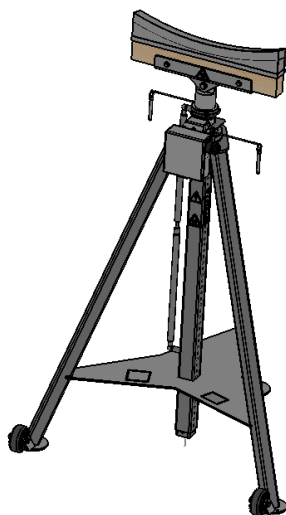




OPERATION & SERVICE MANUAL



Model: 03A5849C0000
Global 7000/8000
Tailstand with Alarm



10/2018 – Rev. 03

REVISION	DATE	TEXT AFFECTED
01	02/2017	Original Release
02	03/2017	Major revision
03	10/2018	Modified Parts List

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This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., its suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur. Only Tronair OEM replacement parts shall be used.

1.0 PRODUCT INFORMATION

1.1 DESCRIPTION

Global 7000/8000 tailstand with alarm.

1.2 MODEL & SERIAL NUMBER

Reference nameplate on unit

1.3 MANUFACTURER

TRONAIR, Inc.
1 Air Cargo Pkwy East
Swanton, Ohio 43558 USA

Telephone: (419) 866-6301 or 800-426-6301
Fax: (419) 867-0634
E-mail: sales@tronair.com
Website: www.tronair.com

1.4 FUNCTION

The device is intended to stabilize an aircraft by its fuselage during maintenance, whose maximum load does not exceed the rated capacity of the tailstand.

2.0 SAFETY INFORMATION

2.1 USAGE AND SAFETY INFORMATION

To insure safe operations please read the following statements and understand their meaning. Also refer to your equipment manufacturer's manual for other important safety information. This manual contains safety precautions which are explained below. Please read carefully.



WARNING! — Warning is used to indicate the presence of a hazard that **can cause severe personal injury, death, or substantial property damage** if the warning notice is ignored.

CAUTION! — Caution is used to indicate the presence of a hazard that **will or can cause minor personal injury or property damage** if the caution notice is ignored.

2.2 ALARM AND WARNING SYSTEMS

The tailstand has an alarm system that alerts the operator that a force of 100 to 150 pounds (45.36 to 68.04 kg) is being applied to the top of the cradle. The unit attached to the tailstand sounds a loud 85 dB pulsating alarm until the force is reduced.

2.3 COMPONENT SAFETY FEATURES

Extension Pin provides a visual check that the pin is fully inserted

2.4 ENVIRONMENTAL SAFETY FEATURES

Tailstand is non-polluting.

2.5 CLOSED CIRCUITS

Reference **Figure 1**

2.6 NECESSARY PERSONAL PROTECTIVE EQUIPMENT



CAUTION!

Always wear safety glasses.

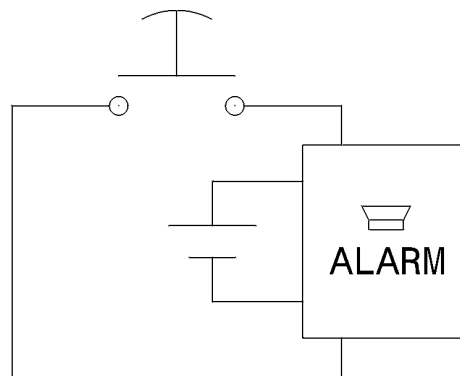


Figure 1 – Closed Circuits

2.0 SAFETY INFORMATION *(continued)***2.7 SAFETY GUIDELINES****CAUTION!**

1. **DO NOT** place hands on top of tailstand near base tube receiver while lowering tailstand extension. Pinch point exists between top of tube and bracket on extension.
2. **DO NOT** place feet under tailstand near base tube receiver while lowering tailstand extension. Pinch point exists between ground and extension tube.
3. **ALWAYS** install tailstand **AFTER** aircraft has been jacked to working position.
4. Never put hands between aircraft and tailstand cradle.
5. **ALWAYS** be sure tailstand extension pin is fully locked and inserted through the tube.
6. **NEVER** load tailstand by lowering jacks. **ALWAYS** lower and remove tailstand **BEFORE** lowering aircraft.
7. **DO NOT** place hands near the die springs on the load alarm while the stabilization stand is in use. Pinch point exists on the die springs and between the top plate and the base of the load alarm.
8. **DO NOT** allow prolonged exposure to the sounding alarm. The alarm sound may cause permanent hearing loss.
9. **DO NOT** place objects in the path of the alarm's horn opening that may limit the audible range and reduce the effectiveness of the alarm.
10. **DO NOT** turn setscrew located under the plunger switch. The distance between the setscrew and plunger is pre-set by the factory.

