



Minimum Fuel Required. Two standard cylinders must be present (see also NOTE 4).

Serial No's Eligible. 017 onwards.

**II - Model 69A, Hot Air Balloon, Approved December 22, 1994.**

Envelope. Volume 69,000 cu.ft., drawing EA-069-A-001

Air Heater. Lindstrand Jetstream Series 1 Burner Assembly:  
 Double Burner, drawing BU-002-A-001.  
 Single Burner, drawing BU-001-A-001.  
 Super Single Burner, drawing BU-007-A-001.  
 Lindstrand Jetstream Series 2 Burner Assembly:  
 Double Burner, drawings BU-008-A-001 and BU-008-A-002.

Baskets. Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-005-A-001, BA-006-A-001, BA-007-A-001, and BA-009-A-001.

Fuel. Commercial LPG or Propane.

Maximum Weight. 1518 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.

Allowable Envelope Temperature. 1. Never exceed 261°F.  
 2. Maximum continuous 257°F.

Minimum Crew. One (1) Pilot.

Minimum Fuel Required. Two standard cylinders must be present (see also NOTE 4).

Serial No's Eligible. 010 onwards.

**III. Model 77A, Hot Air Balloon, Approved December 22, 1994.**

Envelope. Volume 77,000 cu.ft., drawing EA-077-A-001

Air Heater. Lindstrand Jetstream Series 1 Burner Assembly:  
 Double Burner, drawing BU-002-A-001.  
 Single Burner, drawing BU-001-A-001.  
 Super Single Burner, drawing BU-007-A-001.  
 Lindstrand Jetstream Series 2 Burner Assembly:  
 Double Burner, drawings BU-008-A-001 and BU-008-A-002.

Baskets. Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-005-A-001, BA-006-A-001, BA-007-A-001, BA-008-A-001, and BA-009-A-001.

Fuel. Commercial LPG or Propane.

<u>Maximum Weight.</u>	1694 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	014 onwards.

#### **IV. Model 90A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 90,000 cu.ft., drawing EA-090-A-001
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Single Burner, drawing BU-001-A-001. Super Single Burner, drawing BU-007-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-005-A-001, BA-006-A-001, BA-007-A-001, BA-008-A-001, and BA-009-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1980 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	022 onwards.

#### **V. Model 105A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 105,000 cu.ft., drawing EA-105-A-001
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Assembly: Double Burner, drawing BU-002-A-001. Lindstrand Jetstream Series 2 Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.

<u>Baskets.</u>	Lindstrand Baskets to drawings BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-010-A-001, BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-006-A-001, BA-007-A-001, and BA-008-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	2310 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	012 onwards.

#### **VI. Model 120A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 120,000 cu.ft., drawing EA-120-A-001
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Double Burner plus CLF, drawing BU-003-A-001. Triple Burner, drawing BU-004-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002. Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003 Quad Burner, drawings BU-012-A-001, BU-012-A-002 and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-003-A-001, BA-003-A-002, BA-010-A-001, BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-008-A-001, BA-034-A-001, BA-035-A-001, and BA-040-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	2640 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	031 onwards.

**VII - Model 150A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 150,000 cu.ft., drawing EA-150-A-001
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Double Burner plus CLF, drawing BU-003-A-001. Triple Burner, drawing BU-004-A-001. Triple Burner plus CLF, drawing BU-005-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002. Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003 Quad Burner, drawings BU-012-A-001, BU-012-A-002 and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-011-A-001, BA-011-A-002, BA-012-A-001, BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-020-A-001, BA-031-A-001, BA-034-A-001, BA-035-A-001, and BA-040-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	3190 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	040 onwards.

**VIII - Model 180A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 180,000 cu.ft., drawing EA-180-A-001
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner, drawing BU-002-A-001. Double Burner plus CLF, drawing BU-003-A-001. Triple Burner, drawing BU-004-A-001. Triple Burner plus CLF, drawing BU-005-A-001. Quad Burner, drawing BU-006-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003. Quad Burner, drawings BU-012-A-001, BU-012-A-002 and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-013-A-001, BA-014-A-001, BA-015-A-001, BA-020-A-001, BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-028-A-001, BA-029-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, BA-037-A-001, BA-038-A-001, and BA-040-A-001.

<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	3586 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	025 onwards.

**IX - Model 240A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 240,000 cu.ft., drawing EA-240-A-001
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner plus CLF, drawing BU-003-A-001. Triple Burner, drawing BU-004-A-001. Triple Burner plus CLF, drawing BU-005-A-001. Quad Burner, drawing BU-006-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003 Quad Burner, drawings BU-012-A-001, BU-012-A-002 and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-029-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, and BA-037-A-001.

