

無限MUGEN

**CIVIC TYPE *R***  
**EURO**

***PREMIUM  
SUPER  
SPORTS***



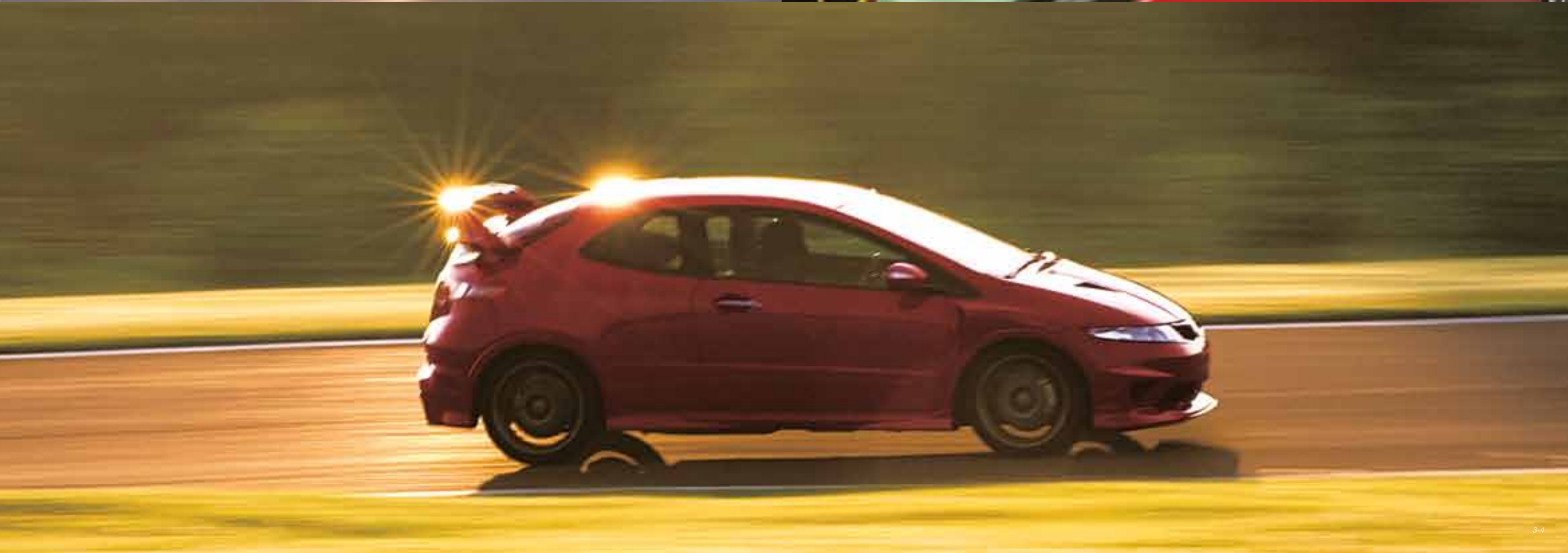


CIVIC TYPE **R**  
EURO









# Aero Dynamics



## Aero Bonnet



0.5h  
60100-XLR-K0S0

Aero bonnet manufactured in GFRP, equipped with air outlet to vent hot air from the engine. Direct replacement for the OEM bonnet. GFRP, Unpainted  
Recommended colour: Airduct panel / Matt Black

## Front Sports Grille



0.6h  
75100-XLR-K0S0

Direct replacement for the OEM grille. Red Honda H Emblem is sold separately (75700-SMT-E00) from OEM grille and reused on the MUGEN grille. Grille comes complete with MUGEN emblem as well. GFRP, Unpainted, Recommended colour: Night hawk black pearl (B92P)

## Front Aero Bumper



MUGEN Front Aero Bumper + OEM Fog Light



MUGEN Front Aero Bumper + Air Intake garnish

1.2h  
62511-XLR-K0S0

Bumper fitment requires modification to fender cover, under cover and bulkhead.

Direct replacement for the OEM bumper. Comes with air intake ducts for brake cooling. OEM fog lights can be used. Where the engine air intake is installed, the OEM fog light needs to be removed. GFRP, Unpainted.  
Recommended colour: Air intake duct and lower part of bumper / Night hawk black pearl (B92P)

## Air Intake Garnish



0.7h  
71140-XLR-K0S0

OEM Light switch needs to be replaced for lighting switch without fog light (35255-SNA-J01) for installation.