2.8 CONDITIONS FOR SAFE USE

- Use in a clean dry environment, on a hard level surface.
- Operate between +4° C and 38° C/+40° F and 100° F.

2.9 OPERATOR QUALIFICATIONS

This tailstand is intended to be used by a skilled and trained aircraft technician. The operator must be familiar with the jacking procedures for the aircraft to be raised, and the operation of the tailstand.

Installation/Maintenance/Dismantling Qualifications: This tailstand is to be installed, maintained, and dismantled by qualified technicians familiar with aircraft maintenance systems.

2.10 ADDITIONAL SAFETY MEASURES

This tailstand must be used in accordance with this Operation and Service manual, and in accordance with the aircraft manufacturer's jacking and stabilizing procedures.

3.0 ASSEMBLY

3.1 GENERAL INSTRUCTIONS

1. This product should be assembled and/or repaired using good workmanship practices and proper tools. Bolts and elastic stopnuts should be tightened to a torque not to exceed industry standards for Grade 5 bolts.
2. All replacement parts must be the same as or better than the original parts supplied.
3. No modifications are allowed as they may adversely affect the tailstand's safety performance.

3.2 PRE-USE CHECKS

1. Refer to the Illustrated Parts List to identify and ensure that all parts are present.
2. Generally, check over unit and ensure the tightness of all nuts and bolts.

3.3 PERSONNEL REQUIREMENTS

This jack is to be assembled by qualified technicians familiar with aircraft maintenance systems.

3.4 ASSEMBLY STEPS

Install the 12 volt battery in the alarm bracket.

3.5 INSPECTION AND TEST PROCEDURES

1. Depress the plunger switch to check electronic circuit. The alarm will sound when the switch is engaged. (see Figure 2)
2. Test alarm by slowly applying an evenly distributed force of 100 to 150 lbs (45.36 to 68.04 kg) across the top of the cradle. The top plate of the load alarm kit will lower and engage the plunger switch. A loud pulsating alarm will then sound. If alarm does not sound, refer to the Troubleshooting section. (see Figure 2)

4.0 TRAINING

4.1 TRAINING REQUIREMENTS

Training of operating personnel is the responsibility of the employer. This tailstand must be used in accordance with aircraft manufacturer's instructions.

4.2 TRAINING PROGRAM

The employer provided operator training program should cover safety procedures concerning use of the unit in and around the intended aircraft at the intended aircraft servicing location.

4.3 OPERATOR TRAINING

The operator training should provide the required training for safe operation of the unit.

NOTE: Maintenance and Trouble Shooting are to be performed by a skilled and trained technician.

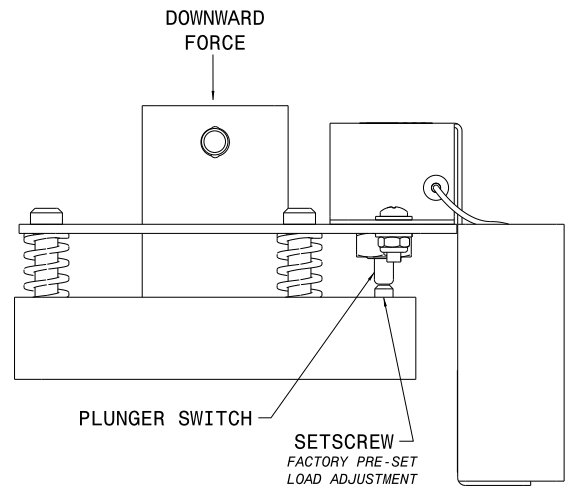


Figure 2

5.0 OPERATION**5.1 OPERATING PARAMETERS**

1. The user shall work in accordance with the Operator and Maintenance Manual.
2. The employer of the operator shall provide all necessary training.
3. Operate between +4° C and 38° C/+40° F and 100° F.

