



PRODUCT GUIDE



PERFORMANCE & RELIABILITY **START HERE!**

822 North Reading Avenue | Boyertown, PA 19512

Whether you ride on or off road, ATV's or UTV's All Balls has you covered with the parts you need to handle any abuse you can dish out! All Balls offers the Industry's most comprehensive line of bearing & seal kits, drive line and suspension kits and control cables. Find out more at – www.allballs racing.com

For installation assistance use the link below and select the appropriate product installation guide or scan the QR code for a direct link.

<http://www.allballs racing.com/iguides.php>



Clutch, Throttle, & Brake Cable Assemblies

- ◆ Black PVC outer jacket for maximum flexibility & durability.
- ◆ Steel inner casing that is tightly coiled for low compression.
- ◆ A pre-lubricated nylon inner sleeve guarantees smooth operation and long life.
- ◆ All wire ends are bird caged prior to terminal casting for superior pull-out resistance.
- ◆ EPDM molded rubber components for high UV resistance & long life.
- ◆ Injected molded components are manufactured from high strength POM material.





Wheel Bearing & Seal Kits

- ♦ All Balls high-speed bearings are manufactured to ABEC 3 precision levels.
- ♦ Triple lip rubber seals keep the grease in and the water and dirt out.
- ♦ Chevron SRI 2 grease contains rust and oxidation inhibitors (-29° C - 177° C).
- ♦ Double lip type TC seals with stainless steel garter springs.

Wheel Spacer Kits

- ♦ Long life spacers feature a light weight black anodized 6061-T6 aluminum body with a zinc plated, hardened steel shell for durability.
- ♦ Steel spacers are zinc plated, hardened steel.



Crankshaft Bearing Kits

- ♦ **Koyo** precision crank bearings.
- ♦ Double lip seals with PTFE contact area tolerate dry start conditions with less journal wear.
- ♦ *Crank seal only kits now available.*



Countershaft Rebuild Kits

- ♦ Kits include case hardened bushing, replacement outer seal along with any o-rings, snap rings or lock washers required to complete the repair.

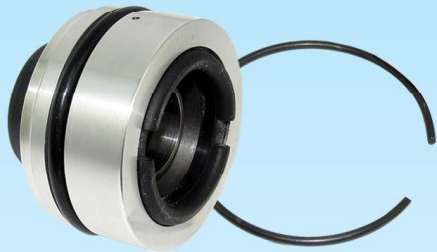
Tapered Steering Bearing Kits

- ♦ Upgraded ball style bearings to heavy duty taper bearings.
- ♦ Direct replacement for OEM taper bearings.
- ♦ Kits contain top and bottom bearing assemblies and seals.



Chain Rollers

- ♦ Designed as a direct replacement for the OEM design.
- ♦ 34mm and 38mm rollers feature an outer mechanical seal to protect the bearings from dirt and water and include mounting hardware.



Rear Shock Seal Head Assemblies

- ♦ Complete assembly, ready to install.
- ♦ Direct OEM replacement featuring the latest OEM style seal with pre-scraper.
- ♦ All designs incorporate an air bleed hole for easy re-assembly.

Fork Bushing Kits - *New* Street Kits Added

- ♦ Bushing kits contain (2) slider bushings (2) leg bushings along with all of the copper washers, o-rings and fork seal snap rings.
- ♦ Bushings have been Dyno tested to 500,000 strokes with less wear than OEM bushings.



Fork & Dust Seal Kits

- ♦ The All Balls fork seals are manufactured to OEM specifications & tolerances to guarantee quality and superior durability.
- ♦ Dust seals feature external garter springs to keep the fork tubes clean.



Swing Arm Repair Kits

- ♦ Kits contain everything required to properly rebuild the swing arm bearing assembly.
- ♦ Needle bearing shafts are made with 52100 hardened & precision ground bearing steel.
- ♦ All metal bushings are case hardened & plated to prevent wear & corrosion.
- ♦ POM composite washer bearings replace thrust needle washers for increased service life.

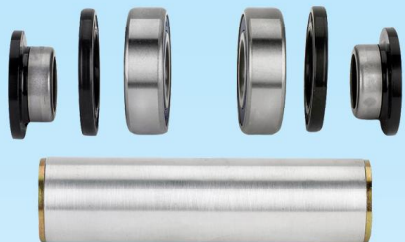
Linkage Repair Kits

- ♦ Kits contain all of the components required to properly rebuild the linkage bearing assembly including the lower shock bearing assembly.
- ♦ Needle bearing shafts are made with 52100 bearing steel that has been hardened & precision ground.
- ♦ All metal bushings are case hardened & plated to prevent wear & corrosion.



