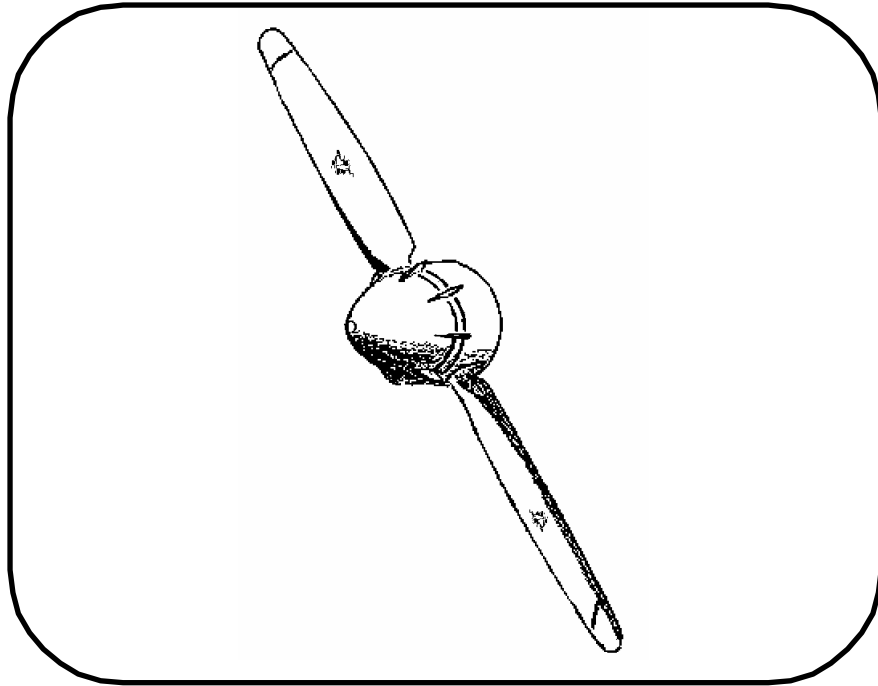


V 503 SERIES PARTS CATALOGUE



V 503, V 503A, V 503AP
SERIES AIRCRAFT PROPELLERS



AVIA PROPELLER Ltd.
199 00 Praha 9 - Letňany, Czech Republic

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INTRODUCTION

This V 503 propeller Parts Catalogue is intended for ordering spare parts. Together with V 503 propeller Operator's, Installation and Maintenance Manual, this catalogue provides a better understanding of the structural design, function and assembly of this propeller.

The spare parts mentioned in this catalogue will enable the customer to perform the repairs according to the Operator's, Installation and Maintenance Manual. A workshop equipped with the necessary documentation, and production and testing facilities will be able to carry out the medium repairs and overhauls.

The parts which are recommended for repairs, have the notation "O" in the column "SEP" (separately for sale for each customer). The parts without any notation are intended for medium repairs and overhauls, which are to be carried out in authorised repair shops only.

The tools and accessories used for medium and propeller repairs together with technical documentation of the V 503 propeller are also included in this catalogue.

Orders for spare parts are to be addressed to:

AVIA PROPELLER Ltd.
Sales department
Beranových 666
199 00 Praha 9 - Letňany
CZECH REPUBLIC
tel.: +420/0/2/9633 6530
fax.:+420/0/2/9633 6533
E-mail: bozena.linhartova@aviapropeller.cz

When placing an order, the following must be stated:

1. Part number and description of spare part. In the case of ordering standard parts, include the number and description of the standard part.

2. Number of pieces ordered

Example: "073 - 1000, Propeller Blade (Set), 2pcs" or
"5.3 ČSN 02 1702.14 Washer, 4pcs."

AVIA PROPELLER Ltd.

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GROUP ASSEMBLY

PARTS LIST

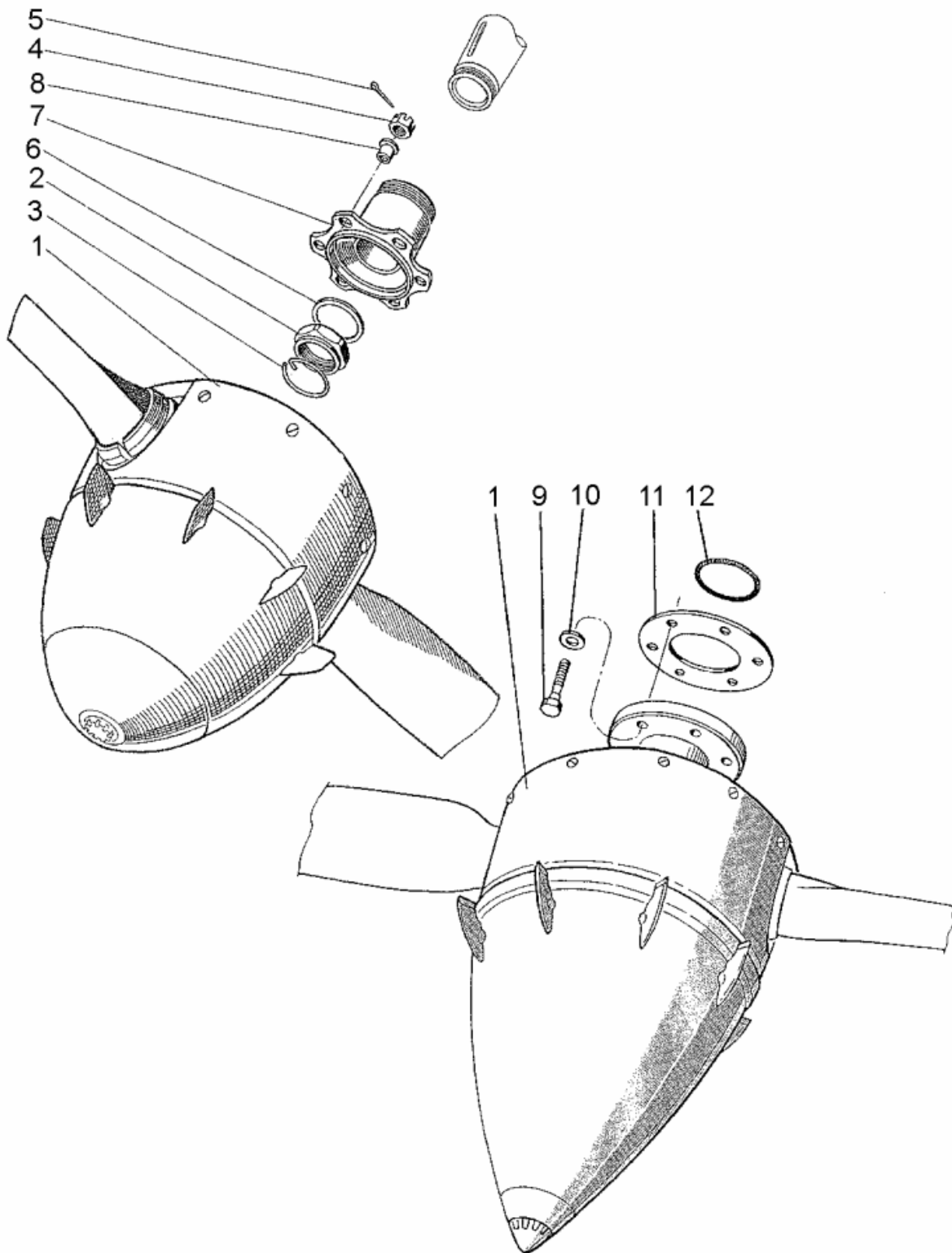


Fig. 1. Automatic Propeller Installation

AUTOMATIC PROPELLER INSTALLATION

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|---------------------|---|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| 1 | V 503 | Automatic Propeller | o | 1 | | |
| 1 | 053-0000 | Automatic Propeller Counter- Clockwise | o | | 1 | |
| 1 | 073-0000 | Automatic Propeller Clockwise | o | | | 1 |
| 2 | V 506-0001 | Propeller Flange Nut | o | 1 | 1* | |
| 3 | V 506-0002 | Locking Ring | o | 1 | 1* | |
| 4 | V 506-0003 | Nut | o | 6 | 6 | |
| 4 | 060-0001 ** | Nut | o | | 6 | |
| 5 | 2x22 ČSN 02 1781.04 | Cotter Pin | o | 6 | 6 | |
| 5 | ∅ 0.8 x 500 ** | Binding Wire | o | | 1 | 1 |
| 6 | V 410-2103 | Ring | o | 1 | 1* | |
| | V 503-6100 | Propeller Flange | o | 1 | 1* | |
| 7 | V 503-6101 | Flange | | 1 | 1* | |
| 8 | V 503-6102 | Driving Pin | | 6 | 6* | |
| 9 | 073-0001 | Bolt | o | | | 6 |
| 10 | 073-0002 | Washer | o | | | 6 |
| 11 | 073-0005 | Insert | o | | | 1 |
| 12 | 55x5 OR 5005500 | O-Ring Busak + Shamban | o | | | 1 |

* - This part is delivered optionally only.

