

Fill / Drain - Device for SCS of A380

> SCSFD380M1 <



AIRBUS CERTIFIED

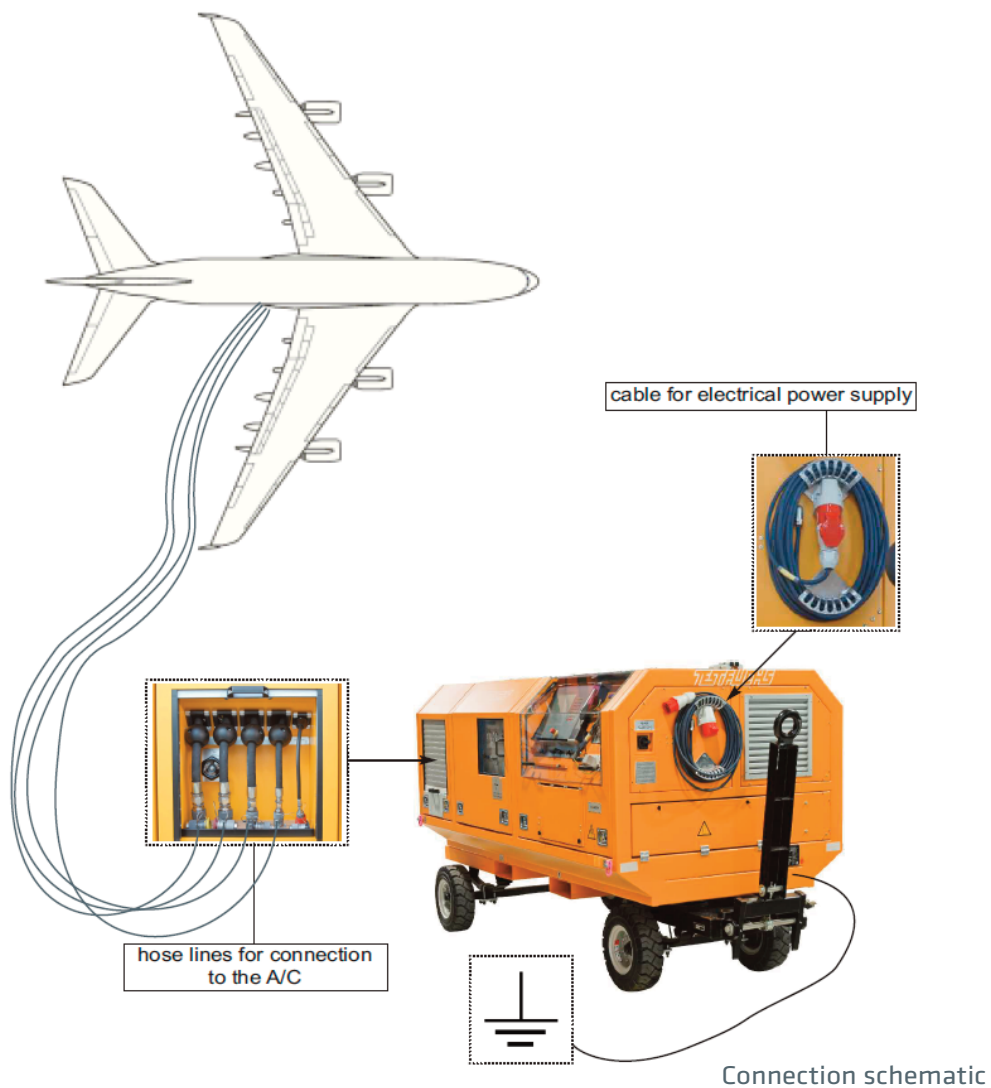
Developed to bleed, fill and top up of both circuits of the Supplemental Cooling System (SCS) in the AIRBUS A380, ATA Chapter 21-59-00 Tool / Equipment Bulletin No: 380-D0305 TEB Issue No: 1

- > Service Procedures only for SCSFD380M1:
 - Filling of Whole System
 - Refill of Whole System
 - Draining of Whole System
- > New procedures:
 - Leak Test of GSE N2-Circuit
 - Self Test of the R232-Interface (Opto-Coupler)

- > Software operated, fully automatic test runs, no login for operators
- > Version M1 ensures optimized test runs with controlled service times
- > Easy operation via modern touch panel, clearly arranged navigation
- > Holding points to continue test procedures instead of cancellation in case of failure
- > Exact planning - complete test duration and remaining duration constantly monitored
- > Permanent communication between A/C and GSE

FURTHER PROCEDURES

- > Filling of Centralized Equipment
- > Drainage of Centralized Equipment
- > Top-up of Accumulator
- > N2-Pressure for Leak-Test of Centralized Equipment
- > N2-Pressure for Leak-Test of Whole System
- > Depressurization of the Whole System
- > Pressurization of the Whole System
- > Bleed GSE
- > Drain GSE Hoses