5.2 NUMERICAL VALUES

- Minimum Closed Height: 67 in (170 cm)
- Maximum Height Obtainable: 120 in (304.8 cm)
- Weight: 135 lbs (61 kg)
- Alarm (Battery Powered): 12 vdc
- Alarm Horn: 85 dB

5.3 OPERATING INSTRUCTIONS

The user should be familiar with the following statements prior to using the tailstand:

**CAUTION!**

1. **DO NOT** place hands on top of tailstand near base tube receiver while lowering tailstand extension. Pinch point exists between top of tube and bracket on extension.
2. **DO NOT** place feet under tailstand near base tube receiver while lowering tailstand extension. Pinch point exists between ground and extension tube.
3. **ALWAYS** install tailstand **AFTER** aircraft has been jacked to working position.
4. **Never** put hands between aircraft and tailstand cradle.
5. **ALWAYS** be sure tailstand extension pin is fully locked and inserted through the tube.
6. **NEVER** load tailstand by lowering jacks. **ALWAYS** lower and remove tailstand **BEFORE** lowering aircraft.
7. **DO NOT** place hands near the die springs on the load alarm while the stabilization stand is in use. Pinch point exists on the die springs and between the top plate and the base of the load alarm.
8. **DO NOT** allow prolonged exposure to the sounding alarm. The alarm sound may cause permanent hearing loss.
9. **DO NOT** place objects in the path of the alarm's horn opening that may limit the audible range and reduce the effectiveness of the alarm.
10. **DO NOT** turn setscrew located under the plunger switch. The distance between the setscrew and plunger is pre-set by the factory.

5.3.1 Rules For Operating

- a. The user shall work in accordance with the Operator and Service Manual.
- b. The employer of the operator shall provide all necessary training.
- c. Operate between +4° C and 38° C/+40° F and 100° F.

5.3.2 Operation

When a force of 100 to 150 pounds (45.36 to 68.04 kg) is applied to the top of the cradle, the cradle head will lower and depress the plunger switch. This will activate the alarm, which sounds a loud 85 dB pulsating alarm until the force is reduced.

5.3.3 Alarm Test

Depress plunger switch and hold for a minimum of two (2) seconds. This will sound the alarm if the electronic circuitry, horn and battery are operating correctly. Refer to Trouble Shooting section of this manual if test fails.

5.3.4 Alarm Load Test

Place a force between 100 to 150 lbs (45.36 to 68.04 kg) to the top of the cradle. This will activate the alarm. Refer to Trouble Shooting section of this manual if test fails.

5.3 Operating instructions continued on following page.

5.3 OPERATING INSTRUCTIONS *(continued)*

5.3.5 Tailstand Instructions

To Raise Aircraft:

- Jack aircraft to desired height.
- Place tailstand on a hard, level surface.
- Position tailstand at aircraft manufacturer's recommended location.
- Raise tailstand extension padded cradle as close to aircraft as possible.
- Install tailstand extension pin.

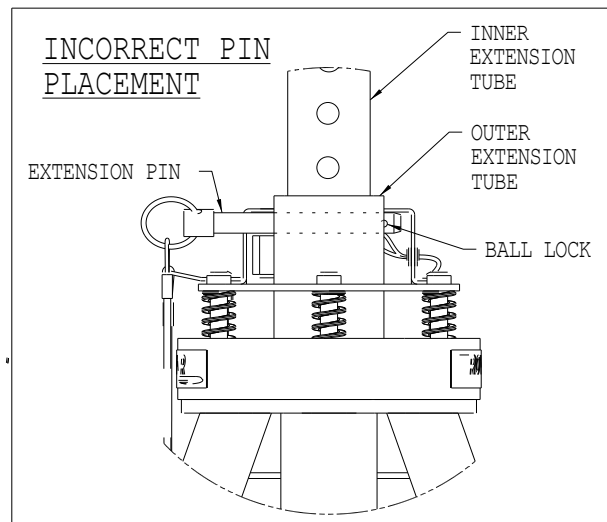
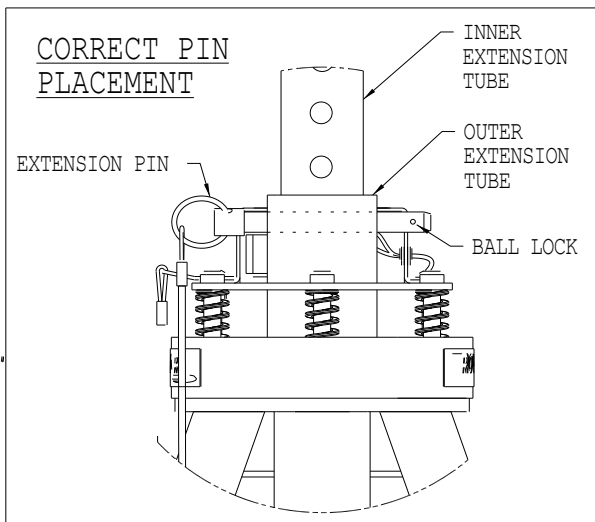


WARNING!

