

# **INSTRUCTIONS FOR CONTINUED AIRWORTHINESS**

**Aero Twin, Inc. Nose Gear Tire Scraper No. TSQ-100**  
for  
**Quest Model 100 Aircraft**

Document No. TSQ-100-ICA

Maintenance Manual  
Airworthiness Limitations  
Illustrated Parts List

<b>LOG OF REVISIONS</b>			
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# 1.0 Maintenance Manual

## Aero Twin, Inc. Nose Gear Tire Scraper, Kit No. TSQ-100

### 1.1 Description

The Aero Twin nose gear tire scraper for the Quest Kodiak aircraft consists of a steel frame that is bolted to the nose gear by using existing bolts. The steel frame extends aft and down to attach to the rubber plate. The tire scraper provides protection from rock damage to the aircraft.



Figure 1.1.1 Nose Gear Tire Scraper Kit

### 1.2 Installation / Removal

(Refer to drawing TSQ-I, 1 sheet)

#### 1.2.1 Installation:

1. Remove the nose wheel in accordance with the Quest 100 maintenance manual.
2. Remove the aft existing bolts (NAS6606-20) attaching the nose gear fork. Also remove the associated washers and nuts.
3. Replace aft bolts, washers, and nuts with new hardware (NAS6606-22, bolts, MS20002C6, countersunk washers, NAS1149F0663P, washers, and MS21045-6, nuts) attaching P/N TSQ-100 to the nose gear.
4. Reinstall nose wheel in accordance with the Quest 100 maintenance manual.
5. Update weight and balance by adding 0.8 pounds at FS -30.9. Complete Form 337 indicating installation of STC.

#### 1.2.2 Removal:

1. Remove the nose wheel in accordance with Quest 100 maintenance manual.
2. Remove hardware attaching P/N TSQ-100 to the nose gear.
3. Replace aft bolts, washers, and nuts with NAS6606-20 bolts, new NAS1149F0663P washers, new MS20002C6 countersunk washers, and new MS21045-6 nuts.
4. Reinstall nose wheel in accordance with Quest 100 maintenance manual.

### **1.3 Weight and Balance**

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When the tire scraper is installed or removed, the aircraft empty weight and balance must be updated to reflect the configuration change. This section includes information required for weight and balance calculations pertaining to the installation of the nose gear tire scraper.

The total weight of the tire scraper is 0.8 pounds and its center of gravity is located at fuselage station -30.9, giving a total moment of -24.7 in-lbs. When the tire scraper is installed on the aircraft, the weight of the scraper must be added to the empty aircraft weight. The moment contribution from the tire scraper must be added to the previous empty aircraft moment. The new empty aircraft center of gravity is then calculated by dividing the new moment by the new empty weight. If the tire scraper is removed from the aircraft, the weight and balance of the aircraft must be updated by subtracting the weight and moment contribution of the tire scraper from the empty weight and moment and dividing the new moment by the new weight to achieve the new aircraft center of gravity.

### **1.4 Maintenance Instructions**

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#### **1.4.1 General:**

The Aero Twin Nose Gear Tire Scraper installation is designed to be highly durable and fairly maintenance free. However, a maintenance program has been established, in accordance with Appendix G of 14 CFR Part 23, to assure the continued airworthiness of the tire scraper and its installation. Adherence to the established plan is mandatory and records of performance of required inspections and maintenance must be maintained. See Section 2.0, Airworthiness Limitations, for required maintenance items and intervals.

#### **1.4.2 Corrosion Prevention:**

The steel frame of the tire scraper is powder coated to protect the structure from the elements. The finish on the tire scraper parts must be inspected to ensure adequate corrosion prevention. If the powder coated surface of the steel plate structure is marred in service or during handling, the affected area should be stripped and repainted to prevent corrosion, see paragraph 1.4.4.3. Corrosion prevention is also enhanced by keeping the structure clean. The steel and rubber parts of the tire scraper should be kept free of dirt and may be cleaned using water and a mild detergent.

