

- | | |
|--|------------------------------------|
| 1 – Main wheel | 5 – Distance tube |
| 2 – Safety stainless wire $\varnothing 1$ mm | 6 – Split pin $\varnothing 0.8$ mm |
| 3 – Brake disc | 7 – Brake calliper with wheel axle |
| 4 – Nut M24 | |

Fig. 32-4 Main Wheel Removal / Installation

C. Main landing gear leg

Type of maintenance: Heavy

Personnel qualification: Independent certifying staff qualified in accordance with Part-66 or higher.

Recommended tools, materials, persons and documentation:

ITEM	QUANTITY
Wrench 10	1 pc
Wrench 13	1 pc
Hex key 6	1 pc
Screwdriver	1 pc
Socket 13	1 pc
Pliers	1 pc
Split pin $\varnothing 2 \times 32$ mm	4 pc
Stainless wire $\varnothing 1$ mm	AR
Silicone	AR
Contact adhesive	AR
Sealing adhesive tape	AR
Loctite 243	AR
Persons	2

Tab. 32-3 Recommended tools, materials, persons and documentation

- (1) Main landing gear leg removal:
- (a) Jack the aircraft and secure the tail (Chapter 07-10).
 - (b) Remove the main wheel (see 2.B.(1)).
 - (c) Remove the split pins (11, Fig. 32-5) and unscrew the nuts (6).
 - (d) Remove the washer (7), disconnect the wire (22), cable (10), remove the inner holder (8), guying plate (9), washers (5), bolts (3; 4).
 - (e) Disconnect the brake calliper with wheel axle (2).

NOTE

Disassembly of the brake calliper from the wheel axle is described in Chapter 32-40.

- (f) Disconnect the brake line from the main landing leg (1) removing the adhesive tape (21).
- (g) Under the wing centre section, remove the cover (8, Chapter 06-00, Fig. 06-2).
- (h) Remove the laminated seat (Chapter 25-10) and remove the side cover (6, Chapter 06-00, Fig. 06-3) with a knife.

- (i) Tear off the upholstery; remove the cover (5, Chapter 06-00, Fig. 06-3) with a knife.
 - (j) On the lower attachment (24, Fig. 32-5), unscrew the nuts (19), remove the washers (7), pad of the bottom holder (17), distance tubes (15) rubber plate (16), rubber plate (13), bushings (14), pad (12) and bolts (18).
 - (k) On the upper attachment (23), unscrew the nuts (19), remove the washers (7) and bolts (20).
 - (l) Pull the main landing leg (1) from the aircraft.
- (2) Main landing gear leg installation:
- (a) Before assembly of the main landing gear, check the outer surface of the landing gear leg for any cracks and ensure the wheel axle connection is not damaged.
 - (b) Insert the main landing leg (1, Fig. 32-5) into the centre section.
 - (c) On the upper attachment (23), install the bolts (20), washers (7) and slightly tighten the nuts (19).
 - (d) On the lower attachment (24), install the rubber plate (13), bushings (14), pad (12) and bolts (18).
 - (e) Install the distance tubes (15), rubber plate (16), pad of the bottom holder (17), washers (7) and slightly tighten the nuts (19).
 - (f) Tighten all nuts (19) connecting the landing leg (1) with the aircraft.
 - (g) Glue the covers (5; 6; Chapter 06-00, Fig. 06-3) with silicone (remove old silicone); glue the upholstery with Contact adhesive.
 - (h) Install the laminated seat (Chapter 25-10).
 - (i) Under the wing centre section install the cover (8, Chapter 06-00, Fig. 06-2).
 - (j) Connect the brake line and grounding wire with sealing adhesive tape (21, Fig. 32-5) in the middle of the main landing leg.
 - (k) On the bottom of the main landing leg, install the wheel axle with brake calliper (2), bolts (3; 4), washers (5), guying plate (9), inner holder (8), cable (10) with grounding wire (22) and washer (7); tighten the nuts (6) and lock them with new split pins (11).
 - (l) Install the main wheel (see 2.B.(2)).

(m) Carry out a test and check:

- That the castle nuts are secured with split pins.
- If all bolt connections are tight.
- Plays.
- Free rotation of the main wheel.
- Tire pressure (250 kPa).
- If grounding wire is touching the ground.
- That no foreign objects remain in the aircraft.
- There is no air in the brake system.

(3) Main landing gear inspection / check:

In the following table are shown the permissible plays for main landing gear attachment. These values should be not exceeded in operation.