** - Supersedes

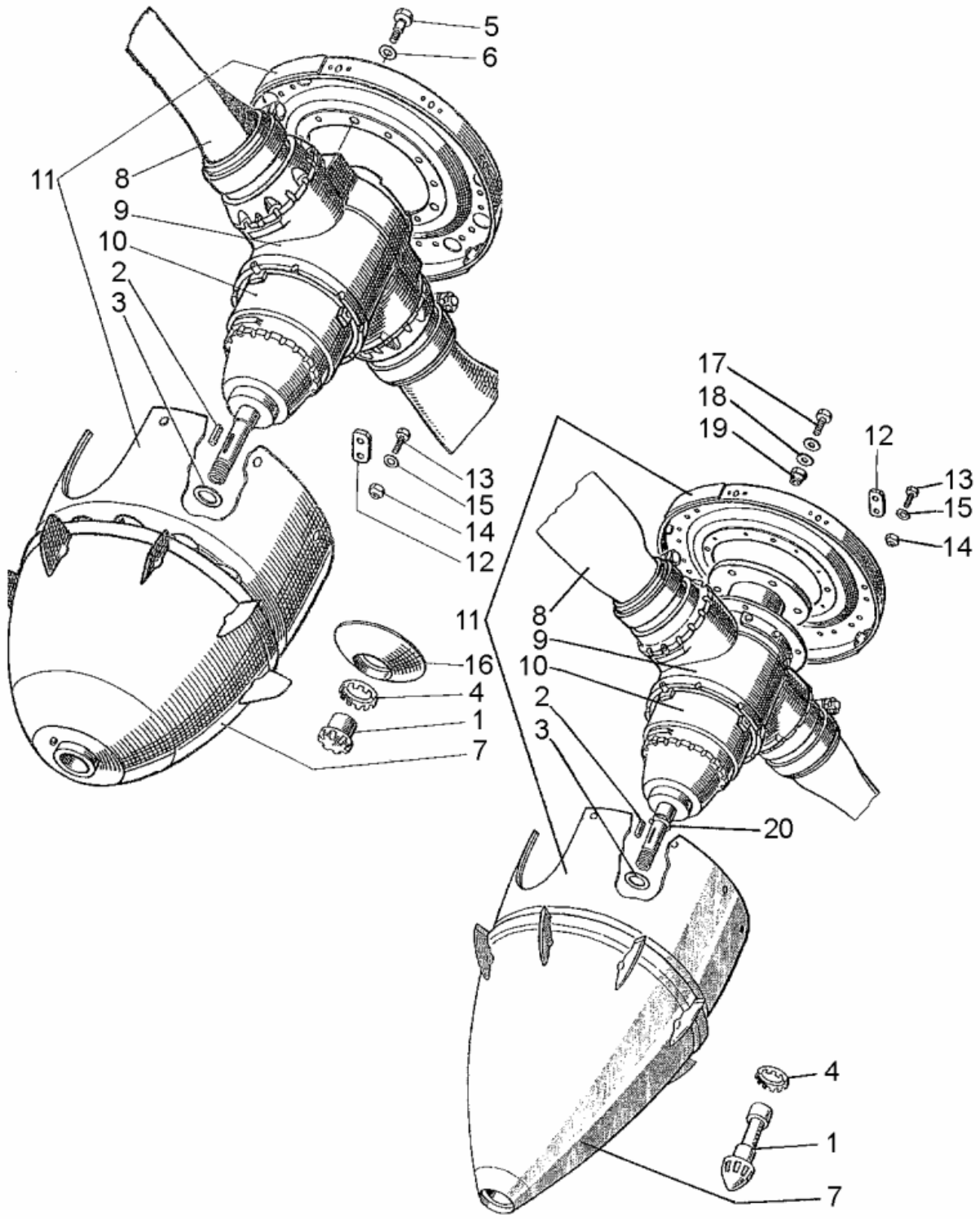


Fig. 2. Automatic Propeller Parts

AUTOMATIC PROPELLER PARTS

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|------------------------|------------------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 | Automatic Propeller | o | 1 | | |
| | 053 - 0000 | Automatic Propeller Counter-clock. | o | | 1 | |
| | 073 - 0000 | Automatic Propeller Clockwise | o | | | 1 |
| 1 | V 503 - 0001 | Plug with Nut | o | 1 | 1 | |
| 1 | 073 - 0003 | Plug with Nut | o | | | 1 |
| 2 | V 503 - 0002 | Key | o | 1 | 1 | 1 |
| 3 | V 503 - 0003 | Washer | o | 1 | 1 | |
| 3 | 073 - 0004 | Washer | o | | | 1 |
| 4 | V 503 - 0004 | Lock Washer | o | 1 | 1 | 1 |
| 5 | V 503 - 0005 | Bolt | o | 4 | 4 | |
| 6 | V 503 - 0006 | Washer | o | 4 | 4 | |
| 7 | V 503 - 0100 | Windmill | o | 1 | | |
| 7 | 053 - 0100 | Windmill | o | | 1 | |
| 7 | 073 - 0100 | Windmill | o | | | 1 |
| 8 | 053 - 1000/73 | Propeller Blade (Set)* | o | 2 | | |
| 8 | 053 - 1000/75 | Propeller Blade (Set)* | o | 2 | | |
| 8 | 053 - 1000/79 | Propeller Blade (Set)* | o | | 2 | |
| 8 | 073 - 1000.1 | Propeller Blade (Set)* | o | | | 2 |
| 9 | V 503 - 2 | Propeller Hub | | 1 | | |
| 9 | 053 - 2000 | Propeller Hub | | | 1 | |
| 9 | 073 - 2000 | Propeller Hub | | | | 1 |
| 10 | V 503 - 3 | Servo | | 1 | | |
| 10 | 053 - 3000 | Servo | | | 1 | |
| 10 | 073 - 3000 | Servo | | | | 1 |
| 11 | V 503 - 4 | Propeller Spinner | o | 1 | 1 | |
| 11 | 073 - 4000 | Propeller Spinner | o | | | 1 |
| 12 | LN - 6011 | Balancing Piece | o | A | A | A |
| 12 | LN - 6012 | Balancing Piece | o | A | A | A |
| 12 | LN - 6013 | Balancing Piece | o | A | A | A |
| 12 | LN - 6014 | Balancing Piece | o | A | A | A |
| 13 | M 5x12 ČSN 02 1103.44 | Bolt | o | A | A | |
| 13 | M 5x16 ČSN 02 1103.44 | Bolt | o | A | A | |
| 13 | M 5x18 ČSN 02 1103.44 | Bolt | o | A | A | |
| 13 | M5x12-8.8 B2L ISO 4017 | Bolt | o | | | A |
| 13 | M5x16-8.8 B2L ISO 4017 | Bolt | o | | | A |
| 13 | M5x20-8.8 B2L ISO 4017 | Bolt | o | | | A |
| 14 | M 5 ONL 3248 | Self - Locking Nut | o | A | A | A |
| 15 | 5.3 ČSN 02 1702.14 | Washer | o | A | A | A |
| 16 | 053 - 0001 | Cover | o | | 1 | |
| 17 | M8x20-8.8 B2L ISO 4017 | Bolt | o | | | 4 |
| 18 | 8.4 ČSN 02 1702.14 | Washer | o | | | 8 |
| 19 | M 8 ČSN 02 1492.24 | Self - Locking Nut | o | | | 4 |
| 20 | 14 ČSN 02 2930 | Retaining Ring | o | | | 1 |

* - Delivered on the sets only. Static balancing is necessary.

A - According to balancing.