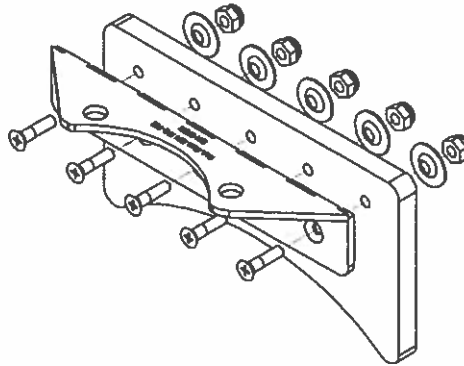
#### **1.4.3 Disassembly / Assembly: (Refer to drawings TSQ-A, 1 sheet)**

##### **1.4.3.1 Disassembly:**

- The rubber flap that acts as the tire scraper should be inspected for wear and may need to be replaced periodically when it is ineffective in protecting the aircraft from rock damage. To remove the rubber flap (P/N TSQ-100-3), first remove P/N TSQ-100 from the nose gear (see section 1.2.2 Removal). Next remove the five MS24694S54 screws from the forward side of TSQ-100 with the MS21044N3 nuts, and A3235-028-24A countersunk washers.

#### 1.4.3.2 Assembly:

- Install the rubber flap using the following hardware as shown in Figure 1.4.3.2:
  - 5 MS24694S54 screws
  - 5 A3235-028-24A countersunk washers
  - 5 MS21044N3 nuts
- Use standard torques specified in the FAA approved Quest Maintenance Manual.
- Reinstall P/N TSQ-100 in accordance with section 1.2.1



**Figure 1.4.3.2 – Tire Scraper Assembly**

#### 1.4.4 Tire Scraper Repair:

##### 1.4.4.1 Hardware Replacement:

Hardware and fittings used throughout the tire scraper are aircraft standard. Hardware should be replaced if corroded, damaged, or excessively worn. Replace self-locking type nuts with new hardware when reassembling or reinstalling the tire scraper. Do not substitute hardware - refer to the Illustrated Parts List for correct part numbers. If you encounter difficulty procuring replacement hardware or fittings, contact Aero Twin, Inc. at (907) 274-6166. Refer to previous section for assembly information.

##### 1.4.4.2 Steel Frame:

**Before any repairs may be made to the steel frame, written approval must be obtained from the manufacturer, Aero Twin Inc. Contact Aero Twin Engineering Department at (907) 274-6166 or write: Aero Twin Inc., Engineering Dept., 2403 Merrill Field Dr., Anchorage AK, 99501.**

##### 1.4.4.3 Painted and Powder Coated Surfaces:

Painted and powder coated surfaces should be maintained and refinished as required to prevent corrosion. When refinishing of a painted surface is required, lightly sand the affected area using fine sandpaper or an abrasive pad (such as 3M *Scotch-Brite*<sup>™</sup>). When refinishing a powder coated surface, a commercial grade stripper may be used. Polish out minor surface nicks or scratches where present. Clean the area thoroughly with a clean cloth wetted with non-petroleum-based solvent to remove any residual oils and dust. Apply a zinc-chromate or equivalent primer coat, then a matching color coat of quality enamel or epoxy-type paint. Follow manufacturer's instructions in preparing and applying primer and color coats. If a surface was previously powder coated, and it is desired to keep a powder coat finish, contact Aero Twin, Inc. at (907)274-6166.

-----**End of Section 1.0 Maintenance Manual**-----

## 2.0 Airworthiness Limitations

### Aero Twin, Inc. Nose Gear Tire Scraper, Kit No. TSQ-100

**The Airworthiness Limitations section is FAA approved and specifies maintenance required under paragraphs 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.**

This section describes required inspection, maintenance, and replacement items. When repairs are deemed necessary, follow accepted standard practices and/or specific maintenance instructions in Section 1.4 of this manual. This section constitutes Component Airworthiness Limitations which apply to the nose gear tire scraper installation only.

