

SPECIALTY CATALOG

AERONAUTICAL SUPPLIES

1944 — 1945

*Supply  
Division  
Inc.*

MEMPHIS  
TENNESSEE



ROBERTSON  
MISSOURI



OKLAHOMA CITY  
OKLAHOMA



# Scott

MODEL 3-24

## AUTOMATIC STEERABLE AND FULL SWIVEL TAILWHEEL ASSEMBLY

The need for an automatic steerable and full swivel tail wheel assembly has long been recognized. Previous attempts to provide a suitable design have only been partially successful because they depended on small parts subject to rapid wear.—None of them have long withstood the test of field service.

Over the past three years Scott engineers, recognizing these difficulties, not only tested and analyzed all assemblies on the market, but designed, built, and tested many different types of their own creation. This protracted research resulted in the Scott Model 3-24.

### ADVANTAGES

An automatic steerable and full swivel tail wheel assembly provides not only safety, taxiing maneuverability and the ability to control the aircraft in strong cross-winds, correcting ground-loops before they fully develop, but also all of the typical advantages of the full swivel design, such as:

—Easier ground handling. The ship may be pushed backwards, or the tail pushed sideways without strain or damage.

—Sharp taxiing turns where required.

—The elimination of damage to parts such as rudder arms, connectors, etc., due to forcing steerable assemblies beyond their normal travel.

### EXCLUSIVE FEATURES

- 1 Universal Belectromal Alloy Bracket fits both 1½" and 1¼" spring leaves.
- 2 Patented automatic mechanism uses relatively powerful spring connectors for cam lock tension. Cam surfaces of maximum area for long wear. Protected by streamlined steel cap.
- 3 Hard Bronze Swivel Bushing has exceptionally large area, is grooved for lubrication, and is easily replaceable. Sealed with metal dust cap.
- 4 Drop-forged 4340 chrome alloy fork has high strength-weight ratio. Single arm design gives maximum freedom from mud and ice accumulation,—streamlines appearance.
- 5 Wheel: High-strength aluminum alloy castings rigidly locked with three AN bolts. Large Timken roller bearings, grease packed for long life. Felt grease seals and tight dust caps.
- 6 Tire: 6x2 solid cushion with steel wire bead. It can't come off.

### HOW TO ORDER

The Model 3-24 Automatic Tail Wheel Assembly fits all popular light aircraft having 1¼" or 1½" width tail-spring, except for the Piper J-4 Coupe. For this particular airplane the Model AST-8C wheel assembly should be used. You will find it on the next page. Please notice that the Model 3-24 cannot be used on aircraft with a tail spring wider than 1½" at the present time.

The price includes connector springs, but not the rudder arm. The reason for this is because most purchasers will already have a rudder arm on their ship. For any without the arm, arm may be ordered separately. When ordering rudder arms be sure to specify make and model of your airplane. See page 56 for rudder arm listings.

When ordering Model 3-24 Tail Wheels it is not necessary to mention make and model of your airplane. The one model fits all airplanes, with exceptions noted above.

Model 3-24 Automatic Steerable and Full Swivel Tail Wheel Assembly Complete with Connectors and less Rudder Arm, to fit aircraft as above.....\$26.50



