Du-Bro Products was created 38 years ago with the mission to provide modelers with top-notch quality R/C Products. Our goal is to cater to the needs of modelers by manufacturing new and innovative products with emphasis on quality and fast, friendly service. We strive to manufacture the majority of our products in the U.S.A., mostly in Du-Bro's own factory.

Du-Bro takes pride in being a family business with a team of caring employees and we are thankful to all the modelers who take the time to write or call with their ideas and suggestions. R/C modeling has been a part of my life from very early on, thanks to my father and all the modelers that shared and taught this great hobby to me. Take the time to teach this hobby to others so it is there for the generations to come. We would also like to encourage you to visit your local hobby shop - they can offer a wealth of information.

**ARISE Mufflers**

**Reduce Noise Without Losing Power!**

We hear over and over again of flying fields being shut down due to noise levels. Field test reports have shown a substantial dB reduction using the ARISE Mufflers. In fact, one such report using a Saito .65 engine and a stock muffler had an average dB reading of 93.5. Using the ARISE 4-Stroke muffler on the same aircraft, the average dB reading was 86.75. Now that is a substantial noise reduction!

2-Cycle Muffler designed to fit most .25 to 1.08 engines.

Featuring a fully adjustable exhaust flow valve for fine tuning, the ARISE Mufflers are universal to fit most any aircraft (.25 to 1.08 2-cycle engines and .40 to 1.50 4-stroke engines). The simple installation allows modelers to switch the ARISE Muffler to different aircraft in no time at all.

This is a remarkable product and a must for modelers with noise concerns. Don't wait until it's too late. Take action today!

1/ pkg

**No. 698** Arise 2-Cycle Muffler

**No. 707** Arise 4-Stroke Muffler

4-Stroke Muffler Adapters:

**No. 708** 10mm x .075 for O.S.® .40, O.S.® .48, O.S.® .525.

**No. 709** 11mm x .075 for O.S.® .70, O.S.® .91, ASP .65 ASP .80, Enya .90, Enya 1.20, Thunder Tiger® .91.

**No. 710** 12mm x .075 for O.S.® 1.20.

**No. 711** 10mm x 1.0 for Saito .40, Saito .50, Saito .56.

**No. 712** 12mm x 1.0 for Saito .65, Saito .80, Saito .91.

**Exhaust Deflectors**

Helps to keep models clean and free of exhaust oils. Available in two sizes - .20 to .34 (3.5-5.5cc) size engines and .35 - .90 (5.5-15cc) size engines. 1/ pkg.

**No. 696** Exhaust Deflector for .20-.34 Engines

**No. 697** Exhaust Deflector for .35-.90 Engines

**Muffler Extension**

A muffler extension may be required on a model with a .40 to .46 size engine using the ARISE Muffler. This muffler extension will fit the following .40 to .46 size engines - ASP®, Magnum™, O.S.® and Thunder Tiger™. Comes complete with two 3mm x 6mm screws. 1/ pkg.

**No. 699** Muffler Extension
**Shock Absorbing**

DU-BRO's Patented Shock Absorbing Design - Reduces Airframe Vibration & Harmonics.

**4-Stroke Motor Mount No. 682**

Accommodates .45 to .80 Size 4-Stroke Engines.

DU-BRO's Largest Motor Mount No. 688 Will Accommodate Engines Ranging from 1.20 to 1.80 2-Cycle Engines and 1.20 to 1.50 4-Stroke Engines.

**Motor Mounts**

An Effective Way to Reduce Noise and More!

When purchasing a DU-BRO motor mount, it is best to understand its fundamentals. Our Motor Mounts are advanced in what they do, but remain simple in how they do it.

Vibration & harmonic resonance are by-products of your engine. In time, they can cause failure of something, it can go up in a broken hinge, a loosened clevis, fuel foaming, worn servo grommets, battery packs, receivers, even structural failure.

Du-Bro's patented, revolutionary designed Motor Mounts are very effective in reducing airframe vibration & greatly reduce fatigue on the entire airframe. They are a totally captive mount that cannot debond & break free. Looking at the exploded view, the spool is solidly bolted to the firewall, the elastomeric rides on the spool & the sleeve which bears the engine & surrounds the elastomeric. The outer rib of the elastomeric absorbs the initial force loads of the engine while the inner solid portion leaves plenty of compression to effectively absorb the power impulses - which causes most of the vibration in your aircraft. 1 pr/pkg.

<table>
<thead>
<tr>
<th>Cat. A</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Wt.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>664</td>
<td>1 1/8&quot;</td>
<td>1 1/16&quot;</td>
<td>1 1/16&quot;</td>
<td>.45</td>
<td>100</td>
</tr>
<tr>
<td>665</td>
<td>1 1/2&quot;</td>
<td>1 1/16&quot;</td>
<td>1 1/16&quot;</td>
<td>.50</td>
<td>100</td>
</tr>
<tr>
<td>666</td>
<td>1 1/2&quot;</td>
<td>1 1/16&quot;</td>
<td>1 1/16&quot;</td>
<td>.55</td>
<td>100</td>
</tr>
<tr>
<td>667</td>
<td>1 1/2&quot;</td>
<td>1 1/16&quot;</td>
<td>1 1/16&quot;</td>
<td>.60</td>
<td>100</td>
</tr>
<tr>
<td>668</td>
<td>1 1/2&quot;</td>
<td>1 1/16&quot;</td>
<td>1 1/16&quot;</td>
<td>.65</td>
<td>100</td>
</tr>
</tbody>
</table>

**4-Stroke Throttle Linkage**

DU-BRO's 4-Stroke Throttle Linkage eliminates the hassle of setting up a throttle linkage for 4-Stroke engines. This superior design leaves more room for linkage movement and is easy to install. Simply drill & tap a 4-40 hole into the side of your motor mount. A must for all 4-Stroke Engine installations. Ideal for 2-Cycle engines as well. 1/pkg. No. 665
**Prop Balancers**

**Tru-Spin Precision Prop Balancer**

A Balanced Prop can Help Reduce dB Levels!

**Precision Balancing Right Out Of The Package!**

Du-Bro's Tru-Spin Prop Balancer is the most precise balancer on the market. Our specially designed locking cone securely centers and locks props on to the balancing shaft for utmost accuracy. Each cone is carefully inspected on a calibrator to make sure it is running true. The balancing shaft is manufactured out of hardened material and then is centerless ground giving precision balance every time. The prop balancer's aluminum wheels turn virtually friction free for precision accuracy. The Du-Bro Tru-Spin Prop Balancer will balance model airplane props of all sizes & weights, boat props, spinners, car wheels, helicopter rotor heads, jet fans, fly wheels, etc. Each balancer comes complete with easy to follow assembly and prop balancing instructions. Packaged in a reusable clamshell blister for storage. A truly precision instrument built for the modeler who expects the very best.

No. 499 1/pkg.

**Lightweight Wheels**

**Treaded Lightweight Wheels for Big Airplanes**

Our new Large Scale Treaded Lightweight wheels are substantially lighter than other aircraft wheels available. These lightweight wheels feature a foam interior yet have a tough and rugged exterior skin for durability - excellent for paved runways! Hubs come with 3/16" (5mm) axle dia. opening and can be drilled out to 1/4". 1/pkg.

<table>
<thead>
<tr>
<th>Tire Dia.</th>
<th>Tire Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 400TL 4&quot; (102mm)</td>
<td>1.150&quot; (29.21mm)</td>
</tr>
<tr>
<td>No. 450TL 4-1/2&quot; (114mm)</td>
<td>1.325&quot; (33.65mm)</td>
</tr>
<tr>
<td>No. 500TL 5&quot; (127mm)</td>
<td>1.500&quot; (38.10mm)</td>
</tr>
<tr>
<td>No. 550TL 5-1/2&quot; (140mm)</td>
<td>1.700&quot; (43.18mm)</td>
</tr>
<tr>
<td>No. 600TL 6&quot; (152mm)</td>
<td>1.850&quot; (47.00mm)</td>
</tr>
</tbody>
</table>

Currently Performing Flawlessly on Airplanes up to and over 50 lbs.

**Aluminum Wheel Covers**

Dress up your aircraft with Du-Bro's aluminum span finish Wheel Covers. These semi-domed wheel covers allow clearance over wheel collars and mount securely in just minutes. Designed to fit our 4"-6" Treaded Lightweight and TV Series Wheels, these wheel covers are sure to add the touch of class to your aircraft. 2/pkg.

No. 400WC Alum. Wheel Covers for 4" TL & TV Wheels.
No. 450WC Alum. Wheel Covers for 4-1/2" TL & TV Wheels.
No. 500WC Alum. Wheel Covers for 5" TL & TV Wheels.
No. 550WC Alum. Wheel Covers for 5-1/2" TL & TV Wheels.
No. 600WC Alum. Wheel Covers for 6" TL & TV Wheels.

**Treaded Lightweight Wheels**

Available in early 1997, these new lightweights feature a foam interior yet have a tough and rugged exterior skin for durability. No more flat spots! 1/pr/pkg.

<table>
<thead>
<tr>
<th>No.</th>
<th>Tire Dia.</th>
<th>Tire Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>175TL</td>
<td>1-3/4&quot; (45mm)</td>
<td>1/8&quot; Axle (3mm)</td>
</tr>
<tr>
<td>200TL</td>
<td>2&quot; (51mm)</td>
<td>1/8&quot; Axle (3mm)</td>
</tr>
<tr>
<td>225TL</td>
<td>2-1/4&quot; (57mm)</td>
<td>5/32&quot; Axle (4mm)</td>
</tr>
<tr>
<td>250TL</td>
<td>2-1/2&quot; (64mm)</td>
<td>5/32&quot; Axle (4mm)</td>
</tr>
<tr>
<td>275TL</td>
<td>2-3/4&quot; (70mm)</td>
<td>5/32&quot; Axle (4mm)</td>
</tr>
<tr>
<td>300TL</td>
<td>3&quot; (76mm)</td>
<td>5/32&quot; Axle (4mm)</td>
</tr>
<tr>
<td>325TL</td>
<td>3-1/4&quot; (83mm)</td>
<td>5/32&quot; Axle (4mm)</td>
</tr>
<tr>
<td>350TL</td>
<td>3-1/2&quot; (89mm)</td>
<td>5/32&quot; Axle (4mm)</td>
</tr>
</tbody>
</table>
Lightweight Wheels

New Treaded Lightweight Cub Wheels!

Treaded Lightweight Cub Wheels
Add the realism & final detail to your J-3 Cub with Du-Bro's Treaded Lightweight Cub Wheels. These J-3 Cub wheels offer bolt together hubs & realistic looking "Cub" wheel covers. Available in three sizes, these lightweights feature a foam interior yet have a tough and rugged exterior skin for durability. 1 pr/pkg.