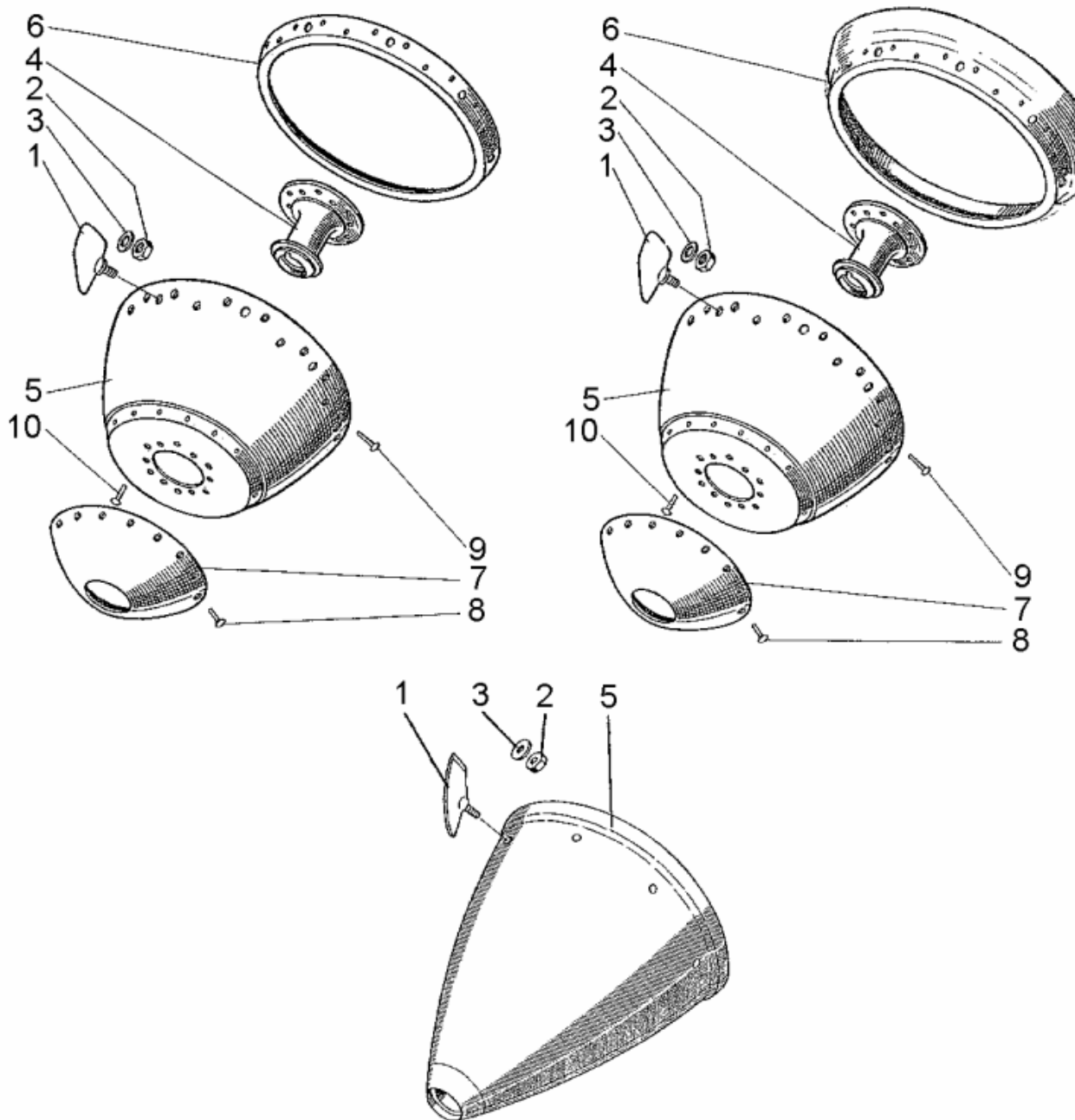


Fig. 3. Windmill

WINDMILL

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|----------------------|---------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 0100 | Windmill | o | 1 | | |
| | 053 - 0100 | Windmill | o | | 1 | |
| | 073 - 0100 | Windmill | o | | | 1 |
| 1 | V 503 - 0101 | Vane | o | 8 | | |
| 1 | * V 503 - 0105 | Vane | o | 8 | | |
| 1 | 053 - 0105 | Vane | o | | 8 | |
| 1 | 073 - 0105 | Vane | o | | | 8 |
| 2 | M 8 ČSN 02 1403.54 | Nut | o | 8 | | |
| 2 | M 8 ČSN 02 1403.9 | Nut | o | | 8 | 8 |
| 3 | 8.4 ČSN 02 1701.14 | Washer | o | 8 | | |
| 3 | 8.4 ČSN 02 1702.14 | Washer | o | | 8 | 8 |
| 4 | V 503 - 0111 | Flange | | 1 | | |
| 4 | 053 - 0111 | Flange | | | 1 | |
| 5 | V 503 - 0112 | Windmill Spinner | | 1 | | |
| 5 | 053 - 0112 | Windmill Spinner | | | 1 | |
| 5 | 073 - 0110 | Windmill Spinner Complete | o | | | 1 |
| 6 | V 503 - 0113 | Stiffening Ring | | 1 | | |
| 6 | 053 - 0113 | Stiffening Ring | | | 1 | |
| 7 | V 503 - 0114 | Flange Fairing | | 1 | | |
| 7 | 053 - 0115 | Flange Fairing | | | 1 | |
| 8 | 2.6x6 ČSN 02 2320.4 | Rivet | | 15 | 15 | |
| 9 | 2.6x8 ČSN 02 2320.4 | Rivet | | 24 | 24 | |
| 10 | 3.5x10 ČSN 02 2302.4 | Rivet | | 24 | 24 | |
| 11 | 3x8 ČSN 02 2150.1 | Pin | | | 1 | |

* - Supersedes

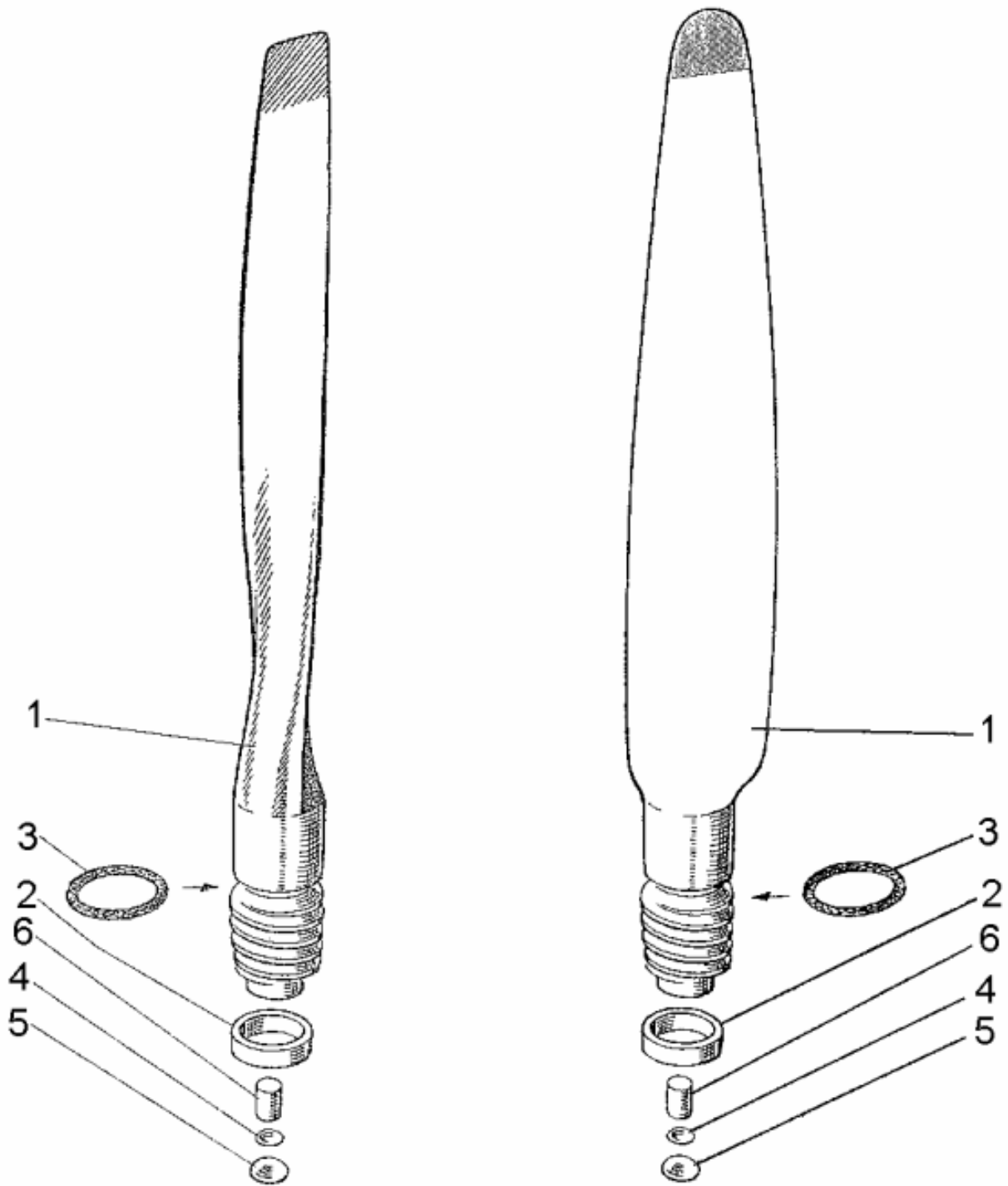


Fig. 4. Propeller Blade

PROPELLER BLADE

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|---------------------|-------------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 1 | Propeller Blade (of 2pcs Set) | o | 1 | | |
| | 053 - 1000 | Propeller Blade (of 2pcs Set) | o | | 1 | |
| | 073 - 1000.1 | Propeller Blade (of 2pcs Set) | o | | | 1 |
| | | | | | | |
| 1 | V 503 - 1001 | Propeller Blade (ccw) | | 1 | | |
| 1 | 053 - 1001.7 | Propeller Blade (ccw) | | | 1 | |
| 1 | 073 - 1001.7 | Propeller Blade (cw) | | | | 1 |
| 2 | V 410 - 1002 | Collar | | 1 | 1 | 1 |
| 2 | V 410-1002R | Collar | | OH | OH | OH |
| 3 | 66x56 ČSN 02 9280.2 | Packing Ring | o | 1 | 1 | 1 |
| 4 | 15 ČSN 30 1399.2 | Plug - Sheet Made | | A | A | A |
| 5 | 20 ČSN 30 1399.2 | Plug - Sheet Made | | A | A | A |
| 6 | | Lead Roller, Dia 15x10 | | A | | |
| 6 | | Lead Roller, Dia 18 | | | A | |
| 6 | | Lead Roller, Dia 12 | | | | A |