### 2.1 Scheduled Inspections and Maintenance:

Note: First inspection should be accomplished at next aircraft inspection requiring inspection of the nose wheel assembly so that subsequent inspections coincide.

At each inspection interval for which inspection of the nose wheel assembly is required by the FAA approved Quest 100 Maintenance Manual or other FAA approved maintenance program for the aircraft, the following inspections shall be performed on the nose gear tire scraper:

- Visually inspect the steel structure for cracks, bends, dents, corrosion, or other defects.
- Visually inspect the rubber flap for security and condition.
- Visually inspect the hardware and fittings for security and condition.

At intervals not to exceed 500 hours or Annual Inspection, remove the tire scraper from the nose gear assembly and perform the following inspections:

- Visually inspect the steel structure for cracks, bends, dents, corrosion, or other defects.
- Visually inspect the rubber flap for security and condition.
- Visually inspect the hardware and fittings for security and condition.
- Replace all self locking nuts used to attach the tire scraper to the nose gear.

An inspection interval may not be exceeded by more than 10 hours while en route to a scheduled inspection (if time controlled), or by more than 30 days (if date controlled). In addition, the following guidelines can be used to establish the inspection intervals:

1. In the event of late compliance with an inspection interval, the next inspection in sequence retains its original due date from the time the late inspection was originally scheduled.
2. In the event the inspection is accomplished within 10 hours before or 10 hours after the inspection is due, the subsequent inspection may retain its original due date/time interval.
3. In the event of early compliance with a scheduled inspection that takes place more than 10 hours prior to when the inspection is due, the subsequent inspection must be rescheduled to establish a new date/time interval from the point of early compliance.

FAA Approved: 

-----End of Section 2.0 Airworthiness Limitations-----

# 3.0 Illustrated Parts List

## Aero Twin, Inc. Nose Gear Tire Scraper, Kit No. TSQ-100

### 3.1 Complete Parts List:

Drawings TSQ-100-A, sheet 1 of 1, and TSQ-100-I, sheet 1 of 1 are provided here for a listing of all tire scraper parts and hardware. Rubber flap, P/N TSQ-100-3, is installed prior to delivery. Drawing TSQ-100-A, sheet 1 of 1, is provided only for reference in replacing the rubber flap.

**NOTES:**

1. WELD SCRAPERS OUTSIDE AS SHOWN BETWEEN ITEMS 1 AND 2 AND INSPECT IN ACCORDANCE WITH WELDING SPECIFICATION AT-TM-9701. GRIND FINISHED WELD FLUSH WITH FACES OF ITEMS 1 AND 2.
2. FINISH ITEM 4 IN ACCORDANCE WITH FINISH SPECIFICATION AND INSPECT IN ACCORDANCE WITH WELDING SPECIFICATION OF STEEL PARTS.
3. LENGTH OF ITEM 4 MAY VARY ONE DASH NUMBER AS REQUIRED.
4. TIGHTEN ITEM 7 UNTIL THE OUTSIDE EDGE OF ITEM 4 CONTACTS ITEM 1. ITEM 7 SHOULD BE TIGHTENED TO PREVENT HEAD EXPOSURE THROUGH LOCKING FEATURE OF ITEM 7.

**PART NUMBER: TSQ-100-A, TSQ-100**

**DO NOT SCALE DRAWING**

**NOSE TIRE SCRAPER ASSEMBLY**

SIZE: DWG. NO. **B TSQ-100-A** REV **A**

SCALE: NOT TO SCALE SHEET 1 OF 1

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	DIMENSION	SPECIFICATION
1	1	TSQ-100	TIRE SCRAPER	STEEL		
2	1	ASTM A307	COUNTERFLANK WASHER	STEEL		
3	1	MSS 30430	SCREW			
4	1	TSQ-100-4	BROOKLEY			
5	1	TSQ-100-5	STOP FLANGE			
6	1	TSQ-100-6	STOP PLATE			
7	1	TSQ-100-7	NOSE FLANGE			
8	1	TSQ-100-8	PIN			