Rear Shock Bearing Kits

- ♦ Direct OEM replacement bearing assembly containing all of the required components.
- ♦ Shock bearing assemblies are sold individually for the upper or lower position.



KTM Rear Wheel Bearing Upgrade Kit

- ♦ Increases bearing capacity by 23%.
- ♦ Aluminum wheel spacers feature a zinc plated, hardened steel shell for durability.
- ♦ Inner spacer features hardened steel end caps to prevent premature wear.

KTM Rear Brake Pedal Clevis & Pivot Repair Kit

- ♦ Contains all of the wear items at a fraction of the OEM price.
- ♦ 2 kits fit most models.



Master Cylinder - New KTM With Piston

- ♦ Kits contain all of the components to re-seal leaking master cylinders.
- ♦ Kits contain copper washers, replacement screws where applicable, cup seals, o-rings and replacement piston.



Differential Seal Kits

- ♦ Kits contain the necessary seals to repair oil leaks.

Master Cylinder - *New* Off Road/Street

- ♦ Kits contain all of the components to re-seal leaking master cylinders
- ♦ Kits contain copper washers, replacement screws where applicable, cup seals, and O-rings.



Differential Bearing & Seal Kits

- ♦ Kits contain all of the bearings and seals required to repair your differential.
- ♦ Honda kits contain a pinion repair sleeve to fix worn pinion shafts.



Brake Drum Seals

- ♦ Direct OEM replacement seals.
- ♦ Protects expensive brake components & prolongs the life of brake shoes by replacing worn seals.

Ball Joints

- ♦ Ball joints feature heavy duty steel housings and a POM-M90 bearing cup to isolate the ball end from the steel housing for longer life.



Showa Front Strut Upper Ball Joint

- ♦ This ball joint is available from the OEM's only as a complete strut.
- ♦ Save customers money by offering a replacement ball joint.



Tie Rod End Kits

- ♦ Kits include 2 tie rod ends and jam nuts, (1 LH thread, 1 RH thread).
- ♦ Housings have been strengthened in critical areas.

Tie Rod Upgrade Kits - New Apps

- ♦ Tie rods are manufactured from seamless steel tubing or heavy duty rods.
- ♦ Upgraded failure prone 10mm tie rod ends to heavy duty 12mm ends.



New Rack & Pinion Rod End Kits

- ♦ Save your customer from purchasing a complete rack when tie rods are bent or worn.
- ♦ Each kit includes heavy duty inner and outer rod ends with replacement boot, clamps and any required lock washers.
- ♦ Outer tie rod ends and boot kits available separately.



New Polaris UTV Front Drive Shaft Center Support Bearing

- ♦ Complete pillow block assembly with snap ring.

Front A-Arm Repair Kits

- ♦ A direct OEM replacement. Each kit contains all of the bearings/bushings, bearing shafts, seals, shims and spacers required to rebuild 1 A-Arm.



Rear Independent Suspension Repair Kits

- ♦ Kits contain everything required to rebuild the upper and lower A-Arm & knuckle.
- ♦ Needle bearing shafts are 52100 hardened and precision ground bearing steel.
- ♦ Self lubricating Acetal nylon bushings for better wear and performance.
- ♦ All metal bushings are case hardened and plated to prevent wear and corrosion.
- ♦ *Knuckle only repair kits also available.*



Polaris Can-Am & Arctic Cat A-Arm & IRS *New*

- ♦ New series of kits now includes hardened and precision ground pins. Replacing the OEM plated mild steel pins.
- ♦ Upgraded polyurethane material is designed to be a tighter more precise fit.
- ♦ Bushing only kits also available separately.

Brute Force A-Arm Upgrade Kit

- ♦ The OEM design uses (2) spherical bearings to carry the thrust load of the entire front end. As the spherical bearings begin to wear the external seals become ineffective due to excess play allowing water & debris to enter the assembly. The All Balls kit contains the parts needed for all four A-Arms.
- ♦ (12) Machined Acetal shoulder bushings and hardened steel pins carry the load, greatly extending the life of the A-Arm assembly.