A - According to balancing.
OH - for Overhaul

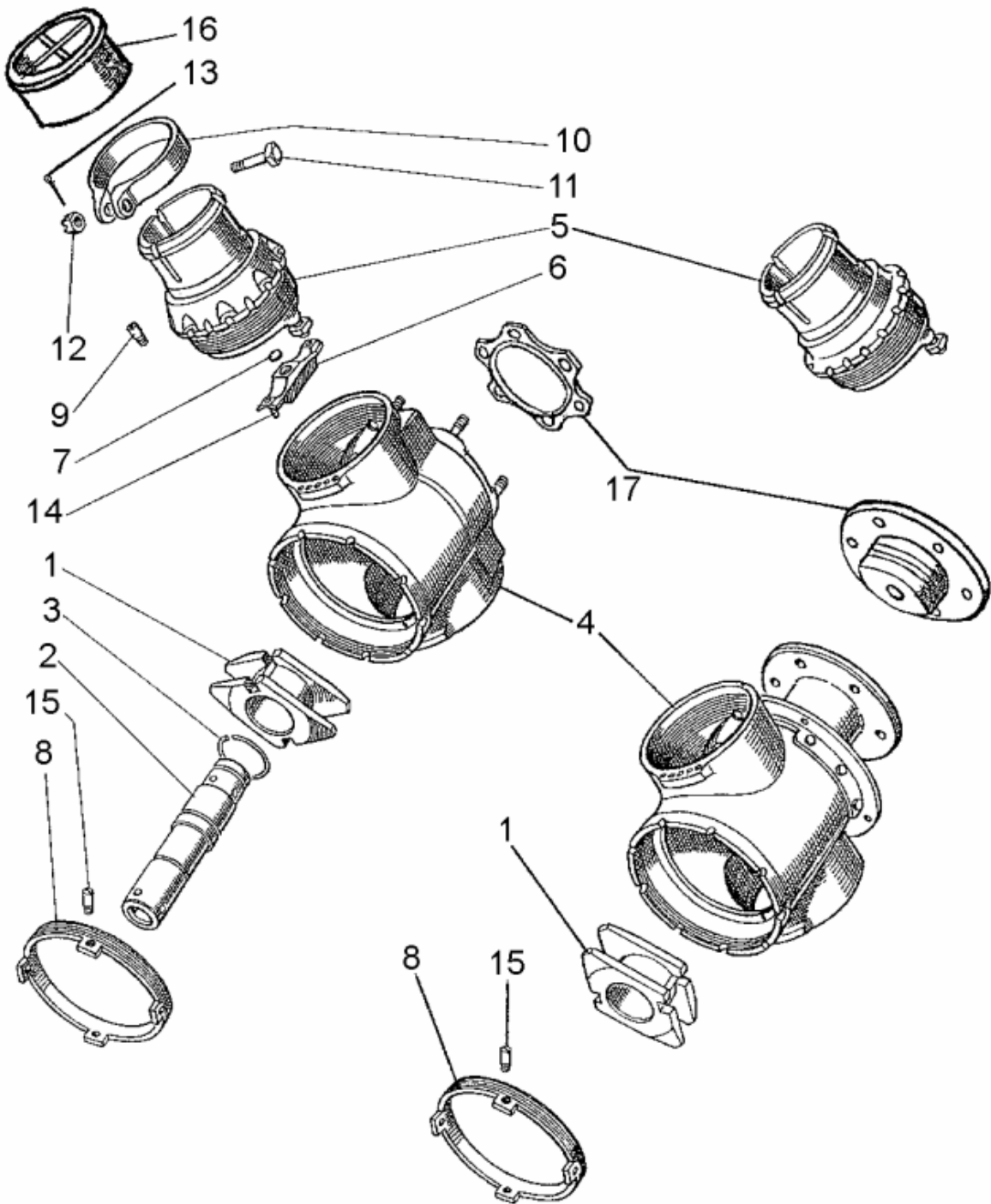


Fig. 5. Propeller Hub

PROPELLER HUB

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|-----------------------|---------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 2 | Propeller Hub | | 1 | | |
| | 053 - 2000 | Propeller Hub | | | 1 | |
| | 073 - 2000 | Propeller Hub | | | | 1 |
| 1 | V 503 - 2011 | Carrier | | 1 | 1 | 1 |
| 2 | V 503 - 2012 | Piston Rod | | 1 | | |
| 2 | 053 - 2012 | Piston Rod | | | 1 | |
| 2 | 073 - 2012 | Piston Rod | | | | 1 |
| 3 | 42 ČSN 02 2925 | Lock Ring | | 1 | | |
| 3 | 42 ČSN 02 2925.2 | Lock Ring | | | 1 | 1 |
| 4 | V 503 - 2100 | Propeller Barrel Complete | | 1 | 1 | |
| 4 | 073 - 2100 | Propeller Barrel Complete | | | | 1 |
| 5 | V 506 - 2200.1 | Blade Bushing (Set) | o | 2 | | |
| 5 | 053 - 2200 | Blade Bushing (Set) | o | | 2 | 2 |
| 6 | V 506 - 2001 | Carrier Guide | | 2 | 2 | 2 |
| 7 | V 506 - 2002 | Insert | | 2 | 2 | 2 |
| 8 | V 506 - 2003 | Cylinder Retaining Bolt | | 1 | 1 | 1 |
| 9 | V 506 - 2004 | Bolt | o | 2 | | |
| 9 | 053 - 2001 | Bolt | o | | 2 | 2 |
| 10 | V 503 - 2005 | Sleeve (Set) | o | 2 | 2 | 2 |
| 11 | V 506 - 2006 | Sleeve Bolt | o | 2 | 2 | 2 |
| 12 | V 506 - 2007 | Sleeve Nut | o | 2 | 2 | 2 |
| 13 | 3.2x25 ČSN 02 1781.04 | Cotter Pin | o | 2 | 2 | 2 |
| 14 | 4x10 ČSN 02 2150.1 | Pin | | 4 | 4 | |
| 14 | ISO 2338-A-4x10-St | Pin | | | | 4 |
| 15 | V 506 - 2004 | Bolt | o | 1 | 1 | 1 |
| 16 | V 506 - 7002 | Bushing Cover | o | 2 | 2 | 2 |
| 17 | V 506 - 7001 | Flange Cover | o | 1 | 1 | |
| 17 | 073 - 7020 | Flange Cover | o | | | 1 |

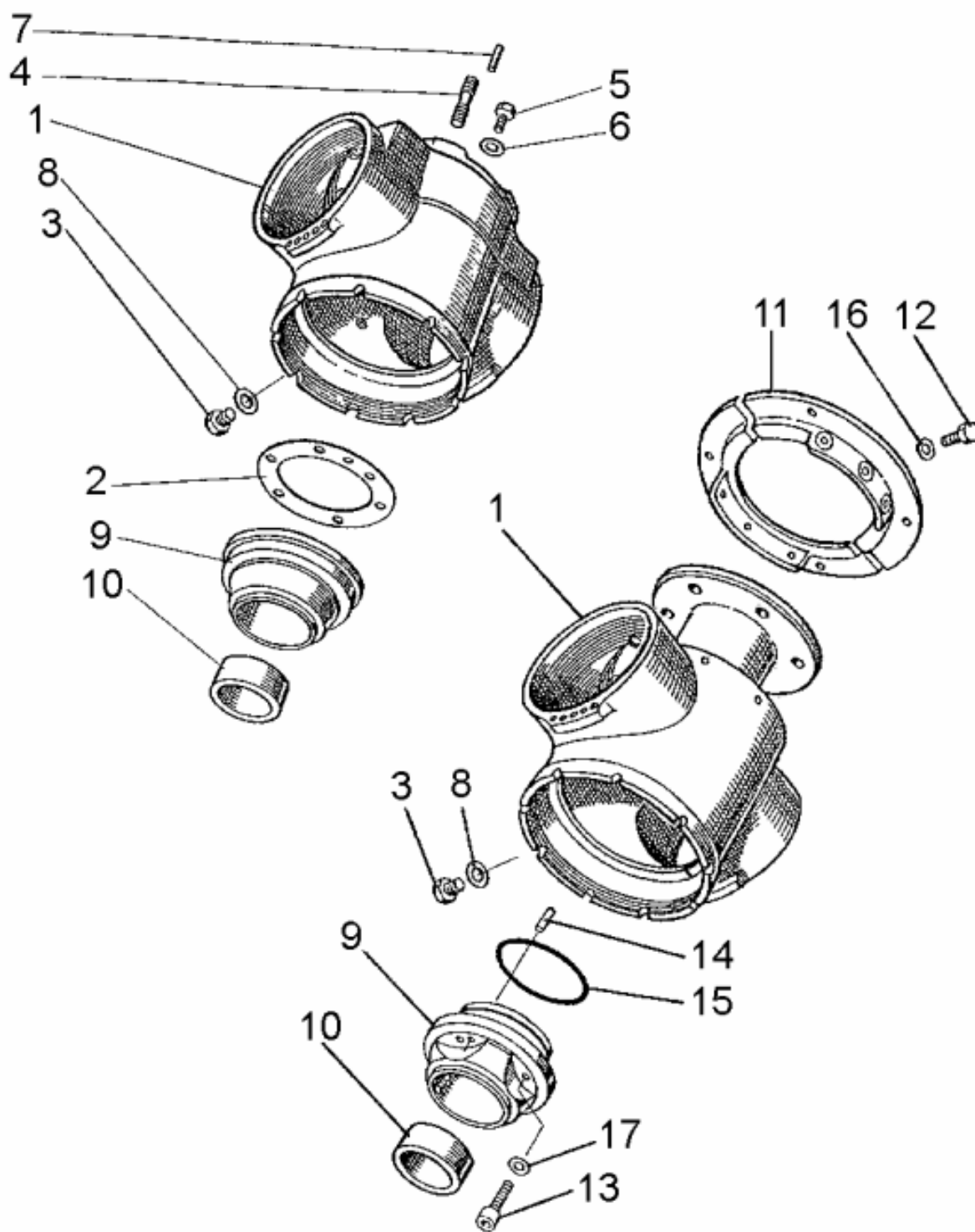


Fig. 6. Propeller Barrell Complete

PROPELLER BARREL COMPLETE

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|----------------------|---------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 2100 | Propeller Barrel Complete | | 1 | 1 | |
| | 073 - 2100 | Propeller Barrel Complete | | | | 1 |
| 1 | V 503 - 2101 | Propeller Barrel | | 1 | 1 | |
| 1 | 073 - 2102 | Propeller Barrel | | | | 1 |
| 2 | V 503 - 2102 | Gasket | | 1 | 1 | |
| 3 | V 503 - 2103 | Retaining Bolt | o | 1 | 1 | 1 |
| 4 | V 506 - 2103 | Bolt | | 6 | | |
| 4 | V 506-2103R | Bolt | | OH | | |
| 4 | 060 - 2102 | Bolt | | | 6 | |
| 4 | 060-2102R | Bolt | | | OH | |
| 5 | M6x12 ČSN 02 1208.44 | Bolt | | 6 | 6 | |
| 6 | 6.4 ČSN 02 1702.14 | Washer | | 6 | 6 | |
| 7 | 4x10 ČSN 02 2150.2 | Pin | | 1 | 1 | |
| 7 | ISO 2338-A-4x10-St | Pin | | | | 1 |
| 8 | 10x14 ČSN 02 9310.3 | Packing Ring | | 1 | 1 | 1 |
| 9 | V 503 - 2111 | Rear Cover | | 1 | 1 | |
| 9 | 073 - 2111 | Rear Cover | | | | 1 |
| 10 | V 503 - 2112 | Bushing | | 1 | 1 | |
| 10 | V 503-2112R | Bushing | | OH | OH | |
| 10 | GR 6500420 | Bushing | | | | 1 |
| 11 | 073 - 2103 | Propeller Spinner Flange | | | | 1 |
| 12 | 073 - 2104 | Bolt | o | | | 6 |
| 13 | 073 - 2105 | Bolt | | | | 4 |
| 15 | LN - 5316 | O-Ring | | | | 1 |
| 16 | 8.4 ČSN 02 1702.14 | Washer | o | | | min.6 |
| 17 | 6.4 ČSN 02 1703.14 | Washer | | | | 4 |