No. 338TLC 1/5 Scale 3-3/8" Dia. (66mm) 3/16" Axle (4.7mm)
No. 425TLC 1/4 Scale 4-1/4" Dia. (108mm) 5/32" Axle (4mm)
No. 558TLC 1/3 Scale 5-5/8" Dia. (143mm) 3/16" Axle (4.7mm)
No. 338CC 1/5 Scale Cub Caps with mounting screws 2/pkg.
No. 425CC 1/4 Scale Cub Caps with mounting screws 2/pkg.
No. 558CC 1/3 Scale Cub Caps with mounting screws 2/pkg.

Replacement Cub Caps!

Feather Lites
Du-Bro's shock absorbing Feather Lite Wheels offer a high quality product made from high tech foam, tough enough for paved runways as well as grass strips. Feather Lites' treaded design gives you that sporty feel to complete the look of your aircraft. 1 pr/pkg.

No. 1.75L 1-3/4" (45mm) 1/8" Axle (3mm)
No. 2.00L 2" (51mm) 1/8" Axle (3mm)
No. 2.25L 2-1/4" (57mm) 5/32" Axle (4mm)
No. 2.50L 2-1/2" (64mm) 5/32" Axle (4mm)
No. 2.75L 2-3/4" (70mm) 5/32" Axle (4mm)
No. 3.00L 3" (76mm) 5/32" Axle (4mm)
No. 3.25L 3-1/4" (83mm) 5/32" Axle (4mm)
No. 3.50L 3-1/2" (89mm) 5/32" Axle (4mm)

Feather Lite Tricycle Sets
Conveniently packaged in tricycle sets for airplanes with tricycle landing gear. 1 set/pkg.

No. 590 Main Gear 2.25L (57mm) 5/32" Axle (4mm)
  Nose Gear 2.00L (51mm) 1/8" Axle (3mm)
No. 591 Main Gear 2.50L (64mm) 5/32" Axle (4mm)
  Nose Gear 2.25L (57mm) 5/32" Axle (4mm)

Wheels

R & T Tires
Du-Bro's low bounce captive air wheels have flown on more airplanes over the years than any other wheels on the market! The wall thickness is consistent throughout the wheel giving you a balanced tire. Comes complete with a sporty nylon metallic hub. Works well on grass & paved runways. 1/pr/pkg.

No. 1.75 T or R 1-3/4" (45mm) 1/8" Axle (3mm)
No. 2.00 T or R 2" (51mm) 1/8" Axle (3mm)
No. 2.25 T or R 2-1/4" (57mm) 5/32" Axle (4mm)
No. 2.50 T or R 2-1/2" (64mm) 5/32" Axle (4mm)
No. 2.75 T or R 2-3/4" (70mm) 5/32" Axle (4mm)
No. 3.00 T or R 3" (76mm) 5/32" Axle (4mm)
No. 3.25 T or R 3-1/4" (83mm) 5/32" Axle (4mm)
No. 3.50 T or R 3-1/2" (89mm) 5/32" Axle (4mm)

Big Wheels
Smooth inflatable tires with positive seal air valves. Features two piece bolt together hubs and hub caps. Wheels can be inflated (or deflated) thru a tiny valve in the side of the tire. Axle dia. size 5/32" (4mm). 1 pr/pkg.

No. 400RV 4" Dia. (102mm)
No. 450RV 4-1/2" Dia. (114mm)
No. 500RV 5" Dia. (127mm)
No. 550RV 5-1/2" Dia. (140mm)
No. 600RV 6" Dia. (152mm)

Large Scale Treaded Wheels
Our treaded wheels are narrower in width to fit inside wheel pants and retreads easier. Comes with 3/16" (5mm) axle dia. and can be drilled out to 1/4" (6mm) if desired. Comes complete with our positive seal air valves and inflator valves. 1 wheel/pkg.

Tire Width
No. 375TV 3-3/4" Dia. (95mm) 1.160 (29.4mm)
No. 400TV 4" Dia. (102mm) 1.175 (29.8mm)
No. 450TV 4-1/2" Dia. (114mm) 1.375 (34.9mm)
No. 500TV 5" Dia. (127mm) 1.500 (38.1mm)
No. 550TV 5-1/2" Dia. (140mm) 1.750 (44.4mm)
No. 600TV 6" Dia. (152mm) 1.900 (48.2mm)

Tailwheels
Du-Bro Tailwheels are sporty looking and have a machined, one piece aluminum hub. Available in six sizes. 1/pkg.

No. 75TW 3/4" Dia. (19mm) 1/16" Axle (2mm)
No. 100TW 1" Dia. (25mm) 3/32" Axle (2mm)
No. 125TW 1-1/4" Dia. (32mm) 3/32" Axle (2mm)
No. 150TW 1-1/2" Dia. (38mm) 1/8" Axle (3mm)
No. 175TW 1-3/4" Dia. (45mm) 1/8" Axle (3mm)
No. 200TW 2" Dia. (51mm) 1/8" Axle (3mm)
Steerable Nose Gear
Quality, shock absorbing nose gear. 5/32" (4mm) heavy duty wire. Complete with nylon nose gear blocks, steering arm and all hardware. 1 set/pkg.
No. 152 Bent
No. 153 Straight
No. 154 Nose gear wire only

1/2A Steerable Nose Gear
3/32" (2.3 mm) nose gear wire. Small, lightweight and easy to install. Complete with mounting screws. 1 set/pkg.
No. 234

E/Z Mount Steering Arm
Introducing a New Steering Arm Design that mounts right in the spring coil of the nose gear. This new design eliminates filling flat spots, twisting of the steering arm on hard landings and space problems on installation. The E/Z Mount Steering Arm is installed on the nose gear with just one screw and features a rubber shock absorbing design. 1/pkg.
No. 664

Steering Arm Assembly
1-1/4" (31.7 mm) steering arm assembly. Nylon steering arm with brass bushing and set screw fits 5/32" (4mm) nose gear wire. Snap on E/Z Connector included. 1 set/pkg.
No. 155 Assembly
No. 166 Steering arm only

Right Angle Wheel Spacer
Eliminates wheel lock up. Positions wheel at the proper distance from strut to keep wheel spinning freely. Use with 5/32" (4mm) dia. wire. 3/pkg.
No. 342

Nickel Plated
Brass
Dura-Collars
Enough stock so that threads will not strip & can be reworked for many other uses.
Allen Wrench Sizes (*):
1/16", 3/32", 1/8" = .050 *
5/32", 3/16" = 1/16" *
7/32", 1/4" = 5/64" *

No. 137 1/16" 1.5 mm 4/pkg.
No. 138 3/32" 2.3 mm 4/pkg.
No. 139 1/8" 3 mm 4/pkg.
No. 140 5/32" 4 mm 4/pkg.
No. 141 3/16" 4.7 mm 4/pkg.
No. 142 5/32" 4 mm 4/pkg.
No. 143 7/32" 5.5 mm 2/pkg.
No. 144 1/4" 6.3 mm 2/pkg.

Spring Steel Axle Shafts
No. 246 1-1/4" x 1/8" (32mm x 3mm)
No. 247 1-1/4" x 5/32" (32mm x 4mm)
No. 248 2" x 5/32" (51mm x 4mm)
No. 249 2" x 3/16" (51mm x 4.7 mm)
No. 250 3-3/8" x 1/4" (86mm x 6.35mm)

E/Z Adjust Axle
Zinc plated steel. Simply slide axle housing on 5/32" (4mm) nose gear or main wire and tighten with 6-32 set screw. The E/Z Adjust Axles are tightened with a 10-32 set screw. Available in 4 sizes. 2/pkg.
No. 613 1-1/4" x 1/8" (32mm x 3mm)
No. 614 1-1/4" x 5/32" (32mm x 4mm)
No. 615 2" x 5/32" (51mm x 4mm)
No. 616 2" x 3/16" (51mm x 4.7 mm)

Nylon Gear Blocks
Includes two nylon blocks, four bolts, lock washers, nuts, one brass spacer. For 5/32" (4mm) wire. 1 set/pkg.
No. 156

Nylon Landing Gear Straps
Strong nylon straps are molded to fit 1/8" (3mm) and 5/32" (4mm) music wire. Includes (4) straps and (8) 2 x 7/16" slotted sheet metal screws. 1 set/pkg.
No. 156 1/8" (3mm)
No. 157 5/32" (4mm)

Steel Landing Gear Straps
Zinc plated steel - light and strong. Includes (4) straps and (8) 2 x 7/16" slotted sheet metal screws. 4/pkg.
No. 158

Nose Wheel Brake and Link Hook-Up
Complete 10 pc. nose wheel brake and linkage hook up. Features case hardened steel brake drum and other fine quality parts. Requires little pressure to engage. 1 set/pkg.
No. 157

Tailwheel Brackets
These tailwheel brackets are made of lightweight durable nylon. Available in three sizes to fit most airplanes from .40 size to large scale. Includes 1 bracket, 1 wire form, 1 dural- and 3 flat washers. 1/pkg.
No. 376 for .40 size airplanes (1/16" axle dia. 1.5 mm)
No. 376 for .60 size airplanes (3/32" axle dia. 2.3 mm)
No. 377 for large scale airplanes (1/8" axle dia. 3mm)
**Fasteners**

**Nylon Wing Bolts**
The outside hex head will fit your glo-plug/prop nut wrench, inside socket is made to fit standard allen wrenches. Both methods insure a safe, non-slip way to secure or loosen wing bolts. 4/pkg.

- No. 164 10-32 x 2" (5/16" wrench)
- No. 142 1/4-20 x 2" (7/16" wrench)

**Threaded Inserts**
These brass threaded inserts are the perfect way to put threads into wood and mounting rails. Threaded inserts make a simple and effective way to make wing hold downs. Can be used where blind nuts are hard to fit. Available in 5 sizes. 4/pkg.

- No. 391 4-40
- No. 392 6-32
- No. 393 8-32
- No. 394 10-32
- No. 395 1/4-20

**Socket Set Screws**
4/pkg. Car Line

- No. 2168 3MM x 3 (use 1.5mm Allen Wrench)
- No. 2169 3MM x 5 (use 1.5mm Allen Wrench)
- No. 2170 4MM x 4 (use 2mm Allen Wrench)
- No. 2171 4MM x 6 (use 2mm Allen Wrench)

**Flat and Split Washers**
Zinc plated. 8/pkg.

- No. 321 No. 2 Flat
- No. 322 No. 2 Split
- No. 323 No. 4 Flat
- No. 324 No. 4 Split
- No. 325 No. 6 Flat
- No. 326 No. 6 Split

**Nylon Flat Washers**
Today many modelers are using a socket head bolt with a nylon washer for wing bolts and many other uses. 8/pkg.

