

MINITOP UNDERCARRIAGE COMPONENTS

Safety, Use and Maintenance sheet

SAFE USE:

1. Always use appropriate PPE, such as safety glasses, gloves and safety footwear during the installation process
2. Avoid contact with moving carriage parts to prevent injuries
3. Carry out the component replacement process on a level surface
4. Avoid lifting excessively heavy loads and, when possible, use suitable lifting equipment (hoist, winch, forklift, etc.)
5. In any case, refer to the instructions of the original manufacturer of the machine on which you are working

Removal of undercarriage elements

1. Place the bucket and front blade of the excavator on the ground and lower them simultaneously to raise the whole machine off the ground by approximately 20cm
2. Use jack stands or blocks to further stabilise the machine
3. Follow standard procedure for loosening or removing the crawler track (refer to machine manufacturer's instructions)
4. Remove the undercarriage parts to be replaced and dispose of them in the most appropriate manner
5. Carry out a general cleaning and check to assess the wear condition of all remaining parts

CORRECT MAINTENANCE

In order to preserve all undercarriage elements as much as possible, it is advisable to follow the guidelines below:

1. Drive as slowly as possible, especially when fully loaded
2. Avoid reverse travel as much as possible to reduce wear, especially on bushings and drive wheels
3. Avoid tight radius steering or counter-rotation on site as much as possible
4. Pay attention to the cleanliness of the machine, especially the tracks and undercarriage elements. Make sure, after each work session, to remove any debris or chemicals to prolong the service life of all elements
5. After replacing the undercarriage elements, and having paid attention to the instructions provided by the original machine manufacturer, periodically recheck the tightening torques of the bolts to ensure perfect operation of the elements



USEFUL TOOLS:

1. Socket spanners
2. Torque wrench
3. Jack stands / wooden blocks
4. Lifting tools (hoist, winch, etc.)
5. PPEs (safety glasses, gloves, safety footwear)

Installation of undercarriage elements

1. Ensure that the location where the new element is to be mounted is clean and free of debris (including any threads)
2. Refit the new elements in accordance with the procedures and instructions provided by the original machine manufacturer, including tightening torques for bolts (the table below is for guidance only)
3. Continue with a final inspection and cleaning of the other undercarriage elements
4. Reassemble or return the crawler track to tension following the procedure indicated by the original machine manufacturer. Ensure that the crawler track is correctly tensioned (indicative table in the Minitop track use and maintenance sheet)

Strength class 12.9	
Size	Torque Nm
M12 x 1	160 ± 8
M14 x 1.5	250 ± 10
M16 x 1.5	370 ± 20
M18 x 1.5	580 ± 30
M20 x 1.5	785 ± 40
M22 x 1.5	1030 ± 40
M24 x 1.5	1270 ± 60

The data in this table are to be considered purely indicative



For further information please do not hesitate to contact us!



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