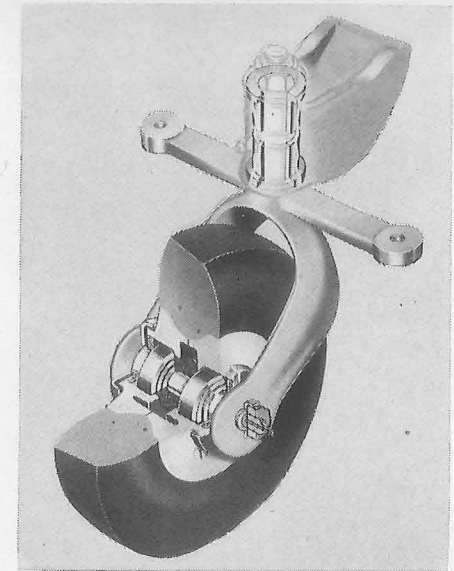
# Scott

## Interchangeable—Steerable—Full Swivel TAIL WHEEL ASSEMBLIES

### EXCLUSIVE FEATURES

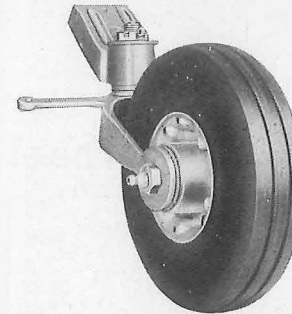
- 1 Bracket: High tensile ferrous alloy ribbed for maximum strength.
- 2 Swivel Bushings: Two replaceable bronze bearings with horizontal and vertical grease channels for thorough lubrication.
- 3 Fork: Manganese silicon steel. The strongest standard fork available in assemblies of this type.
- 4 Axle Assembly: Scott "Safety Lubricator" type rifle-drilled for grease fitting located in protected position.
- 5 Wheel: Strong aluminum alloy castings, locked by three AN bolts. Choice of Timken roller bearings or ball bearings, as desired. (Standard equipment ball bearings) Felt grease seals plus tight metal dust caps.
- 6 Tire: 6x2 solid cushion with steel wire bead. It can't come off.

Each Scott Tail Wheel Assembly is individually designed for the particular make and model of aircraft on which it is to be used. Maximum strength is provided only where maximum strength is required, permitting the correct strength-weight ratios, as specified by the manufacturer, to be maintained.



### WEIGHTS AND DESIGN DATA

Model	WEIGHT		Total
	Wheel Assy.	Rudder Arm	
CST-models AST and TA models	4 lbs. 9 oz.	8 oz.	5 lbs. 1 oz.
GC 15	5 lbs. 10 oz.	1 lb. 4 oz.	6 lbs. 14 oz.
All other full swivel	4 lbs. 7 oz.		4 lbs. 7 oz.
	5 lbs. 8 oz.		5 lbs. 8 oz.



Model	STRENGTH		
	Design Load	Yield	Ultimate
Piper Cub models	800 lbs.	900 lbs.	1000 lbs.
All other models	1200 lbs.	1600 lbs.	2000 lbs.

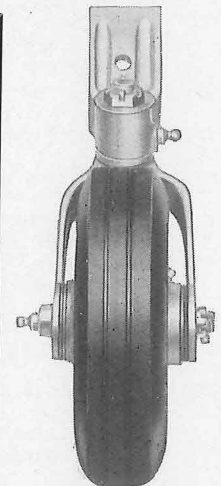
"Note: All Piper models are designed to fail at 1000 lbs. load to prevent possible damage to the tail structure. This is in accordance with the manufacturers specifications."

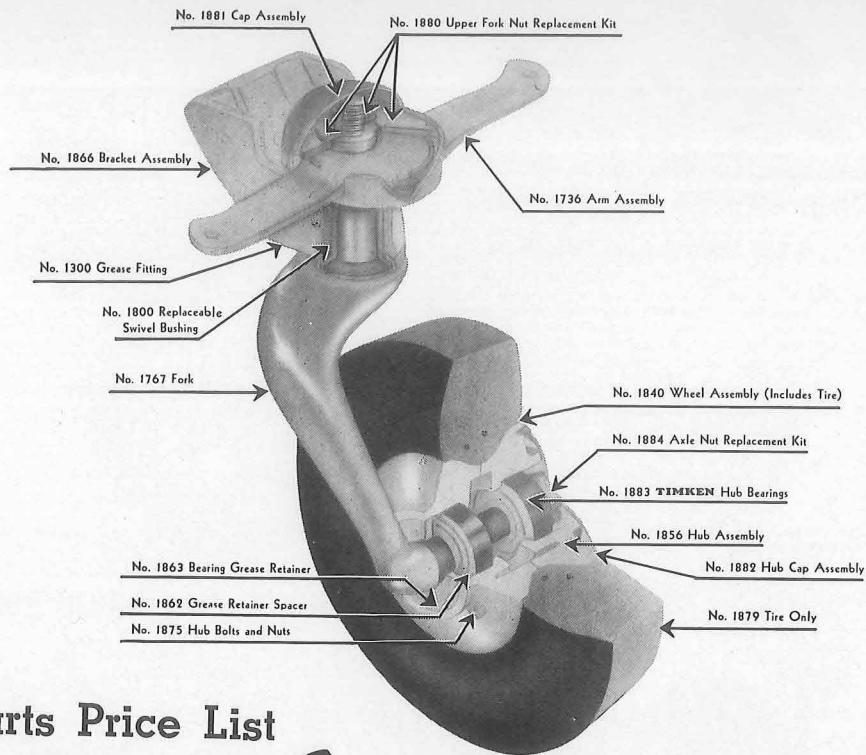
The Civil Aeronautics Bureau does not issue A.T.C.'s for any attachable Tail Wheel Assembly. Units installed as Factory Equipment by the aircraft manufacturer carry a blanket approval obtained by that manufacturer. It is important that units installed in the field receive the approval of a local inspector.