- No. 635 No. 4 Flat
- No. 636 No. 6 Flat
- No. 637 No. 8 Flat

---

**Blind Nuts**
Du-Bro's "permanent mount" blind nuts are available in 7 sizes. Used for mounting engines, landing gear, cowls, hatches, etc. The perfect mounting nut for hard to reach areas. Zinc plated. 4/pkg.

- No. 133 2-56
- No. 134 3-48
- No. 135 4-40
- No. 606 4-40 24/pkg.
- No. 136 6-32
- No. 607 6-32 24/pkg.
- No. 137 8-32
- No. 138 10-32
- No. 653 1/4-20

**Nylon Insert Lock Nuts**
Zinc plated aircraft quality nylon insert lock nuts. 4/pkg.

- No. 168 2-56
- No. 169 3-48
- No. 170 4-40
- No. 171 6-32

**Steel Hex Nuts**
Zinc plated. 4/pkg.

- No. 560 2-56
- No. 561 4-40
- No. 562 6-32

**Socket Head Sheet Metal Screws**
These zinc plated socket head sheet metal screws are fully threaded and have more applications than wood screws. The non-slip socket head makes it hard to get at places easy! Perfect for mounting servos, landing gear straps, motor mounts, etc. Available in 11 sizes. 8/pkg.

- No. 380 No. 2 x 3/8" or 3/4" x 1 1/2"
- No. 381 No. 2 x 1/2" or 3/4" x 1"
- No. 382 No. 4 x 1/2" or 3/4" x 1 1/2"
- No. 383 No. 4 x 3/4" or 1" x 1 1/2"
- No. 384 No. 4 x 1"
- No. 385 No. 6 x 1/2"
**Button Head Sheet Metal Screws**

This new design is by far the best way to mount servos, cowlings, landing gear, etc. The large head of the screw acts as a washer and they also have a socket head for easy, no slip installation. Bright zinc plated with clear chrome. 8/pk.

- No. 525 2 x 3/8”
- No. 526 2 x 1/2”
- No. 527 4 x 1/2”
- No. 528 4 x 3/4”
- No. 529 4 x 1”
- No. 530 6 x 1/2”

**Socket Head Cap Screws**

Assorted sizes in packages of 4.

- No. 309 2-56 x 1/4”
- No. 310 2-56 x 1/2”
- No. 311 2-56 x 3/4”
- No. 312 4-40 x 1/4”
- No. 313 4-40 x 3/16”
- No. 314 4-40 x 1/4”
- No. 315 6-32 x 1/4”
- No. 316 6-32 x 1/2”
- No. 317 8-32 x 1/4”
- No. 318 8-32 x 1/2”
- No. 319 8-32 x 1-1/4”
- No. 320 8-32 x 1-1/2”
- No. 321 8-32 x 2”
- No. 322 8-32 x 2-1/2”
- No. 323 8-32 x 3”
- No. 324 8-32 x 3-1/2”

**All DU-BRO**

Socket Head Cap Screws

Meet ANSI & IFI Fastener Standards

---

**Waterproof Pushrod Fittings**

These nylon pushrod fittings are perfect for pushrod exits on boats or seaplanes. Designed for .072 dia. rod, 3/pkg.

No. 214

**Servo Mounting Hardware**

Small servo mounting hardware. 60 pieces, enough for five servos. 20 sheet metal screws, 20 flat washers, 20 spacers. 5 sets/pkg.

No. 114

**Rubber Grommets**

Small servo rubber grommets. 20/pkg.

No. 115

**Nylon Wing Mounting Kit**

The up-to-date way to fasten wings to fuselage. Includes nylon bolts and nylon threaded blocks. 11 pc. set. Two sizes.

- No. 159 10-32 thread, 2 sets/pkg.
- No. 256 1/4-20 thread, 2 sets/pkg.

**Mounting Bolt Sets With Blind Nuts**

For mounting engines. Includes 4 each of bolts, flat washers, lock nuts and blind nuts. 10 pc. set. 4 sizes.

- No. 125 2-56 x 1/4”
- No. 126 3-48 x 3/4”

**Socket Head Bolt Sets With Blind Nuts**

Includes 4 each of bolts, flat washers, lock washers and blind nuts plus one allen wrench. 17 piece set. Two sizes. High strength steel.

- No. 129 4-40 x 1/4”
- No. 130 6-32 x 1/4”

**Bolt Sets With Lock Nuts**

Aircraft quality, includes 4 each of bolts, flat washers and lock nuts. High strength steel. 12 piece set. 4 sizes.

- No. 174 2-56 x 1/2”
- No. 175 3-48 x 3/4”

**Socket Head Bolt Sets With Lock Nuts**

12 piece set. 2 sizes.

- No. 178 4-40 x 1”
- No. 179 6-32 x 1”

Allen Wrench Size: 4-40 = 3/32”, 6-32 = 7/64”
**New Safety Barbs!**

**Nylon Kwik-Links**
These sure-lock nylon kwik-links are self-threading nylon for 2-56 rods or threaded couplers. Mini Nylon Kwik-Links are perfect for 1/2A airplanes or any throttle hook-up.
- **No. 228** Mini Nylon Kwik-Link 2/pkg.
- **No. 122** Nylon Kwik-Link 2/pkg.
- **No. 602** Nylon Kwik-Link Bulk Pack 12/pkg.
- **No. 669** 2MM Nylon Kwik-Link (for replacements on imported A.R.F.'s and kits) 2/pkg.

**Spring Steel Solder & Kwik-Links**
Spring Steel Kwik-Links are the tried and true top quality kwik-link. Ideal for any control linkage and hook-up. Use with threaded rods or threaded couplers. Solder Kwik-Links are nickel plated making a strong, attractive and easy to solder connector for servo or horn.
- **No. 109** 2-56 Spring Steel Kwik-Link .072 dia. wire w/link guard 2/pkg.
- **No. 600** 2-56 Spring Steel Kwik-Link .072 dia. wire w/link guard, Bulk Pk. 12/pkg.
- **No. 304** 4-40 Spring Steel Kwik-Link .093 dia. wire w/spring keepers 2/pkg.
- **No. 601** 4-40 Spring Steel Kwik-Link .093 dia. wire w/spring keepers, Bulk Pk. 12/pkg.
- **No. 112** 2-56 Solder Kwik-Link .072 dia. wire w/link guard 2/pkg.
- **No. 603** 2-56 Solder Kwik-Link .072 dia. wire w/link guard, Bulk Pk. 12/pkg.
- **No. 305** 4-40 Solder Kwik-Link .093 dia. wire w/spring keeper 2/pkg.
- **No. 604** 4-40 Solder Kwik-Link .093 dia. wire w/spring keeper, Bulk Pk. 12/pkg.

**Nickel Plated 4-40 Rod Ends**
Perfect for many 1/4 scale applications, including strut attachments, flying wires, tailfin stab brace and bi-plane aileron connectors. 2/pkg.
- **No. 302** Threaded (Use w/4-40 threaded rod)
- **No. 303** Steel Solder (Use w/.093 rod)

**Nickel Plated 4-40 Steel Rod End Assembly**
Perfect for many 1/4 scale applications, including strut attachments, flying wires, tailfin stab brace and bi-plane aileron connectors. Complete set includes 2 Threaded Rod Ends, 4 No. 202 Steel Straps, (2) 12" long .093 dia. rod with 3/4" 4-40 thread, (4) 1/4" x 4-40 screws and (4) 4-40 nuts. 2/pkg.
- **No. 205**

**Threaded Couplers**
Designed for use with Du-Bro Kwik-Links and ball links. No. 111 & 212 are 2-56, threaded 3/4" (19mm) long. 2mm Threaded Couplers are used with Du-Bro's 2mm Nylon Kwik-Links and can also be soldered on Du-Bro's 2mm push-rods. The coupler length for all part nos. is 1-1/4" (31.7mm) long.
- **No. 111** For 1/16" dia. wire 2/pkg.
- **No. 212** For .072 wire 5/pkg.
- **No. 695** For 2mm dia. wire 2/pkg.

**4-40 Threaded Couplers**
Machined out of steel for maximum strength. Thread length is 5/8" (16mm) long and overall length is 1-1/2" (38mm). Nickel plated for easy soldering. 2/pkg.
- **No. 336** 4-40 Thread, .093 dia.

**Rigging Couplers**
These couplers thread into Du-Bro steel Kwik-Links and are perfect for cable controls, flying wires and other linkage requirements. 7/8" (22.2mm) long. 2-56 thread, 1/32" (0.8mm) eyes. 4-40 rigging couplers are 7/8" (22.2mm) long and .050 (1.2mm) eyes. 4/pkg.
- **No. 201** 2-56 (Steel)
- **No. 618** 4-40 (Steel)

**Split Coupling Sleeves**
Pre-tinned for easy soldering. Designed for extending or coupling push rods. 4/pkg.
- **No. 110** For .062-.072 wire
- **No. 659** For .093 wire

**Threaded Rods**
Can be used in conjunction with nylon or steel Kwik-Links or with ball links where extra long pushrods are needed. Bendable and strong. Rods are available with 3/4" (19mm) thread on one end (.072 rods w/2-56 thread) (.093 rods with 4-40 thread). Sold individually.
- **No. 172** 12" (305mm) .072 rod 2-56 thread 36/tube
- **No. 173** 30" (762mm) .072 rod 2-56 thread 36/tube
- **No. 144** 12" (305mm) .093 rod 4-40 thread 24/tube
- **No. 145** 30" (762mm) .093 rod 4-40 thread 24/tube
- **No. 693** 2 MM x 305mm 36/tube
- **No. 694** 2 MM x 762mm 24/tube

**Fully Threaded Rods**
12" (305mm) fully threaded rods are stainless steel and perfect for making custom lengths to the size you need. Available in 2-56, 4-40 and 3mm thread.
- **No. 378** 2-56 Fully Threaded Rod 12/tube
- **No. 379** 4-40 Fully Threaded Rod 12/tube
- **No. 723** 3MM Fully Threaded Rod
Control Hook-Ups

E/Z Connectors
Available in 3 different styles to fit all your installation requirements. Comes complete with all hardware.

- No. 121 E/Z Connector (brass) 2/pkg.
- No. 605 E/Z Connector (brass) bulk pack 12/pkg.
- No. 489 Heavy Duty E/Z Connector (Steel) 2/pkg.
  (Use 3/32 Allen Wrench-not included)
- No. 490 Heavy Duty 4-40 E/Z Connector (Steel) 2/pkg.
  (Use 3/32 Allen Wrench-not included)
- No. 308 Nylon Replacement Washer 12/pkg.

