



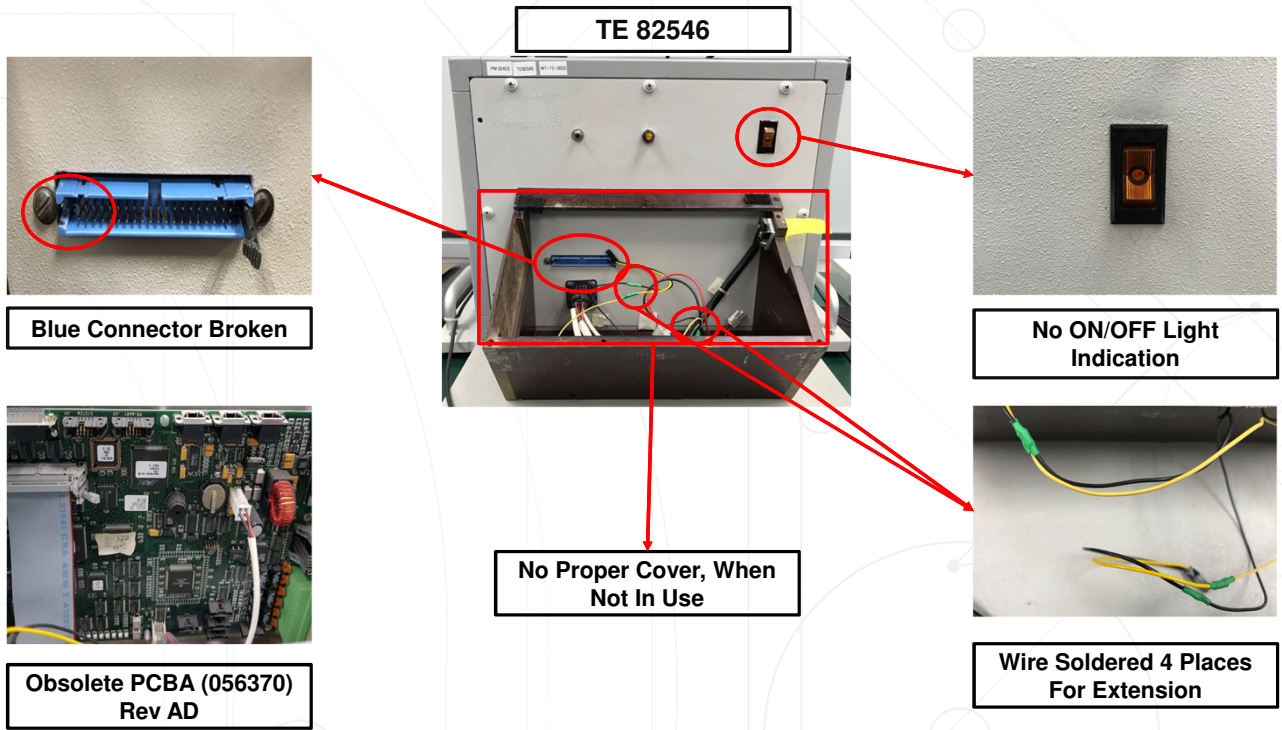
Flex Medical Kallang – Consigned Tool Health Check (eAlliance)

20-Jul-2018

CONFIDENTIAL

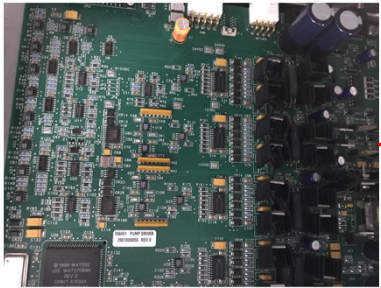
TE 82546 : Front Bezel/Keypad LCD Tester

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics avialable? (Yes/No)	Visual Condition? (Pass/Fail)	ObsolateParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE82546	2690 eAlliance Front Panel Test Station	TE82546	0	NA	No	Fail	Yes	Pass	No	David	Gary	Able to test using Final Test in case tester down	1.) No ON/OFF Light Indication. 2.) No Proper Cover, When Not In Use. 3.) Blue Connector Broken. 4.) Wire Soldered 4 Places For Extension. 5.) Front Panel PCBA (056370) Rev AD is Obsolete.

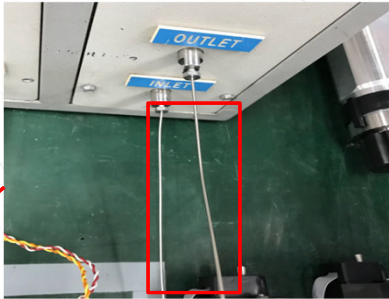


TE 82519 : 2690 Pump Head Tester

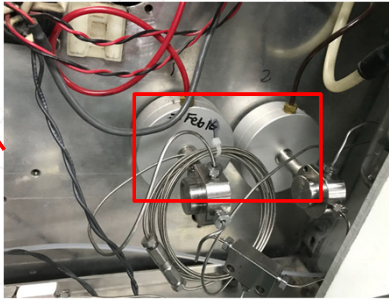
Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsoleteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE 82519	2690 Pump Head Tester	TE 82519	4	1.) Replace Motor Of Degasser 2.) Replace Tubings and Change New Filter. 3.) Replaced tubing from transducer to filter and retightened all tubings 4.) Replaced Dc power cable, reconnect cables to Band replace air switch for valve 1	No	Pass	Yes	Pass	No	David	Gary	Use Pump Tester To Testing	1.) Frequent Change Flow Valve. 2.) Change Inlet/Outlet Tubing Every 2-4Days. 3.) Pump Head Tester PCBA (056451) Rev.0 is Obsolete.