OH - for Overhaul

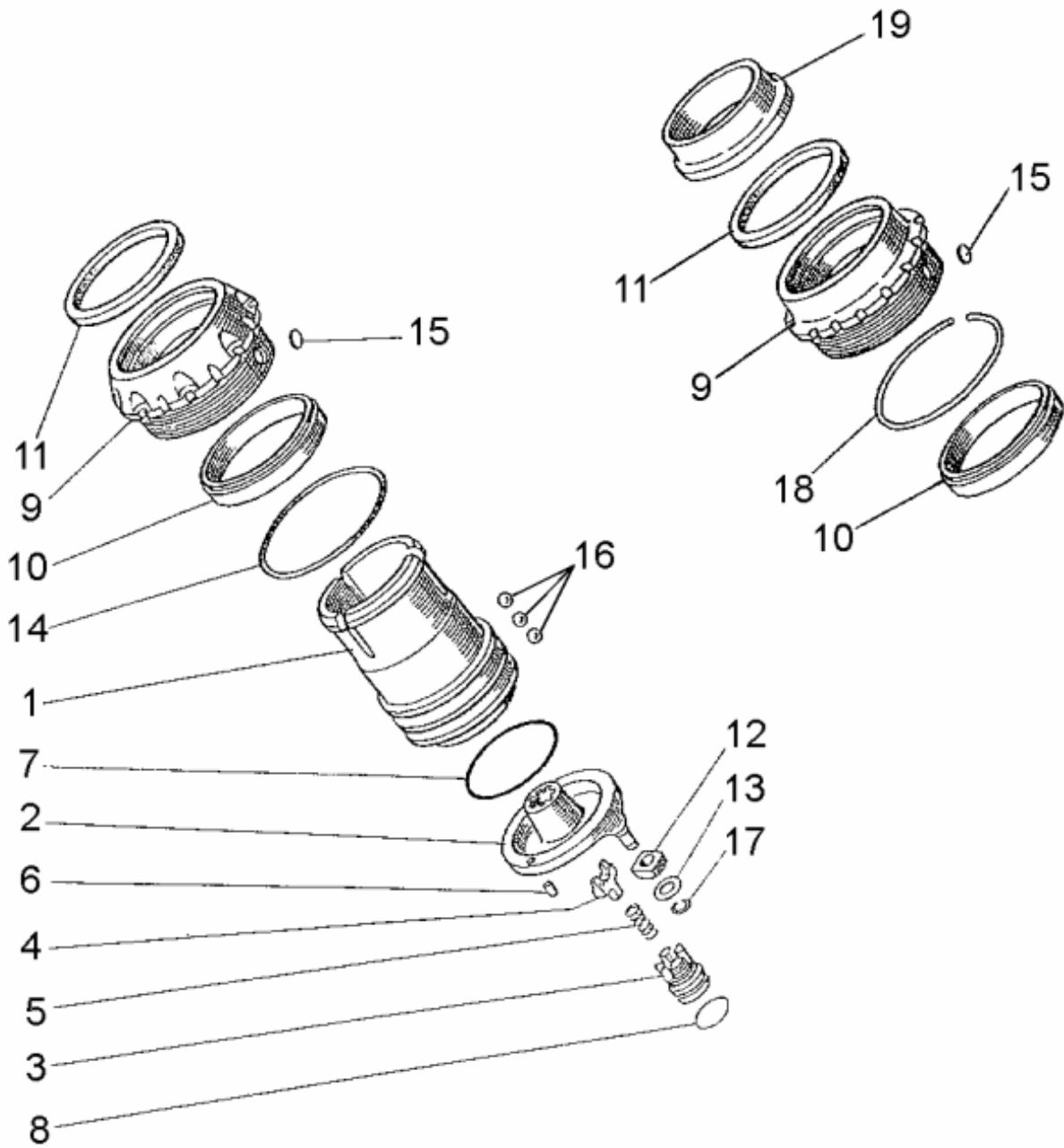


Fig. 7. Propeller Blade Bushing

PROPELLER BLADE BUSHING

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|------------------------|-------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 506 - 2200.1 | Propeller Blade Bushing | | 1 | | |
| | 053 - 2200 | Propeller Blade Bushing | | | 1 | 1 |
| 1 | V 410 - 2211 | Blade Bushing | | 1 | 1 | 1 |
| or | 300-194 | Blade Bushing | | 1 | 1 | 1 |
| 2 | V 506 - 2212 ** | Flange | | 1 | 1 | 1 |
| 3 | V 506 - 2213 | Adjusting Bolt | | 1 | 1 | 1 |
| 4 | V 506 - 2214 | Lock Piece | | 1 | 1 | 1 |
| 5 | V 506 - 2215 | Spring | | 1 | 1 | 1 |
| 6 | V 506 - 2216 ** | Pin (Set) | | 3 | 3 | 3 |
| 7 | 60,05x1,78-NBR70 ** | O - Ring | | 1 | 1 | 1 |
| 8 | 17x2-NBR70 | O - Ring | o | 1 | 1 | 1 |
| 9 | V 506 - 2201.1 | Outer Ring | | 1 | | |
| 9 | 053 - 2221 | Outer Ring | | | 1 | 1 |
| 10 | V 506 - 2202 | Insert | | 1 | | |
| 10 | 053 - 2222 | Insert | | | 1 | 1 |
| 11 | 000 - 6099 | Gasket | | 1 | | |
| 11 | * 80x90 ČSN 02 9269 | Gasket | | 1 | | |
| 11 | 000-6087 | Gasket | o | | 1 | 1 |
| 12 | V 506 - 2204 | Block | | 1 | 1 | 1 |
| 12 | V 506 - 2204R | Block | | OH | OH | OH |
| 13 | V 506 - 2205 | Washer | | 1 | 1 | 1 |
| 14 | 106x2-NBR70 | O - Ring | o | 1 | 1 | 1 |
| 15 | DIN470-10 | Plug - Sheet made | | 1 | 1 | 1 |
| 16 | I 5/16" ČSN 02 3680 | Ball | | 105 | | |
| 16 | Ø7.938 - 5 ČSN 02 3680 | Ball | | | 105 | 105 |
| 17 | DIN7993A-12 | Lock Ring | | 1 | 1 | 1 |
| 18 | 90 ČSN 02 2925.2 | Lock Ring | | | 1 | 1 |
| 19 | 053 - 2201 | Ring | o | | 1 | 1 |