The locking pin **MUST** be placed fully through the inner and outer extension tube.

The locking pin washer and ball lock **MUST** be placed outside the outer extension tube.

- Do not place extra locking pins in any other hole on the inner extension tube.
- Under no conditions should the locking pin's ball lock be inside the inner and outer extension tube.
- Never use a locking pin that has been damaged.
- Never use an inner and outer extension tube that has been damaged or deformed.
- Failure to comply could result in premature failure below certified weight and could cause serious injury including death.



- Make necessary adjustments to reduce force on tailstand when the alarm sounds.

To Lower Aircraft:

- Clear all personnel from inside and under aircraft.
- Make necessary adjustments to reduce force on tailstand when the alarm sounds.
- Remove tailstand extension pin and lower extension.
- Relocate tailstand away from aircraft and secure.
- Lower aircraft to the ground.



CAUTION!

- DO NOT** place hands on top of tailstand near base tube receiver while lowering tailstand extension. Pinch point exists between top of tube and bracket on extension.
- DO NOT** place feet under tailstand near base tube receiver while lowering tailstand extension. Pinch point exists between ground and extension tube.
- ALWAYS** wear safety glasses.

6.0 PACKAGING AND STORAGE**6.1 PACKAGING REQUIREMENTS**

Tailstand is to be packaged as required to prevent damage to legs or cradle equipment during shipment.

6.2 STRAPPING

Tailstand can be strapped down by suitable means to prevent unwanted movement during shipment.

6.3 PACKAGING PROTECTION

No special packaging material for cushioning or suspension is required.

6.4 LABELING OF PACKAGING

Packaging should be labeled **DO NOT DROP**.

6.5 STORAGE ENVIRONMENT

- Store tailstand between +4° C and +38° C/+40° F and 100° F.
- Always store tailstand with extension all the way down.
- Tailstand must be stored in a clean and dry environment.

6.6 STORAGE SPACE AND HANDLING FACILITIES

- Minimum Closed Height: 67 in (170 cm)
- Maximum Height Obtainable: 120 in (304.8 cm)
- Weight: 135 lbs (61 kg)

7.0 TROUBLESHOOTING**7.1 ALARM WILL NOT SOUND**

Possible Cause	Solution
Load was on the cradle for a short period of time	Limit switch has to be engaged for a minimum of two (2) seconds
Defective alarm	Replace alarm
Battery power depleted	Replace battery
Defective Limit Switch	Replace limit switch
Broken wire connection	Check wire connection between limit switch and alarm
Cradle head did not lower far enough to contact limit switch	Test per Section 3.5

7.2 ALARM PRODUCES AN ERRATIC OR LOW SOUND

Possible Cause	Solution
Defective alarm	Replace alarm

8.0 MAINTENANCE**8.1 GENERAL**

- All maintenance and/or repair work should be done using good workmanship practices and proper tools.
- Tailstand shall be maintained and repaired in accordance with the manufacturers instructions. Such maintenance and repair shall be carried out by qualified persons.
- No modifications shall be carried out as they may adversely affect the compliance of the tailstand with draft standard prEN 1494:1994.

8.2 MAINTENANCE SCHEDULE

Cleaning: Annually or as Needed

NOTE: Wipe with soft cloth only, do not pressure wash or spray water directly at cradle.

8.3 CLEANING ALARM

The openings around the alarm perimeter may be cleared of debris by using compressed air or a vacuum cleaner hose to blow/suction openings. The outside surface of the alarm unit may be wiped with a damp cloth.

9.0 PROVISION OF SPARES

9.1 SOURCE OF SPARE PARTS

Spare parts may be obtained from the manufacturer:

TRONAIR, Inc.

