

PEMEMENT SETTE MONTH BETEINT

SHOCKS

2000 SERIES

Large Body Twin-Tube

The 2000 Series Large Body Twin Tube shock has a large anodized aluminum body designed for $2\frac{1}{2}$ " ID springs. The entire body of the shock is machined with a coarse thread so each rotation of the adjusting nut moves the spring perch 1/8" of ride height. The 2000 Series shock is a great choice for race series that don't allow the 4000 or 4200 series Mono-Tube shocks.

This shock will accept 2 ½" ID Springs and is available in 5", 6", 7", 8" or 9" stroke shafts.



Large Steel Body Twin-Tube

The 2200 Series Shock is the steel version of the 2000 series shock. This shock was designed to fit the rule of "steel body shock" that saves the racer money. The smooth body will accept a coil-over kit to slide over the body. This shock is a great choice for series that do not allow the steel body mono-tube shocks. This shock will accept 2 ½" ID or 5" OD springs and is available in 6", 7", 8" and 9" stroke shafts.

3200 SERIES

Small Body Mono-Tube With or Without Canister

The 3200 Series shock is the ideal shock to provide the forward bite needed with the current late model setups. This small body shock will accept any coil-over spring and perform with the lowest gas pressure of any rear shock. It is built with a special piston for the rear of asphalt late models that is configured to handle the irregularity of the race track without losing forward bite. The 5 degree adjustment needle allows the tuner to adjust the rebound to generate maximum traction. This shock also utilizes a base valve that is installed between the floating piston and the valving piston. This minimizes the gas pressure required and reduces the rod pressure.

The Canister option allows for more oil capacity and less pressure build up which creates maximum grip. The floating piston is located in the remote canister. This allows for substantial reduction of rod pressure.

The banjo swivel hose connected to the remote canister allows for easy mounting of the canister. Quick release canister clamps are available in many sizes located on our Hardware page.





All Shocks are available in adjustable or non-adjustable, and standard straight valvings or split valvings.



4000 SERIES

Large Body Mono-Tube Non-Base Valve Double Adjustable

The 4000 Series Double Adjustable shock dramatically reduces your shock inventory. The double adjustable shock allows you to create many different valving combinations in one shock.

The compression adjustable canister utilizes a tapered needle to control the low speed compression dampening. The high speed compression is controlled through the two stage by-pass in the remote canister. The 8 position compression adjuster is located in the remote reservoir with the schrader valve for fine tuning of the gas pressure.

4200 SERIES

Large Body Mono-Tube

The 4200 Series shock is very similar to our 3200 series shock. The biggest difference is that the 4200 series shock is a large body. This creates more room for the oil capacity creating maximum cooling efficiency. The base valve is installed between the floating piston and the valving piston to isolate the pressure which minimizes the pressure required and also reduces rod pressure.





7200 SERIES

Steel Body Mono-Tube

The 7200 Series Steel Body Mono-Tube shock is designed for the racers that are required to use a steel body. This shock contains the latest base valve technology to provide the lowest rod pressure of any large body mono-tube shocks.

Maximum traction is developed with the use of low rod pressure. The base valve installed between the floating piston and the valving piston isolates the pressure, therefore allowing for substantial reduction in rod pressure.

This shock comes standard with a schrader valve to fine tune the gas pressure in the shock. If the series you race with does not allow schrader valves, the shock is available with the pressure pre-set and a cap installed in the port hole to make it legal in certain series.

The smooth shock body will accept a coil-over kit to slide over the body. They are designed to use $2\frac{1}{2}$ " ID or 5" OD Springs. It comes in 6", 7", 8", 9" or 10" stroke shafts.



SHOCKS



ARS #20100 (2 ½" ID) Cone Spring Seat W/ Pinch Clamp Adjusting Nut



ARS #20101 (2 ½" ID) Flat Spring Seat W/ Pinch Clamp Adjusting Nut



ARS #22101 (5" OD) Cone Spring Seat W/ Pinch Clamp Adjusting Nut for 6" & 7" stroke shocks



ARS #22103 (5" OD) Cone Spring Seat W/ Pinch Clamp Adjusting Nut for 8" & 9" stroke shocks



ARS #30104 (2 ½" ID) Cone Spring Seat W/ Pinch Clamp Adjusting Nut



ARS #301045 (2 ½" ID) Cone Spring Seat W/ Pinch Clamp Adjusting Nut



ARS #30105 (2 ½" ID) Flat Spring Seat W/ Pinch Clamp Adjusting Nut



With more clamping strength for small body rear shocks



ARS #40100T (2 ½" ID) Cone Spring Seat W/ **Tappered** Pinch Clamp Adjusting Nut





ARS #40101T (2 ½" ID) Flat Spring Seat W/ **Tappered** Pinch Clamp Adjusting Nut

ARS #72101 (5" OD) Cone Spring Seat W/ Pinch Clamp Adjusting Nut and Threaded Sleeve for 6" & 7" stroke shocks