**EXPLODED VIEW**

**INSTALLATION INSTRUCTIONS:**

- REMOVE NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.
- REMOVE TWO APT EXISTING BOLTS ATTACHING NOSE GEAR FORK, MAS5006-20, AND ASSOCIATED WASHERS AND NUTS.
- REMOVE TWO APT EXISTING WASHERS AND NUTS ATTACHING NOSE GEAR FORK TO NOSE GEAR.
- REINSTALL NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.
- UPDATE WEIGHT AND BALANCE BY ADDING 0.3 POUNDS AT FE -30.3. COMPLETE FORM 317 INDICATING INSTALLATION OF S.T.C.
- MAINTAIN IN ACCORDANCE WITH DOCUMENT NUMBER TSQ-100-ICA, LATEST APPROVED REVISION.

**REMOVAL INSTRUCTIONS:**

- REMOVE NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.
- REMOVE HARDWARE ATTACHING ITEM -1 TO THE NOSE GEAR.
- REPLACE APT BOLTS, WASHERS, AND NUTS WITH MAS5006-20 BOLTS AND NEW ITEMS -3 THROUGH -6.
- REINSTALL NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.

**INSTALLATION**

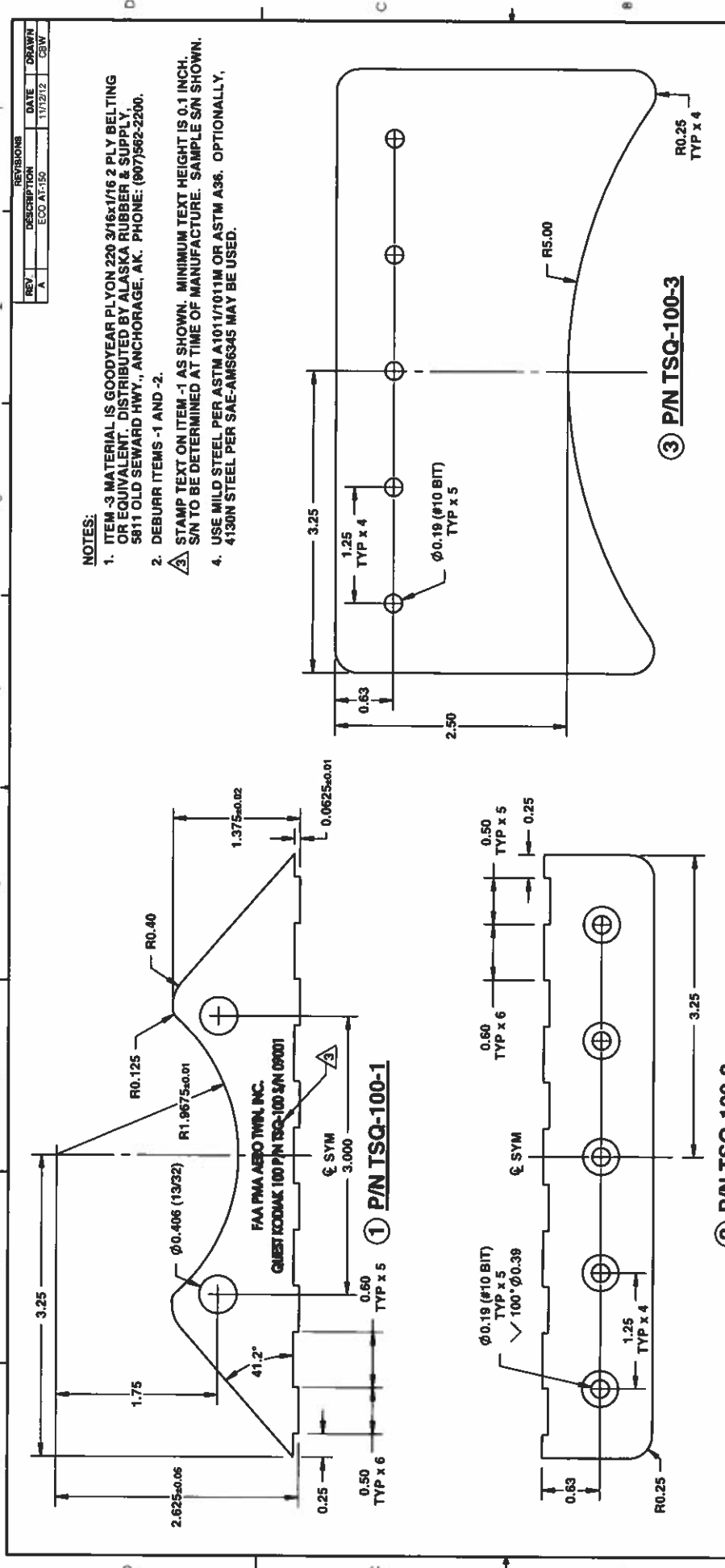
**DO NOT SCALE DRAWING**

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	DIMENSION	SPECIFICATION
1	1	TSQ-100	TIRE SCRAPER			TSQ-100A
2	2	MAS5006-20	BOLT			
3	2	MAS2000-20	COUNTERSUNK WASHER			
4	2	MAS114B-08C1P	WASHER			
5	2	MS-1045-6	NUT			

-----End of Section 3.0 Illustrated Parts List-----