<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	4268 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	019 onwards.

**X. Model 310A, Hot Air Balloons, Approved December 22, 1994.**

<u>Envelope.</u>	Volume 310,000 cu.ft., drawing EA-310-A-001
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<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Triple Burner plus CLF, drawing BU-005-A-001. Quad Burner, drawing BU-006-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003. Quad Burner, drawings BU-012-A-001, BU-012-A-002, and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-022-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-027-A-001, BA-028-A-001, BA-029-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-036-A-001, and BA-037-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	5940 lbs, or to the weight requiring maximum continuous envelope temperature of 257°F, whichever is less. See Approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	028 onwards.

#### **XI. Model 42A, Hot Air Balloon, Approved March 13, 1996**

<u>Envelope.</u>	Volume 42,000 cu.ft., drawing EA-042-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Single Burner, drawing BU-001-A-001. Super Single Burner, drawing BU-007-A-001. Double Burner, drawing BU-002-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-001-A-001, BA-004-A-001, BA-005-A-001, BA-006-A-001, and BA-009-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	924 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	223 onwards.

**XII - Model 60A, Hot Air Balloon, Approved March 13, 1996.**

<u>Envelope.</u>	Volume 60,000 cu.ft., drawing EA-060-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Single Burner, drawing BU-001-A-001. Super Single Burner, drawing BU-007-A-001. Double Burner, drawing BU-002-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Double Burner, drawings BU-008-A-001 and BU-008-A-002.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-001-A-001, BA-002-A-001, BA-002-A-002, BA-003-A-001, BA-003-A-002, BA-005-A-001, BA-006-A-001, BA-007-A-001, and BA-009-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	1320 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	210 onwards.

**XIII - Model 210A, Hot Air Balloon, Approved March 13, 1996.**

<u>Envelope.</u>	Volume 210,000 cu.ft., drawing EA-210-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner plus CLF, drawing BU-003-A-001. Triple Burner, drawing BU-004-A-001. Triple Burner plus CLF, drawing BU-005-A-001. Quad Burner, drawing BU-006-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003. Quad Burner, drawings BU-012-A-001, BU-012-A-002 and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-015-A-001, BA-020-A-001, BA-021-A-001, BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-029-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-034-A-001, BA-035-A-001, BA-036-A-001, BA-037-A-001, BA-038-A-001 and BA-040-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.

<u>Maximum Weight.</u>	4180 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	094 onwards.

**XIV- Model 260A, Hot Air Balloon, Approved August 27, 1998.**

<u>Envelope.</u>	Volume 260,000 cu.ft., drawing EA-260-A-001.
<u>Air Heater.</u>	Lindstrand Jetstream Series 1 Burner Assembly: Double Burner plus CLF, drawing BU-003-A-001. Triple Burner, drawing BU-004-A-001. Triple Burner plus CLF, drawing BU-005-A-001. Quad Burner, drawing BU-006-A-001. Lindstrand Jetstream Series 2 Burner Assembly: Triple Burner, drawings BU-010-A-001, BU-010-A-002 and BU-010-A-003. Quad Burner, drawings BU-012-A-001, BU-012-A-002 and BU-012-A-003.
<u>Baskets.</u>	Lindstrand Baskets to drawings BA-022-A-001, BA-023-A-001, BA-024-A-001, BA-025-A-001, BA-026-A-001, BA-028-A-001, BA-029-A-001, BA-030-A-001, BA-031-A-001, BA-032-A-001, BA-033-A-001, BA-036-A-001 and BA-037-A-001.
<u>Fuel.</u>	Commercial LPG or Propane.
<u>Maximum Weight.</u>	4994 lbs, or to the weight requiring a maximum continuous envelope temperature of 257°F, whichever is less. See approved Flight Manual.
<u>Allowable Envelope Temperature.</u>	1. Never exceed 261°F. 2. Maximum continuous 257°F.
<u>Minimum Crew.</u>	One (1) Pilot.
<u>Minimum Fuel Required.</u>	Two standard cylinders must be present (see also NOTE 4).
<u>Serial No's Eligible.</u>	385 onwards.