1 Air Cargo Pkwy East

Swanton, Ohio 43558 USA

Telephone: (419) 866-6301 or 800-426-6301

Fax: (419) 867-0634

E-mail: sales@tronair.com

Website: www.tronair.com

9.2 RECOMMENDED SPARE PARTS LISTS

Reference the following page(s) for Replacement Parts and Kits available.

10.0 IN-SERVICE SUPPORT

Contact Tronair, Inc. for technical services and information. See Section 1.3 – Manufacturer.

11.0 GUARANTEES/LIMITATION OF LIABILITY

Tronair products are warranted to be free of manufacturing or material defects for a period of one year after shipment to the original customer. This is solely limited to the repair or replacement of defective components. This warranty does not cover the following items:

- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

If you have a problem that may require service, contact Tronair immediately. Do not attempt to repair or disassemble a product without first contacting Tronair, any action may affect warranty coverage. When you contact Tronair be prepared to provide the following information:

- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA in advance of returning an item will result in a service fee. A decision on the extent of warranty coverage on returned products is reserved pending inspection at Tronair. Any shipments to Tronair must be shipped freight prepaid. Freight costs on shipments to customers will be paid by Tronair on any warranty claims only. Any unauthorized modification of the Tronair products or use of the Tronair products in violation of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied.

The obligations of Tronair expressly stated herein are in lieu of all other warranties or conditions expressed or implied. **Any unauthorized modification of the Tronair products or use of the Tronair products in violations of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied and Tronair disclaims any and all liability for injury (WITHOUT LIMITATION and including DEATH), loss or damage arising from or relating to such misuse.**