**NOTES:**  
 1. ITEM -3 MATERIAL IS GOODYEAR PLYON 220 3/16x1/16 2 PLY BELTING OR EQUIVALENT. DISTRIBUTED BY ALASKA RUBBER & SUPPLY, 5811 OLD SEWARD HWY., ANCHORAGE, AK. PHONE: (907)562-2200.  
 2. DEBURR ITEMS -1 AND -2.  
 3. STAMP TEXT ON ITEM -1 AS SHOWN. MINIMUM TEXT HEIGHT IS 0.1 INCH. SN TO BE DETERMINED AT TIME OF MANUFACTURE. SAMPLE SN SHOWN.  
 4. USE MILD STEEL PER ASTM A1011/1011M OR ASTM A36. OPTIONALLY, 4130N STEEL PER SAE-AMS6345 MAY BE USED.

**REVISIONS**

REV	DESCRIPTION	DATE	DRAWN
A	ECO AT-150	11/7/12	CSW

**PART NUMBER:** TSO-100-1, TSO-100-2, TSO-100-3

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**AERO TWIN, INC.**  
 2400 LAMAR FIELD DRIVE, ANCHORAGE, ALASKA 99501  
 (907)273-6156 WWW.AEROTWIN.COM  
 GUEST 100 NOSE TIRE SCRAPER, KIT NO. TSO-100

NAME	DATE
J. KEPLER	03/26/07
B. BLATER	03/16/07
J. KEPLER	03/17/07

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 DIMENSIONS ARE IN INCHES

**TOLERANCES:**  
 FRACTIONAL: 24/100"  
 ANGULAR: 0.001"  
 LINEAR: .0006±0.01

**NOSE TIRE SCRAPER PARTS**

SIZE	DWG. NO.	REV
B	TSQ-100-P	A

SCALE: NOT TO SCALE SHEET 1 OF 1

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	DIMENSION	SPECIFICATION
3	1	TSQ-100-3	FLAP		6.5 x 3.5	SEE NOTE 1
2	1	TSQ-100-2	VERT. PLATE	11 GA MILD STEEL	6.5 x 1.2	SEE NOTE 4
1	1	TSQ-100-1	HORIZ. PLATE	11 GA MILD STEEL	6.5 x 1.4	SEE NOTE 4