Kwik Grip E/Z Connector
Du-Bro's Kwik Grip E/Z Connector features a hex style design which allows for a secure hold on the E/Z Connector while tightening the screw. The Kwik Grip E/Z Connector Wrench allows the modeler to tightly secure the E/Z Connector from six different angles providing a tight grip while tightening the locking screw.

- No. 608 Kwik Grip E/Z Connector 2/pkg.
  (Use 3/32 Allen Wrench-not included)
- No. 609 Kwik Grip E/Z Connector Wrench 1/pkg.

Nickel Plated Steel Straps
Pre-drilled for 4-40 screws or bolts. These 1/16" (1.5 mm) thick straps fit perfectly into Du-Bro No. 302 and No. 303 Rod Ends. They can be bent or re-worked to your applications. Straps are 1-5/8" in length. 4/pkg.

- No. 292 90° Nylon Bellcrank Assembly
  Set includes 90° nylon bellcrank with brass bushing, 4-40 x 3/4" (19mm) screw, washer, lock washer and 4-40 nut.
  2/pkg.
  - No. 167

Strip Aileron Horn Wires
With Bearings
Set of two .093 (3/32") dia.) horn wires with nylon bearings attached. Ideal for strip ailerons. High, mid, or low wing planes. 1 set/pkg.

- No. 164

Nylon Bearings
Ideal for aileron and elevator linkage, can also be used for tail-wheel mounting bracket. .093 (3/32") dia.) wire. Bearings are 5/8" in width. 4/pkg.

- No. 124

Strip Aileron Horn Connectors
Simplifies servo link hook-ups. Includes (2) 3/32" Dura-Collars, (2) nylon horn connectors and (2) slot head screws. For .093 wire. 2/pkg.

- No. 103

Control Hook-Ups

1/2A Aileron Linkage
Easy to install, light and compact. Especially made for 1/2A airplanes. Features Mini Kwik-Link, Spring Threaded Couplers, Nylon Rod Ends, Brass Tubes and 1/16” dia. wire. 1 set/pkg.

- No. 231

Strip Aileron Linkage
Can be used on any high, mid, or low wing plane. Complete, fully adjustable 22 piece set includes all hardware for 2-56 thread spring steel Kwik-Link and link guards for safety under heavy stress. Horn wire 3/32" dia. 1 set/pkg.

- No. 101

Strip Aileron Ball Link
Fully adjustable 16 pc. aileron hook-up. No play, no binding, super precision. Eliminates differential throw. Use on high, mid, or low wing planes utilizing strip ailerons. Includes all hardware for 2-56 thread and link guards for safety under heavy stress. Horn wire 3/32" dia. 1 set/pkg.

- No. 196

E/Z Adjust
Strip Aileron Horn Sets
These E/Z Adjust Strip Aileron Horn Sets are easy to install and come complete with a threaded strip aileron horn which has 3/4" adjustment range. E/Z Adjust Nylon Horn Bracket for easy adjustment and nylon housing which is glued in the wing for friction-less aileron operation. 1 set/pkg.

- No. 556 3/32" E/Z Adjust Strip Aileron Horn Set

- No. 557 3/32" E/Z Adjust Horn Bracket
  (For 4-40 Thread)

- No. 558 Heavy Duty E/Z Adjust Strip Aileron Horn Set

- No. 559 Heavy Duty E/Z Adjust Horn Bracket
  (For 6-32 Thread)

Control Over-Ride Servo Saver
Adjustable, spring action assembly protects servo from shock and stalling. Excellent for throttle or rudder nose-wheel hookups. Light and heavy duty springs included for .072 dia. control rods. 1/pkg.

- No. 120

V-Tail Mixer
For V-Tails, flying wings and to control rudder and flaperons. Utilizes ball links throughout for an absolute "no-play" linkage. Light, compact and fully adjustable. 3/32" collars and ball links have 4-40 thread. 2-56 threaded push rod and nylon self-threading nylon sockets. 1 set/pkg.

- No. 215
**Control Hook-Up Assemblies**

**Nylon Kwik-Link With Rod**
Du-Bro's No. 228 Mini Nylon Kwik-Link on a 12" .072 dia. rod with 3/4" 2-56 thread.
- **No. 229** Sold individually or 18 pcs./tube
- **No. 230** Skin packed 5 pcs./card

Du-Bro's No. 122 Nylon Kwik-Link on a 12" .072 dia. rod with 3/4" 2-56 thread.
- **No. 123** Sold individually or 12 pcs./tube
- **No. 184** Skin packed 5 pcs./card

**Kwik-Link With Rod**
Complete assembly for any control linkage. Allows easy removal for on-the-field adjustments.
- **No. 106** 4" long, .072 dia. rod 3/4" thread 2-56 and split coupling sleeve. 1/pkg.
- **No. 108** 12" long, .072 dia. rod 3/4" thread 2-56. Sold individually or 12 pcs./tube.
- **No. 185** 12" long, .072 dia. rod 3/4" thread 2-56. Skin packed 5/card.
- **No. 306** 12" long, .083 dia. rod 3/4" thread 4-40. Sold individually or 12 pcs./tube.

**Lazer Rod Push Rods**
Using a highly controlled process, Du-Bro has devised a way to stabilize the Push Rod material so that neither heat nor cold has much effect on trim settings. In fact, in our tests, we found less growth or shrinkage than any plastic push rod on the market. Again, Du-Bro has made a good product even better. Just look at these features!

- The red outer housing has 6 contact points giving the inner push rod a smooth positive control.
- Inner push rod is translucent in color to better match your color scheme and give your model a more realistic look.
- 4" Threaded Rod slides inside inner push rod to give a stiffer exit to control horn.
- Two push rods per package - available in 36" & 48" lengths.
- All hardware included.
- Just the right flexibility and strength for the perfect installation.
- **No. 500** 36" (914mm) Lazer Rod 2/pkg.
- **No. 501** 48" (1219mm) Lazer Rod 2/pkg.

Also available are Lazer Rod Push Rod Exits for a clean look on your aircraft.
- **No. 502** Lazer Rod Push Rod Exits 2/pkg.

**Engine Control Flex-Cable Assembly**
Provides the ultimate in control cable assembly. Highly flexible, free running and adjustable at control horn. Complete assembly includes: 1 each of No. 228 Mini Kwik-Link, No. 112 Solder Link, 2-56 Threaded Coupler, Flex-Cable & Nylon Sleeve. Nos. 343 & 344 includes 1 No. 122 Nylon Kwik-Link & the above parts. 1/pkg.
- **No. 165** 20" (508mm)
- **No. 343** 36" (914mm)
- **No. 344** 48" (1219mm)

**2-56 & 4-40 Pull-Pull System**
These Pull-Pull Systems are available in two sizes, 2-56 and 4-40. It comes complete with 15 feet of nylon coated cable and all mounting hardware. Ideal for pull-pull installations on rudder, elevator, tail wheels, etc. 1 set/pkg.
- **No. 517** (2-56)
- **No. 518** (4-40)

**NY-Steel Kwik-Rod Assembly**
No shrink, no stretch, free running and fully adjustable at control horn. Complete 31" assembly includes No. 112 Solder Link, 1 No. 109 Kwik-Link, 1 Flexible Nylon Sleeve, 1 30" long .072 dia. rod with 3/4" 2-56 thread and 2 link guards. 1/pkg.
- **No. 102**

**Mini NY-Steel Pushrod Assembly**
Perfect for 1/2A airplanes. No shrink, no stretch, free running pushrod assembly. Light weight, flexible and strong. Complete 20" assembly includes 4 No. 228 Mini Kwik-Links, 4 No. 232 Spring Threaded Couplers, two 20" long .047 dia. wire and 2 nylon sleeves. 2/pkg.
- **No. 113**

**30" Pushrod Housing**
This pushrod housing can be used with 2mm, 2-56 and 4-40 pushrods. 18/tube. Sold individually.
- **No. 700**

Now!
Car Accessories

Other Car Accessories in this Catalog:
- Ball Link Sockets
- E/Z Adjust Ball Links
- Flat Washers
- Heat Shrink Tubing
- Hex Nuts
- Hook & Loop Mounting Material
- Kwik-Stik Lead Weights
- Metric Hex Wrench
- Metric Socket Head Cap Screws
- Nylon Insert Lock Nuts
- Socket Set Screws
- Standard & Metric Ball Wrenches
- Swivel Ball Links
- Swivel Ball Link Shims
- Threaded Ball Links
- Threaded Balls
- Turnbuckles

Du-Bro carries a wide range of quality hardware and accessories for R/C Cars.

Boat Accessories

Adjustable Outboard Motor Mount
These fully adjustable motor mounts are easy to install and give the boater the option of raising and lowering the motor 3/8 of an inch for better handling. You also have the option of angling or trimming your motor with easy to reach adjustments. The motor mounts are made of aluminum and glass filled nylon and also come complete with stainless steel mounting hardware. 1/pkg.
- No. 3101 3.5 Adj. Outboard Motor Mount
- No. 3102 7.5 & 11 C.C. Adj. Outboard Motor Mount
- No. 3125 Replacement 3.5 Mount
- No. 3126 Replacement 7.5 & 11 C.C. Mount

Outboard Steering Control Linkage
3.5 Outboard Steering Control Linkage Kit comes complete with a single Du-Bro 16” 4-40 Push Rod, one Solid Kwik-Link, one 4-40 Swivel Ball Link and one 3/16” Dura-Collar. The 7.5 Steering Linkage Kit comes with two each of all the hardware making it a dual steering system for the larger engines. 1/pkg.
- No. 3103 3.5 Outboard Steering Control Linkage
- No. 3104 7.5 & 11 C.C. Outboard Steering Control Linkage

Throttle Cable Assembly
Provides the ultimate in control cable assembly. Highly flexible, free running and adjustable at the throttle arm. Complete assembly includes one 20” Throttle Cable and Housing, one Solid Kwik-Link and one Heavy Duty E/Z Connector. 1/pkg.
- No. 3105

Throttle Cable Clamp
Our Throttle Cable Clamp mounts off your crank case to enable you to hold your Throttle Cable Housing. Complete with stainless steel hardware. 1/pkg.
- No. 3106

Waterproof Push Rod Seals
These Waterproof Push Rod Seals are quick and easy to install. The seal may be removed by simply removing the o-ring. These waterproof seals give a full 1" of movement and will accept either 2-56 or 4-40 push rods. 2/pkg.
- No. 3108

Antenna Mount
Mounts easily! Simply drill a 3/16" hole. Du-Bro's Antenna Mount allows you to mount your antenna vertically or horizontally. 1/pkg.
- No. 3107
Rig Out Your Field Box

Keep all your Du-Bro Field Accessories organized and at a finger tips reach!