Top view



Bottom view



ARS #40104

(2 ½" ID) Special Spring Seat Designed for Bump Springs W/ Pinch Clamp Adjusting Nut (Sinks bump spring down in cup 5/16")

ARS #72103

(5" OD)

Cone Spring Seat W/ Pinch Clamp Adjusting Nut and Threaded Sleeve for 8" & 9" stroke shocks



Complete Inventory 500 lbs to 5,000 lbs Spring Rate





ARS # 600560 **End Caps for** Hyperco and Swift **Bump Springs**





ARS # 600563 End Caps for Bump Springs that Sink Down in Spring Seat (5/16" more travel)

Square Edged Urethane Bump Rubbers 3/4" Tall x 2" OD



ARS #600541 Durometer: 20



ARS #600542 30



ARS #600544 40



ARS #600546 50



ARS #600547



ARS #600548 70

BUMD RUBBERS W/ BONDED WASHERS

Square Edged Urethane Bump Rubbers W/ Bonded Washers 2 1/2" OD (must be used in UHT or Barrel Spring)



ARS #600531 Durometer: 30 ARS #600532



ARS #600533 40 ARS #600534



ARS #600537 50 ARS #600538



ARS #600539 60 ARS #600540



1/8" Split Spacer

(10 Pack)

ARS#60048 1/8" Split Spacer ARS#60049

ARS#60047 1/16" Split Spacer ARS#600471 1/16" Split Spacer (10 Pack)

1/8" and 1/4" Washer Bonded to Bump Rubber



ARS # 600564 ½" Acetal Spacer

ARS # 60050

1.625" OD x .125"

Thick Steel Washer

ARS # 600417

2.125" OD x .125" Thick

Aluminum Washer



ARS # 600566 1" Acetal Spacer



ARS # 60057 ½" Aluminum Spacer



ARS #600504 2.45" OD x .125" Thick Aluminum Washer

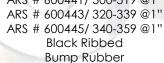




ARS # 600421/200-219 @1" ARS # 600441/300-319 @1" ARS # 600423/ 220-239 @1" ARS # 600443/ 320-339 @1" ARS # 600425/ 240-259 @1" Red Ribbed Bump Rubber



ARS # 600420 1 5/8" Red Ribbed Bump Rubber





ARS # 600429 1 1/8" Red Ribbed **Bump Rubber**

BUMP RUBBERS AND



ARS #60012 High Angularity Steel Spacers (1/2" ID)



ARS #40195

ARS #40120 Shock Oil (1 Gal.)

Schrader Valve ARS #20120 Diaper Pin (2 1/4", 2 1/2", 3" Springs) ARS #72120 (5" Springs)





ARS #20130 Travel Indicator Kit





ARS #610429 Adjusting Tool



#610426 17 Positions



ARS #61041

E-Model Eye

Adjustable

ARS #610425 9 Positions



ARS #20046 3.10" Tall Lined Spring Floater





ARS #60002 **Bearings** (1/2" Bearing w/ injected Liner)



ARS #6X000 Take Up Spring



ARS #40887 Gas Gauge (100 PSI) ARS #40882 (200 PSI)



ARS #20044 Large Body ARS #10047 Small Body Floating Washer for Take Up Spring



ARS #20040

1" Spacer for 2 1/2"

ARS #600571 Movement Indicator



Large Body Spanner Wrench (for 2 ½" or 3" ID Springs) ARS #72050 (for 5" OD Springs)

1" Shaft Extension

ARS #20057

2" Shaft Extension

ARS #20058



Non Adjustable ARS #61045 E-Model 1" Eye 1/2" Shaft ARS Extended ARS #610415 #10052 E-Model 1/2" 9/16" Shaft ARS Extended #20052 ARS #61047 Steel Eye ARS #20072 E-Model 2"



Non-Adjustable 1" Extended Eve 1/2" Shaft ARS #10053 9/16" Shaft ARS #20054

The Stainless Adjusting Wheel allows you to remove and install the shock eye without changing the adjustment. This uses the same shock eye without set screws and detent balls. This makes it easier to change bump stops without changing your shock adjustment.