**① P/N TSOQ-100-1**

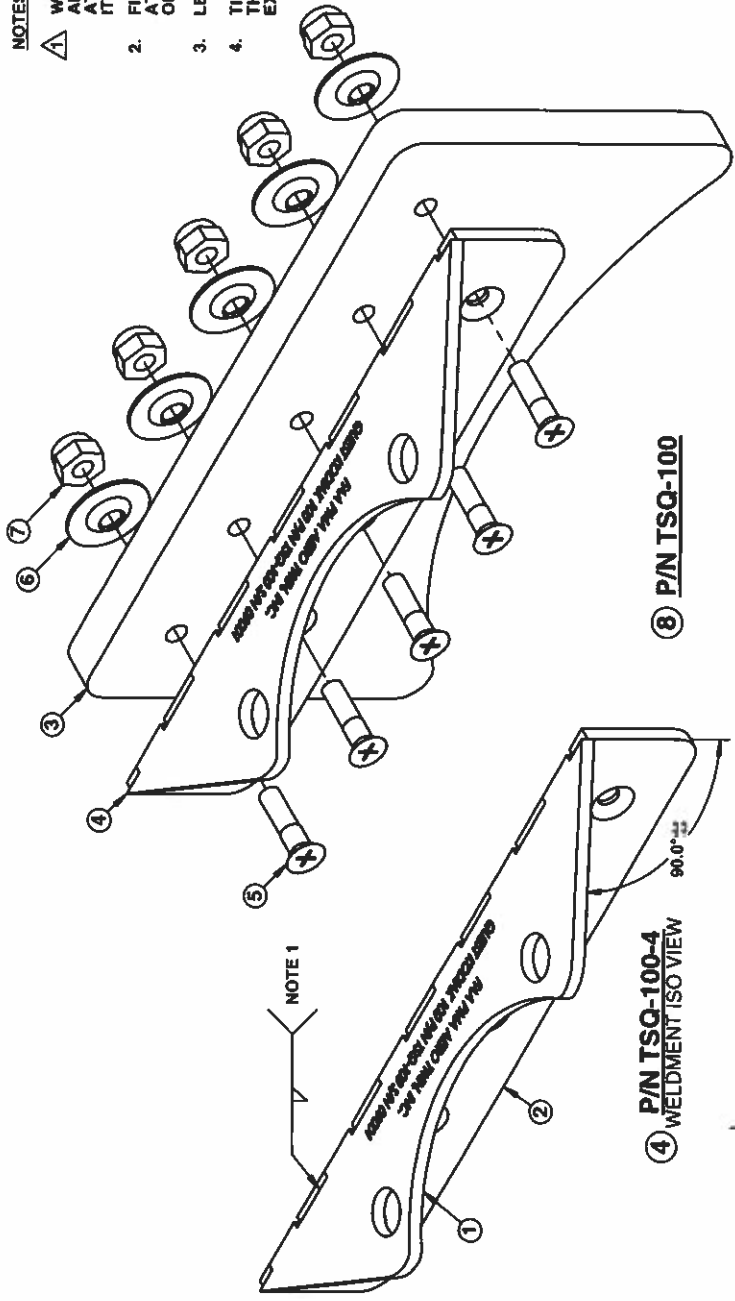
**② P/N TSOQ-100-2**



REV	DESCRIPTION	DATE	DRAWN
A	ECO AT 158	10/23/12	CBW

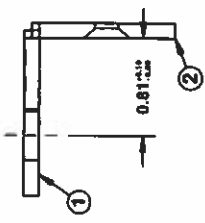
**NOTES:**

1. WELD ENTIRE OUTSIDE SEAM BETWEEN ITEMS -1 AND -2 AND INSPECT IN ACCORDANCE WITH WELDING SPECIFICATION ATI-W-9701. GRIND FINISHED WELD FLUSH WITH FACES OF ITEMS -1 AND -2.
2. FINISH ITEM -4 IN ACCORDANCE WITH FINISH SPECIFICATION ATI-F-1000, LATEST REVISION, AS IT PERTAINS TO THE FINISH OF STEEL PARTS.
3. LENGTH OF ITEM -5 MAY VARY ONE DASH NUMBER AS REQUIRED.
4. TIGHTEN ITEM -7 UNTIL THE OUTSIDE EDGE OF ITEM -6 CONTACTS THE SURFACE OF ITEM -3. ENSURE MINIMUM 1.5-THREAD EXPOSURE THROUGH LOCKING FEATURE OF ITEM -7.