14.0 APPENDICES

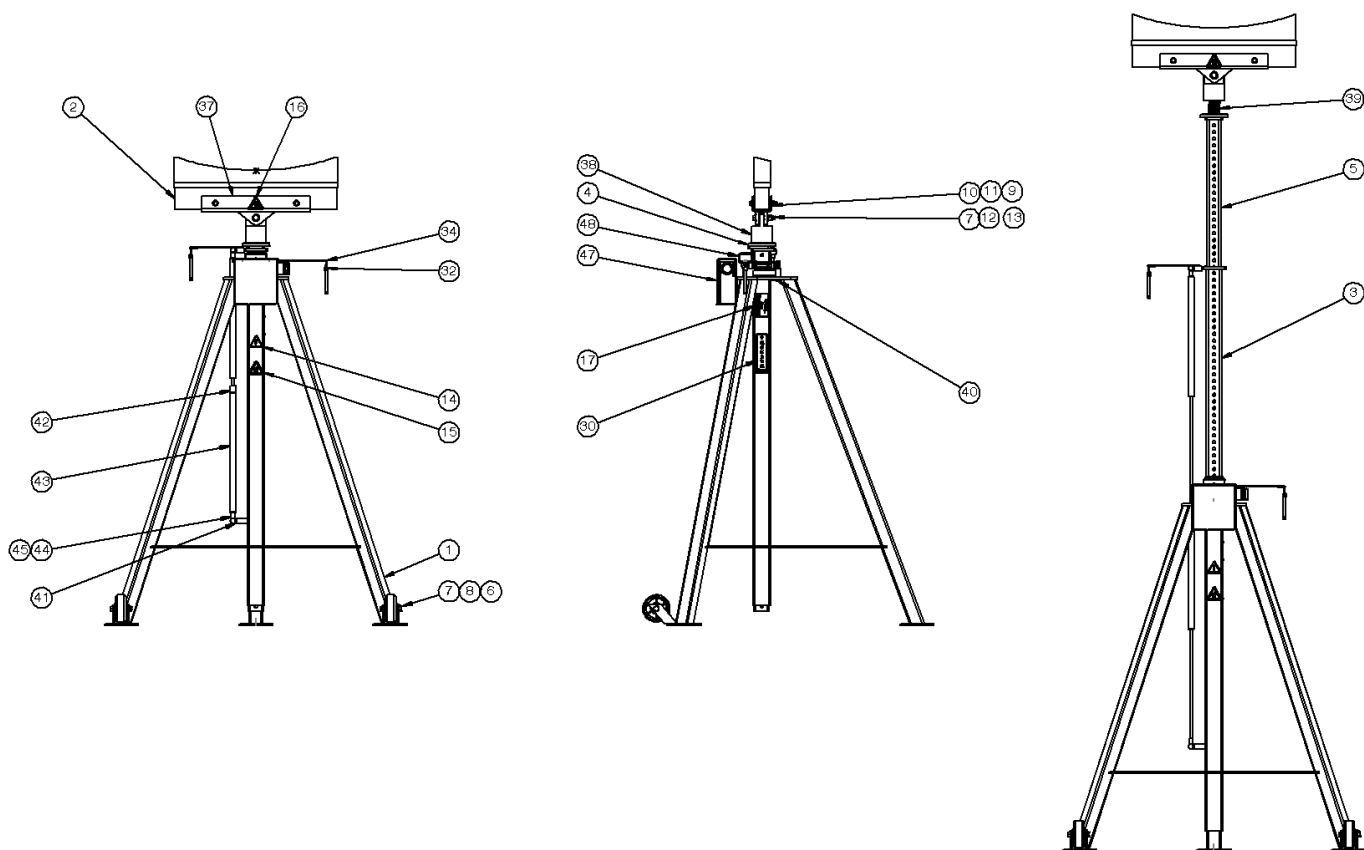
APPENDIX I Declaration of Conformity

APPENDIX II Rockwell Automation Bulletin 855P/855PC

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Parts List

When ordering replacement parts/kits, please specify model, serial number and color of your unit.



Item	Part Number	Description	Qty
1	Z-9135-01	Weldment, Tailstand	1
2	Z-5723	Assembly, Cradle	1
3	Z-9140-01	Weldment, Second Extension Tube	1
4	R-3064	Jamnut, ACME	1
5	Z-10571-00	Machining, First Extension Tube	1
6	U-1002	Wheel	2
7	G-1100-109526	Bolt, Hex Head Grade 5, 1/2 - 20 x 2 3/4 Long	3
8	G-1203-1095	Jamnut, 1/2 - 20 Elastic	2
9	G-1100-107536	Bolt, Hex Head Grade 5, 3/8 - 24 3 3/4 Long	2
10	G-1250-1070N	Flatwasher, 3/8 Narrow	4
11	G-1202-1075	Stopnut, 3/8 - 24 Elastic	2
12	G-1250-1090N	Flatwasher, 1/2 Narrow	2
13	G-1202-1095	Stopnut, 1/2 - 20 Elastic	1
14	V-1805	Label, ISO General Danger	1
15	V-2000	Label, ISO Foot Crush	1
16	V-1999	Label, ISO Hand Crush	1
17	V-1779	Label, Serial CE Non-Elect	1
30	V-1198	Label, Tronair	1
32	G-1493	Pin, 3/8 x 3 Long	2
34	H-1026*07.0	Assembly, Lanyard	2
37	Z-9339-01	Weldment, Cradle Support	1
38	R-3063-01	Adapter, Pivot	1