### SPECIFICATIONS AND PRICES

Name of Aircraft	Aircraft Model No.	Spring Width	Scott Steerable Tailwheel Model	Price	Scott Full Swivel Tailwheel Model	Price
Aeronca...	Chief or Trainer..	1½"	AST-8	\$18.50	G-5A	\$14.75
Piper Cub.	J-3 Trainer	1½"	CST-12	18.50	GC-15	14.75
Piper Cub.	J-4 Coupe.	1½"	AST-8C	18.50	G-5C	14.75
Piper Cub.	J-5 Cruiser	1½"	CST-125	18.50	GC-15	14.75
Culver....	Cadet.....	1¼"	.....	.....	GC-15	14.75
Luscombe.	Silvaire or Trainer..	1¼"	AST-4L	18.50	GLD-19	14.75
Rearwin...	Ranger....	1½"	AST-8R	18.50	G-5A	14.75
Rearwin...	Older Models..	1¼"	AST-6R	18.50	G-6	14.75
Stinson....	105.....	1¼"	.....	.....	ST-7	19.50
Taylorcraft	.....	1½"	TA-8B	18.50	TA-5	14.75

All assemblies are shipped complete and ready for installation. All are fully lubricated. On Model AST-4L Shock Connectors are furnished to connect direct to the Luscombe's own Rudder Horn. Please be sure to specify fully when ordering.

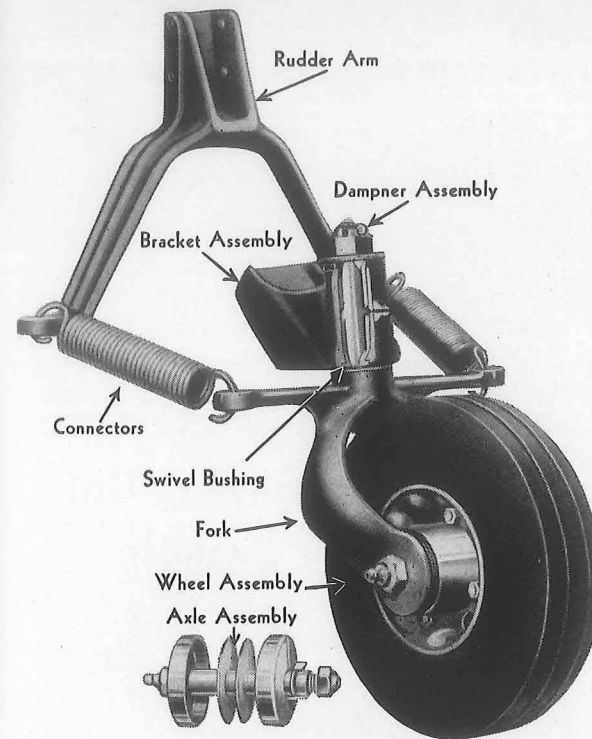




## Parts Price List For Model 3-24 *Scott* Automatic Tail Wheel

Assembly No.	Description and Part Numbers of Assembly Components	Price
1866	Bracket Assembly.....	\$5.50
	Includes:	
	No. 1800 Bushing.....	1.10
	No. 1781 Thrust Washer Cap.....	.35
	No. 1300 Grease Fitting....	.18
	No. 1478 Spacer (not sold)	
	No. 1306 Adapter (separately)	.50
1736	Arm Assembly.....	3.25
1881	Top Dust Cap Assembly.....	.75
1880	Upper Fork Nut Replacement Assembly.....	.15
	Includes:	
	No. 1867 Shim	
	AN945-6 Washer	
	AN364-624 Stop Nut	
1767	Fork and Integrally Forged Axle.....	6.50
1884	Axle Nut Replacement Assembly.....	.15
	Includes:	
	Nut, Washer, and Cotter	

Assembly No.	Description and Part Numbers of Assembly Components	Price
1856	Hub Assembly.....	\$6.00
	No. 1967 Hub Only.....	2.00
	No. 1883 Hub Bearings (2 supplied)	2.40
	No. 1875 Hub Bolts and Nuts (Set of 3).....	.35
	No. 1863 Hub Brg. Grease Retainer.....	1.10
	No. 1862 Hub Brg. Grease Ret. Spacer.....	.10
1879	Tire Only (no other should be used).....	2.50
1885	Short Spring Connectors for Piper J-3, Piper J-5, Taylorcraft, etc., per pair.....	1.25
1886	Long Spring Connectors for Luscombe, etc., per pair....	1.25
	<b>Note:</b> The Timken Bearings used with the Model 3-24 Assembly are shrunk into the Hub. Under no circumstances should they be pressed in. If bearings are bought separately, always remember to shrink in. We recommend purchase of a complete Hub Assembly whenever practical.	



