

#133670

ERL MAINTENANCE SUPPORT SDN BHD

(Company No. 498574-T)



ROLLING STOCK DEPARTMENT

IN-HOUSE TECHNICAL INSTRUCTION

MONSOON ST12-UV OPERATING GUIDELINE

R00.OMR.M91060.PE.1001.A

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1 Purpose

The purpose of this document is to provide guideline a safety and proper guideline to the user, RST and sub-contractor on how to operate the Steam Vacuum Cleaner Monsoon ST12-UV. The main purpose of using the Monsoon ST12-UV is to clean the train interior including train carpet, seat, head rest and arm rest.

2 Scope, Distribution & Access

This document is applicable to all RST personnel. The distribution and access shall be available for all RST and could be viewed and retrieved via EDMS and RST Portal [http://express50/E-MAS_Portal/RST.html]. The hardcopy of this procedure is available in RST foreman room for reference. The full access for editing this document is only granted to RST MGT.

3 Operating Guideline

This operating guideline shall be used together with the User Manual (Original Instructions), reference no. R00.OMR.M90001.PE.1001.A, provided by the supplier. Kindly read through the manual before start using the machine. User manual can be found in RST Foreman Room.

The ST12 should be kept inside the designated RST storage room at all time when not in used and a request to use the ST12 should be made to the RST Supervisor before operating the machine.

Note: It is recommendable to do the cleaning while the train air conditioning is on in order to reduce drying time.

- 1) Fill in water in the cleaner bin (**Figure 1**) located at the back of the ST12 until MAX level approx. 2.5 liters. Function on the tank is to trap dirt when vacuuming
- 2) Place and secure the cleaner bin to the ST12 and lock (**Figure 2**)



Figure 1 - Fill in water in the cleaner bin



Figure 2 - Secure the cleaner bin

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- Open the flap cover (**Figure 3**) and remove the caps located on top of the ST12 and fill in with water until full and close back the caps and flap cover. (Water will spill out indicating that the tank is full)

Caution : Do not fill in water in the tank covered with red cap and do not fill in water when machine is on

Note : Fix the ST12 on a flat surface and lock the wheels if necessary to avoid unnecessary movement

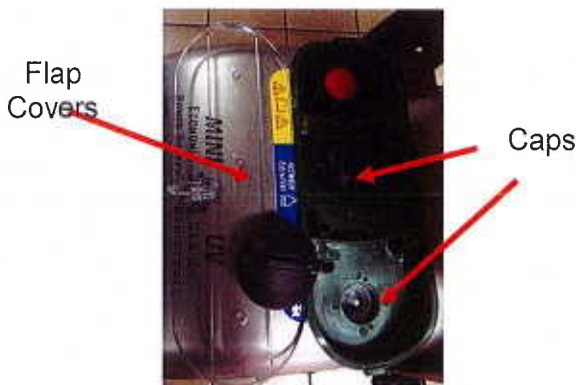


Figure 3 - Open flap covers & fill in the water



Figure 4 - Insert the moulded plug

- Insert the moulded plug onto the built-in power socket until a click sound is heard (**Figure 4**). It indicates that the connection is secured.
- Mount suitable accessories to the end part of moulded plug depending on the cleaning area (**Refer to Chapter 4 – List of Accessories**)
- Connect the plug in the 3pin socket to an external power supply (**Figure 5**). Use dedicated extension cable (**Figure 6**)

Caution : Do not plug in into the train power supply to avoid short circuit



Figure 5 - Connect to power supply



Figure 6 - 20 meters extension cable

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7) Turn on the ST12 by pressing **button A (Figure 7 – Control Panel)**