Air intake garnish (left hand side only) conducts fresh air into the Hi-performance air cleaner & box for improved engine performance. Garnish can be installed on either OEM bumper or MUGEN front aero bumper. Requires removal of OEM fog lights for installation. GFRP, supplied unpainted. Recommended colour: Night hawk black pearl (B92P) Left and right hand in a set.





### Front Aero Fender



[2.0h]  
60200-XLR-K0S0

Fender kit combines air outlets which vent hot air efficiently from the engine room. Direct replacement for OEM front fenders. GFRP. Unpainted. Left and right hand in a set.

### Front Fender Cover



For OEM bumper  
74100-XLR-K0S0  
For MUGEN Aero Bumper  
74100-XLR-K1S0

Fit as replacement for the OEM front fender arches for wider stance – requires modification to inner wheel arch cover panel. GFRP. Unpainted. Left and right hand in a set.

### Rear Aero Bumper



[0.8h]  
84111-XLR-K1S0

Direct replacement for the OEM bumper, with exhaust heat shield ring in stainless steel. OEM reflectors should be reused. Bumper fitment requires modification to fender cover. GFRP. Unpainted. Recommended colours: Centre of the bumper – Matt Black; Lower part of the bumper – Night hawk black pearl (B92P)

### Rear Wing



[0.5h]  
84112-XLR-K0S0

Fits in place of the OEM tail gate spoiler to give a more sporty, balanced appearance. Wing base: GFRP, Unpainted. Wing blade, ABS, Gloss black.



## Advanced Complete Brake System

The ultimate brake system for both street and circuit driving; comprising of the newly-developed front monobloc 4-piston caliper, front and rear pads, front rotor, and micromesh brake lines.

A complete combined braking system developed and tested with professional drivers at demanding race circuits such as Twin Ring Motegi, and others, for absolute performance.

Using high end data capture and analysis the result is a superbly balanced brake system with an unmatched level of touch and feel for the driver, with the endurance to cope with the most severe of conditions.

### Monoblock Caliper

**Gold**



The MUGEN caliper utilises a monobloc design casting for ultimate rigidity and braking consistency, while incorporating dust boots to keep the caliper pistons free from moisture and grit.

**Black**



Manufactured with an integrated axial mount that requires no adapter and ensures the minimum of flex with the maximum braking efficiency under even the heaviest of loads.

It is a recognised fact that rigidity of the caliper and caliper mounting are some of the most important factors in brake tuning. The high rigidity and stiffness of the MUGEN caliper installation allows the pads to maintain a consistent contact evenly on the rotor and offers secure stable braking performance under severe driving conditions.

MUGEN chose a monobloc 4 piston design in order to attain absolute caliper rigidity and an even clamping force over the entire brake pad area. Unlike many aftermarket calipers, the MUGEN "Advanced Complete Brake System" calipers also incorporate an integral axial mount within the unit construction so that the caliper is mounted directly to the car without the need for adapters, which can allow flex under heavy braking and hamper overall braking performance.

### Brake Pad

**Type S**  
Type Sport



Absolute stopping performance in sports driving and easy to control in normal driving

**Type C**  
Type Competition



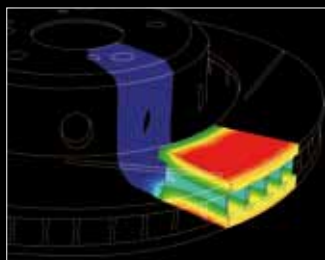
For driving at circuits, gives hi-performance with controllability at full braking

Brake pad friction material for the front and rear brake pads has been analyzed and developed exclusively to keep the balance proportionate for the "Advanced Complete Brake system." This is an important consideration as an imbalance can often occur where the rear pad friction material is not altered to match the increased braking force of the larger front calipers and brake rotors.

Type C and Type R models are available.

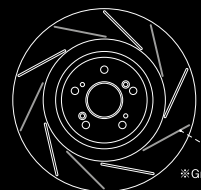
Main driving place	Street to mini circuit
Recommended tyres	Normal to high grip radial tyres
Drivers	Mainly normal street driving with occasional sports driving, including some circuit use.
Appropriate temperature	50°C ~ 550°C

Main driving place	Mini circuit to normal circuit
Recommended tyres	High grip radial tyres to S tyres
Drivers	Primarily sports and circuit driving.
Appropriate temperature	100°C ~ 700°C



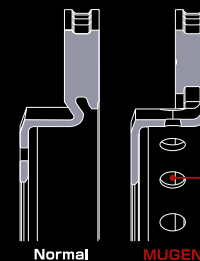
The picture to the left shows a computer simulation of the heat distribution through the brake rotor. After much development work, the optimum design of the brake rotor was determined. Once this design had been determined, bench testing as well as real world driving tests were used to finalize the design.