Glo-Plug Caddy
A must for every modeler's field box. Made of tough fuel resistant rubber and holds up to (12) 2-cycle or 4-cycle glo-plug elements from dirt, moisture and hard knocks. Can be mounted directly to field box. See page 36. No. 498

4-Way Socket Wrench
Affordable with Du-Bro's proven quality. Comes with Storage Klip to mount to field box. Fits American and metric sizes and has 3 built-in-glo-plug holders. See page 28 for complete description. No. 701/702 (XL)

Special glo-plug retaining clip securely holds glo-plug for easy installation and removal.

Kwik-Start Glo-Plug Ignitor
1300-1450 mAh of pure Sanyo fire power to start your model. Our Kwik-Start securely mounts on glo-plug for starting engines. Comes complete with Kwik-Mount Storage Klip and charger. See page 45 for Du-Bro's complete line of Glo-Plug Ignitors. No. 666/668 (XL)

About the Field Box:
The field box shown is by Cermark/Maxx Model Supply, Inc. See your local hobby store for a field box to suit your needs.

Deluxe 6 Piece Standard and 5 Piece Metric Ball Driver Sets
The perfect tool for getting at those hard-to-reach places. Ball wrenches make it possible to turn socket head screws or bolts up to a 30° angle. Comes complete with holder and mounting screws. For a complete line up of Du-Bro's Ball Drivers and Ball Driver sets, see page 29.
No. 705 Std (.050, 5/64", 3/32", 7/64", 9/64", 5/32")
No. 706 Metric (1.5mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm)

E/Z Fill Fuel Pump
Pumps over 1-1/2 ounces per squeeze and will fill fuel or defuel model. Works with both gas and glo-fuel and comes complete with 1 gallon container. See page 43 for complete description. No. 520

Reaches Socket Head Bolts up to a 30° Angle.
E/Z Trimmer

The E/Z Trimmer Makes Straight, Clean & Accurate Cuts.

For years, modelers have been using X-Acto® and other style hobby knives for trimming covering material. Now Du-Bro has designed a trim tool that adds precision to your already familiar hobby knife. This easy to use, affordable trim tool works like a "straight-edge on a knife". It features an adjustable see-thru trim guide with 4 trim sizes, 1/16" (1.5mm), 1/8" (3.1mm), 3/16" (4.7mm) and 1/4" (6.3mm). Quickly adapts for right and left hand use. Comes complete with two #19 knife blades and complete instructions. The tool is used with a #2 X-Acto® handle.

Trimming Leading Edges Has Never Been Easier.

No. 661 E/Z Trimmer, 2 #19 X-Acto® Blades
No. 662 Leading Edge Trim Guide for E/Z Trimmer
No. 663 E/Z Trimmer Master Set (E/Z Trimmer, Leading Edge Trim Guide, #2 X-Acto® Handle & 4 - #19 X-Acto® blades)

Thousands of Modelers Made The E/Z Trimmer Their No. 1 Choice!

E/Z Trimmer with Transparent Trim Guide

Comes complete with #19 X-Acto® Blades

Hinge Slotter Kit

Hinge Slotting Has Never Been Easier!

Du-Bro hinge slottor takes the hassle out of slotting control surfaces for gluing hinges. The centering/parallel guide, centers hinge slottor on up to 3/4" (19.0mm) material. Four handle set plus guide and centering tool for three different size slotting forks: mini, standard and heavy duty hinges. Designed to work with all Du-Bro hinges. The 3 slotters and the "picker" are permanently mounted to red nylon handles. Packaged in reusable, recyclable clamshell storage blister. 1 set/pkt.

No. 660

Transmitter Tray

Precision Control, Comfortable & Lightweight!

If you want precision control of your radio control model, take a look at Du-Bro's transmitter tray. This transmitter tray is ergonomically designed with full adjustment of the aluminum shoulder straps and palm rest. The transmitter tray allows for finger tip handling to achieve precision control of the model. Constructed of polished anodized aluminum stock and UV stabilized plastic, this transmitter tray will securely hold any transmitter. If you haven't tried one, see your local hobby store today.

No. 620

Weighs Only 2 lbs. 7 oz.

Transmitter Tray Features Adjustable Palm Rest.

Transmitter Securely Fastens to Transmitter Tray.
Tools

Tap & Drill Sets
These high quality steel tap & drill sets are available in 6 popular sizes: 2-56, 4-40, 6-32, 8-32, 10-32 & 1/4-20. 1 set/pkg.
No. 360 2-56
No. 361 4-40
No. 362 6-32
No. 363 8-32
No. 359 10-32
No. 364 1/4-20

Metric Tap & Drill Sets
These high quality steel metric tap & drill sets are available in 5 popular sizes:
No. 370 2.0MM
No. 371 2.5MM
No. 372 3.0MM
No. 373 4.0MM
No. 374 5.0MM

Full Set of Standard/Metric Tap & Drills
For the modeler who would like to have a complete set of taps and drills at a savings over purchasing individual sets. The five piece assortment comes complete in vinyl storage pouch.
10 piece standard tap & drill set comes complete with 2-56, 4-40, 6-32, 8-32 and 10-32 tap & drill sets. 1/pkg.
No. 509

10 piece metric tap and drill set comes complete with 2MM, 2.5MM, 3.0MM, 4.0MM and 5.0MM tap and drill sets.
1/pkg.
No. 610

T-Style Tap Handle
The collet on Du-Bro’s new T-Style Tap Handle will securely hold the tap while tapping. Will accommodate 2-56 to 1/4” taps.
1/pkg.
No. 633

4-Way Socket Wrench
Our 4-Way Socket Wrench not only offers modelers a quality socket wrench at an affordable price. Available in two sizes (standard and XL) our wrench will accommodate both American and Metric sizes (5/16", 3/8", 7/16", 1/2", 9mm, 10mm, 11mm, 12mm). Also features 3 built-in glio-plug holders and special retaining clip.

Storage Klip - Mounts securely to field box keeping 4-way wrench readily accessible. (Storage Klip and mounting screws come complete with 4-Way Wrench). 1/pkg.
No. 701 4-Way Socket Wrench (with Storage Klip)
No. 702 4-Way Socket Wrench XL (with Storage Klip)

.050 Right Angle Ball Wrench
3” long and fits 4-40 socket set screws. Ideal for most wheel collars & other set screws. 1/pkg.
No. 508

6” Allen Wrenches
Two 6” wrenches to fit both socket head bolt sizes, 4-40 and 6-32. 2/pkg.
No. 131

Metric Hex Wrench
Car Line 1/pkg.
No. 2128 2.0MM
No. 2129 2.5MM
No. 2130 3.0MM
No. 2131 4.0MM

.050 Ball Wrench
The perfect wrench to fit our wheel collars and other hardware set screws. 1/pkg.
No. 507

Standard & Metric Ball Wrenches
The perfect tool for getting at those hard-to-reach places. Ball wrenches make it possible to turn socket head screws or bolts from any angle. Available in many sizes. 1/pkg.
No. 442 5/64” (2-56 Skt. Hd.)
No. 2151 5/64” (2-56 Skt. Hd.) Car Line
No. 443 3/32” (4-40 Skt. Hd.)
No. 2152 3/32” (4-40 Skt. Hd.) Car Line
No. 444 7/64” (6-32 Skt. Hd.)
No. 445 9/64” (8-32 Skt. Hd.)
No. 446 5/32” (10-32 Skt. Hd.)
No. 447 5 pc. Standard Set

Metric Ball Wrenches 1/pkg.
No. 448 1.5MM (2.0MM Skt. Hd.)
No. 2153 1.5MM (2.0MM Skt. Hd.) Car Line
No. 449 2.0MM (2.5MM Skt. Hd.)
No. 2154 2.0MM (2.5MM Skt. Hd.) Car Line
No. 450 2.5MM (3.0MM Skt. Hd.)
No. 2155 2.5MM (3.0MM Skt. Hd.) Car Line
No. 451 3.0MM (4.0MM Skt. Hd.)
No. 452 4.0MM (5.0MM Skt. Hd.)
No. 453 5 pc. Metric Set

Screw Driver and Ball Driver Holder
Securely mounts on field box or work bench to get screw drivers and ball drivers organized.
No. 704
**Tools**

**Threaded Stud Driver**
This unique design takes the hassle out of threaded studs and threading threaded rods into plastic push rods (such as Du-Bro Lazer Rods and other push rods on the market). To use, simply thread your stud or rod into either the 4-40 or 2-56 end of the driver until it bottoms out, then thread rod/stud into plastic push rod until desired length is reached and finally back off driver. It's fast and easy! No more damaging threads with pliers. 1/pkg. No. 504

**Kwik-Link Removal Tool**
Can get into almost any place to remove Kwik-Link clevises with ease. At one end the tool is in a fixed position and the other with a 360° rotating head which simply locks in place with the thread shaft. 3-1/2" (9mm) long. 1/pkg. No. 555

**Frequency I.D. System**

**Frequency Identification Number Clip**
Easily snaps on & off your antenna. Guide lines help to center numbers on clip. Available in white only. 1/pkg. No. 465

**Frequency Identification Numbers**
These vinyl numbers are 1-1/2" high with a 1/4" stroke. Backing adheres permanently to Du-Bro No. 465 Frequency ID Number Clip. Also can be used on R/C cars or boats for racing numbers as well as on airplanes. Available in black only. 2/pkg. No. 465
  - No. 465 Number 0
  - No. 466 Number 1
  - No. 467 Number 2
  - No. 468 Number 3
  - No. 469 Number 4
  - No. 470 Number 5
  - No. 471 Number 6
  - No. 472 Number 7
  - No. 473 Number 8
  - No. 474 Number 9

**Aircraft/Surface Identification Flag**
Brightly colored flags are 1" x 8" & meet AMA Frequency regulations. Complete with Du-Bro Hook & Loop material making it easy to attach & remove from antenna. 1/pkg.
  - No. 466 (72 Mhz Red) Aircraft I.D. Flag
  - No. 467 (75 Mhz Yellow) Surface I.D. Flag

**Control Horns**

**Super Strong T-Style Nylon Control Horn**
Stronger than conventional nylon control horns, these aerodynamically designed Super Strong control horns are complete with back plate and 2-56 x 1/2" socket head cap screws for easy installation. 1-3/8" long with 5 adjustment positions. 2/pkg. No. 716

**Super Strong Large Scale T-Style Nylon Control Horns**
These large scale T-Style control horns were aerodynamically designed with large scale airplanes in mind. 1-3/8" long with 4 adjustment positions and 4 mounting holes. Comes complete with back plate and mounting screws. 2/pkg. No. 366

**1/2A T-Style Control Horns**
Nylon 3/4" long with 4 adjustment positions. Includes 2 control horns centered on base, 2 self threading nut plates and four 2-56 x 3/8" screws. 2/pkg. No. 107

**T-Style Nylon Control Horns**
1-1/8" long with 5 adjustment positions. Each set includes 2 control horns that are centered on base, 2 self threading nut plates and four 2-56 x 5/8" screws. 2/pkg. No. 237

**Nylon Control Horns**
1-1/8" long with 4 adjustment positions. Includes 1 right and 1 left control horn. 2 self threading nut plates and four 2-56 x 5/8" screws. 2/pkg. No. 105

**Adjustable Control Horn**
Our adjustable control horn mounts between two molded nylon pads for a strong solid mount. A 1-1/2", 5-40 bolt allows you the full range of height adjustment. Recommended for .60 powered aircraft and smaller. 2/pkg. No. 493

**The Easiest Control Horns To Install!**
**Swivel Ball Links**

These high quality ball links feature burnished brass swivel balls for smooth operation. Complete with socket head cap screw, brass shim & hex nut.