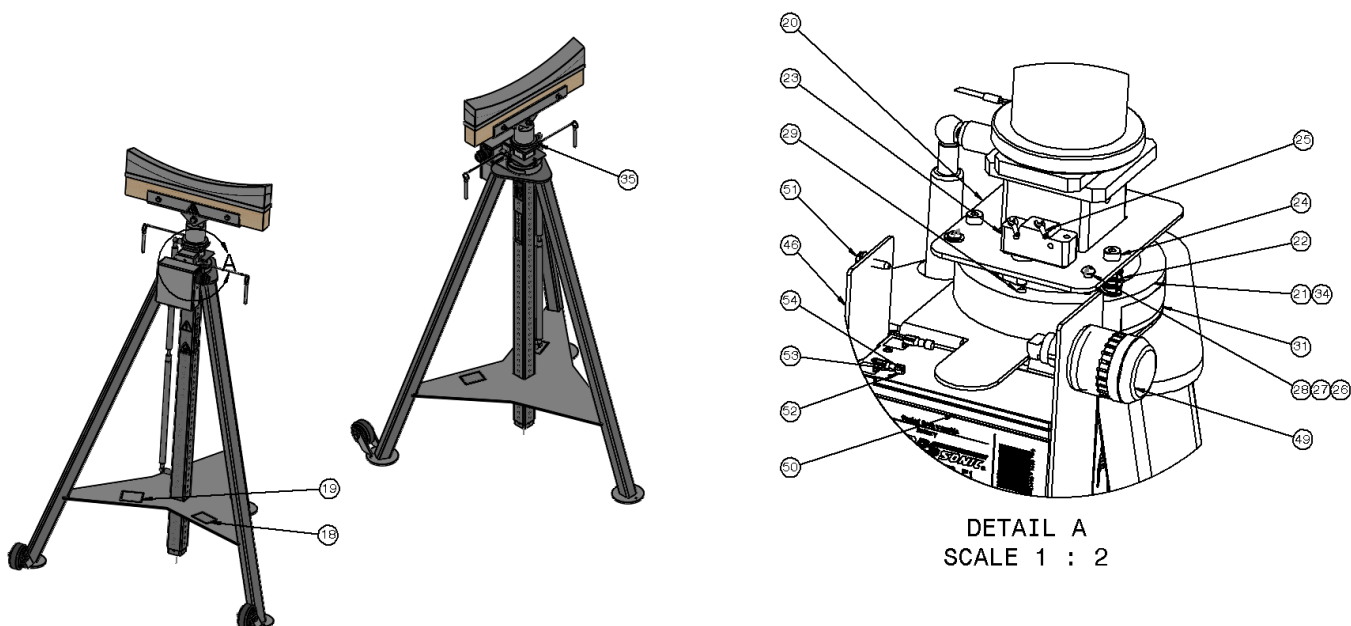
Parts List

When ordering replacement parts/kits, please specify model, serial number and color of your unit.

Item	Part Number	Description	Qty
39	R-3104	Coupler, Strut	1
40	G-1159-105010	Screw, Round Head Cross Recess, ¼ - 20 x 1 Long	3
41	H-3666	Stud, Ball	2
42	R-3104	Coupler, Strut	2
43	H-4051	Strut, Gas	2
44	H-4053	Socket, Ball	2
45	H-3668	Clip, Ball Socket	2
47	S-3139-01	Cover, Load Alarm	1
48	S-3141-01	Cover, Micro Switch	1

Parts List

When ordering replacement parts/kits, please specify model, serial number and color of your unit.



Item	Part Number	Description	Qty
18	V-1996	Label, Tailstand Caution	1
19	V-1997	Label, Tailstand Instructions	1
20	Z-5962-01	Bracket, Tube	1
21	TR-1883	Base	1
22	H-2762	Spring, Light Duty Die	3
23	EC-1796	Switch, Limit	1
24	G-1155-105210	Screw, Socket Head Shoulder, 5/16 x 1 Long	3
25	EC-1179-01	Terminal, Forked Tongue	2
26	G-1250-1030N	Flatwasher, #10 Narrow	6
27	G-1202-1035	Stopnut, #10-32 Elastic	2
28	G-1159-103503	Screw, Round Head Cross Recess, 10-32	2
29	G-1163-10	Screw, Hex Cup PT Set, 1/4 - 20 x 1 Long	1
31	V-1197	Label, Tronair	1
34	H-1026*07.0	Assembly, Lanyard	2
35	G-1159-103503	Screw, Round Head Cross Recess Machine, #10-32 x 3/8 Long	2
46	S-3134-01	Bracket, Load Alarm	1
49	EC-3024	Light Alarm	1
50	EC-3023	Battery, 12 Volt	1
51	G-1180-103504	Screw, #10 Hex Head TPG Type F	1
52	EC-1326-05	Disconnect, Female BLU 3/16 F/I	2
53	EC-1253-01*06.0	Wire, Electric 14 GA White	1
54	EC-1263-01*10.0	Wire, Electric 14 GA Black	2



WARNING!

Use of different battery types may have a detrimental effect on the alarm.



APPENDIX I

Declaration of Conformity



DECLARATION of CONFORMITY

The design, development and manufacture is in accordance with European Community guidelines

Tailstand with Alarm
03A5849C0000

Relevant provisions complied with by the machinery:
2006/42/EC

Relevant standards complied with by the machinery:
EN ISO 12100-1

Identification of person empowered to sign on behalf of the Manufacturer:

A handwritten signature in cursive script, reading "Patrick Finch". The signature is written in dark ink and is positioned above a horizontal line.

Quality Assurance Representative



APPENDIX II

**Rockwell Automation
Bulletin 855P/855PC**



Bulletin 855P 855PC



WARNING

AVERTISSEMENT

WARNUNG

AVVERTENZA

ATENÇÃO

ADVERTENCIA

Disconnect from power source to prevent electrical shock before installing or servicing. Check power supply voltage and frequency.

Déconnecter l'alimentation avant toute opération d'installation ou de maintenance, afin d'éviter les décharges électriques. Contrôler la tension et la fréquence d'alimentation.