### Brake Rotor



\*Grooves on the backside

The width, depth and angle of these grooves were determined through testing to find the correct balance between coefficient of friction and brake performance. The grooves are milled asymmetrically front to rear to minimize any unpleasant brake judder.



Normal

MUGEN

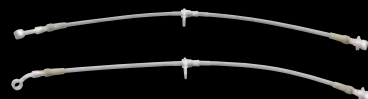
High rotor temperature experienced during sporty driving and circuit racing can lead to brake fade and, ultimately, component failure. MUGEN has developed "reversed bench configuration disc" technology to minimize rotor temperature build up and prevent premature failures. Throughout the life of the components brake performance remains more consistent using this technology.

Cooling holes also increase brake performance through more efficient heat dissipation.

Brake rotor sizing plays an important role in increasing brake torque and retardation. The "Advanced Complete Brake system" uses 320mm diameter brake rotors (\*), a 20mm increase over the factory brake rotors. The MUGEN brake rotor also has an increase of 3mm in the thickness, from 25mm to 28mm. These changes allowed MUGEN engineers to increase the number and size of the internal cooling vanes in order to optimize rotor cooling. The holes also decrease unsprung and rotational weight. The five grooves milled into each side of the rotor help to remove dust and keep the surface area clean. Finally, the brake rotors are produced using a special high carbon material to resist cracking and other stress related failures.

\*MUGEN:  $\phi$ 320mm / OE  $\phi$ 300mm

### Brake Line



Based on MUGEN micromesh which gives high flexibility and durability, this new brake line is prepared for CIVIC TYPE R FN2. 2 front brake lines are enclosed. As an option a 4-piece rear brake line kit is also available.

### Hi-Performance Brake Fluid

Brake fluid with a high boiling point that exceeds BF5 standard brings the best out of the brake performance. 2 x 500ml cans are included.



## CONTENTS

- Monobloc 4-piston front brake caliper (Gold or Black to be chosen)
- Exclusive front and rear brake pads (Type S including shims or Type C not including shims to be chosen)
- Exclusive large-diameter reversed bench front brake rotor
- Exclusive front micro mesh brake line
- Hi-performance brake fluid (500ml x 2 cans)

OE wheels, MUGEN GP wheels (18 x 7 1/2 J inset 55) or other wheels with insufficient inset cannot be used with this kit. Installation of optional front wheel & fender cover set (42000-XLR-K0S0-\*\*) is recommended.

### Caliper: Gold Brake pad: Type S

[3.0h] 45000-XLR-K0S0-GL

### Caliper: Gold Brake pad: Type C

[3.0h] 45000-XLR-K1S0-GL



Photo: 45000-XLR-K1S0-GL

### Caliper: Black Brake pad: Type S

[3.0h] 45000-XLR-K0S0-BK

### Caliper: Black Brake pad: Type C

[3.0h] 45000-XLR-K1S0-BK



Photo: 45000-XLR-K0S0-BK

## Rear Brake Hose Set [Option] [1.0h] 46450-XLR-K0S0

Optional product for the "Advanced Complete Brake System" Exclusive micromesh rear brake line



## Front Wheel & Fender Cover Set [Option]

Optional product for the "Advanced Complete Brake System"  
A pair of forged GP front wheels (18 x 8J inset 46) and a pair of front wheel arch trims GFRP, Unpainted Left and right hand in a set.  
Wheel colours available are gun metallic or bronze. Wheel nuts are not included.  
[Recommended tyres: 225/40R18]

Special inset wheels and front wheel arch trims need to be installed at the same time.

For OE bumper	Gun metallic	42000-XLR-K0S0-GM
For OE bumper	Bronze	42000-XLR-K0S0-BR
For MUGEN aero bumper	Gun metallic	42000-XLR-K1S0-GM
For MUGEN aero bumper	Bronze	42000-XLR-K1S0-BR

## Hi-Performance Brake System

### Brake Pad -Type Sport-



FRONT



REAR

[FRONT] [0.7h] 45022-XLR-K000

[REAR] [0.7h] 43022-XLR-K000

Improves the effectiveness and control characteristics required for city street and occasional sports driving.

Reduces the wear and squeaking noise of the pads and assures anti-fading effect required for fast driving.

