

**KYB**



**R** **REAL** **PORTS**  
**DAMPER**

RSA52190

Made in Japan



## Meeting the Needs of All Drivers

That's the Ultimate Answer from KYB.

### Real Sports Mind from KYB

Friction control in the ultra-low speed range, achieved through the use of diamond-like carbon (DLC), provides the ultimate settings desired by every driver—whether a beginner or an expert—who wants a reduced lap time on the circuit. No other conventional sports damper has ever accomplished such smooth steering feel and great initial response. A high-level roll balance ensures car behavior that is perfectly in sync with turn-in action, allowing the driver to experience direct grip feel and excellent damping compliance.

The piston rod, which employs the DLC film treatment, delivers a level of quality exceeding even that of titanium.

From the low friction coefficient and high hardness to excellent resistance to wear and seizure, the performance characteristics have all been improved significantly over the conventional chrome-plated piston-rod type.

These and other circuit-worthy features are truly representative of KYB's flagship models for the motor-sports enthusiast!

#### TWINTUBE <Drawing on a wealth of expertise in the use of twin tubes, KYB has maximized the potential of the tube structure.>

- KYB's original multi-lip oil seal
- Special, high-performance damper oil
- Three-stage valve with a proven track record in motor sports
- Sub-valve mechanism that generates damping force even in the ultra-low speed range
- Specially tuned rotary valve with variable damping force
- Long effective stroke only achievable with twin tubes

#### HANDLING

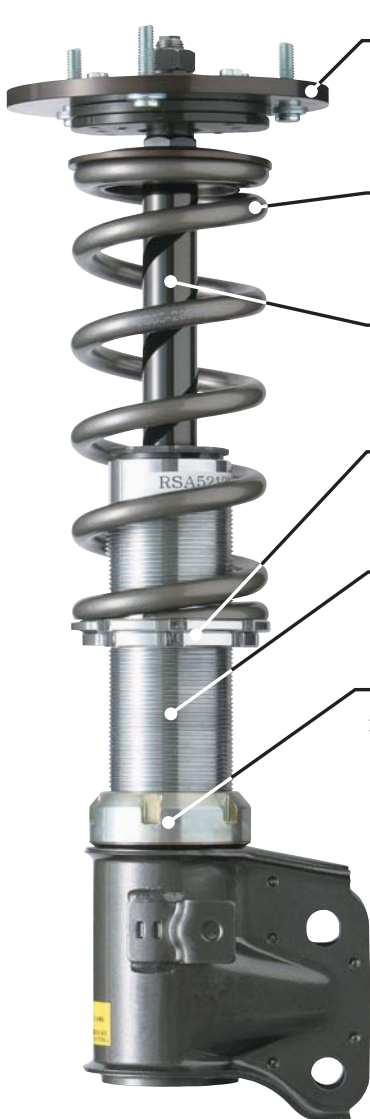
- Smooth steering characteristics and great initial response
- High-level roll balance that creates car behavior perfectly in sync with turn-in action
- Direct grip feel and excellent damping compliance

#### STABILITY

- Excellent stability during high-speed cornering
- Firm but supple ride
- Superior traction

#### FUNCTION

- KYB's original high-rigidity bracket
- Unique locking mechanism that prevents damper from loosening (patent pending)
- Steel lower spring seat + lock seat for enhanced strength



#### Pillow Upper Mount

The upper mount, which receives high G forces, is designed for outstanding strength. This superior quality has been tested in various contexts of motor sports.

#### KAYABA COMPETITION SPRING

Although the module comes with KYB's standard specification, you can specify an option if desired. A helper spring is added on certain vehicle models.

#### Piston Rod Treated with DLC Film

DLC-based friction control technology lets you achieve ideal line-tracing action. The piston rod provides an ideal combination of flat, mild spring characteristics and steering stability.

#### Lower Spring Seat + Lock Seat

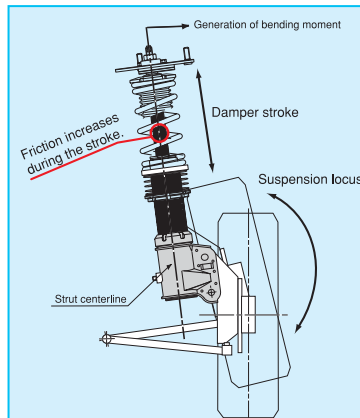
A steel seat is employed for greater strength. The chrome-plated surface receives high road-surface input with plenty of allowance.

