TEE Transducer Care

Philips Healthcare www.philips.com/ultrasound



Philips Customer Helpdesk 0870 5329741



Objective: By the end of the training users will be familiar with Philips recommendations for TEE care, including handling, cleaning, storing, and disinfectant compatibility. This checklist is your opportunity to verify that your facility has received training and will act as a reference to you of training topics covered with relevant help function keywords in **bold**. *Note*: *User information provided with system is the primary and best source of information*

Overview			
Topic	Notes		
User	TEE Cleaning Procedure PDF, Important information for TEE transducer care handout, S8-3t Quick		
Materials	Guide, Operating Notes, Getting Started, System Help Information components / Read this first		
Transducer Care	For information on transducer general care, handling, cleaning, storing & disinfectant compatibility see System User manual & Philips Transducer Care website:		
	www.healthcare.philips.com/main/products/ultrasound/transducers/transducer_care/index.wpd		

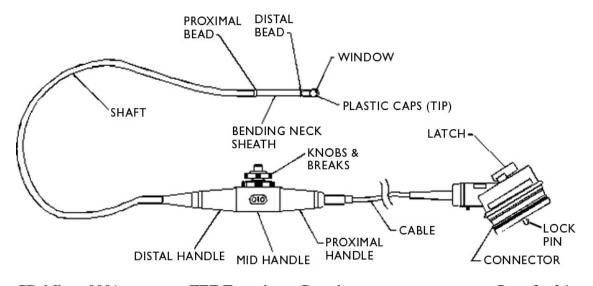
TEE Transducer Care					
Topic	Notes				
Handling	Handle the transducer with care. Dropping or banging can cause serious damage				
TOE	Use a tip guard on the transducer distal tip to protect the transducer's lens during transportation.				
Accessories					
	during studies TEE Accessories and Supplies				
Storage &	When not in use, store the transducer in a TEE storage rack. Use the carrying case to transport the				
Transport	transducer Storage for transport				
	Warning: Do not bend the shaft into a circle with a diameter less than 0.3m (1ft)				
Electrical	Before use, inspect the transducer for damage. In the event of any sign of damage, immediately				
Safety	discontinue use. Checking the TEE Transducer				
	Electrical Safety Check Device available from Civco Medical. Electrical				

TEE Transducer Specifications and Minimum Patient Weight				
Topic	Notes			
Transducer parts	Identify transducer flexible shaft and distal tip, handle and steering mechanism, cable and connector			
Spec &	Transducer specifications: tip size, patient weight guidelines. Transducer descriptions			
Safety	See table below			

Probe	Mode	Model	CIVCO Tip Guard code	Min patient weight (kg)	Tip Length (mm)	Tip Width (mm)	Tip Height (mm)	Shaft Length (mm)	Shaft Width (mm)
X7-2t	3D	xMatrix	667-094	30	38	17	13.5	900	10
S7-2	2D	Omni III	610-945	25	35	14.9	12.5	900	10
S7-3t	2D	Mini Multi	610-1009	3.5	27	10.7	8.0	700	7.4
S8-3t	2D	Micro TEE	610-1111	2.5	18.5	7.5	5.5	700	5.2

TEE Transducer Cleaning and Disinfecting						
Topic	Notes					
Correct Cleaning Procedure & Disinfectants	See Disinfectants and Gels in the 'Getting Started Manual' and User Manual. See User Materials 'Important information for TEE transducer car' & 'TEE Cleaning Procedure' Power Point. This information is to be used in conjunction with your institution's infection control procedure. Transducer care Always follow the recommendations of disinfectant manufacturer					
	Note: Prior to disinfection the instrument should be cleaned using an enzymatic cleaner or mild soapy solution to remove any visible contaminate and then each element of the instrument disinfected according to the guidelines Procedure for disinfecting the TEE transducer by immersion:					
	 Disconnect the transducer from the system Use the following procedure to remove all organic matter and other residue: 					
	a) Soak gauze pads in mild, soapy water. Do not use iodine-based soaps.					
	b) Wipe the distal tip and flexible shaft up to the control housing (steering mechanism) with the gauze pads. Use an enzymatic cleaner to assist in removing protein residuals					
	c) Use water to rinse the distal tip and flexible shaft thoroughly. Avoid wetting transducer hub					
	 3. Check the transducer for any residual organic material. Repeat Step 2 if necessary. 4. Disinfect the distal tip and flexible shaft by placing them in the appropriate disinfectant. <u>Warning:</u> Do not soak the transducer for extended periods. The transducer steering mechanism is not sealed, if disinfectant or other fluid enters the steering mechanism, it will corrode the gears and electrical connections 					
	5 . Remove the tip and shaft from the disinfectant and thoroughly rinse with water according to the instructions from the disinfectant manufacturer. <u>Note:</u> some disinfectant manufacturers recommend rinsing by immersion in water					
	6. Dry the distal tip and flexible shaft with a sterile cloth or pad, or allow to air dry					
	7. Lightly wipe only the steering mechanism and handle with a pad moistened with rubbing alcohol (70% isopropyl alcohol), or using T-Spray II as directed					
	8. Clean the cable using a mild soap solution, Quaternary Ammonium or Milton Do not use alcohol					
	based products 9. Wipe the connector with bleach, alcohol or Quaternary Ammonium based products. Do not spray					
	10. Hang the transducer on a wall-mounted rack and allow to air dry to complete procedure					
Cautions	Do not rinse or immerse the handle or steering mechanism					
	 Do not rinse or immerse the cable or connector The use of 70% isopropyl alcohol on transducers is restricted to the handle only. Do not use bleach or isopropyl alcohol-based products on the transducer or shaft 					
	 Never sterilize the transducer with autoclave, ultraviolet, gamma radiation, gas, steam, or heat sterilization techniques. Severe damage will result 					
	Fewer agents are compatible with Mini and Micro TEE. See compatibility table					
	 Using non-recommended disinfectants, incorrect solution strength or immersing deeper or longer than recommended can damage or discolour the transducer 					