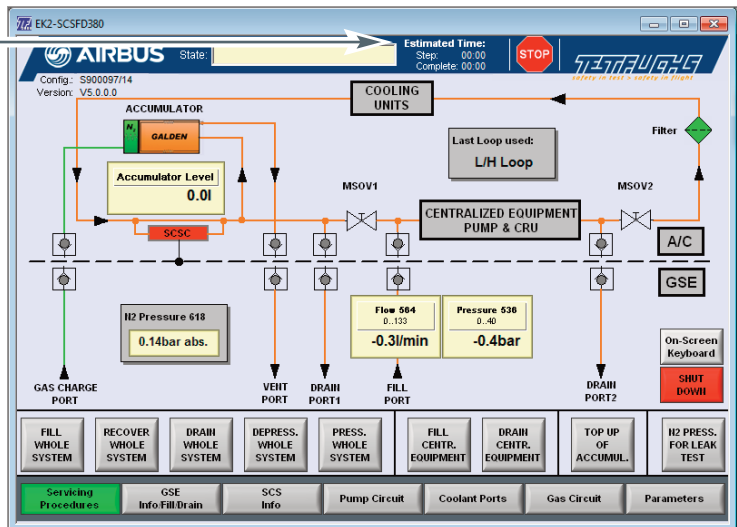


BENEFITS OF M1 MODIFICATION

- > Time saving – completely revised test routines
- > New error handling routines - Clear failure indication with recommended solutions
- > Direct access to operator manual on touch screen, search mode
- > N2 leakage self test for simple leak identification (GSE or A/C)
- > Self test of R232 interface (Opto-Coupler) – communication GSE-A/C
- > Optimized duration of service procedures with monitored time setting
- > Abort of servicing procedure via STOP button possible
- > No operator-login, password protection only for maintainer
- > Colour coded on adaptors for easy set up
- > Test relevant parameters shown on separate screen
- > Step by step description of all servicing procedures
- > Constantly illuminated service lights for better orientation

Indication Estimated Time describes the following periods of time:

- Step: Period till finish of the current test step
- Complete: Period till finish of the complete test



GSE	N2 Accumulator Pressure [bar]	Pressure [bar]	Flow [l/min]	Time [min]	Number of Cycles	Time/Step [min]
Bleed GSE						4.0
Step 1	2.0			10.0		10.0
Step 1-1		10.0	30	8.0		8.0
Step 1-2		10.0	30	3.0		3.0
Step 2-1		14.0	50	1.0		4.0
Step 2-2		12.0	45	1.0	2	4.0
Step 3-1		7.0	20	0.33		0.33
Step 3-2		4.0	5	3.00		3.0
Top Up of Accumulator		10.0	4			
Total Time [min]						32.33

PARAMETERS

- Filling of Whole System
- Recover Whole System
- Drainage of Whole System - De-energized
- Filling of Centralized Equipment
- Drainage of Centralized Equipment - De-energized
- Top Up of Accumulator
- N2 Pressure for leak test
- Press. of Whole System
- Bleed GSE
- Drain GSE Hoses

This window shows how the duration of the complete test is composed.

TECHNICAL DATA

<p>> Electrical supply:</p> <p>Mains power supply: 3/N/PE AC 50/60Hz 400V Nominal power: 14,6kVA Nominal current: 21A Pre-fuse: 32GG</p>	<p>> Main reservoir:</p> <p>Capacity: approx. 445l (approx. 117.5USgal) Used capacity: approx. 380l (approx. 100.4USgal) Medium: Galden HT135</p>
<p>> Nitrogen supply:</p> <p>Nitrogen bottles: 3 standard nitrogen bottles each 20l (5.2USgal) filling volume (not included in the scope of delivery)</p> <p>External supply: via G 1/4" connection</p>	<p>> Operating conditions:</p> <p>Ambient temperature: -30 to +50°C (-22 to +122°F) Storage temperature: -30 to +60°C (-22 to +140°F) Relative air humidity: 5 to 90% (non-condensing)</p>
<p>> Hydraulic parameters:</p> <p>max. 90l/min at max. 30bar (max. 23.8USgal/min at max. 435psi)</p> <p>Flow and pressure adjustable</p>	<p>> Dimensions and weight:</p> <p>Length: approx. 3.090mm (approx. 121,7in) Width: approx. 1.410mm (approx. 55,5in) Height: approx. 1.635mm (approx. 64,4in) Weight: 1.800kg (3.968lbs)</p>



Colour coded test connections



Touch panel and operating elements

STANDARD ACCESSORIES

- > 1 EA Earth cable to establish potential equalization
- > 1 EA Connecting cable between GSE and A/C (15m / 49ft)
- > 1 EA Self-test adapter for RS232 interface
- > 1 EA Hose brush