Manufacturers’ Championships, and 15 Indianapolis 500 victories.

INDYCAR racing has been part of HPD’s history from the start. From developing state-of-the-art engine technology, to providing technical support to teams at the track.

**ACHIEVEMENTS**

**Honda Racing**

15 Indy 500 Champions

7 INDYCAR Drivers’ Championships

INDYCAR / CART Manufacturers’ Championships

Acura’s ARX-05 and NSX GT3 Evo22 compete in IMSA’s WeatherTech Championship Series. The ARX-05 race car is powered by the race-proven AR35TT twin-turbocharged V6 which is derived from the Acura MDX engine. The NSX GT3 Evo22 uses a 3.5 liter, twin-turbo V6 engine which is the same as in the NSX production vehicle.

**ACHIEVEMENTS**

**IMSA Camel Lights Series**  

**American LeMans Series**  
2009 LMP1 Engine, Team, Drivers’ Champion  
2009 LMP2 Engine, Team Drivers’ Champion

**IMSA WeatherTech Sportcar Championship Series DPI Class**  
2019 Manufacturers’, Drivers’, Team Champion  
2020 Manufacturers’, Drivers’, Team Champion  
2021 Michelin Endurance Cup Manufacturers’, Drivers’, Team Champion  
2022 Manufacturers’, Drivers’, Team Champion  
2022 Michelin Endurance Cup Champion

**IMSA WeatherTech Sportscar Championship Series GTD Class**  
2019 Drivers’, Team Champion  
2020 Manufacturers’ Drivers’ Team Champion

**SRO World Challenge GT3 Pro Am Class**  
2019 Drivers’, Team Champion  
2020 Manufacturers’, Drivers’, Team Champion  
2022 Drivers’, Team Champion

**Shop for your Acura here**

hpd.honda.com

The spirit of Acura vehicles is first born on the track, where Precision Crafted Performance is constantly improved through racing.

**IMSA Physics**

**Acura Motorsports**
Marking its return to 4-wheel off-road desert racing the custom built unlimited off-road race vehicle is backed by HPD.

Powered by a twin-turbocharged V6 engine, the Ridgeline Baja Race Truck features a body designed by Honda R&D Americas’ Los Angeles Design Studio, with inspiration taken from the current Honda Ridgeline, also designed and developed by Honda R&D North Americas.

Making approximately 550 horsepower, HPD’s 3.5-liter HR35TT engine uses the same block and cylinder heads as the production Ridgeline V6.
RACING LEGEND MARIO ANDRETTI SURPRISES QUARTER MIDGET RACERS AT EVENT
CONTACT US

For further information on all our products and race cars, please contact us through the information below. We look forward to having you as part of our HPD Family.

Honda Performance Development
Customer Service Support
HPDSales@na.honda.com
Tel: (661) 702-7777

“If Honda does not race, there is no Honda.”

—SOICHIRO HONDA