#### Overhaul / Tuning is Possible

The damper can be overhauled to restore its initial performance. We can also tune the damper to the actual preference of each driver.

#### Knuckle Bracket + Lock Nut

A combination of KYB's original, high-rigidity special knuckle bracket and lock nut (patent pending). This prevents the damper from loosening, thereby allowing the driver to experience safety and reliability through damper stroke and handling.



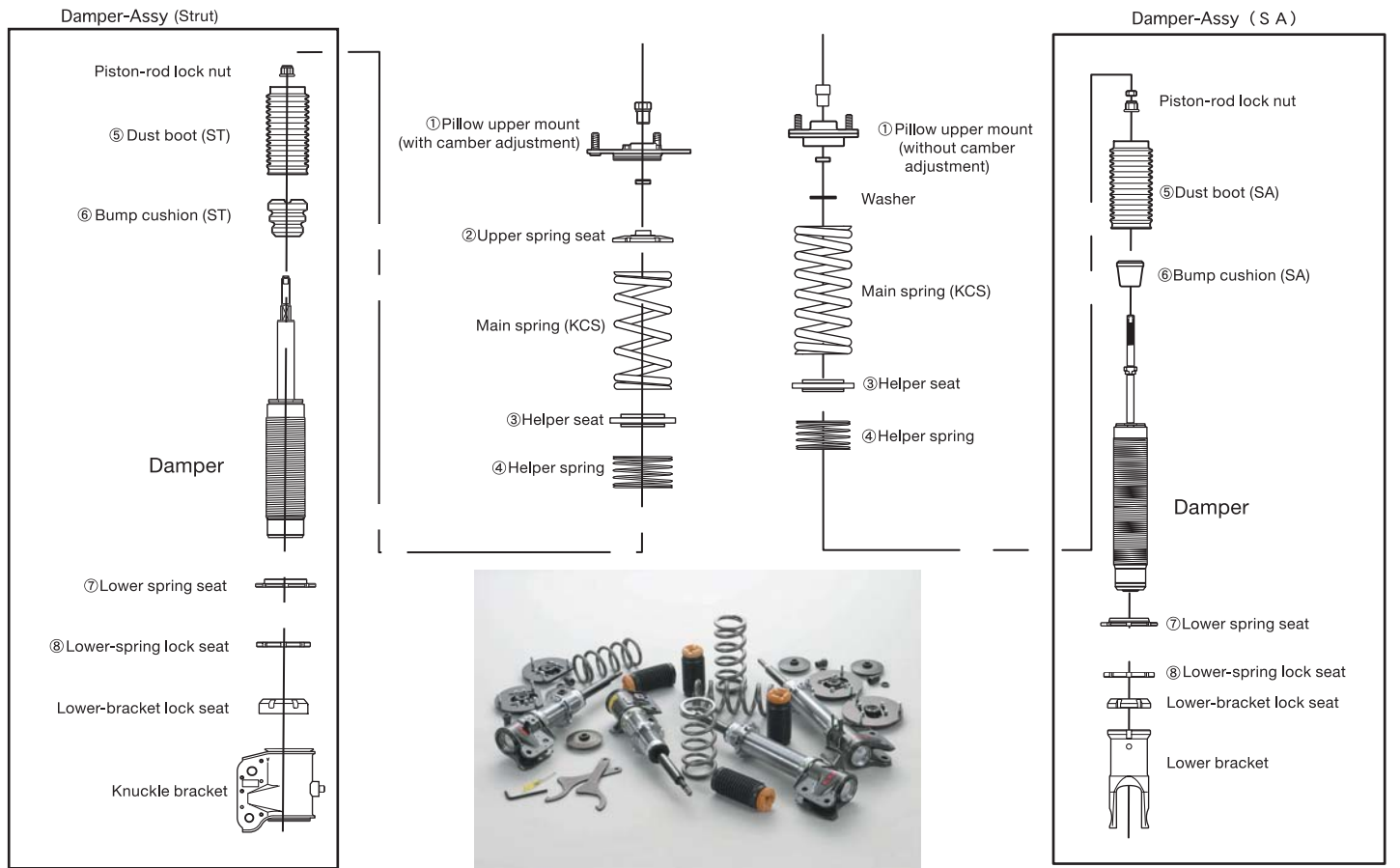
#### <Side force of the McPherson strut suspension>