④ P/N TSO-100-4 WELDMENT ISO VIEW

⑧ P/N TSO-100



④ P/N TSO-100-4 WELDMENT - SIDE VIEW

**PART NUMBER: TSO-100-4, TSO-100**

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**AERO TWIN, INC.**  
2443 MERILL FIELD DRIVE, ANCHORAGE, ALASKA, 99501  
(907)274-5144, WWW.AEROTWIN.COM  
CUBERT 100 NOSE TIRE SCRAPER, IT NO. TSO-100

DRAWN	J. REFLER	DATE	03/06/07
CHECKED	B. BAUER		03/16/07
ENG. APPL.	J. OPIKA		03/17/07

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ANGULAR: 30°  
LINEAR: .006±0.010

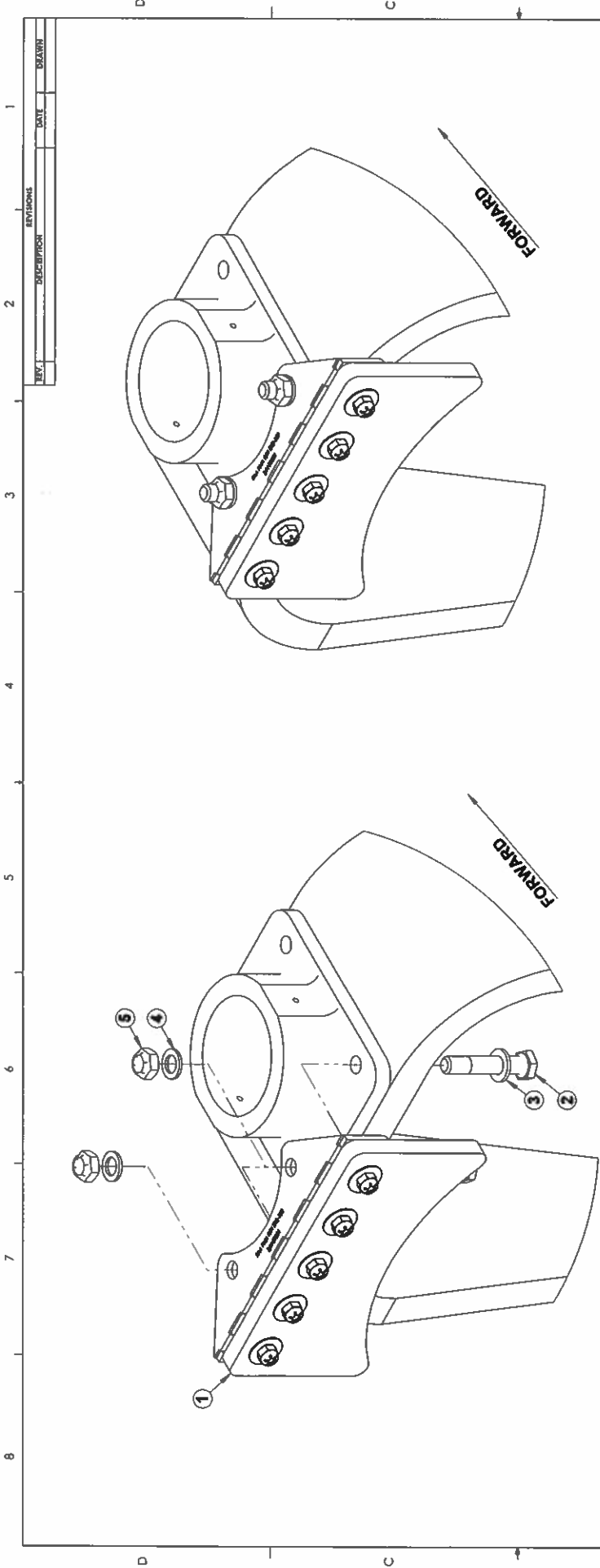
**NOSE TIRE SCRAPER ASSEMBLY**

SIZE: DWG. NO. **B TSO-100-A** REV **A**

SCALE: NOT TO SCALE SHEET 1 OF 1

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	DIMENSION	SPECIFICATION
8	1	TSO-100	TIRE SCRAPER			
7	5	MS21044N8	NUT			
6	5	A3235-028-24A	COUNTERSUNK WASHER			ALT P/N FW235-2B
5	5	MS24694SS4	SCREW			
4	1	TSO-100-4	BRACKET			
3	1	TSO-100-3	FLAP			TSO-100-P
2	1	TSO-100-2	VERT. PLATE			TSO-100-P
1	1	TSO-100-1	HORIZ. PLATE			TSO-100-P





**EXPLODED VIEW**

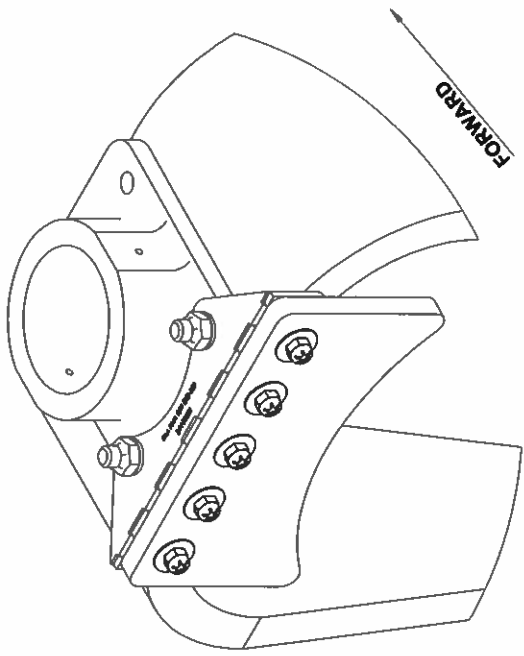
**INSTALLATION INSTRUCTIONS:**

1. REMOVE NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.
2. REMOVE TWO AFT EXISTING BOLTS ATTACHING NOSE GEAR FORK, NAS6606-20, AND ASSOCIATED WASHERS AND NUTS.