## Parts for *Scott* INTERCHANGEABLE TAIL WHEELS

When ordering parts always give complete information. Give the model of your assembly. Give the type of bearings. Give the diameter of axle. Study the charts below, and try always to order by the correct part number. This will save a great deal of time and worry.

Competitive models, and parts for them, will be found on page 58.

### Part Number Price Chart

Part Number	Price	Part Number	Price
1013	\$1.10	1302	\$2.00
1070	4.00	1303	1.50
1071	.45	1370	4.00
1072	.50	1424	.70
1074	4.50	1498	1.90 pr
1140	1.50	1504	4.50
1226	5.00	1506	4.00
1228	5.00	1508	5.00
1228C	5.00	1534	6.50
1229	2.00	1536	1.50 pr
1236	4.00	1538	5.50
1262	4.00	1816	5.00
1300	.18		

### PART NUMBER SPECIFICATION CHART

Part Description	Steerable Tailwheel Models							Full Swivel Tailwheel Models									
	AST-4L	AST-6R	AST-8C	AST-8	AST-8M	AST-8R	CST-12	CST-125	CST-124	TA-8B	G-5A	G-5C	G-6	GC-15	GLD-19	TA-5	ST-7
Rudder Arm...	None	1302	1229	1229	1302	1140	1140	1303	None	None	None	None	None	None	None	None	1229
Bracket Assy...	1504	1508	1074	1074	1074	1262	1262	1236	1074	1508	1262	1504	1236	1534			
Bracket Grease Fitting.....	1424	1424	1424	1424	1424	1300	1300	1424	1424	1424	1300	1424	1424	1424	1424	1424	1424
Dampner Assy.	1072	1072	1072	1072	1072	1071	1071	1072	1072	1072	1071	1072	1072	1072	1072	1072	1072
Swivel Bushing	1498	1498	1498	1498	1498	1013	1013	1498	1498	1498	1013	1498	1498	1498	1498	1498	1536
Fork.....	1228	1228	1228C	1228	1228	1226	1816	1228	1228	1070	1370	1506	1070	1538			

### CAST ALUMINUM WHEELS

Part Description	Price
1872 Hub for double arm fork, with 1/2" TIMKEN bearings. Fits all models. Complete .....	\$6.00
1856 Same hub, for single arm fork models. Complete .....	6.00
1865 Hub with Ball Bearings, for 1/8" diameter axle, complete .....	5.50
1874 Same hub, for 1/2" diameter axle .....	5.50

For prices on stamped steel wheels see page 58

### AXLES AND CONVERSION KITS

Part Description	Price
1032 Axle assembly for 1/8" bearings (drilled bolt, grease fitting, nut, cotter and grease seals) .....	\$1.50
1381 Same, for 1/2" bearings .....	1.50
1744 Axle Conversion kit to replace old solid axle. All of above, plus hub caps. For 1/8" bearings .....	2.10
1930 Same, for 1/2" bearings .....	2.50

### BEARINGS AND RETAINERS

Part Description	Price
1883 TIMKEN 1/2" bearings for cast wheels must be shrunk in. 2 required. Each .....	\$1.20
1863 Grease retainers for above bearings. Use 1 on single arm fork. Use 2 on double arm fork. Each .....	1.10
1862 Grease retainer Spacers. Use as above. Each .....	.10

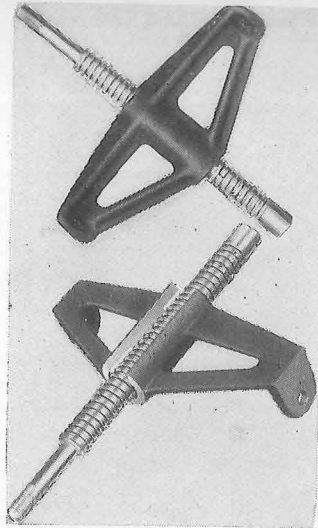
For prices on 1/2" and 1/8" Ball Bearings see page 58

### ADJUSTABLE Spring CONNECTORS



These adjustable connectors are an entirely new item, and eliminate all the previous trouble with breakage of connectors, and of incorrect length or tension. Two sizes. Standard fits most everything. Long style used for Luscombe.