When a straight spring is used with the McPherson strut suspension, the locus of the suspension draws an "arc" while the damper strokes "vertically." As a result, an outward bending load (bending moment) is generated at the tip of the piston rod. This bending moment prevents smooth stroke action and increases friction.

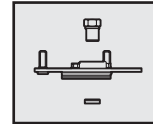
The high hardness, seizure resistance and low friction coefficient of the DLC piston rod have the effect of reducing the friction caused by the bending moment, thus ensuring a smooth stroke action.

# KYB Real Sports Damper spec TR

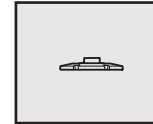
K1 Configuration Diagram (The figure applies to CT9A, while the photograph shows GDB parts.)



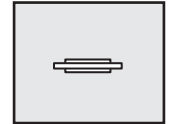
Optional Parts		
Item	Part number	Quantity
① Pillow upper mount	The part number varies according to the applicable vehicle model.	1 set
② Upper spring seat	U6516	1 pc
③ Helper seat	LH6565	1 pc
④ Helper spring	KCS65-H8015 / 8019	1 pc
⑤ Dust boot (ST)	A0101-91622	2 pc
⑤ Dust boot (SA)	A0101-91617	2 pc
⑥ Bump cushion (ST)	10941-06201	2 pc
⑥ Bump cushion (SA)	A0121-06206	2 pc
⑦ Lower spring seat	A0131-93956 (L6558) M 58×2.0	1 pc
⑦ Lower spring seat	A0131-93954 (L6552) M 52×2.0	1 pc
⑧ Lower-spring lock seat	A0131-90538 (R5820) M 58×2.0	1 pc
⑧ Lower-spring lock seat	A0131-90536 (R5220) M 52×2.0	1 pc
⑨ Seat wrench	A0131-99904 (LENCHI)	2 pc



①Pillow upper mount (UM)



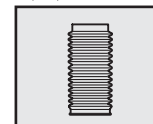
②Upper spring seat (US)



③ Helper seat



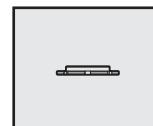
④Helper spring



⑤Dust boot (ST)



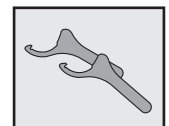
⑥Bump cushion (ST)



⑦Lower spring seat (SPS)



⑧ Lower-spring lock seat(LSPS)



⑨ Seat wrench

## Overhaul / tuning services

This product adopts a structure that can be overhauled / tuned.

Should you require an overhaul or tuning, contact the dealer from whom you purchased the product or your nearest KYB Motor Sports Shop. KYB does not provide the services directly.

You need to present a user ID to receive overhaul / tuning. **Be sure to complete the user registration after purchasing the product.**

The user registration form is enclosed in the product package. Your dealer or KYB Motor Sports Shop may refuse your request for overhaul / tuning service if a valid user ID is not presented.

## Notes on requesting overhaul (OH) / tuning (TU) service

① In both overhaul and tuning, all internal parts except the outer shell and DLC rod will be replaced in order to restore the initial performance.

② When returning the damper, remove the outer parts (upper mount, spring, spring seat, lock seat) and ship only the damper.

If the damper is returned with outer parts attached, there will be a labor charge for removal (2,000 yen per piece).

\*We will not clean or reassemble the removed outer parts, nor can we perform any other work on outer parts.

③ We will not Consider any request for a specification change that might reduce the performance or compromise safety.

④ Should we find a need to repair the returned product (such as a need to replace the DLC piston rod, outer shell, lower bracket, etc.), we will inform you in advance and provide a quotation. In such a case, please understand that the time required to complete the service will become longer than normal.