50-1059 | KVF650, 2006-13 | KVF750, 2005-11



All Balls Upgraded Kit



OEM Kit / All Balls Replacement Kit



Sport ATV Rear Carrier Bearing Upgrade Kit

- ♦ Replace (2) side by side bearings with (1) double wide angular contact bearing.
- ♦ Increase bearing capacity and bearing life by 30%.
- ♦ Kits for all late 450cc Sport ATV's.

Lower Steering Bearing & Seal Kits (ATV)

- ♦ Kits include lower steering stem bearing and seals.



CV Boot Kits

- ♦ The All Balls CV Boot material is compounded from an OEM grade DCR66 rubber that is formulated specifically for the demanding requirements of today's ATV's & UTV's.
- ♦ 50% more abrasion resistant than conventional CV boot material to assure long life in today's harsh off-road environments.
- ♦ Rubber compound is tested to -40° F to assure good performance & long life at low temperatures.
- ♦ Kits include two stainless steel clamps that are designed to be tightened without the use of special tools.
- ♦ Lithium based Molybdenum grease insures good lubrication for long CV joint life.



ATV/UTV Cooling Fan Assemblies

- ♦ Complete fan and motor assemblies that are direct OEM replacements & ready to mount.

U-Joint & Yoke Assemblies

- ♦ U-Joints are cold forged from SCM-415 steel, precision ground journals are case hardened to HRC58-61.
- ♦ U-Joints are pre-greased with hi-temp Lithium Complex 3 grease.
- ♦ Bearing cups feature a Quad lip seal to keep contamination out & grease in.
- ♦ Centrally located grease zerk and grease channels in the bearing cup evenly distributes grease.
- ♦ Kits include cap plug to eliminate grease zerk for low clearance applications.
- ♦ *Honda yoke assemblies have upgraded cross diameters from 17mm to 19mm.*
- ♦ *Honda yoke assemblies feature stainless steel clamps and hi-quality neoprene rubber boots for long life and abrasion resistance.*





Snow Drive Shaft & Jackshaft Repair Kits

- ♦ Kits contain all bearings and seals necessary to repair the specified location.
- ♦ Arctic Cat Diamond drive kits are broken out as follows:
 - ♦ Jackshaft kit includes all input shaft bearings & seals.
 - ♦ Drive shaft kit includes all output bearings & seals including caliper bearings.



Racing Banner
26" X 30.5" Part#82-4009



Small Decal
Part#82-4011



Black/Blue Whip
S, M, L, XL Part#82-2001



Black/Blue Whip Hoodie
S, M, L, XL Part#82-1016



Beanie Hat
Part#82-2005



Black & White Cap
Adjustable Part#82-2004



Royal Blue Mohawk

S, M, L, XL Part#82-1013



Washed Navy Beach Style

M, L, XL Part # 82-1019



Black/Yellow Mohawk

S, M, L, XL Part#82-1014



Brown ATV

S, M, L, XL Part#82-2003



Clay Beach Style

M, L, XL Part # 82-1018



Black/Pink Ladies

S, M, L, XL Part#82-1015

**SERIES WE
SPONSOR**



All Balls Racing is proud to be a part of these prestigious racing series. If you're at these events upload pictures or tell us on our Facebook page at <https://www.facebook.com/allballs racing1>. We don't just sit back and make products, we do our part to support this amazing industry.



WINDEROSA

H I - P E R F O R M A N C E G A S K E T S

www.winderosa.com

All Balls racing is excited to announce that Winderosa is part of the All Balls Family. Winderosa is the industry leader in manufacturing high performance gaskets for dirt bikes, ATV's, snowmobiles, personal watercraft, and small engines. They manufacture the most complete gaskets in the industry. Winderosa gaskets are made in the USA.



ARROWHEAD

ELECTRICAL PRODUCTS, INC.

www.arrowheadep.com

All Balls Racing is now part of the Arrowhead Electrical Products, Inc. family of companies.

Arrowhead Electrical Products, Inc. is a global distributor of rotating electrical parts as well as other electrical components. They have been proudly serving customers for over 45 years, and their mission is to sell high quality products at great prices while providing exceptional customer service!

Arrowhead, offers a broad range of starters, alternators, and components for the powersports (Motorcycle, ATV, UTV, Snowmobiles, & PWC) markets.

www.allballsracing.com | 18



822 N. Reading Ave.
Boyertown, PA 19512 | U.S.A.

WWW.ALLBALLSRACING.COM