Basic TEE parts



Philips T		rs, Disinfectants & Accessories for the UK		
	Product	Manufacturer/ supplier / contact details		
Cleaners	T-Spray II Quat.Ammonia	Pharmaceutical Innovations pharminnovations.com CIVCO Medical Solutions civco.com		
(Control Housing		Mana-Tech Ltd (UK distributer) mana-tech.com		
and Cable)		mana room <u>a</u> ta (ort alamatar) mana room		
Pre-Cleaners and	Autozyme	Puricore International Ltd <i>puricore.com</i>		
Cleaning agents (Transducer shaft		NHS Supply Chain supplychain.nhs.uk		
and tip)	Bodedex	BODE Chemie bode-chemie.com		
.,		H+R Healthcare Ltd (UK distributer) email:mike.hoskins@hrhealthcare.co.uk		
		CIVCO Medical Solutions civco.com		
	Cidezyme/Enzol <5%			
	Neodisher Septo- Pre Clean	Mana-Tech Ltd (UK distributer) mana-tech.com		
	resolution copie i le cicali	Dr Weigert drweigert.co.uk		
	Gigazyme	Schülke & Mayr UK Ltd schuelke.com		
		NHS Supply Chain supplychain.nhs.uk		
Disinfectants	RelyOn Perasafe Powder ¹	Antec International relyon.dupont.com		
(Transducer shaft and tip)		NHS Supply Chain supplychain.nhs.uk		
	Peracetic acid OCS ¹	Olympic Chemical Systems		
		olympicchemicalsystems.com		
	Perastel ¹ (compatible with Puricore AER)	Tristel Solutions Ltd tristel.com		
	Tristel Fuse for Instruments ¹ (used with Stella semi-automated decontamination device)	Tristel Solutions Ltd tristel.com		
	Tristel Sporicidal Wipes ¹	Tristel Solutions Ltd tristel.com		
Accessories	Tip protectors, bite guards,	CIVCO Medical Solutions civco.com		
	transducer covers²/sheaths, storage racks and holders etc	Mana-Tech Ltd (UK distributer) mana-tech.com		
	² Micro TEE transducer S8-3t	Palmedic palmedic.eu		
	Palmedic Probetection Cover Kit Product code 1280-02	Leonhard Lang (UK distributer) email:tony.abbott@leonhardlang.co.uk		
	Storage cupboards	Neocare neocare.org.uk		
	Endoscope Storage Cabinet	PuriCore International Ltd puricore.com		
Automated	C-10 Probetester	Optima Scandinavia AB tee-probetester.com		
Disinfectors (Transducer shaft and tip)	Test and Disinfection equipment for US probes	SMC Limited (Optima UK distributer) email:enquiries@smcni.com		
	Automated Endoscope Reprocessor (AER)	PuriCore International Ltd puricore.com		

<u>Important Note</u>: ¹Fewer agents are compatible with the Mini Multi S7-3t and Micro TEE S8-3t transducers. From the disinfectant group, only **RelyOn Perasafe, Tristel Solutions Ltd Tristel Fuse for Instruments** and **Tristel Sporicidal Wipes** are compatible with these delicate transducers. ²Palmedic Probetection Cover Kit - Specifically designed Transducer cover kit for the Micro TEE S8-3t transducer

For more information please contact your local Ultrasound Representative or access the Transducer Care Website www.healthcare.philips.com/main/products/ultrasound/transducers/transducer_care/index.wpd Caution - Philips advises customers to follow instructions in the Philips User Manual or Transducer Care

website for disinfectant compatibility with Philips Ultrasound devices. The use of non-recommended disinfectants may damage your transducer. Avoidable transducer damage is not covered by warranty or service contract. The use of non-recommended disinfectant is done so at the customers own risk

TEE Trans	sducer Training (Checklist, Summary and Evaluat	tion			
Institution:	9	Contact Person:				
Phone:		Customer email address:				
Address:		System Serial / Configuration N	Number:			
			I - .			
Date	Project numbe	er (applicable to installation training) Trainer				
Name	Email /contact details			Please send course info		
This training was related to an insta	llation? Vac / Na	/Diagga sirela)				
If additional (non-installation) training						
After you have received your training	a please tick in t	he left column or mark N/A (not	applicable)			
After you have received your training please tick in the left column or mark N/A (not applicable) Transoesophageal (TEE)Transducer Overview						
TEE Transducer Care	one and Minimu	m Patient Weight Guidelines				
TEE Transducer Specification TEE Transducer Cleaning a						
TEE Transducer Compatible	e Pre-Cleaners,	Disinfectants, Accessories and A				
The undersigned accepts that the to						
key participants, who now feel competent to operate the equipment in its intended clinical applications according to the Operators Manuals and to provide training to other users. The checklist summary and evaluation form must be						
completed by customer and Philips representative and copies will be retained by both.						
Authorised customer representative Signature / Title:						
Comments: We trust that this training has been satisfactory. Please feel free to comment in the space provided below						
Philips Healthcare would like to keep you infe email address on a central e-mailing list by ti			e if you give permission for	us to put your		