Front and rear supplied as a set.

Appropriate temperature: 50°C~550°C

### Brake Pad -Type Competition-



FRONT



REAR

[FRONT] [0.7h] 45022-XLR-K100

[REAR] [0.7h] 43022-XLR-K100

Assures the anti-fade effect required for regular circuit use and realizes a good brake effect and secure control to fully enjoy high speed circuit driving.

Front and rear supplied as a set.

Appropriate temperature: 100°C~700°C

### Micromesh Brake Line



[1.3h] 46400-XLR-K0S0

The brake line reinforced with stainless steel wire mesh increases the feeling of rigidity as the driver steps on the brake pedal and is an invaluable tuning part to delicately modulate the pedal stopping force. Since the diameter of the outer braid of a standard stainless steel mesh brake line is made of single stainless steel wire of 0.3mm, it lacks flexibility and fatigue durability. In contrast, the outer braid adopted by MUGEN's micromesh brake line is made of seven very fine wires, which are woven together to produce a single steel wire with a diameter of 0.21mm, which in turn is woven with other similar single wires to

produce a wire mesh, significantly improving the flexibility and durability.

The MUGEN brake line is reinforced with stainless steel wire mesh and was the first such wire mesh to meet the Federal Motor Vehicle Safety Standard No. 106 of the U.S. (FMVSS) 6 lines per set.



### Hi-Performance Brake Fluid

90000-XYB-B000

Specially developed high performance brake fluid for Honda vehicles.

It helps prevent vapour lock with a dry boiling point of 327°C and a wet boiling point of 202°C, significantly exceeding the BF5 Standard.

The high boiling points are maintained for a longer period due to the resistance to humidity absorption, which can cause lowering of the boiling point, and therefore the product has an increased useful life. The product contributes to the overall excellent performance of the MUGEN braking system during high speed driving.



### Reserve Tank Cover

[0.1h]

90000-YZ7-0054

In a stylish MUGEN-branded design the reservoir tank cover for the brake and clutch fluid absorbs leakage which can occur due to various factors during driving. Fireproof material ensures increased safety.

# Performance



## Hi-Performance Air Cleaner & Box

[1.5h]

17200-XLR-K0S0

Supplied as a direct replacement for the OEM air cleaner box, and including the filter duct, the air cleaner box directs cool, higher-density air directly from the outside. The capacity of the filtered air chamber is increased, improving combustion efficiency leading to an increase in power. Can be combined with optional air intake garnish for the bumper, to provide an increased supply of cool fresh air for induction to the engine. Filter maintenance kit (sold separately), allows air filter to be reused repeatedly.

### Filter Maintenance Kit

90000-YZ0-5000-99

Set consists of filter washer (spray) and filter oil (aerosol)

### Filter Element

[0.1h]

17220-XLR-0000

Service parts for hi-performance air cleaner & box

## Exhaust Manifold



[3.0h] 18100-XLR-K0S0

4-2-1 layout stainless steel exhaust manifold, allowing smooth flow of exhaust gases to increase available torque and power in all ranges. Sports catalyser is adopted to provide performance with efficient control of emissions.

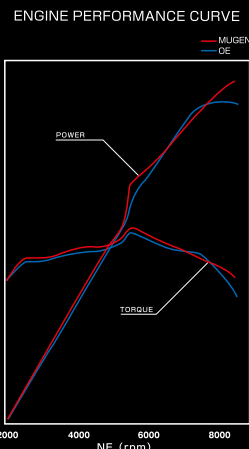


## Sports Exhaust System

[0.6h] 18000-XLR-K1S0



Sports exhaust system giving both excellent exhaust efficiency and effective silencing. Large-diameter, TIG-welded pipe give smooth emission flow and low emission pressure. All stainless steel construction



## L.S.D.

41000-XK5-S0N0

Mechanical L.S.D (1 way / cam angle = 45° . Initial torque: 9kg-m)  
Comes with speed meter drive gear.

### [Option]

#### L.S.D. Rebuilt kit

04411-XK5-K0N0

Friction disc (t=1.75mm) x 6pcs.  
Friction plate (t=1.65mm) x 2pcs., (t=1.55mm) x 2 pcs.  
Spring plate (t=1.65mm) x 4pcs. / set

### Pressure Ring Set

41330-XK5-S0N0-B2

Cam angle adjustment kit which increases transfer ratio angle of 45 to 0° . Options of 58° to 0° or 65° to 0° available.