For 2 MM Rods:
- **No. 368**: 2 MM x 1/2" 1/pkg.
- **No. 2132**: 2 MM x 1/2" W/O Hardware, 2/pkg. (Car Line)
- **No. 2133**: 2 MM x 1/2" W/Hardware, 2/pkg. (Car Line)

For 2-56 Rods:
- **No. 367**: 2-56 x 1/2", 1/pkg.
- **No. 2134**: 2-56 x 1/2", W/O Hardware, 2/pkg. (Car Line)
- **No. 2135**: 2-56 x 1/2", W/Hardware, 2/pkg. (Car Line)

For 4-40 Rods:
- **No. 369**: 2-56 x 1/2", 1/pkg.
- **No. 2138**: 2-56 x 1/2", W/O Hardware, 2/pkg. (Car Line)
- **No. 2139**: 2-56 x 1/2", W/Hardware, 2/pkg. (Car Line)
- **No. 497**: 4-40 x 5/8", 1/pkg.
- **No. 2160**: 4-40 x 5/8", W/O Hardware, 2/pkg. (Car Line)
- **No. 2161**: 4-40 x 5/8", W/Hardware, 2/pkg. (Car Line)

**4-40 x 5/8" E/Z Adjust Ball Link**

Adjustable ball tension. High quality burnished brass swivel ball for smooth, friction-free operation. For 4-40 rods.

- **No. 259**: 1(pkg)
- **No. 2136**: W/O Hardware, 2/pkg. (Car Line)
- **No. 2137**: W/Hardware, 2/pkg. (Car Line)

**4-40 x 5/8" Long**

For 4-40 Rods (Short)

- **No. 2140**: W/O Hardware, 2/pkg. (Car Line)
- **No. 2141**: W/Hardware, 2/pkg. (Car Line)

**Ball Link Sockets**

Self-threading nylon ball link sockets. When switching radios to another plane, you can keep the same trim setting for future flights by leaving the nylon links on the pushrods. For up to .072 wire. 4/pkg.

- **No. 188**: 2-56
- **No. 2164**: 2-56 (Car Line)

---

**Bolt-On Ball Link**

3-piece ball link set, readily adaptable for many linkage hookups. Ball joint action eliminates binding. Ball threaded for 4-40 red or bolt. Threaded coupler 3/4" long with 3/8" 2-56 thread for up to .072 wire. Self-threading nylon socket. 1/pkg.

- **No. 180**: 1pkg

**2-56 Threaded Ball Link**

5-piece ball link set, excellent for off-set steering, throttle and servo hook-ups. Ball is threaded for 2-56 nut. Threaded coupler 3/4" with 3/8" 2-56 thread, for up to .072 wire. Self-threading nylon socket, washer and 2-56 nut. 1/pkg.

- **No. 181**: 2-56
- **No. 2162**: 2-56 (Car Line)

**Rivet Ball Link**

Ideal for throttle hook-ups. 4-piece ball link set for permanent installation. Includes 1 steel ball with pin and washer for peening on. 1 self-threading nylon socket and 1 threaded coupler 3/4" long, with 3/8" 2-56 thread for up to .072 wire. 1/pkg.

- **No. 182**: 1pkg

**Aileron Connector Ball Link**

5-piece set includes one 2-way self-threading nylon socket, 2 threaded couplers 3/4" long with 3/8" 2-56 thread, for up to .072 wire, 1 ball threaded for 0-80 (1/16" dia. thrd.) and one 0-80 nut. 1/pkg.

- **No. 183**: 1pkg

**Aileron Horn Wire Ball Link**

Change old strip aileron connectors to ball link control. Fitting also useful as dual take off connectors. 8-piece set includes: 2 horn wire ball links for 3/32" dia. wire, 2 self-threading nylon sockets, 2 threaded couplers 3/4" long with 3/8" 2-56 thread for up to .072 wire and two 4-40 screws. 2/pkg.

- **No. 189**: 2/pkg

**1/16" Threaded Ball Link**

This 4-piece set fits perfectly in servo arm hole, bellcranks, nylon horns and throttle arms. Set includes 1 ball threaded for 0-80 (1/16" dia. thrd.), 1 self-threading nylon socket, 1 threaded coupler 3/4" long, with 3/8" 2-56 thread for up to .072 wire. 1/pkg.

- **No. 190**: 1/pkg
Ball Links

2-56 Threaded Balls
2/pkg.
No. 2163 (Car Line)

Swivel Ball Link Shims
4/pkg.
No. 2165 No. 2 (Car Line)
No. 2166 No. 4 (Car Line)

Ball Link Tool
Serves two uses. The curved end safely separates ball links and fits the 1/16" threaded ball link nut. 1/pkg.
No. 187

Engine Fittings

6" Aluminum Exhaust Extension
Custom make your own muffler extension. Will fit most engines .29 to .80 2-cycle & most mufflers. This stock can be cut, drilled, tapped and welded. 1/pkg.
No. 213

Bolt on Pressure Fitting
Includes brass pressure fitting, nut and fibre washer. Easily mounted anywhere on muffler by drilling a hole and bolting it or tap smaller hole. 1/pkg.
No. 241 6-32
No. 539 8-32

Super Smoker
A positive, no leak fuel and pressure shutoff valve. Compact enough to mount anywhere. Requires one extra servo to operate. Assembled with 3/4" of neoprene fuel tubing and hardware. 1/pkg.
No. 255

Building Supplies & Finishing

Kwik-Switch Mount
Mounting bracket is adaptable to fit both small and large size radio switches. This complete switch mounting set enables you to install your battery switch in minutes, anywhere in the fuselage, by drilling one 3/16" hole! Excellent for use in planes, helicopters, boats and cars. This attractive, black nylon switch mount is adaptable to any wall thickness up to 3/8" (9.5mm). 1/pkg.
No. 203

Kwik-Switch & Charging Jack
Du-Bro's Kwik-Switch & Charging Jack offers a clean and simple way to mount receiver battery switches and charging plugs. Designed to mount on any aircraft fuselage within minutes, the Kwik-Switch & Charging Jack uses one single set screw to lock the charging plug into place. Universal and will fit all radio systems! 1/pkg.
No. 207 Kwik-Switch & Charging Jack

Kwik-Hinge Slotter
Centers guides for perfectly aligned slots for any hinge. 3 blades fit No. 2 X-Auto® handle. 3 snap-on jig guides. 1/pkg. See Page 27 for Deluxe Hinge Slotter Kit.
No. 216

Nickel Plated T-Pins
These nickel plated steel T-Pins are a must for all model building. Holds parts in place while gluing, sheeting, laminating, assembly, etc. An all around building aid. Strong, smooth and sharp. In 3 popular sizes. 100/pkg.
No. 252 1" (25mm) No. 254 1-1/2" (38mm)
No. 253 1-1/4" (32mm)

Foam Tape
Quality foam tape, super sticky on one side cuts down vibration. Ideal for wing saddles. 1/8" (3.1mm) H x 3/8" (9.5mm) W. 3 ft. (0.914m) per roll.
No. 163

Double Sided Tape
Du-Bro's double sided tape assortment comes in 3 different thicknesses: 1/32" (0.7mm), 1/16" (1.5mm), 1/8" (3mm). Each size is diecut with four 1" (25mm) x 3" (76mm) pieces (12 sq. inches). Works great for mounting servos, receivers, speed controls, etc.
No. 634
Epoxy Brushes
A must for spreading epoxy and resin glue evenly. Also ideal for engine cleaning. 6/pkg.
No. 345

Mix-It-Stix
These sticks are handy to have when mixing paint or epoxy - inexpen- sive! 25/pkg.
No. 346

Hook & Loop Mounting Material
Super tough material with a glue-like stick. Good for mounting receivers, batteries - unlimited uses! Adhesive back on one side for easy mounting. 1 - 1" x 12" set per pkg.
No. 348 No. 2143 Car Line

Kwik-Stik Lead Weights
Perfect for adding extra weight to planes, trains, boats, pine wood derby cars, etc. Strong stick tape on back for easy installation. 1/20 & 1/4 oz. weight increments on strips. (2) 3 oz. pieces/pkg.
No. 351 No. 2142 Car Line

1-1/4" (32mm) Cut Off Wheels
Perfect for cutting through most woods, plastics and metals. Designed with fiberglass reinforcement to prevent brittleness. 2/pkg.
No. 352

Cut Off Wheel & Mandril
1-1/4" (32mm) Cut Off Wheel with a Mandril. Great for cutting most woods, plastics and metals. 1 set/pkg.
No. 353

Antenna Cowling, Hook & Keeper
Perfect cowling for antenna exit, as it carefully exits the antenna thru a radious bushing giving your airplane that finished look! Completely adjustable wire keeper and hook lets you fasten any length antenna on any size airplane. 1/pkg.
No. 349

Glo-Plug Caddy
This is a must for every modeler's field box. Made of tough fuel resistant rubber and holds up to 12 2-cycle or 4-cycle glo-plugs. The glo-plug caddy helps protect glo-plug elements from dirt, moisture and hard knocks. 1/pkg.
No. 498

Turnbuckles
Now there is no need to disconnect ball links to make front end adjustments! Get the ultimate in handling performance by replacing your stock linkage with Du-Bro 4-40 Turnbuckles and quality built ball links. Precise toe-in and toe-out and camber adjustments can be made with ease to get you back on the track fast. These 4-turnbuckles are 2-5/8" (65.6mm) long and can be cut to desired length. 2/pkg.
No. 2156 4-40 Turnbuckles W/Wrench
No. 2157 4-40 Turnbuckles

1/4 Scale Turnbuckles
They not only look good, they are fully functional. Attached to your guy wires (flying wires), they add a working touch of class. Nickel plated steel with 1/16" (1.5mm) eye & 4-40 thread. 2/pkg.
No. 360

R/C Protective Foam Rubber
High quality foam rubber. Works great for protecting your receiver and fuel tank from vibration and also gives protection during a crash. Available in two sizes 1/4" (6.3mm) & 1/2" (12.7mm) x 7" (177.8mm) x 11" (279.4mm) sheets. 1/pkg.
No. 513 1/4" (6.3mm) No. 514 1/2" (12.7mm)

Rosin Core Solder
This is the highest quality rosin core solder available on the market. Made of 60% tin and 40% lead. Available in three different diameters. 15 ft/pkg.
No. 494 .025 dia.
No. 495 .031 dia.
No. 496 .050 dia.