Extended

ARS	#400)44
Lock	Out	Nut
Vith S	et So	crew



ASPHALT LATE MODEL CHASSIS TUNE SHEET

Options to correct a front end push condition (Understeer)

Shock Adjustments

Tight on Corner Entry:

- -Increase Reb. in LR shock -Increase Comp. in LF shock
- -Reduce Comp. in RF shock

Tight in Middle of Corner:

- -Increase Reb. in LR shock -Increase Reb. in RF shock
- -Increase Comp. in LF shock
- -Reduce Comp. in RF shock
- -Increase Comp. in RR shock -Decrease Reb. in LF shock

Tight on Corner Exit:

- -Increase Reb. in RF shock
- -Decrease Reb. in RR shock -Reduce Reb. in LR shock
- -Reduce Comp. in LR shock
- -Increase Comp. in RR shock -Decrease rebound in LF

Chassis Adjustments

Tight on Corner Entry:

- -Reduce front brake bias
- -Reduce front sway bar rate
- -Reduce RF spring rate
- -Reduce rear panhard bar split
- -Increase RR spring rate

Tight in Middle of Corner:

- -Adjust front tire camber
- -Adjust camber gain
- -Reduce front sway bar rate
- -Decrease LR spring
- -Reduce cross weight in chassis
- -Change front toe-out
- -Raise rear panhard bar (both ends)
- -Increase RR spring rate
- -Decrease LR spring

Tight on Corner Exit:

- -Reduce panhard bar split
- -Increase RR spring rate
- -Increase rear tire stagger
- -Reduce cross weight in chassis
- -Front toe-out
- -Raise rear panhard bar
- -Reduce RF spring rate
- -Reduce angle on rear end top link

Options to correct a loose rear end condition (Oversteer)

Shock Adjustments

Loose on Corner Entry:

-Increase Comp. in RF shock -Reduce Reb. In LR shock -Softer LF Comp. Valving

Loose in Middle of Corner:

- -Increase Comp. on RF shock -Reduce Reb. In LR shock
- -Softer LF Comp. valving

Loose on Corner Exit:

- -Increase Reb. in RR shock -Reduce Reb. in RF shock
- -Increase Reb. in LF shock
- -Reduce Comp. in RR shock -Increase Comp. in LR shock

Chassis Adjustments

Loose on Corner Entry:

- -Decrease camber gain in RF
- -Reduce rear brake bias
- -Increase RF spring rate
- -Increase front sway bar rate
- -Reduce top link angle on rear end
- -Increase cross weight in chassis
- -Reduce rear tire stagger
- -Reduce rear spring rate

Loose in Middle of Corner:

- -Lower rear panhard bar
- -Increase RF spring rate
- -Reduce rear tire stagger
- -Increase front sway bar rate
- -Increase cross weight in chassis
- -Reduce rear weight

Loose on Corner Exit:

- -Split rear panhard bar
- -Lower rear panhard bar
- -Increase angle on rear end top link
- -Increase cross weight in chassis
- -Reduce rear tire stagger
- -Soften LR spring (flat track)
- -Stiffen LR spring (banked track)
- -Increase LR trailing bar angld

TRAILING LINK

The right rear trailing link is designed to generate forward bite by allowing the right rear tire to drive forward and shorten the wheel base under acceleration. These units also permit the chassis tuner to extend the baseline wheelbase on the right rear which allows the race car to rotate in the middle of the corner. Then the trailing link compresses on acceleration creating forward bite.

The internal dampening allows the spring to extend slowly on corner entry and not upset the chassis. A baseline valving has been established, but this can easily be revalved for special applications.

Spring pre-load is easily adjusted to regulate the amount of traction generated to balance the chassis. Spring travel is established by a travel limiter on the shaft that can be easily adjusted. The travel indicator allows the chassis tuner the ability to fine tune the spring pre-load.

Designed with a steel stud on the end cap makes the unit more durable than earlier designs. The 16 1/2" length from the center of the rod end to the jam nut allows

for installing the rod to fit any chassis.

Available with 800, 950,

1000 and 1200 springs.



RAILING LINK

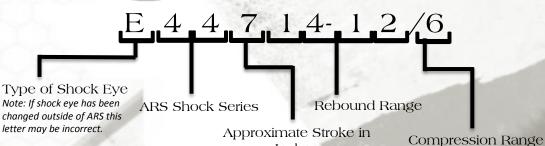
Advanced RACING SUSPENSIONS

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Please Note:

- Older shocks may have different numbers that are not explained
- On a Non-Adjustable Split Valve Shock, the Reb. Dampening is always before the "/", the Comp. dampening is always after.
- Only Split Valve Shocks have a "/"



Type of Shock Eyes:

E/C Double Adjustable shock that uses E-Model to adjust Reb. & remote canister to adjust Comp.

E E-Model

Shock Series:

20 2000 Large Body Twin Tube 22 2200 Large Steel Body Twin Tube

32 3200 Small Body Mono Tube

40 4000 Large Body Double Adjustable

41 4100 Large Body Double Adjustable 42 4200 Large Body Mono Tube

44 4400 Large Body Mono Tube

45 4500 Large Body Mono Tube

72 7200 Large Steel Body Mono Tube

Approximate Stroke:

44" Stroke

Inches

55" Stroke

6 6" Stroke

7 7" Stroke

88" Stroke

9 9" Stroke 10 10" Stroke Rebound Range & Compression Range Numbers will vary depending on your

shock valving.

Visit our website for more examples!

WWW.ADVANCEDRACINGSUSPENSIONS.COM