

## Reason

In a few cases damage to the turbocharger compressor wheel has been observed that was caused by improper handling of exchanging the silencer's air filter mat. Damping elements may release unnoticed if the perforated plate of the silencer gets loosen when opening the hose clamp for exchanging the air filter mat. During fixation of the air filter mat these released damping elements could be positioned in a wrong way inside the silencer what may result in the before mentioned damage of the compressor wheel.



Figure 1 Damping plates wrong installation



Figure 2 Damping plates damaging the compressor wheel

## Action Code:

## When convenient

## Fixation of air filter mat

### PrimeServ Customer Information

No. 359 / July 2016

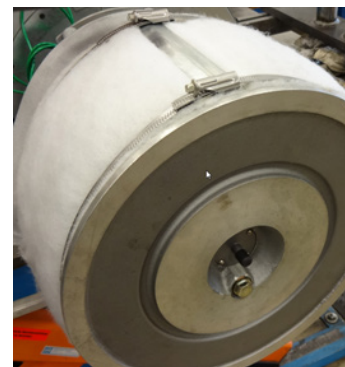
## Concerns

MAN Diesel & Turbo Turbochargers  
All NR12/S and TCR12 types  
with silencer

## Filing Advice

Order No. 544.201

Order No. 544.202



## Description

The perforated sheet 544.034 is to be fixed by a third hose clamp 544.202, when installing the air filter mat.

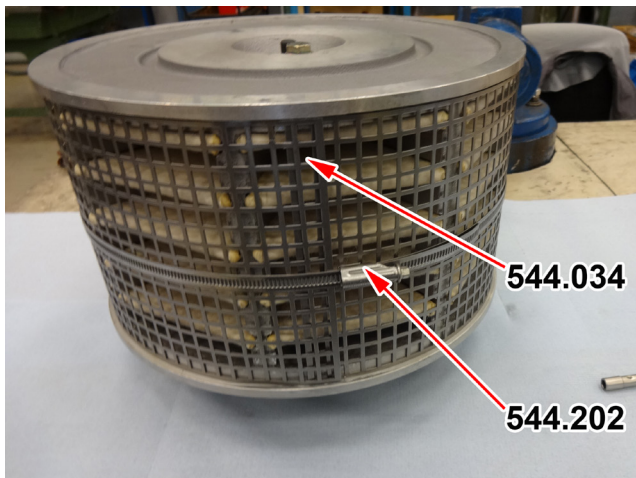


Figure 3 Perforated plate and tightened hose clamp

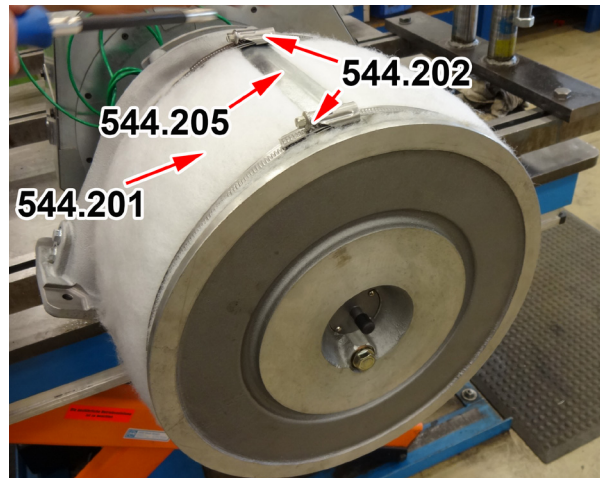


Figure 4 Starting position for fixation of new air filter mat

**For the installation of the air filter mat the following procedure is to be applied:**

1. Shut down the engine
2. Remove the silencer (544.000, work card [500.12] for NR12/S and [500.32] for TCR12) and place it flat as shown (see figure 3)
3. Open the hose clamps (544.202), remove the cover sheet (544.205) and the air filter mat (544.201)
4. Place a third hose clamp (544.202) in the middle over a perforated plate and tighten the hose clamp carefully (see figure 3)
5. Make sure that all damping elements are in correct position
6. Place the new air filter mat (544.201) over the perforated plate (544.034) and ensure the air filter mat covers the plate completely
7. Place the cover sheet (544.205) over the hem of the air filter mat (see figure 4)
8. Fasten the cover sheet (544.205) and the air filter mat (544.201) by tightening the two hose clamps (544.202)
9. Ensure the filter mat (544.201) covers the perforated plate (544.034) completely and the hose clamps (544.202) are positioned correctly (see figure 5)
10. Refit the silencer according to work card [500.12] for NR12/S, and [500.32] for TCR12

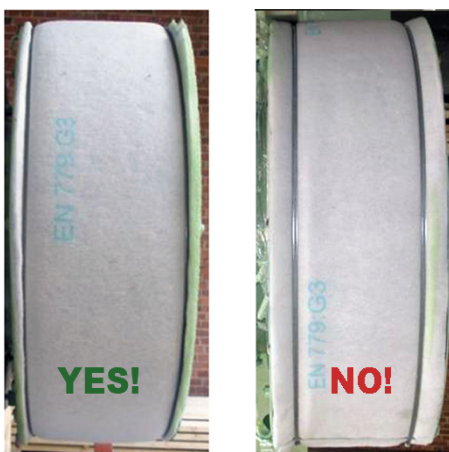


Figure 5 Assembled air filter air mat

Once the perforated plate is fixed as described in both procedures the air filter mat can be exchanged always without dismantling the silencer.

## Material / Spares

Air filter mat: 544.201

Hose clamp: 544.202 (additional)

## Contact

Please do not hesitate to contact our technical service department for further information.

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**Please forward this information to your technical operating personnel and remember to inform us of the current operating hours of your MAN Diesel & Turbo engines.**