Heat Shrink Tubing
The ideal solution for many of your modeling needs. This tubing has been specially formulated to shrink up to one half its original diameter simply by using a heat gun, soldering iron, or cigarette lighter. Ideal for insulating electrical splices, and also covering electrical plugs and connectors. Packaged in 3" (76mm) lengths.
No. 438 or No. 2144 1/16" (1.5mm) Dia. Blue 4/pkg.
No. 438 No. 2145 3/32" (2.3mm) Dia. Green 4/pkg.
No. 437 No. 2146 1/8" (3.1mm) Dia. Red 4/pkg.
No. 438 No. 2147 3/16" (4.7mm) Dia. White 5/pkg.
No. 439 No. 2148 1/4" (6.3mm) Dia. Yellow 3/pkg.
No. 440 No. 2149 3/8" (9.5mm) Dia. Black 3/pkg.
No. 441 No. 2150 Assorted Pack 2 ea./pkg.
**Building Supplies & Finishing**

**Nylon Hinges**
Precision molded, inspected and assembled with locked in hinge pin. Flash free, simple to install. Hinges have 6 holes on each side for maximum holding power.
- **No. 116** Std. 5/8" (16mm) W x 1-1/8" (29mm). [Price: 6/pk]
- **No. 117** Std. 5/8" (16mm) W x 1-1/8" (29mm). [Price: 15/pk]
- **No. 118** Mini 7/16" (11mm) W x 1-1/8" (29mm). [Price: 6/pk]
- **No. 119** Mini 7/16" (11mm) W x 1-1/8" (29mm). [Price: 15/pk]

**Heavy Duty Nylon Hinge/Removable Cotter Pins**
Built to take heavy loads, 3/4" (19mm) wide x 1-3/8" (35mm) long x .040 (1mm) thick. Removable 3/64" (1.2mm) dia. cotter pin for maximum convenience and strength. Ideal for big airplanes.
- **No. 257** Heavy Duty Nylon Hinge 15/pk.
- **No. 307** Replacement Cotter Pin 10/pk.

**Kwik Hinge**
Very easy to install. Simply use a hobby knife or Du-Bro hinge slotter to make a slot in the wood. Kwik Hinges are super thin and extremely strong. Du-Bro Kwik Hinges have 140 glue pockets on each side of the hinge. These glue pockets combined with C/A glue will give you an extremely strong bond to your aircraft. You can purchase either the pre-cut 3/4" (19mm) x 1" (25.4mm) Kwik Hinge or the 2" (50.8mm) x 12" (304.8mm) sheet allowing you to cut your own.
- **No. 537** 3/4" (19mm) x 1" (25.4mm) Kwik Hinge 24/pk.
- **No. 538** 2" (50.8mm) x 12" (304.8mm) Kwik Hinge Sheet 2/pk.

**36" (0.914M) Antenna Housing**
Works great for airplanes, cars, boats and helicopters. 24/tube. Sold individually.
- **No. 511**

**Kwik Twist**
Enables you to tie perfect barrel wraps to each end of music wire to make beautiful guy wires, using piano wire up to .032 (0.8mm) dia. 1/pk.
- **No. 301**

**Wing-N-Fuselage Rack**
Easy and safe way to store your airplanes free from damage. A must for every modeler's home. Track system for easy adjustment. 5 pair anodized aluminum rods, 3 ft. (0.914M) length track. 1/pk.
- **No. 350**

---

**Fuel Accessories**

**Tank Filter**
Combination weight and filter. Designed to fit all clunk tanks. Made of sintered bronze to give the ultimate in filtering. 1/pk.
- **No. 151**

**Final Filter**
The ultimate in-line filter with twice as much fuel filtering capacity as most filters now available. Extremely fine 130 micron polyester screen filters out even the smallest particles. Aluminum. 1/pk.
- **No. 162**

**In-Line Fuel Filter**
Constructed of two threaded aluminum parts which separate for ease in cleaning. Includes a 130 micron mesh screen filter to filter out the smallest particles and an o-ring to properly seal against leakage. 1/pk.
- **No. 340**
- **No. 341** Large Scale In-Line Fuel Filter

**Fuel Can Cap Fittings**
For quick and easy fuel pump hook-ups. Universal cap fittings and new nylon filter for any standard 1-1/4" or larger. Includes 4-1/4" nuts, 3 top quality brass fittings and fuel filter. 1/pk.
- **No. 192**

**1/8" Fuel Line Barb**
This product is designed to take the fear out of fuel lines coming off your fuel tanks and clunks. All the modeler needs to do is solder a fuel barb on brass tubing or clunk and the fuel line will stay securely. 5/pk.
- **No. 512**

**Fuel Line Plugs**
Used to temporarily shut off fuel and air lines. Small plug is for 1/16" (1.5mm) and 3/32" (2.3mm) size tubing and the large plug is for 1/8" (3mm) and 5/32" (4mm) size tubing. Conveniently packaged with 2 small and 2 large size plugs.
- **No. 617**

**Replacement Fuel Stopper**
Specially formulated replacement stopper to convert any 2 oz. to 50 oz. Du-Bro fuel tank to gasoline. Replacement glow fuel stopper also available.
- **No. 400** Gasoline
- **No. 401** Glo-Fuel
**Fuel Tubing**

**Super Blue Silicone**
For Glo-Fuel Only. Won’t crack or harden and fits securely on fuel fitting.

- 196 Small (1/16” I.D.) | 50 | 50 Ft. Spl.
- 197 Medium (3/32” I.D.) | 50 | 50 Ft. Spl.
- 204 Large (1/8” I.D.) | 30 | 30 Ft. Spl.
- 221 Small (1/16” I.D.) | 2 Ft. | 2 Ft. Length
- 222 Medium (3/32” I.D.) | 2 Ft. | 2 Ft. Length
- 223 Large (1/8” I.D.) | 2 Ft. | 2 Ft. Length
- 553 X-Large (5/32” I.D.) | 3 Ft. | 3 Ft. Length

**Tygon Fuel Tubing**
If you’re looking for a gasoline or diesel fuel tubing that won’t harden or crack, but remains flexible, use Tygon tubing.

- 505 Medium (3/32” I.D.) | 50 | 50 Ft. Spl.
- 506 Large (1/8” I.D.) | 30 | 30 Ft. Spl.
- 554 X-Large (5/32” I.D.) | 3 Ft. | 3 Ft. Length

**Neoprene Fuel Tubing**
For Gas, Oil, Diesel or Glo-Fuel.

- 225 Medium (3/32” I.D.) | 2 Ft. | 2 Ft. Lght.

**Fuel Line Clips & Combo Packs**

- **No.** | Description | Qty.
- 677 | For Med. Size Fuel Tubing (3/32” I.D.) | 4
- 678 | For Lg. Size Fuel Tubing (1/8” I.D.) | 4

Now you can purchase your silicone tubing, fuel filter & fuel line clips all in one package.

- **No.** | Description | Qty.
- 680 | 3 Ft. Med. (3/32” I.D.) Fuel Tubing, Filter, Clips | 1
- 681 | 3 Ft. Lg. (1/8” I.D.) Fuel Tubing, Lg. Filter, Clips | 1

---

**Fueling Valves**

**Kwik-Fill Fueling Valve**
The clean, safe way to fill your tank without disconnecting your fuel line from the carburetor. Perfect for models with enclosed engines. Easy to install. Comes complete with fueling probe. 1/pkg.

- **No.** | Description | Qty.
- 334 | For Glo-Fuel | 1
- 335 | For Gasoline | 1
- 339 | Replacement Fueling Probe | 1

**Large Scale Fueling Valve**
Du-Bro has taken innovation to its finest and produced a large scale fueling valve featuring a new pressure on dust cover to keep dirt and oil from getting into the valve.

- **No.** | Description | Qty.
- 610 | For Glo-Fuel | 1
- 611 | For Gasoline | 1
- 612 | Replacement probe for Glo-Fuel and Gas | 1

**ReBuild Kit**
Comes complete with 2 o-rings, shuttle, spring, lock washer and nut.

- **No.** | Description | Qty.
- 718 | Rebuild Kit for No. 334 Fueling Valve | 1
- 719 | Rebuild Kit for No. 335 Fueling Valve | 1
- 720 | Rebuild Kit for No. 610 Fueling Valve | 1
- 721 | Rebuild Kit for No. 611 Fueling Valve | 1
Fuel Tanks

*Our Fuel Tanks Won't Split Under Pressure!*

Du-Bro fuel tanks were designed with toughness in mind! Our fuel tanks will not split or crack from vibration or pressure. In fact, our fuel tanks can be used with pressurized fuel systems! Du-Bro fuel tanks come complete with all of the hardware including our one piece clunk with fuel bars built right on the clunk stem, your fuel tubing will not slide off! Du-Bro fuel tanks can be used with either glo-fuel or gasoline if you purchase our Cat. No. 400 Gasoline Conversion Stopper. Next time you build a model, choose a Du-Bro fuel tank.

**No.**

- **402** 2 oz. (60 cc) Sq. Fuel Tank
- **404** 4 oz. (120 cc) Sq. Fuel Tank
- **406** 6 oz. (180 cc) Sq. Fuel Tank
- **408** 8 oz. (240 cc) Sq. Fuel Tank
- **410** 10 oz. (300 cc) Sq. Fuel Tank
- **412** 12 oz. (360 cc) Sq. Fuel Tank
- **414** 14 oz. (420 cc) Sq. Fuel Tank
- **416** 16 oz. (480 cc) Sq. Fuel Tank
- **420** 20 oz. (600 cc) Sq. Fuel Tank
- **424** 24 oz. (710 cc) Sq. Fuel Tank

**Description**

- **No. 519** E/Z Fill Fuel Pump
- **No. 520** E/Z Fill Fuel Pump & 1 Gal. Container


**Pumps Glo-Fuel or Gasoline!**

The Du-Bro E/Z Fill Fuel Pump is sure to fill you with satisfaction! The pump will accept glo-fuels, gasoline, diesel fuel and will exceed 1-1/2 ounces of fuel per squeeze or as little as a drop or two for priming. Emptying your fuel tank is also made easy by simply turning the pump over 180° as shown in the picture to the left.

