



The #1 Choice for Hi-Performance **Pinewood Derby** Tools & Wheels



2012-2013 Catalog

***Let Us Help You Build A Winner!***

## Pro Body Tool DWXPBT02



**MSRP: \$11.95 | Patent #: 6,904,694**

The Pro-Body tool will improve the speed of your Pinewood Derby® car by:

1. Axle Slot Preparation – For kits with axle slots, the Pro-Body Tool ensures accurate axle positioning and straightens the factory slots
2. Axle Hole Re-drilling – For races which allow axle holes, the Pro-Body tool serves as a guide for drilling accurate axle holes with a hand drill.
3. Improved axle mounting accuracy equals greater speed!



## Pro Body Jig Tool DWXPBJ01

**MSRP: \$42.95 | Patent #: 6,906,694**

The Pro-Body Jig is an adjustable tool designed to accurately create new axle holes and a lower center of gravity in Pinewood Derby® cars

The Pro Body jig increases the accuracy of the body block by locking all 4 axle points together in 1 setting.

1. The Pro Body Jig is adjustable for any wheel base from the B.S.A. standard to a fully extended wheel base for maximum performance.
2. The Pro Body Jig is designed to help the builder minimize ground clearance and gain lower weight placement (will not work with slots).
3. The Pro body Jig has off set drill guide holes for a raised hole option



# AXES & ALIGN PATENTED TOOLS

## Pro Axle Guide DWXPAG01

**MSRP: \$9.95 | Patent Pending**

Pro Axle Guide is designed to fit in the axle slot of most P.W.D. race car bodies. The tab is designed to precisely space the wheels from the body

1. Axle Insertion - Ensures accurate mounting of axles (in axle slots) to improve alignment. Accurate alignment is critical for top speed!
2. Wheel-to-body Spacing - Establishes the correct gap between the wheel hub and car body. The proper gap minimizes wandering and tail wag.
3. Reduced Risk of Block Damage - provides support to the wood around the axle slot, minimizing the risk of damage.



## Pro Rail Rider Tool DWXPRT01

**MSRP: \$16.95 | Patent Pending**

The Pro Rail Rider Tool™ is the first tool designed to assist the builder in accurately setting up the alignment of a Pinewood Derby car using the Rail-Rider™ method. This method makes for a straight, fast, easy to align car even without a test track.



1. The Pro Rail Rider Tool™ is designed to bend axles 1.5° & 2.5° of axle canting.
2. Alignment adjustments are simple and effective with axle canting.
3. Friction is reduced in all areas of the car.
4. Alignment is totally simplified and a very fast car can be achieved without a track.
5. *A Pro Axle Press is required.*

## Pro Axle Press DWXPAT01



**MSRP: \$16.95 | Patent #: 7,836,740**

The Pro-Axle Press will improve the speed of your Pinewood Derby® car by performing three critical procedures on nail type axles:

1. Axle Straightening – Ensures accurate wheel tracking by creating absolutely straight axles.
2. Axle Rounding – Ensures accurate wheel rotation by creating absolutely round axle shafts.
3. Head Squaring – Ensures proper wheel rotation by squaring the axle head to the axle shaft.

## Pro Wheel Shaver DWXPWS02



**MSRP: \$39.95 | Patent #: 7,249,582**

The Pro-Wheel Shaver is a precision hand powered mini-lathe that will 'shave time' off your Pinewood Derby® runs by:

1. Creating a wheel which is perfectly round, and true to center.
2. Truing the inside edge of the wheel by removing molding marks and excess material.
3. Reduces car vibration.
4. Eases wheel alignment and increases speed.



## Pro Outer Hub Shaver DWXPHS01

**MSRP: \$6.95 | Patent Pending**

The Pro-Hub Tool is required for the Pro-Outer Hub Shaver and the Pro-Wheel Shaver.

1. Ensures accurate rotation by squaring the outer wheel hub to the wheel bore for proper mounting on the Pro-Wheel Mandrel.
2. Improves wheel hub to axle head contact by eliminating flaws on the outer wheel hub.

## Pro Hub Tool DWXPHT01



**MSRP: \$9.95 | Patent #: 6,969,312**

The Pro-Hub Tool is a precision machined tool to improve the accuracy of Pinewood Derby® wheel hubs.

1. Ensures proper axle fit by reaming undersized wheel bores (great for wheels that don't fit on the mandrel!).
2. Ensures accurate rotation by squaring the inner wheel hub to the wheel bore for proper mounting on a Wheel Mandrel.
3. Reduces the wheel hub to car body braking effect by accurately and easily coning the inside wheel hub.



## Pro Bore Polisher DWXPBP01

**MSRP: \$9.95 | Patent Pending**

The Pro-Bore Polisher will improve the speed of your car by reducing friction inside the wheel bore.



1. Eliminates plastic debris and minimizes flaws inside the wheel bore
2. Polishes the wheel bore to a high shine

## Pro Wheel Mandrel DWXPWM01

**MSRP: \$8.95 | Patent D640 298S**

The Pro Wheel Mandrel is a precision-machined tool to accurately hold Pinewood Derby® car wheel in the chuck of a drill.

1. Accurately machined shaft allows for precision use in any drill chuck or Dremel®-type tool.
2. Step-down on shaft allows BSA wheels to be mounted in reverse simplifying work on the inside edge of the tread.
3. Knurled thumb screw eliminates the need to use a screwdriver to mount a wheel (a clumsy operation with the standard mandrel).
4. Beveled thumb screw ensures that the wheel mounts accurately on the mandrel.
5. Screw can be replaced should it be lost or bent.