OH - for Overhaul

* - Supersedes

** - Only with blade bushing No.V410-2211

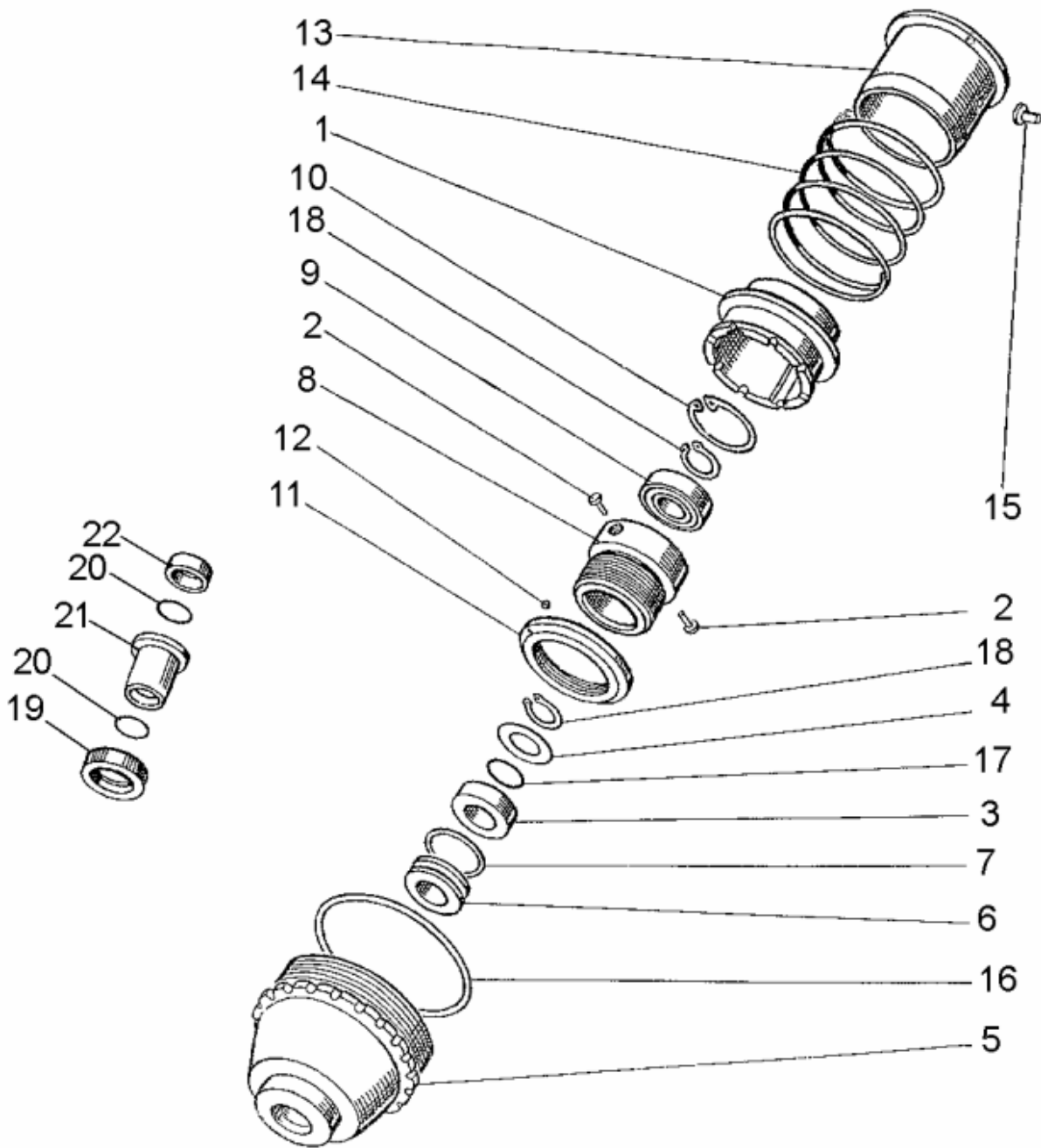


Fig. 8. Servo

SERVO

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|--------------------|-----------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 3 | Servo | | 1 | | |
| | 053 - 3000 | Servo | | | 1 | |
| | 073 - 3000 | Servo | | | | 1 |
| 1 | V 503 - 3001 | Spring Support | | 1 | 1 | |
| 1 | 073 - 3001 | Spring Support | | | | 1 |
| 2 | V 503 - 3002 | Pin | | 2 | 2 | 2 |
| 3 | V 503 - 3003 | Packing Insert | | 1 | 1 | |
| 4 | V 503 - 3007 | Washer | | A | A | |
| 4 | V 503 - 3008 | Washer | | A | A | |
| 4 | V 503 - 3009 | Washer | | A | A | |
| 5 | V 503 - 3021 | Cylinder Cover | | 1 | 1 | |
| 5 | 073 - 3021 | Cylinder Cover | | | | 1 |
| 6 | V 503 - 3022 | Insert | | 1 | 1 | |
| 7 | LN 6054 | O - Ring | | 1 | 1 | |
| 8 | V 503 - 3031 | Bearing Housing | | 1 | | |
| 8 | 053 - 3031 | Bearing Housing | | | 1 | 1 |
| 9 | 16002 P 63 | Bearing | | 1 | 1 | 1 |
| 10 | 32 ČSN 02 2931 | Lock Ring | | 1 | 1 | 1 |
| 11 | V 503 - 3041 | Nut | | 1 | 1 | 1 |
| 12 | II 3 ČSN 02 3680 | Ball | | 1 | | |
| 12 | 3 - 5 ČSN 02 3680 | Ball | | | 1 | 1 |
| 13 | V 503 - 3051 | Bushing | | 1 | | |
| 13 | 053 - 3051 | Bushing | | | 1 | |
| 13 | 073 - 3051 | Bushing | | | | 1 |
| 14 | V 503 - 3052 | Spring | | 1 | | |
| 14 | 053 - 3052 | Spring | | | 1 | |
| 14 | 073 - 3052 | Spring | | | | 1 |
| 15 | V 503 - 3053 | Pin with Head | | 1 | 1 | |
| 16 | V 415.1 - 10.06.1 | O - Ring | | 1 | 1 | |
| 16 | 100x2.5 OR 2510000 | O - Ring | | | | 1 |
| 17 | LN 6061 | O - Ring | | 1 | 1 | |
| 18 | 15 ČSN 02 2930 | Lock Ring | | 2 | 2 | 1 |
| 19 | TPA 100200 | Vari Lip | | | | 1 |
| 20 | 15x1.5 OR 1501500 | O - Ring | | | | 2 |
| 21 | 073 - 3054 | Bushing | | | | 1 |
| 22 | 073 - 3053 | Ring | | | | 1 |

A - Number of pieces required according to assembly operation.

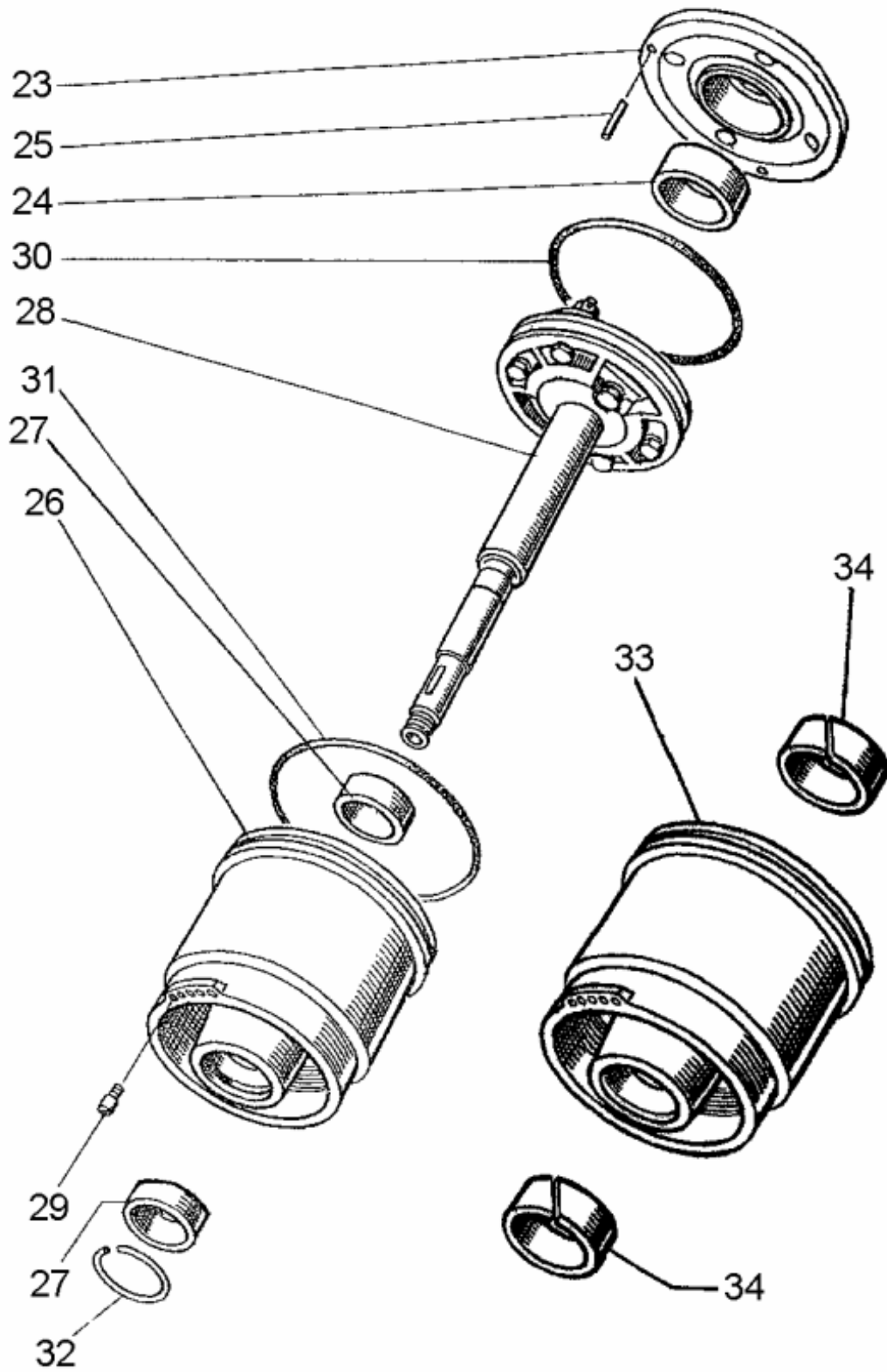


Fig. 9. Servo (Ctd.)

SERVO (Ctd.)

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|---------------------|------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| 23 | V 503 - 3011 | Flange | | 1 | 1 | |
| 23 | 073 - 3011 | Flange | | | | 1 |
| 24 | V 503 - 2112 | Bushing | | 1 | 1 | |
| 24 | V 503 - 2112R | Bushing | | OH | OH | |
| 24 | GR 6500420 | Bushing | | | | 1 |
| 25 | 4x12 ČSN 02 2150.2 | Pin | | 1 | 1 | |
| 25 | ISO 2338-A-4x12-St | Pin | | | | 1 |
| 26 | V 503 - 3101 | Cylinder | | 1 | 1 | |
| 27 | V 503 - 3102 | Bushing | | 2 | | |
| 27 | V 503 - 3103 | Bushing | | | 1 | |
| 28 | V 503 - 3200 | Piston with Pump | o | 1 | | |
| 28 | 053 - 3200 | Piston with Pump | o | | 1 | |
| 28 | 073 - 3200 | Piston with Pump | o | | | 1 |
| 29 | V 506 - 2004 | Bolt | o | 1 | 1 | 1 |
| 30 | V 506 - 3106 | O - Ring | o | 1 | | |
| 30 | LN 6064 | Packing Ring | o | | 1 | 1 |
| 31 | V 506 - 3204 | O - Ring | o | 1 | 1 | |
| 31 | 130x2.5 OR 251 3000 | O - Ring | o | | | 1 |
| 32 | 38 ČSN 02 2925.2 | Ring Locking | o | | 1 | |
| 33 | 073 - 3101 | Cylinder | | | | 1 |
| 34 | 073 - 3102 | Insert | | | | 2 |