## Metal Clutch Set

[4.3h]

22000-XK5-S1N0

A set of the metal disc and clutch cover  
Set load: 7800Nm /  
Disc: t=4.6 mm

## Copper Fiber Clutch System

[4.3h] 22000-XKPE-K0S0

The copper fibre clutch system is developed for ease of use on the street, combined with a more positive direct feeling and response and crisp gearshifts while sports driving. A newly-developed non-asbestos material containing copper and resin has been used for the friction plate allowing good frictional properties for the transfer of power in both low and high temperature conditions. Operating load: 7100Nm  
Kit comprises of pressure plate assembly, friction disc and release bearing.

## Oil Filler Cap



[0.1h]

[CHAMPAGNE GOLD] 15610-XG8-K1S0-CG

[SILVER] 15610-XG8-K1S0-S [RED] 15610-XG8-K1S0-R

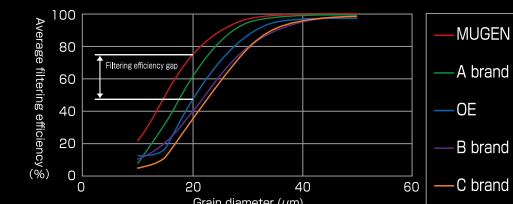
[BLUE] 15610-XG8-K1S0-BU [BLACK] 15610-XG8-K1S0-BL

Precision-machined from solid aluminium and hard-anodised finished these oil filler caps remain securely in place while enhancing the look of the engine bay.  
Available in 5 colours: Gold, Silver, Red, Blue, and Black

## Hi-Performance Oil Element

[0.3h] 15400-XK5B-0000

By adopting a "Y" shape internal filter, which efficiently traps sludge on the filtering fibres MUGEN engineers have been successful in reducing the amount of harmful contaminants re-entering the engine lubrication system. At the same time, The MUGEN Oil Filter increases the filtering efficiency (maximum of 36%), and reduces the low pressure loss (improved by 10%) while significantly increasing the high temperature resistance capability.



## High-Performance Engine Oil VT-α

Exchange amount(ℓ):  
Only oil 4.2  
Oil and filter 4.4



[4ℓcan] 90000-XYC-5W40  
[1ℓbottle] 90000-XYC-5W40-B2

## Engine Treatment Oil MT105

90000-YZ0 -105

Prevents mechanical loss of engine power and reduces mechanical noise. Molybdenum, a major ingredient of MT105, is quickly absorbed into the metal friction surface, filling surface irregularities and forming a smooth surface with a strong lubrication film, which in turn reduces the friction resistance and minimizes the loss of engine power as a result. 200ml



## Ignition Coil Cover



[0.2h] 12500-XK2B-K0S0

Ignition coil cover made of autoclaved dry carbon,



## Handling

**CIVIC TYPE R**  
**EURO**

### Aluminum Wheel GP



#### [BRONZE]

Size 18×7½J Inset 55

[0.7h] 42700-XXA-875B-55

The lightweight 7-spoke "GP" forged wheel, developed for Motorsport and designed for driving performance, is MUGEN's flagship wheel. Although a highly-complex design, by using a metal-spinning process weight-saving and high rigidity are achieved. Hub fitting design exclusive to Honda cars was adopted.

Two colour options, Gun Metallic and Bronze, are available. Recommended tyre size: 225/40R18. Exclusive wheel nuts are sold separately - OEM wheel nuts must not be used with these wheels. Please note: these GP wheels cannot be installed with the advanced complete brake system.

#### [GUN METALLIC]

Size 18×7½J Inset 55

[0.7h] 42700-XXA-875G-55

### HEPTAGON [#7] Nut Set



08181-XXB-K0S0-BL

Made from chrome vanadium (28BCRVM), which is noted for its torsional stiffness these heptagonal (7-sided) wheelnuts require a special socket tool (supplied) for easy removal, while providing security from theft. Set consists of 20 tapered theft-resistant wheel nuts (L=34) and special socket tool for removal. Colour - Black. Please note; Honda OEM nuts cannot be used for MUGEN wheels.

### Wheel Nut & Lock Set



SILVER



BLACK

16 wheel nuts (taper type) and 4 lock nuts per set. Silver and Black colours are available. Please note; Honda OEM nuts cannot be used for MUGEN wheels.