1884 Standard Adjustable Spring Connectors, per pair .....	\$1.25
1886 Extra Long Adjustable Spring Connectors, per pair .....	1.25



## Scott STABILIZER YOKE

REPLACEMENT FOR  
PIPER CUB MODELS J-3 AND J-5

This yoke is now standard equipment on all Piper airplanes, and was designed to accomplish lower weight, longer life, interchangeability of parts, and, at the same time, elimination of operational difficulties.

This new yoke has TWICE the thread area of older yokes. It has sleeve bearings on both sides of the yoke, making it impossible for the screw to stick, either in the extreme "up" or the extreme "down" position.

Weight of the assembly is .98 pounds, 4% lighter than former models 2600# Ultimate Strength assures ample safety factor.

Comes with complete installation instructions for replacing earlier cast-yoke assemblies used on Piper J-3 and J-5. The very old style Piper welded yoke may also be replaced with this modern assembly, and instructions will be furnished upon request.

#1295 SCOTT STABILIZER YOKE ASSEMBLY, Complete .....	\$9.75
#1294 YOKE ONLY, For above .....	7.50
#1243 SCREW ONLY, For above .....	2.25

NOTE: Yokes and screws for # 1295 assembly are interchangeable with each other, but they are NOT interchangeable with yokes and screws of other models.

## Scott Brake Pressure Units

Model B-711

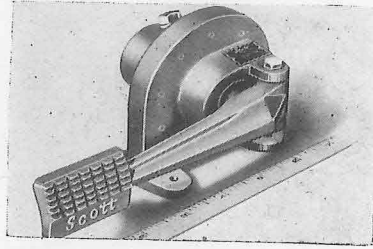
FOR ACTUATING ALL TYPES OF AIRCRAFT HYDRAULIC BRAKES

1. It cannot leak. The hydraulic fluid is contained in a completely sealed system.
2. It operates satisfactorily under extreme conditions.
3. It is completely self-contained—mounts as a unit.
4. Great excess power over operating requirements.
5. Simple design. Minimum moving parts.
6. Smooth and positive braking.
7. Immediate and complete brake release.

Weight of the unit, complete with pedal, is only 21 oz. When used without the pedal, weight is 17 oz. Model B-711 comes complete with the pedal, while Model B-711A comes minus the pedal, and is designed for use on Piper J-4, and other aircraft using a push-rod system.

SCOTT supplies a Conversion Kit, containing all the necessary installation materials, together with complete instructions. On all Push-Rod brake systems, including the Piper J-4, a Conversion Kit MUST be used. On pedal type installations, the Kit is handy, and simplifies the installations, but is optional.

Model B-711 Brake Pressure Unit, complete, per pair .....	\$24.75
Model B-711A Unit, for Push-Rod Systems, complete, per pair .....	24.75
J-3 Conversion Kit for B-711 Unit (Optional) .....	8.50
J-4 Conversion Kit for B-711A Unit (Necessary) .....	9.50
J-5 Conversion Kit for B-711 Unit (Optional) .....	16.50



## Scott Hangar Space Savers

(For Stacking Light Aircraft)

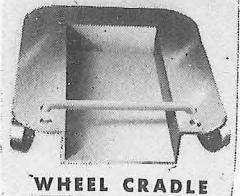
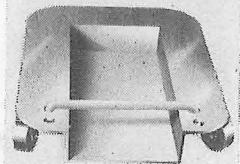
With these handy devices, two men can stack a ship in two minutes. One man can handle a light airplane alone, in not much more time. When stacked, the ship's center of gravity moves far ahead of the wheel center-line, providing a safe, stable condition.

When ships are to be stacked in tight formation, and lateral movement is not necessary (as dead storage) then the Nose Cradle alone may be used, without the Wheel Cradles.

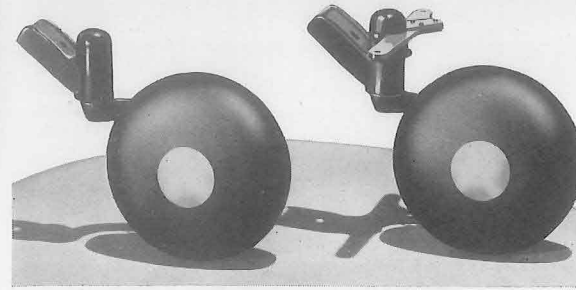
If ships are not to be stacked, but must be stored closely together, you may use only the Wheel Cradles. The Wheel Cradles may be used with either wheels or Skis.