The pump has a two way check valve system. When using the pump, hold arrow on squeeze bulb straight up for fueling and straight down for defueling.

The E/Z Fill Fuel Pump is sold separately or comes complete with a sturdy one gallon no-tip fuel container, which will not tip over in your car.

See your local Hobby Store Today!
The Modelers #1 Choice in Spinners

- Simple, easy and safe to install (no need to use the palm of your hand).
- Available in 7 sizes.
- Each Spinner comes with 4 shaft adapters (6mm, 1/4", 7mm, 5/16" shafts). You don't have to drill out our back plates!
- Spinner bolts to back plate with a unique nylon insert lock nut design giving a solid & secure hold.

We Use 100% Virgin Nylon For Max. Strength!

Spinners for Three Blade Props

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>541</td>
<td>2&quot; (51mm)</td>
<td>White</td>
</tr>
<tr>
<td>542</td>
<td>2&quot; (51mm)</td>
<td>Black</td>
</tr>
<tr>
<td>543</td>
<td>2-1/2&quot; (64mm)</td>
<td>Black</td>
</tr>
<tr>
<td>544</td>
<td>2-1/2&quot; (64mm)</td>
<td>White</td>
</tr>
</tbody>
</table>

Glo-Plug Ignitors

- Kwik-Klip III W/Charger & Battery No. 396
- Kwik-Klip III W/O Charger, with Battery No. 397
- Kwik-Klip III XL W/Charger & Battery No. 398
- Kwik-Klip III XL W/O Charger, with Battery No. 399

Kwik-Start W/Charger & Storage Klip No. 666
Kwik-Start XL W/Charger & Storage Klip No. 668

For Kwik-Start & Kwik-Klip III Charger Only No. 619
Kwik-Mount Storage Klip No. 667

The Kwik-Klip III's are designed to give you years of sure fire power! The Kwik-Klip III's battery case is machined out of aluminum & easily unscrews for Ni-Cad battery replacement. The Kwik-Start's have the same Du-Bro quality yet are inexpensively priced & come complete with Ni-Cad, charger & free Kwik-Mount Storage Klip.

KWIK-KLIP III & KWIK-START Come complete with Sanyo Sub-C 1300-1450 mAh Ni-Cad battery.

Kwik-Glo Engine Cord Set No. 147
Comes complete with 30" cord.

Kwik-Klip II (Glo-Plug Connector) No. 337
Comes complete with 30" cord.
Du-Bro's Super Strength Servo Control Arms are designed for use in aircraft, car, boat & helicopter models. Unlike conventional servo arms, they are made of long fiber composites for added strength. Longer versions have increased throw allowing for greater movement in controls. 8/pkg.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Servo Distance From Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>670</td>
<td>Long - for Futaba Servos</td>
<td>A 1.52&quot; (20.2mm)</td>
</tr>
<tr>
<td>671</td>
<td>Long - for JR &amp; Airtronics Servos</td>
<td>B 2.305&quot; (58.5mm) Overall</td>
</tr>
<tr>
<td>672</td>
<td>Long - for Hitec, Tower Hobbies® &amp; Hobibico® Command Servos</td>
<td>C 1.375 (34.9mm)</td>
</tr>
<tr>
<td>673</td>
<td>Standard - for Futaba Servos</td>
<td>D 1.140 (28.9mm)</td>
</tr>
<tr>
<td>674</td>
<td>Standard - for JR &amp; Airtronics Servos</td>
<td>Replaces A, B, C and D</td>
</tr>
<tr>
<td>675</td>
<td>Standard - for Hitec, Tower Hobbies® &amp; Hobibico® Command Servos</td>
<td>Replaces A, B, C and D</td>
</tr>
</tbody>
</table>

**Canadian Distributors**

**Academy Products Canada, Inc.**
9 Bradford Drive
Concord, Ontario, Canada L4K 2T4
Tel: (905) 669-9120
Fax: (905) 669-9756

**B & B Wholesale Alberta Ltd.**
P.O. Box 35089
Savon Postal Outlet
Calgary, Alberta Canada T3E 7G7
Tel: (403) 354-6686
Fax: (403) 354-6689

**Hobbycraft Canada**
140 Applewood Crescent
Concord, Ontario, Canada L4K 4E2
Tel: (905) 738-6556
Fax: (905) 738-6329

**P.M. Hansen Ltd.**
4-11191 Horshoe Way
Richmond, B.C., Canada V7A 4S5
Tel: (604) 271-1213
Fax: (604) 271-2296
E-mail: info@pmhansen.com
Web Site: http://www.pmhansen.com

**HiFlight R/C Ltd.**
47 1804 4th Street
Nisku, Alberta, Canada T9E 7T8
Tel: (403) 955-3873
Fax: (403) 955-3859

**Richmond RC Supply Ltd**
114 7350 72nd Street,
Delta, BC Canada V4G 1H9
Tel: (604) 940-1066
Fax: (604) 940-1063
Email: sales@richmondrc.com
Web Site: www.richmondrc.com

**International Distributors**

**Argentina**
AeroSur S.R.L.
Teléfono 156
Buenos Aires (1913)
Tel: (54) 1 383-6030
Fax: (54) 1 381-6666

**Australia**
Southco Model Supplies Pty.
P.O. Box 405
35-37 Berwick Ave., Melbourne,
Park S. Australia 3086
Tel: (61) 8 276 7722
Fax: (61) 8 277 6252

**Belgium**
Free Time Service
Rue A. Dubois, 29
B-6010 Farnes-Lie-Gosteries
Tel: (32) 71 85 33 41
Fax: (32) 71 85 38 62

**Brazil**
Hobby One
Pra Acrecar Arara, 574
04203-003 Sao Paulo S.P.
Tel: (55) 11 227 2218
Fax: (55) 11 274 3076

**Canada**
Canada Hobby Distributors
90 99 Greenwich Road
London SE10 BJE
Tel: (44) 1 811 692-2451
Fax: (44) 1 811 692-2469

**France**
Scientific France
272 Avenue Henri-Barbusse
95770 Montmorency-Villeneuv in
Tel: (33) 27 45 00 24
Fax: (33) 27 29 05 84

**Germany**
Sirrpeg Electronic
Walter Class GmbH (Co. Osthofe 5
33262 Hannover
Tel: (49) 5247 040142
Fax: (49) 5247 042134 & 53

**Hong Kong**
Wing Lee Enterprises
2-4 Wai Sing Street
Kwai Hing, Kowloon
Tel: (852) 2 370 3832
Fax: (852) 2 370 3449

**India**
New Delhi Hobby Distributors
3/2, Saraswati Vihar
New Delhi
Tel: (91) 11 232 2294
Fax: (91) 11 232 2288

**Japan**
Kyoiku Saia Bokco Co., Ltd.
Yokohama Building
1-11-1 Kamezawa
Suzuki-Ku, Tokyo 130
Tel: (03) 5 568 2126
Fax: (03) 5 568 2124

**Korea**
Korea Hobby Model Co.
3/F, Namsung Bldg. 101-7
Singapore-Dong, Kangnam-Ku
135-990 Songil
Tel: (82) 2 511 8034/35
Fax: (82) 2 511 8035

**Mexico**
Girardita Imporaciones, S.A.
Av. Revolution #1908-C
Motul 01000
Tel: (52) 5 550 7832
Fax: (52) 5 616 7599

**New Zealand**
Twin Air Distributors
532-534 Great North Road
Auckland City, Auckland
Tel: (64) 9 262 3758
Fax: (64) 9 262 3555

**Philippines**
Shambala Imports
c/o LNP, Hobby Center
2/F, Quo Vadis Bldg., Ayala Ctr.
Makati, M.M.
Tel: (632) 818 4153
Fax: (632) 818 1601

**Singapore**
Norcomp Engineering (S.) Pte. Ltd.
150 South Bridge Road
02-22 Kio Building
Singapore, 059972
Tel: (65) 334 1162
Fax: (65) 787 1277

**South Africa**
Magee Wholesalers
P.O. Box 618
Graaf Reinet 6200
Tel: (27) 491 910214
Fax: (27) 491 910215

**Switzerland**
Hobby Ragooni, Vertretergruppe
Hauptstrasse 269
CH-5045 Holziken
Tel: (41) 62 721 3031
Fax: (41) 62 721 1916

**Taiwan R.O.C.**
Tien-Kee Ind. Trading Co.
3F, Hsi, No. 777, Sec. 1,
Ta-Tung Road, Hsin-Chih,
Taipei Shien,
Tel: (886) 2 643 3933/2
Fax: (886) 2 643 7045

**Thailand**
Universal Hobby Distributor Co.
114 Habibri Road
Miraibari
Bangkok 10510
Tel: (66) 2 518 2067/9/8
Fax: (66) 2 518 9119

**Turkey**
Mustah Red Modelismo Ltd St.
and Sanit Santral St., 15
81260 Yzkent Duzulu
Istanbul
Tel: (90) 216 368 0580
Fax: (90) 216 314 0215

**Export Sales Dept.**
For all Countries with the exception of Canada.

**International Hobbycraft Co., Inc.**
3340 Dundee Road
Northlake, IL 60633-2381 U.S.A.
Tel: (331) 564-9545
Fax: (331) 564-9551
Snowbird Skis

Du-Bro's Snowbird Skis make it possible to fly all winter long. Easily mounts on airplanes with dural or wire landing gear in about an hour.

Featuring a torsion bar design, our Snowbird Skis flex on take-offs and landings yet remain in a positive lock position while in the air. All mounting hardware included. Available in three sizes. If you've never flown with skis, give them a try!

No. 621 Snowbird Main Skis
2-1/4" W x 16" L (57mm x 406mm)
For airplanes up to 6 lbs. 2/pkg.

No. 622 Snowbird Nose Ski
2-1/4" W x 8" L (57mm x 203mm)
For airplanes up to 6 lbs. 1/pkg.

No. 625 Snowbird Main Skis
3" W x 16" L (76mm x 406mm)
For airplanes up to 10 lbs. 2/pkg.

No. 626 Snowbird Nose Ski
3" W x 8" L (76mm x 203mm)
For airplanes up to 10 lbs. 1/pkg.

No. 629 Snowbird Main Skis
3-1/2" W x 24" L (89mm x 609mm)
For airplanes up to 30 lbs. 2/pkg.

No. 630 Snowbird Nose Ski
3-1/2" W x 9" L (89mm x 228mm)
For airplanes up to 30 lbs. 1/pkg.

Du-Bro Snowbird Ski Runners were designed for hard packed snow and icy conditions. Airplane will track with better control. No drilling extra holes, simply mounts on existing mounting holes. 3/pkg.

No. 623