# PRECISION WHEELS & AXLES

## Pro Axles



### **Straight Cut Axles**    DWXSXA01    MSRP: \$10.95

These axles that have been machined and polished to give you a super fast car. These axles are 100% legal for BSA pack rules. You can use these axles as is, or fine polish them with one of our axle polishing kits.

### **2 Grooved Axles**    DWXMVA01    MSRP: \$13.95

These axles that have been machined, grooved and polished. The two grooves around the axle shaft serve two purposes: 1) They create less surface contact between the axle and wheel bore. 2) They create graphite reservoirs to store graphite for better lubrication.

### **4 Grooves Axles**    DWX4GA01    MSRP: \$13.95

These axles that have been machined, grooved and polished. The four grooves around the axle shaft serve two purposes: 1) They create less surface contact between the axle and wheel bore. 2) They create graphite reservoirs to store graphite for better lubrication.

*All B.S.A.® Components*



## Pro Wheels

### **Precision Stock**    DWXPS01    MSRP: \$24.95

These Precision-Stock Pinewood Derby Speed wheels are official BSA wheels that are precision machined on the outside and will meet any rule book. These wheels can be raced without any additional preparation.

### **Pro Inertia-Lites**    DWXIL01    MSRP: \$34.95

The Pro Inertia-Lite wheels weigh in at 1.5 g and retain all of the lettering and numbering inside so they will meet many Pack, District and Council Rules.

### **Pro Ultra-Lites**    DWXUL01    MSRP: 39.95

The Pro Ultra-Lites weigh in at 1g each with 100's of hours of testing on our track – B.S.A. racing and a WIRL Championship under their belt, you can be assured these are not just any lightened and weakened 1 race wonders.

### **Straight Cut BSA**    DWXMM01    Retail: \$15.95

Our Straight Cut BSA wheels are official NEW style BSA wheels which are precision CNC machined with a perfectly round and flat tread.

*All B.S.A.® Components*



**Precision Stock**



**Pro Inertia-Lites**



**Pro Ultra-Lites**



**Straight Cut BSA**

# WHEELS & AXLES PRECISION

## Pro RS Wheels

**Pro RS Wheel**      **DWXRS01**      **MSRP: \$27.95**

*The "RS" Wheels come complete with 5 axles perfectly sized to the bored hubs.*

**Pro RSN Wheels**      **DWXRSN01**      **MSRP: \$29.95**

*The "RSN" Wheels come complete with 6 needle axles and 2 drill bits for drilling*

The RS Wheels are fantastic wheels for open competition races. These give you a super fast start and amazing straightaway speeds. The RS wheels are precision machined wheels that are extremely light weight and gives you a super fast car with stock size axles. These wheels are completely machined from raw material not molded. This creates a perfectly balanced and symmetric wheel.



## Pro RSX Wheels

**Pro RSX Wheels**      **DWXRXS01**      **MSRP: \$37.95**

*The "RS" Wheels come complete with 5 axles perfectly sized to the bored hubs.*

**Pro RSNX Wheels**      **DWXRSNX01**      **MSRP: \$39.97**

*The "RSN" Wheels come complete with 6 needle axles and 2 drill bits for drilling your mounting holes.*

The RSX Wheels are the ultimate wheels for open competition races. These are the fastest Pinewood Derby wheels available. The RSX wheels are perforated precision machined wheels that are extremely light weight. These wheels are completely machined from raw material not molded. This creates a perfectly balanced and symmetric wheel

# TUNGSTEN CUSTOM WEIGHTS

## Tungsten Cubes DWXCWS01



**MSRP: \$15.95**

The Derby Worx 2 oz. Tungsten Cube kit contains 12 high density 1/4" tungsten cubes, perfect for adding weight in small areas of thinly designed derby cars.

## Tungsten Disc Slotted DWXSRD01



**MSRP: \$23.95**

This is the Hot Rod of weights! It is 1" in diameter & 2.6 oz. tungsten disc with a slot perfect for working your weight in around the rear axle for aggressively rear weighting your car. Putty or cubes can be added in the slot for additional weight.

## Polished Tungsten Canopy DWXTC2501 DWXTC3501



**MSRP: \$18.95 & \$24.95**

The 2.5 oz. and 3.5 oz. Polished Tungsten Canopies are a great way to add weight and a design feature to your racer in one part. It has a stud base for simple mounting, just drill a hole in your preferred weight location and apply with glue.

## Incremental Tungsten Cylinders DWXCWK01



**MSRP: \$15.95**

2 oz. Tungsten Cylinder Kit contains 8 pieces of 3/8" dia. high density, tungsten.

2 pieces: 1/2 oz., 2 pieces: .1/4oz. 4 pieces: .1/8 oz. will give the car builder a dense compact weight solution with adjustability for precise weight and balance. Weights are easily installed by drilling a 25/64" hole in the body in the weighting location.

## Tungsten Putty DWXTP01



**MSRP: \$7.50**

1 ounce of mouldable Tungsten Putty.

Tungsten Putty is formulated to be the richest available for greater weights in a smaller piece. This heavy putty is moldable and shapeable to any cavity or design feature needed allowing weight to be easily added when building or as a quick final weight solution on race day.



**www.DerbyWorx.com**

**videos: [www.youtube.com/DerbyWorx](http://www.youtube.com/DerbyWorx)**

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