

Doc.-Nr. 335-99-0004-00	Technical Note	Alexander Schleicher GmbH & Co. Segelflugzeugbau D-36163 Poppenhausen ADOA AP138
	AS 33 Me – TN 5 Improved PRS cooling	
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Issue date:	07.02.2025
Subject:	Improved PRS cooling The existing PRS (DC/DC converter) can be replaced by a version with improved cooling. This improves the reliability of recharging on ground in hot conditions in particular.
Applicability:	AS 33 Me, all serial numbers
Urgency:	optional
Material:	50-000-3759-00 Power Rail Supply (PRS) 340-64-1005-00 Power Rail Supply Distribution Unit (PRSDU); Rev. A or later
Drawings:	Circuit diagram, aircraft maintenance manual section 2.3.1.5
Mass and Balance:	The change in mass and C. of G. position is negligible.
Notes:	The actions have to be considered as a non-complex maintenance task regarding aviation law. The respective regulations must be applied.
Approval:	This Technical Note bases on a change, which was approved by EASA under the minor change approval EASA 10085984.

Actions

The aviation law as amended concerning maintenance tasks of electric propulsions as well as law concerning work on high-voltage systems must be applied.

Replace the PRS as well as the PRSDU by following the steps below.

1. Extend the propeller.
2. Turn power-plant main switch off.
3. Disconnect the high-voltage batteries.
4. Disconnect all 12V batteries.
5. Remove the existing PRS (P/N 50-000-0184-00) located in the power-plant compartment and install the improved one (P/N 50-000-3759-00).¹
6. Check cables for chafing marks and correct routing as well as plug connectors for correct connection.
7. Remove seat pan.
8. Remove the existing PRSDU (P/N 340-64-1005-00) located near the control stick² and install a new one (P/N 340-64-1005-00, Rev. A or later).
9. Check cables for chafing marks and correct routing as well as plug connectors for correct connection.
10. Reconnect all 12V batteries.
11. Reconnect the high-voltage batteries.

¹ Removed existing PRS (P/N 50-000-0184-00) must be returned to Alexander Schleicher GmbH & Co. Segelflugzeugbau.

² It is recommended to plug the tab connectors from the old to the new PRSDU one after the other to avoid incorrect assignment. If necessary, compare the wiring with the circuit diagram in the aircraft maintenance manual, section 2.3.1.5.

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12. Perform a test run on the ground as per aircraft maintenance manual section 2.3.6. Check for proper functioning of the power-plant system as well as for any warning or error messages displayed at the power-plant instrument.
13. Examine for foreign bodies.
14. Reinstall seat pan.
15. Re-charge the high voltage batteries according aircraft flight manual section 7.13. Check for proper functioning of the power-plant system as well as for any warning or error messages displayed at the power-plant instrument.