3. REPLACE AFT BOLTS, WASHERS, AND NUTS WITH ITEMS -3 THROUGH -5, ATTACHING ITEM -1 TO THE NOSE GEAR.
4. REINSTALL NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.
5. UPDATE WEIGHT AND BALANCE BY ADDING 0.1 POUNDS AT FS -30.3. COMPLETE FORM 337 INDICATING INSTALLATION OF STC.
6. MAINTAIN IN ACCORDANCE WITH DOCUMENT NUMBER TSQ-100-1CA, LATEST APPROVED REVISION.

**REMOVAL INSTRUCTIONS:**

1. REMOVE NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.
2. REMOVE HARDWARE ATTACHING ITEM -1 TO THE NOSE GEAR.
3. REPLACE AFT BOLTS, WASHERS, AND NUTS WITH NAS6606-20 BOLTS AND NEW ITEMS -3 THROUGH -5.
4. REINSTALL NOSE WHEEL IN ACCORDANCE WITH QUEST 100 MAINTENANCE MANUAL.

**INSTALLATION**



**PART NUMBER:** -

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TOLEANCES:  
 FRACTIONAL: ±.010"  
 DECIMAL: ±.005"  
 UNEAR: .0008-010

**NOSE TIRE SCRAPER INSTALLATION**

SIZE DWG. NO. **B TSQ-100-I** REV **N/C**

SCALE: NOT TO SCALE SHEET 1 OF 1

ITEM	QTY	PART NO.	DESCRIPTION	MATERIAL	DIMENSION	SPECIFICATION
5	2	MS21045-8	NUT	-	-	-
4	2	NAS1149F0653P	WASHER	-	-	-
3	2	MS20002C6	COUNTERSUNK WASHER	-	-	-
2	2	NAS6606-22	BOLT	-	-	-
1	1	TSQ-100	TIRE SCRAPER	-	-	TSQ-100-A

REV.	DESCRIPTION	DATE	DRAWN