SILVER 08181-MZ3-K0S0-S

BLACK 08181-MZ3-K0S0-BL

### Sports Suspension

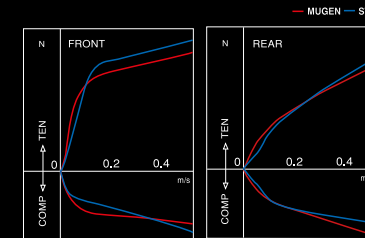


[2.5h] 50000-XLR-K0S0

Utilising the short wheelbase characteristic of the Civic Type R, MUGEN focuses on improving the direction-change performance at low and medium speeds. Increased rates allows additional load to be transferred to the front driving wheels improving traction, while optimised damping characteristics have been employed to permit the use of stiffer spring rates without sacrificing ride quality.

Vehicle Ride Height Change : Front -10.0mm  
: Rear -5mm  
Spring Rate : Front 37.5N/mm,  
: Rear 40.0N/mm

Small OEM parts including upper mount, dust boots, and bump rubber need to be reused.



	Damping force(0.3m/s) Expansion/ Compression	Spring rate-N/mm (OEM)	Vehicle height comparison with OEM (mm)
FRONT	90 / 105	37.5 (32.5)	Approximately -10
REAR	98 / 107	40.0 (28.5)	Approximately -5

※ kgf/mm FRONT:3.8 REAR:4.1

## Interior

### Assist Meters



[2.3h] 78200-XLR-K0S0

A bank of three Assist Meters is used for displaying separately the key engine parameters of water and oil temperature and oil pressure. Meters are housed in a special cowl situated so as to remain visible with minimized eye movement while driving. (Supplied with Sensor, Exclusive Harness and Control unit)



#### [Illumination]

When the side lights and head lights are turned on, the figures and scales in the panel board are illuminated in an easy to see green colour and the needles are illuminated in a highly visible red colour.

#### [Peak Mode]

The peak value of each meter while the vehicle is running is indicated by the respective needle. For example; pressing the "Peak Reset" switch of the control unit for more than 2 seconds before running the car resets the previously recorded data prior to running the car. After running, confirm the peak value recorded during the running. Within the control unit, the peak value is continuously memorized and updated as long as "Peak Reset" has not been carried out.

#### [Warning Mode]

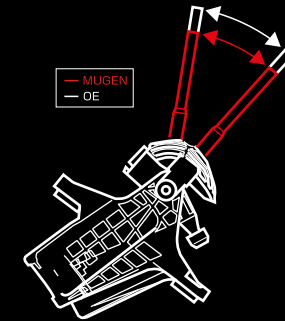
Whenever a value exceeds the user pre-set value, the Warning LED in the panel board lights up (in case of Oil Pressure gauge, if the value is less than the set value, then the warning LED lights up). For setting the value, press the "SELECT" switch on the control unit and set the warning value by either UP switch or DN switch. In order to cancel the warning light, change the set value by returning to the warning setting mode. Replay mode is also available, which records and plays back for 40 seconds.

### Quick Shifter



[0.6h]

54000-XKPE-K0S0



A reduction of 10mm in length compared to OEM, thus altering the lever ratio, and aided by stiffer rubber mounts, the shifter provides a quick and direct feel to shifting gear.

## Equipment

### Metal Logo Emblem

High grade three dimensional Chrome-plated metal emblem  
Available in white or Black. Size: 20 (long) x 165 (width) mm

Chrome plated / white



[0.4h]

90000-YZ8-DV62-WH

Recommended for body colours: Championship white

Chrome plated / Black



[0.4h]

90000-YZ8-DV62-BK

Recommended for body colours: Milano red, Crystal Black pearl

### Number Plate Bolts



[0.1h]

75700-XG8 -K0S0



Installation example picture

High grade machined number plate bolt, comprising of stainless steel head (washer collar) and bolt. Laser printed with MUGEN POWER. Hexagonal socket-head is adopted as a protection against theft. Head size:  $\phi 20$  t=3mm. 2 bolts per a set

[www.mugen-power.com/automobile/products/CIVICTYPE-R\\_EURO/](http://www.mugen-power.com/automobile/products/CIVICTYPE-R_EURO/)



**無限 MUGEN**

M-TEC Co., LTD. 2-15-11 Hizaoricho Asakashi Saitamaken 351-8586 JAPAN 048-462-3131

<http://www.mugen-power.com>

ABA-FN2-110

XLR-1108-E

Caution: Parts in this brochure were researched, developed, and manufactured based on Japanese model and are pursuant to Road Trucking Vehicle Law of Japan. They are not proven to be applicable outside of Japan.