OH - for Overhaul

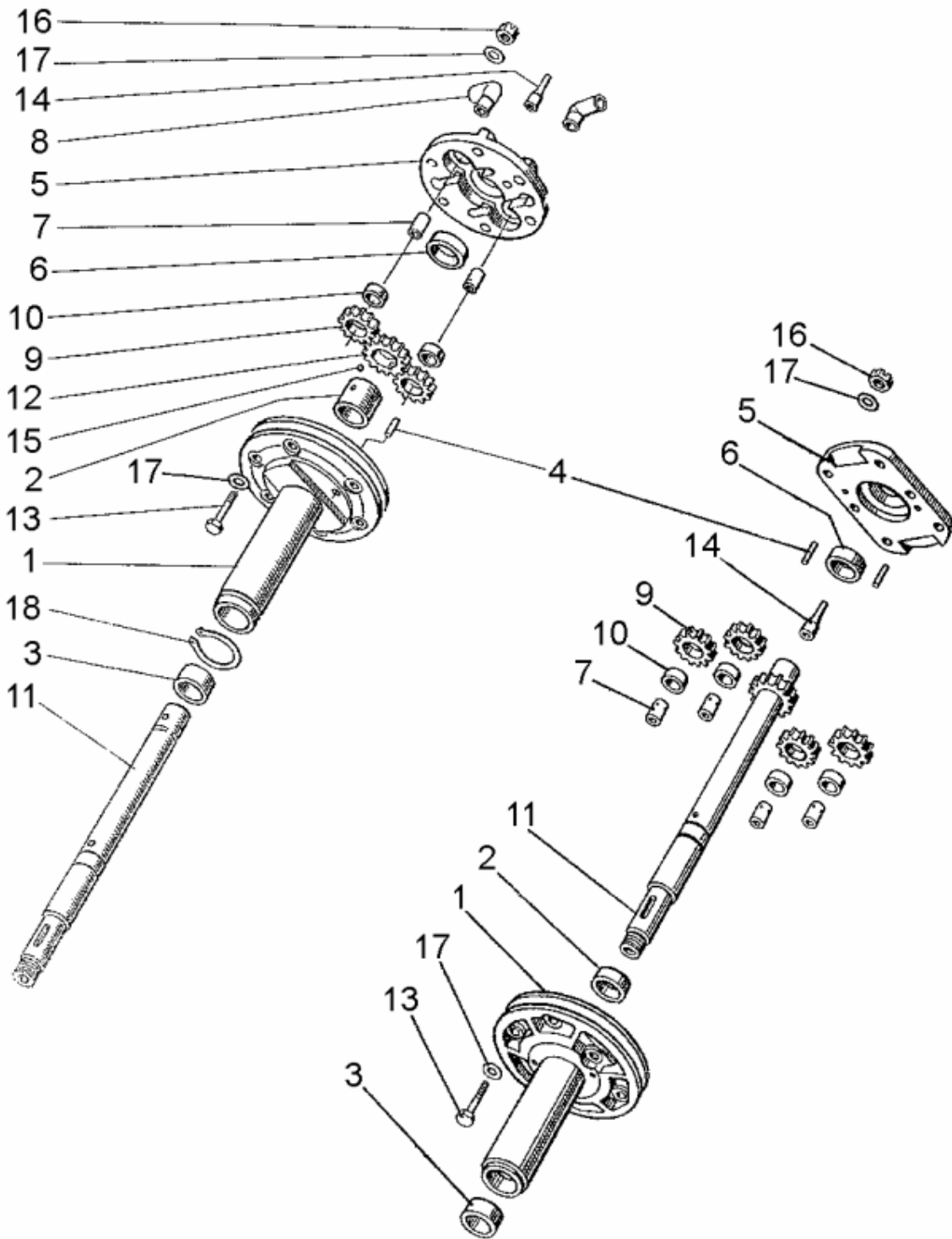


Fig. 10. Piston with Pump

PISTON WITH PUMP

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|-------------------------|------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 3200 | Piston with Pump | | 1 | | |
| | 053 - 3200 | Piston with Pump | | | 1 | |
| | 073 - 3200 | Piston with Pump | | | | 1 |
| 1 | V 503 - 3211 | Piston | | 1 | | |
| 1 | 053 - 3211 | Piston | | | 1 | |
| 1 | 073 - 3211 | Piston | | | | 1 |
| 2 | V 503 - 3212 | Bushing | | 1 | | |
| 2 | 053 - 3212 | Bushing | | | 1 | |
| 3 | V 503 - 3213 | Bushing | | 1 | 1 | 2 |
| 4 | 5x12 ČSN 02 2150 | Pin | | 1 | | |
| 4 | 3x8 ČSN 02 2150.1 | Pin (Set) | | | 2 | |
| 4 | ISO 2338 - A - 3x8 - St | Pin (Set) | | | | 2 |
| 5 | V 503 - 3221 | Pump Body | | 1 | | |
| 5 | 053 - 3221 | Pump Cover | | | 1 | 1 |
| 6 | V 503 - 3222 | Bushing | | 1 | | |
| 6 | 053 - 3222 | Bushing | | | 1 | 1 |
| 7 | V 503 - 3224 | Pin (Set) | | 2 | 4 | 4 |
| 8 | V 503 - 3225 | Tube | | 2 | | |
| 9 | V 503 - 3231 | Gear | | 2 | 4 | 4 |
| 10 | V 503 - 3232 | Bushing | | 2 | 4 | 4 |
| 11 | V 503 - 3201 | Pump Shaft | | 1 | | |
| 11 | 053 - 3201 | Pump Shaft | | | 1 | |
| 11 | 073 - 3201 | Pump Shaft | | | | 1 |
| 12 | V 503 - 3202 | Gear | | 1 | | |
| 13 | V 503 - 3203 | Bolt | | 6 | | |
| 13 | 053 - 3202 | Bolt | | | 6 | 6 |
| 14 | V 503 - 3204 | Insert | | 1 | 1 | 1 |
| 15 | II 3 ČSN 02 3680 | Ball | | 3 | | |
| 16 | DIN935-M5-8-B2L | Nut | | 6 | 6 | 6 |
| 17 | 5.3 ČSN 02 1702.14 | Washer | | 12 | 12 | 12 |

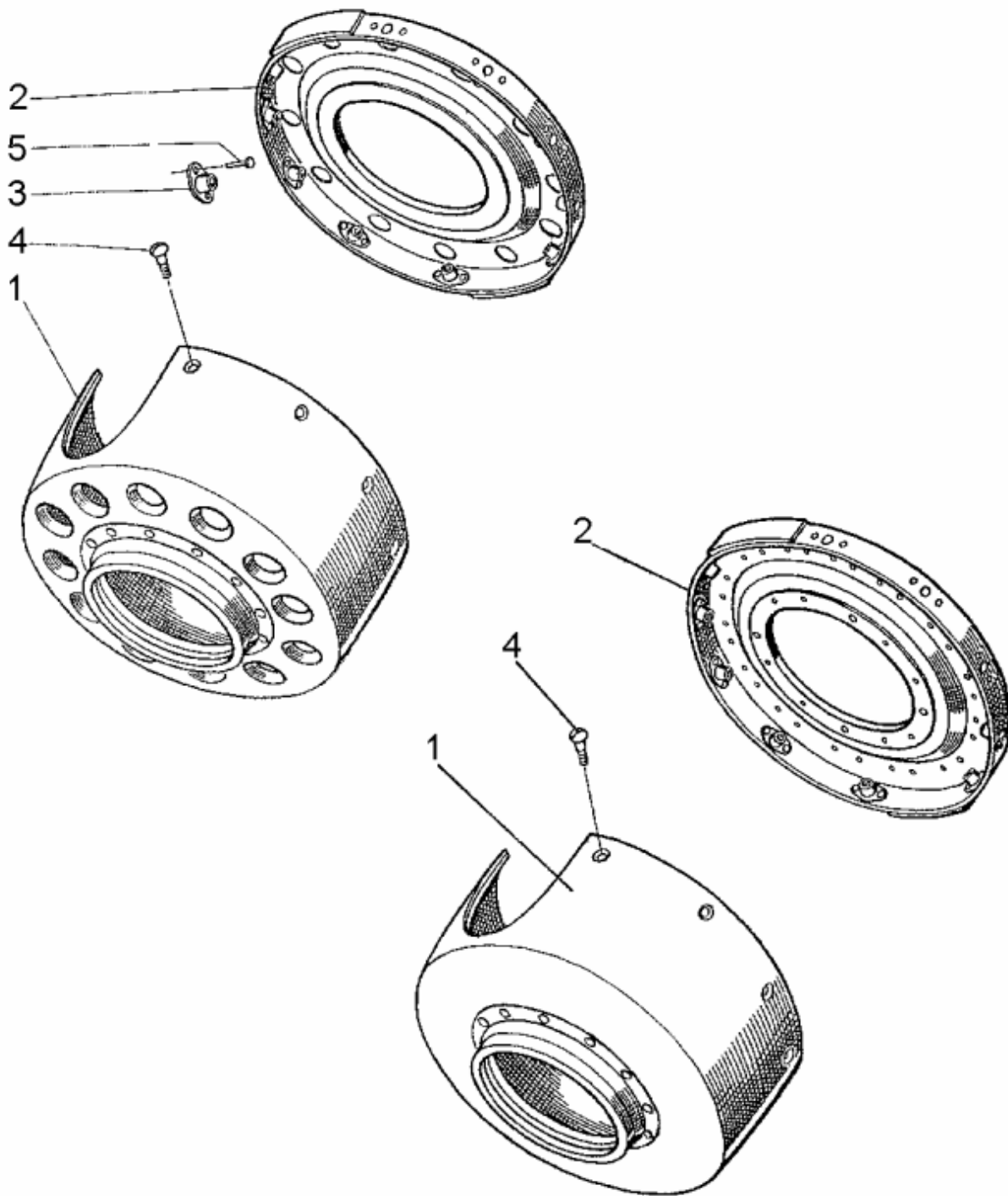


Fig. 11. Propeller Spinner

PROPELLER SPINNER

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|-----------------------|-------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 4 | Propeller Spinner | o | 1 | 1 | |
| | 073 - 4000 | Propeller Spinner | o | | | 1 |
| 1 | V 503 - 4100 | Spinner | | 1 | 1 | |
| 1 | 073 - 4100 | Spinner | | | | 1 |
| 2 | V 503 - 4200 | Spinner Bulkhead | | 1 | 1 | |
| 2 | 073 - 4200 | Spinner Bulkhead | | | | 1 |
| 3 | V 506 - 4001 | Reveting Nut | | 10 | 10 | |
| 4 | V 506 - 4002 | Bolt | | 10 | 10 | |
| 4 | 073 - 4002 | Bolt | | | | 10 |
| 5 | 3x8 ČSN 02 2320.4 | Rivet | | 20 | | |
| 5 | 2.6 x 8 ČSN 02 2320.4 | Rivet | | | 20 | |