Complete set of two Wheel Cradles and One Nose Cradle	\$62.50
Nose Cradle Only, each .....	22.50
Wheel Cradles, Only, per pair .....	40.00

NOTE: Aircraft with Wing Tanks require a leak-proof gas tank cap when stacked. These are supplied complete with warning Red Streamer, each .....



## MAULE HIGH-EFFICIENCY TAILWHEELS



Expertly engineered from highest quality materials. Light in weight, and low in cost. Fully guaranteed against defects in materials and workmanship. Fork and Caster Bracket are made of high tensile strength alloy steel. Wheel Bearings designed especially for Maule Wheels by a nationally known bearing company, and will outlast the wheel. Chrysler Oil-Lite Bearings used in the Swivel-Head, insuring life-long perfect lubrication. Best grade of rubber is used in the tires, which are GUARANTEED not to roll off the hub. Lock Pin and Lock Ring Heat-treated to file-hardness. 100% sealed against dust and water. Specify whether 1/2" or 1/4" spring width.

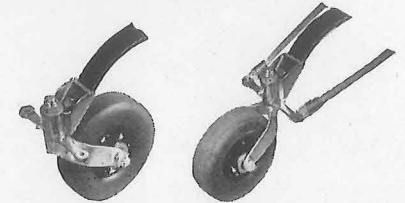
MAULE Steerable Full-Swivelling Assembly, complete .....	\$25.00
MAULE Full-Swivelling Assembly, Not Steerable, complete .....	16.50
MAULE 6x2 Wheel and Tire Assembly, complete with bearings .....	5.75

(Fits Scott, Heath, and other forks)

BE SURE TO SPECIFY WIDTH OF YOUR TAIL SPRING

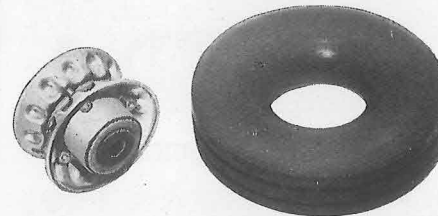
## HEATH "LIFETIME" TAILWHEELS

These excellent little assemblies have proven their worth over a period of several years. They are rugged and dependable. They are simple. They are reasonable in cost. Supplied both Steerable and Full-Swivel. All parts easily replaceable. Alemite lubrication. Rawhide seal keeps dust out. Come complete with installation bolts, rudder arm, spring connectors, and blue-prints. Fit Cub, Taylorcraft, Porterfield, Aeronca, (except the C-2 and K) and Luscombe. Specify make, model, and year of your plane when ordering.



HEATH "Lifetime" Steerable Tailwheel Assembly, complete.....	\$15.50
HEATH "Lifetime" Full Swivel Tailwheel Assembly, complete.....	13.50

## REPLACEMENT PARTS FOR 6x2 WHEELS



The parts listed below fit all standard 6x2 tailwheels made up to the present time, and all current models except the SCOTT models with Timken Bearings, and the MAULE models shown elsewhere on this page. Order carefully, and be sure to specify clearly and accurately.

W-716 Stamped Steel Wheel, complete with flanges, and with 1/16" Ball Bearings.....	\$2.50
H-716 Hub only, with 1/16" Bearings, minus flanges .....	2.00
B-716 Ball Bearings only, 1/16", per pair .....	1.00
F-716 Steel Flanges only, per pair .....	.65
A-716 Axle assembly (Use SCOTT #1032 or #1744, see page 56) .....	2.50
W-816 Stamped Steel Wheel, complete with flanges and with 1/2" Ball Bearings.....	2.50
H-816 Hub only, with 1/2" Bearings, minus flanges .....	2.00
B-816 Ball Bearings only, 1/2", per pair .....	1.00
F-816 Flanges (Interchangeable with F-716) per pair .....	.65
A-816 Axle assembly (Use SCOTT #1381 or #1930, see page 56) .....	.15
1812 Bolt and Nut assembly for 6x2 wheel, per set (4 Bolts, 4 Nuts, 4 Washers) .....	.16
1425 30° Grease Fitting for 6x2 wheels, each .....	.16
6x2 Solid Rubber Cushion Tire for above hubs .....	2.50