**DATA PERTINENT TO ALL MODELS**

<u>Import Requirements.</u>	A U.S. Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export, signed by a representative of the U.K. Civil Aviation Authority, Airworthiness Division, containing the following statement: "The balloon covered by this certificate has been examined, tested and found to conform to the type design approved under FAA Type Certificate B 82EU and is in a condition for safe operation". In addition, see Note 6.
<u>Certification Basis.</u>	FAR 21.29 and FAR 31, dated July 1, 1964, as amended by 31-1 through 31-4 inclusive. Application for Type Certificate dated April 15, 1994.  Type Certificate No. B 82EU, issued December 22, 1994.
<u>Validation Date.</u>	Type Certificate No. B 82EU was issued pursuant to FAR 21.29, in validation of the U.K. Civil Aviation Authority's certification of compliance with the aforementioned certification basis.
<u>Equipment.</u>	In addition to the basic equipment required by the certification basis, the following equipment is also required:  <ol style="list-style-type: none"><li>1. Two sources of ignition (striker, matches or equivalent).</li><li>2. Leather gloves or equivalent for the pilot.</li><li>3. The Approved Lindstrand Balloons Ltd Flight Manual.</li></ol>
<u>Maintenance and Inspection.</u>	Maintenance and inspection must be carried out in accordance with the Lindstrand Balloons Ltd Maintenance Manual, at the current issue (date of first issue November 11, 1993).
<u>Service Information.</u>	Lindstrand Balloons Ltd technical information (Service Bulletins), published in the English language for the U.S. Type Designs, that carry a statement "Approved by the U.K. Civil Airworthiness Authority" (U.K. CAA), may be interpreted as FAA approved.

**NOTES**

- NOTE 1. Each hot air balloon must have an individual registration number. An individual envelope is eligible for a Standard Airworthiness Certificate when mated with any approved combination of basket and burner assembly. Change to an eligible combination must be endorsed by log book entry by the Pilot-In-Command, or by an FAA certificated repairman.
- NOTE 2. For the purpose of maintenance and inspection, operation records (log books) must be maintained with each hot air balloon envelope. If burner, basket, instruments, and/or tanks are interchanged, separate log books must be maintained for each component or group of components which are always used together. The Flight Manual must be presented to an FAA certificated repair station during annual inspections, for verification of components being inspected.
- NOTE 3. Annual maintenance inspections should be carried out in accordance with the inspection schedule contained within the Lindstrand Balloons Ltd Maintenance Manual.

NOTE 4. The approved types of fuel cylinders for all models are as follows:

<u>Fuel Tank</u>	<u>Type</u>	<u>Capacity</u>	<u>Drg No./Part No.</u>
V20	Vertical	10 gallons to 80% fill	CY-020-A-001
V30	Vertical	15 gallons to 80% fill	CY-030-A-001
V40	Vertical	21 gallons to 80% fill	CY-040-A-001
Worthington	Vertical	10 gallons to 80% fill	CY-010-A-001
T30	Vertical	12.9 gallons to 80% fill	CY-050-A-001

NOTE 5. Due to a large degree of similarity of design, certain baskets, burners and fuel cylinders manufactured by either Cameron Balloons or Thunder & Colt, may be used in conjunction with a Lindstrand Balloons Ltd. manufactured envelope, subject to the limitations given in Section 4 of the approved Lindstrand Balloons Ltd. Flight Manual.

NOTE 6. Lindstrand Balloons has granted a license to:  
 A.R.B.C. Inc. (trading as Lindstrand Balloons US)  
 228 Jefferson Street  
 Hanover  
 IL 61041  
 USA

This license permits the above company (the licensee) to manufacture any hot air balloons which are included in any Federal Aviation Authority (FAA) Type Certificates issued to Lindstrand Balloons Ltd and any associated Type Certificate Data Sheets.

All production activities to produce balloon models covered by the above Type Certificates undertaken by the licensee, will comply with the following requirements:

1. Production will be achieved using technical drawings, data, manuals, service bulletins, and airworthiness directives supplied by Lindstrand Balloons Ltd.
2. Production will be achieved under a Production Certificate approval from the FAA.
3. Material Review Authority is granted to the licensee provided all changes are approved in writing by Lindstrand Balloons Ltd Chief Engineer and the modifications have received the normal authority approval.
4. The production and quality control procedures comply with Lindstrand Balloons Ltd requirements.
5. Balloons produced by the licensee will be marked with serial number sequentially beginning at the number 5000.

The certification basis for balloons produced under license is the same as the importation certification basis, that is to say FAR 31, dated 1 July 1964, as amended by 31-1 through 31-5 inclusive.

Lindstrand Balloons Ltd undertakes to supply the licensee with all information required to achieve production, as identified above.

NOTE 7.

The following instruments may be used with all hot air balloon models, as specified on this Type Certificate Data Sheet:

Flytec 3040  
Flytec 3020  
Ball 655  
Ball M55  
Ball 502  
Alibi Piccolo ACT 5000  
Alibi Piccolo ACT 8000  
United Instruments 10-04550  
United Instruments 10-05200

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