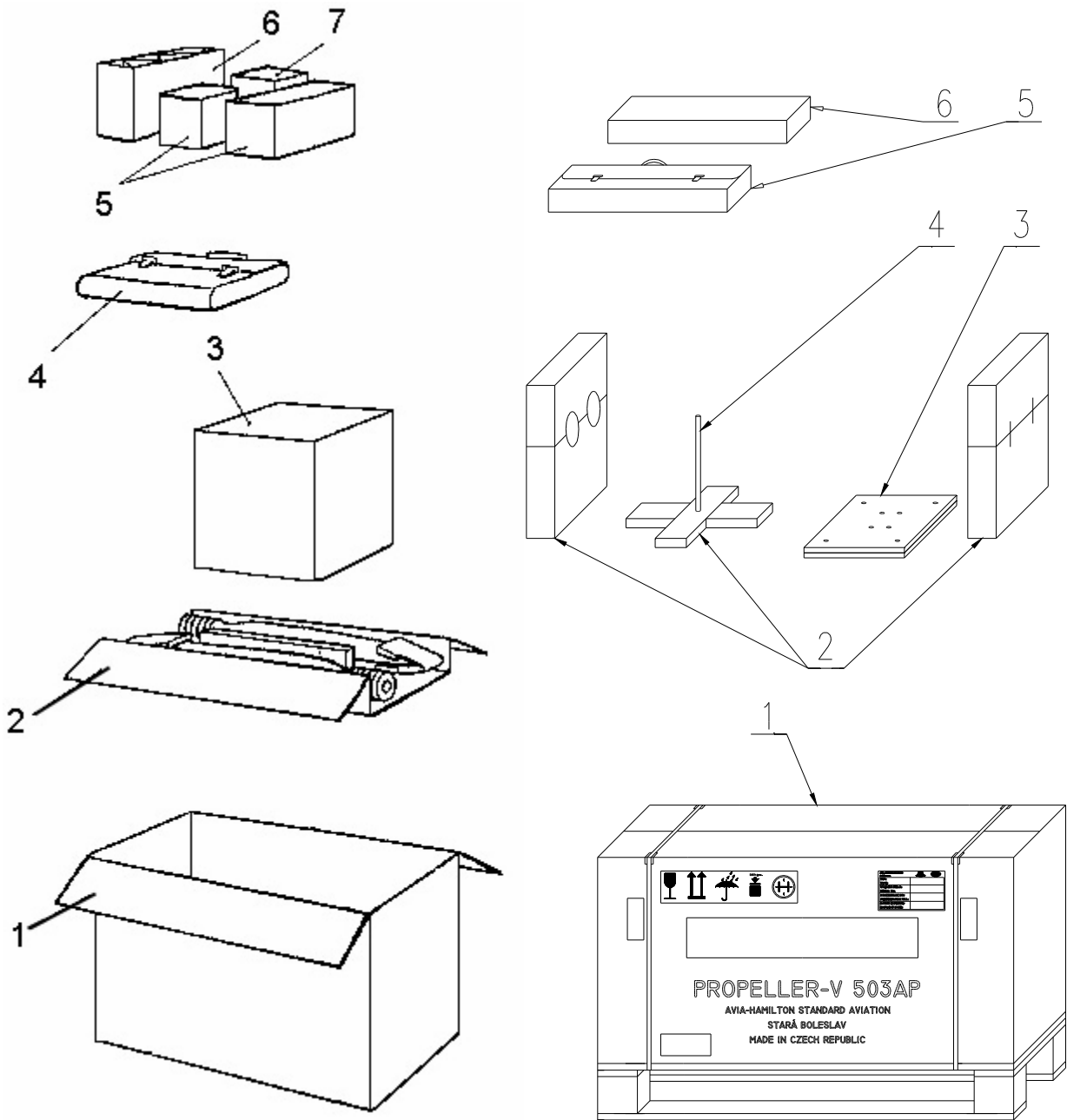


Fig. 12. Shipping Containers

SHIPPING CONTAINERS

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|--------------|---------------------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| 1 | V 503 - 7100 | Fibreboard Case | o | 1 | 1 | |
| 1 | 073 - 7100 | Transporting case | o | | | 1 |
| 2 | Assembly | Propeller Blades Box | o | 1 | 1 | |
| 2 | Assembly | Inlays | o | | | 1 |
| 3 | Assembly | Propeller Hub Box | o | 1 | 1 | |
| 3 | Assembly | Parts for the propeller hub fastening | o | | | 1 |
| 4 | V 503 - 7200 | Assembly Tools - Set "A" | o | 1 | 1 | |
| 4 | Assembly | Parts for the windmill fastening | o | | | 1 |
| 5 | Assembly | Loose and Spare Parts Box | o | 1 | 1 | |
| 5 | 073 - 7700 | Bag with a tool of set „A“ | o | | | 1 |
| 6 | Assembly | Windmill Box | o | 1 | 1 | |
| 6 | Assembly | Box for the loose and spare parts | o | | | 1 |
| 7 | Assembly | Lining | o | 1 | 1 | 1 |

Assembly - Manufacturer Procedure

SET OF THE V 503 PROPELLER SPARE PARTS

Spare parts used most often during regular repairs are grouped into sets. To order these parts, it is enough to state the order code of the spare parts set. The proper sets of spare parts are delivered in suitable packaging.

SET OF SPARE PARTS (1:1)

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|------------------------|-----------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 | Spare Parts Set (1:1) | o | 1 | | |
| | V 503A | Spare Parts Set (1:1) | o | | 1 | |
| | 073 - 7300.7 | Spare Parts Set (1:1) | o | | | 1 |
| 1 | V 503 - 0004 | Lock Washer | | 1 | 1 | 1 |
| 2 | V 506 - 4002 | Bolt | o | 10 | 10 | |
| 2 | 073 - 4002 | Bolt | o | | | 10 |
| 3 | V 506 - 0003 | Nut | o | 2 | 2 | |
| 3 | 073 - 0001 | Bolt | o | | | 2 |
| 4 | V 503-0101 (V503-0105) | Vane | o | 2 | | |
| 4 | 053 - 0105 | Vane | o | | 2 | |
| 4 | 073 - 0105 | Vane | o | | | 2 |
| 5 | 073 - 0002 | Washer | o | | | 2 |
| 6 | 073 - 0004 | Washer | o | | | 2 |
| 7 | 3x25 ČSN 02 1781.02 | Cotter Pin | o | 2 | 2 | |
| 7 | 3.2x25 ČSN 02 1781.04 | Cotter Pin | o | | | 2 |
| 8 | 2x22 ČSN 02 1781.04 | Cotter Pin | o | 6 | 6 | |
| 9 | M8 ČSN 02 1403.54 | Nut | o | 2 | 2 | |
| 9 | M8 ČSN 02 1403.99 | Nut | o | | | 2 |
| 10 | 8.4 ČSN 02 1702.14 | Washer | o | 2 | 2 | 2 |
| 11 | 0.5 l. Oil MK8 | Oil Can | o | 1 | 1 | |
| 12 | | Funnel | o | 1 | 1 | 1 |
| 13 | 14 ČSN 02 2930 | Locking Ring | o | | | 2 |
| 14 | Ø 0.8 x 1000 | Binding Wire | o | | | 1 |

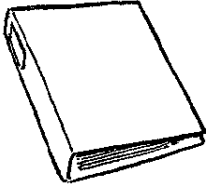
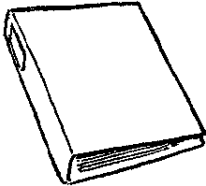
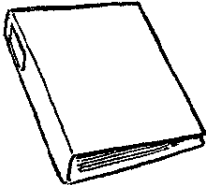
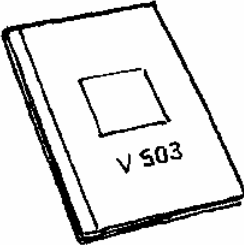
Note:

The above spare parts are delivered with every new propeller.

ASSEMBLY TOOLS - SET "A"

| FIG. REF. | PART NUMBER | DESCRIPTION | SEP. | QUANTITY | | |
|-----------|-------------------------|-----------------------------|------|----------|--------|---------|
| | | | | V 503 | V 503A | V 503AP |
| | V 503 - 7200 | Assembly Tools - Set "A" | o | 1 | 1 | |
| | 073 - 7200 | Assembly Tools - Set "A" | o | | | 1 |
| 1 | V 503 - 7210 | Wrench No. 4 | o | 1 | 1 | |
| 2 | V 410 - 7204 | Wrench No. 5 | o | 1 | 1 | |
| 3 | V 506 - 7240 | Wrench No. 6 | o | 1 | 1 | |
| 4 | P 7900 - 7202 | Wrench No. 7 | o | 1 | 1 | |
| 5 | V 503 - 7202 | Wrench No. 9 | o | 1 | 1 | 1 |
| 6 | V 503 - 7201 | Bolt (Wrench No. 10) | o | 1 | 1 | 1 |
| 7 | V 410 - 7205 | Tube | o | 2 | 2 | |
| 8 | V 506 - 7250 | Remover (Wrench No. 8) | o | 1 | 1 | |
| 9 | V 506 - 7270 | Mounting Tube | o | 2 | 2 | |
| 10 | Size 3 | Screwdriver | o | 1 | 1 | |
| 10 | 350 PH code 008720 | Screwdriver DIN 5262 | o | | | 1 |
| 11 | 068 - 8110 | Lever | o | | | 1 |
| 12 | 073 - 7201 | Wrench Body | o | | | 1 |
| 13 | 073 - 7203 | Adapter | o | | | 1 |
| 14 | TONA VSN 2 | Ratchet Adapter | o | | | 1 |
| 15 | TONA UMO 10 | Universal Torque Wrench | o | | | 1 |
| 16 | 50510 - HMW | Wrench 13 x 14 | o | | | 1 |
| 17 | 8 ČSN 23 0710 | Hexagonal Socket Wrench | o | | | 1 |
| 18 | 4 ČSN 23 0710 | Hexagonal Socket Wrench | o | | | 1 |
| 19 | TONA 1219 (s = 19) | Socket | o | | | 1 |
| 20 | TONA 1217 (s = 17) | Socket | o | | | 1 |
| 21 | TONA 1113 (s = 13) | Socket | o | | | 1 |
| 22 | TONA 1320 (1/2" - 3/8") | Adaptor | o | | | 1 |
| 23 | V 503 - 7300 | Assembly Tool Bag - Set "A" | o | 1 | 1 | |
| 23 | 073 - 7700 | Assembly Tool Bag - Set "A" | o | | | 1 |

TECHNICAL AND OPERATIONAL DOCUMENTATION

| Ref. n-r | Description | Application | Drawing | Part Number |
|----------|--|-------------|--|---|
| 1 | V 503 Propeller Operator's Installation and Maintenance Manual | |  | V503 - 8911.7 CZ V503-8911.7 ENG _____ |
| 2 | V 503A Propeller Operator's Installation and Maintenance Manual | |  | 053 - 8911.7 CZ 053 - 8912.7 ENG 053 - 8913.7 RUS |
| 3 | V 503AP Propeller Operator's Installation and Maintenance Manual | |  | 073 - 8911.7 CZ 073 - 8912.7 ENG |
| 8 | V 503 Series Parts Catalog | |  | 073 - 8921.7 CZ 073 - 8922.7 ENG |

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| 3211 | 3 - 5 | 1 | 3021 | 3 - 1 | 5 |
| 3212 | 3 - 5 | 2 | 3051 | 3 - 1 | 13 |
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| 3222 | 3 - 6 | 6 | 3053 | 3 - 1 | 22 |
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| M 5x20-8.8-B2L | 0 - 3 | 13 |
| M 8x20-8.8-B2L | 0 - 3 | 17 |
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| 6012 | 0 - 3 | 12 |
| 6013 | 0 - 3 | 12 |
| 6014 | 0 - 3 | 12 |
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| OR 251 3000 | | |
| 130x2.5 | 3 - 3 | 31 |
| OR 500 5500 | | |
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| TPA 100 200 | 3 - 1 | 19 |
| TONA UMO 10 | 8 - 2 | 15 |
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