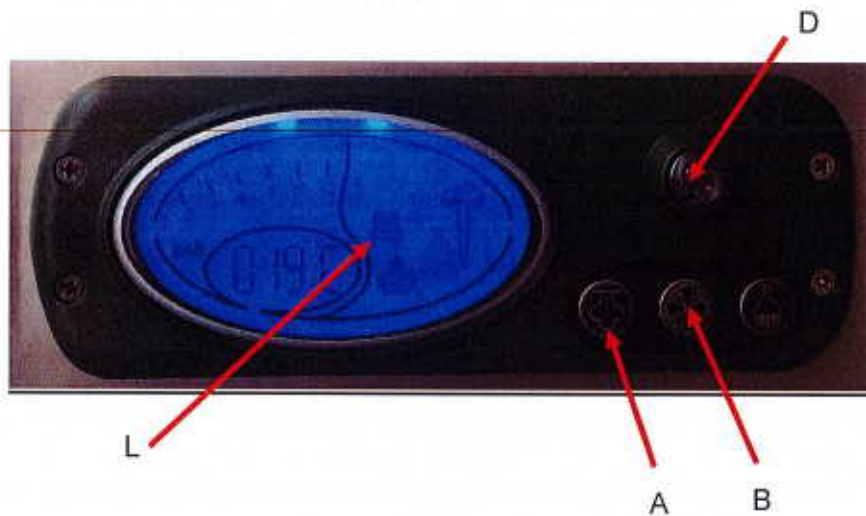


Figure 7 - Control Panel

- 8) Wait for approximately 3-5 minutes for the water to boil. The heating element icon (**L (Figure 7 – Control Panel)**) will stop blinking when the water temperature and pressure has reached 270deg and 8 bar respectively
- 9) Press the **red demand button** at the tube handle to start dispensing steam (**Figure 8**)
- 10) Before do the cleaning work, point the nozzle to a basin to ensure water is dispensed out and adjust the volume rate of steam by pressing the side **button B2 (+/-)** located at the tube handle (**Figure 9**)



Red demand button



Figure 9 - Steam function side button B2 (+/-)

- 11) Select the **button B (Figure 7 – Control Panel)** to enable the vacuum function. At maximum speed, indicator light **D (Figure 7 – Control Panel)** of the vacuum control turns on (**red**)
- 12) To start vacuuming, press the **button B3** once on the tube handle (**Figure 10**). To adjust motor speed, press side **button B1 (+/-)** until speed change is noted (**Figure 11**)

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Note: Do not use the vacuum function together with the steam function. Do not press the Red demand button when using the vacuum function



B3



B1

Figure 10 - Speed button B3 to activate vacuum function






Figure 11 - Vacuum function side button B1 (+/-)

- 13) To turn off the vacuum function, press again **button B3 (Figure 10)** then the **button B (Figure 7 –Control Panel)**
- 14) Repeat step 10 to step 13 until the stain are completely removed
- 15) After cleaning process is done, turn off the ST12 by pressing the **button A (Figure 7 – Control Panel)** one time and wait for 3-5 seconds for it to turn off
- 16) Remove the moulded plug from the ST12 and unplug the 3pin socket from the power supply
- 17) All the accessories and cable are to be placed back to its original place where it was stored
- 18) Remove the water in the cleaner and clean the compartment. Re-install the cleaner bin to the ST12
- 19) The ST12 is to be returned to RST Supervisor after usage. Any defect on the machine and accessories are to be reported immediately
- 20) RST Supervisor to confirm any defect to the machine and report it to RST HOD

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4 List of Accessories

Carpet Cleaning

<p>Rectangular brush</p> 	<p>Rectangular accessory</p> 	<p>Large brush</p> 
<p>Large brush liquids vacuum accessory</p> 	<p>Large brush solid vacuum (bristles)</p> 	





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Seat, Head Rest & Arm Rest Cleaning

<p>Small brush</p> 	<p>Small brush solid vacuum</p> 	<p>Small brush liquids (NYLON)</p> 
<p>Small brush (Rubber)</p> 	<p>Large dress-fit nozzle</p> 	<p>Small dress-fit nozzle</p> 
<p>Round brush for dress-fit (3 holes)</p> 		<p>Triangular brush for dress-fit (3 holes)</p> 

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Other Accessories

<p>Extension wands</p> 	<p>Long dress-fit nozzle (Rubber)</p> 	<p>Dress-fit (Rubber)</p> 
<p>Dress-fit (1 hole)</p> 	<p>Dress-fit (3 holes)</p> 