Schalten Sie den Strom während der Installation oder bei Wartungsarbeiten ab um einen elektrischen Schlag zu vermeiden. Prüfen Sie die Spannung und Frequenz der Stromquelle. Scollegare dall'alimentazione prima dell'installazione e della messa in servizio. Controllare la tensione di alimentazione e la frequenza.

Desligar a alimentação antes de realizar qualquer intervenção. Verificar a tensão e frequência da alimentação.

Durante el proceso de instalación o mantenimiento desconectar la tensión de alimentación para evitar descargas eléctricas. Comprobar tensión y frecuencia de alimentación.

-25°C to +60°C
(-13°F to +140°F)

Electrical Connection Raccordement Electrique Elektrischer Anschluß Collegamento Elettrico Ligações Elétricas Conexiones Eléctricas

855P & 855PC

La	N	Lb		
X	X		---	PULSING
	X	X	~	WOBBLE (65 mm ONLY)
X	X	X	—	STEADY

Jumper
Cavalier
Brücke
Ponticello
Ponte
Puente



WARNING

AVERTISSEMENT

WARNUNG

AVVERTENZA

ATENÇÃO

ADVERTENCIA

Connect AC-Neutral to N, and AC-Line to La and/or Lb as appropriate.

connecter CA-Neutre à N et CA-Ligne à La et/ou Lb selon le cas.

Verbinden Sie den Neutralleiter mit N und den Außenleiter mit La und/oder Lb.

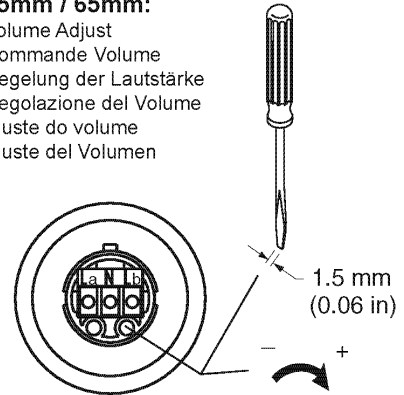
Collegare Neutro-CA a N e Linea-CA a La e/o Lb come appropriato.

Conecte o CA Neutro ao N e a Linha CA ao La e/ou Lb, conforme necessário.

Conecte Neutro-CA a N y Línea-CA a La o Lb según corresponda.

45mm / 65mm:

Volume Adjust
Comande Volume
Regelung der Lautstärke
Regolazione del Volume
Ajuste do volume
Ajuste del Volumen



WARNING

AVERTISSEMENT

WARNUNG

AVVERTENZA

ATENÇÃO

ADVERTENCIA

Do not apply voltage across La and Lb as device may be damaged.

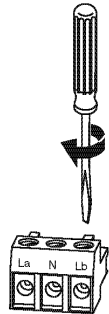
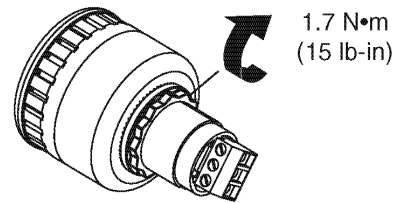
ne pas appliquer de tension à La/Lb ou vous risquez d'endommager le dispositif.

Keine Spannung an Klemme La und Lb anlegen, da dadurch das Gerät zerstört werden kann.

non applicare corrente a La/Lb poiché si potrebbe danneggiare il dispositivo.

Não aplique voltagem a La/Lb, pois isso pode danificar o dispositivo.

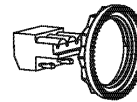
No aplicar corriente a La/Lb ya que puede dañarse el dispositivo.



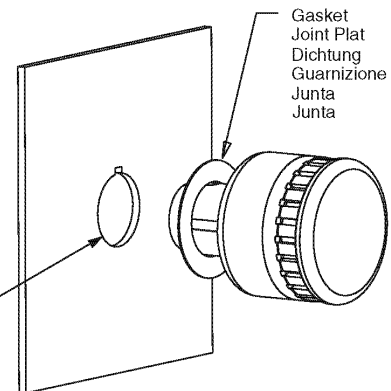
.56 N•m
(5 lb-in)

7 mm
(0.28 in)

Max. 2.5 mm²
(Max. #14 AWG)



Ø 22.5 mm
(0.89 in)



Gasket
Joint Plat
Dichtung
Guarnizione
Junta
Junta