SYSTEM	PROCEDURE TO FIND A PLAY	PROCEDURE TO REMEDY A PLAY	MAX. PRODUCT. PLAY	MAX. OPERATING PLAY
Main landing gear	Lift the aircraft. Move the main wheel forward/backward and inboard/outboard to find possible plays.	Check the legs attachment, wheels attachment. Replace the bearings, if necessary.	1 mm / 0.039 in	3 mm / 0.118 in

Tab. 32-4 Maximum Permissible Plays

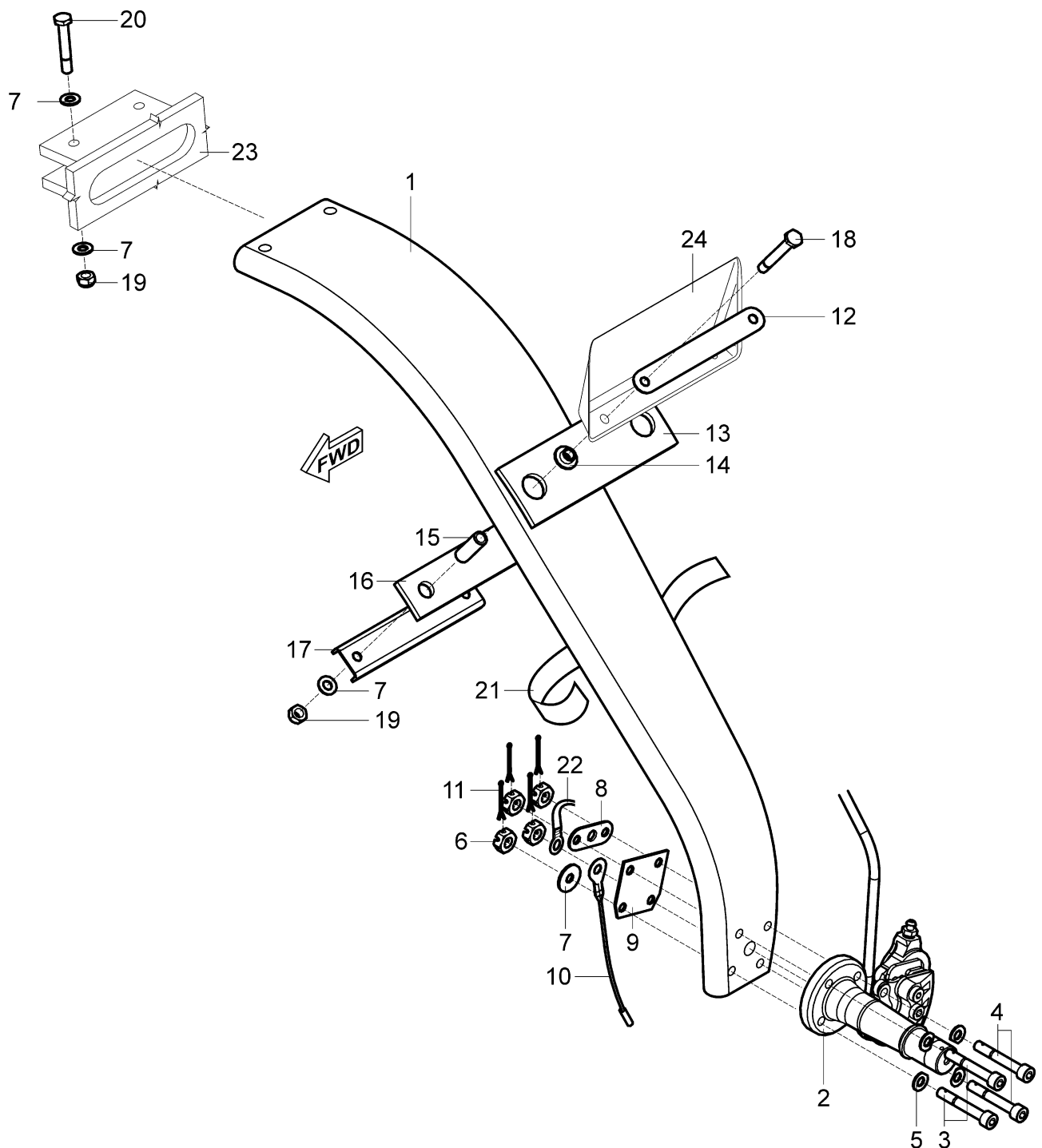


Fig. 32-5 Main Landing Gear Leg Removal / Installation (page 1 of 2)

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|---|----------------------------|
| 1 – Main landing gear leg | 14 - Bushing |
| 2 – Brake calliper with wheel axle | 15 - Distance tube |
| 3 – Bolt M8 x 52 | 16 - Rubber plate |
| 4 – Bolt M8 x 57 | 17 - Pad of bottom holder |
| 5 – Cut washer $\varnothing 8.4$ | 18 - Bolt M8 x 58 |
| 6 – Castle nut M8 | 19 - Self-locking nut M8 |
| 7 – Washer $\varnothing 8.4 \times 16 \times 1.6$ | 20 - Bolt M8 x 48 |
| 8 - Inner holder | 21 - Sealing adhesive tape |
| 9 - Guying plate | 22 - Grounding wire |
| 10 - Cable | For information: |
| 11 - Split pin $\varnothing 2 \times 32$ | 23 - Upper attachment |
| 12 - Pad | 24 - Lower attachment |
| 13 - Rubber plate | |

Fig. 32-5 Main Landing Gear Leg Removal / Installation (page 2 of 2)