Pump Head Tester OCBA (056451) Rev.0 Is Obsolete



Change Inlet / Outlet Tubing 2-4Days



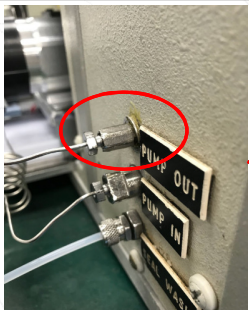
Frequent Change Flow Valve

TE 82526 – 1 : Pump Tray Tester 1

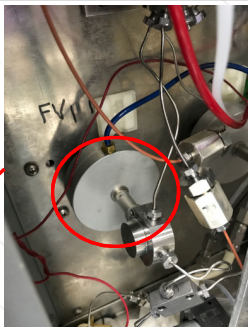
Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsoleteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE82526	2690 Pump Tray Tester	TE82526-1	1	1.) Restart Tester And CPU	No	Fail	Yes	Fail	No	David	Gary	NA	1.) Pump Tray PCBA (056370) Rev AD is Obsolete. 2.) Light Indicator Not Work. 3.) ACCUM Connector Intermittent. 4.) ASFV0 - Air Switch Flow Valve (0) is Obsolete. 5.) Interface Fitting. 6.) Frequent Change Flow Valve Unable To Ramp. 7.) Electronic Weighing Balance Is Obsolete.



Electronic Weighing Balance (Obsolete)



Interface Fitting



Frequent Change Flow Valve



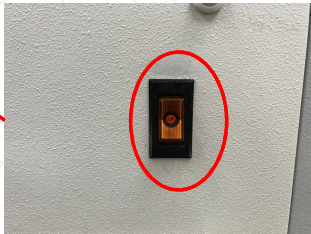
ASFV0 (Obsolete)



PCBA (056370) Rev AD (Obsolete)



ACCUM Connector Intermittent



Light Indicator Not Work

TE 82526 – 2 : Pump Tray Tester 2

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsolteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE82526	2690 Pump Tray Tester	TE82526-2	4	1.) Interface Wear And Tear 2.) Replace Interface Tubing 3.) Restart Tester And CPU 4.) Repair In Progress	No	Fail	Yes	Fail	No	David	Gary	NA	1.) Frequent Charge Flow Valve Unable To Ramp. 2.) Light Indicator Not Work. 3.) Pump Tray PCBA (056370) Rev AD is Obsolete. 4.) ASFV0 - Air Switch Flow Valve (0) is Obsolete. 5.) Interface Fitting. 6.) Electronic Weighing Balance is Obsolete.

Electronic Weighing Balance (Obsolete)

Interface Fitting

PCBA (056370) Rev AD (Obsolete)

TE 82526 - 2

Frequent Change Flow Valve

ASFV0 (Obsolete)

Light Indicator Not Work

TE 82526 – 4 : Pump Tray Tester 3

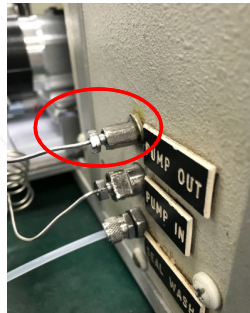
Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics avialable? (Yes/No)	Visual Condition? (Pass/Fail)	ObsolateParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE82526	2690 Pump Tray Tester	TE82526-4	1	1.) Replace New Tester Fan	No	Fail	Yes	Pass	No	David	Gary	NA	1.) Pump Tray PCBA (056370) Rev AD is Obsolete. 2.) ACCUM Connector Broken. 3.) ASFV0 - Air Switch Flow Valve (0) is Obsolete. 4.) Interface Fitting. 5.) UUT Power Light Indicator Not Work. 6.) Frequent Change Flow Valve 7.) Electronic Weighing Balance is Obsolete.



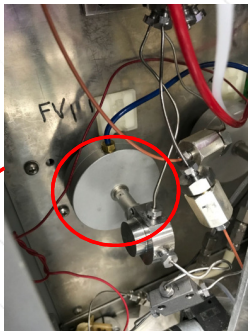
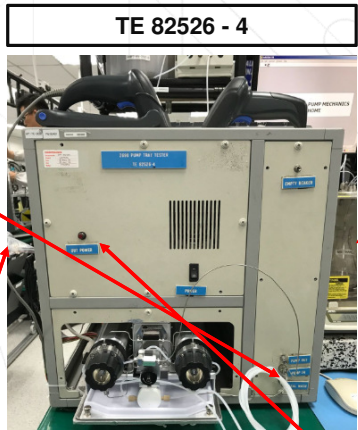
Electronic Weighing Balance (Obsolete)



Interface Fitting



ACCUM Connector Broken



Frequent Change Flow Valve



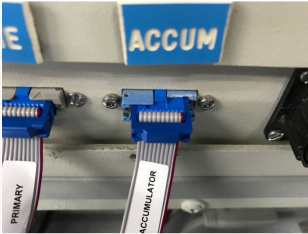
ASFV0 (Obsolete)



UUT Power Light Indicator Not Work



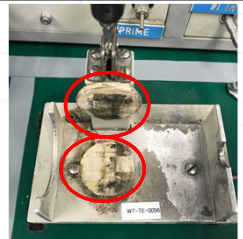
PCBA (056370) Rev AD (Obsolete)



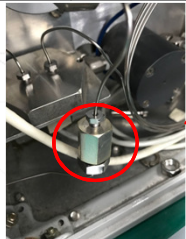
ACCUM Connector Broken

TE 82625 - 1 : HPMV Tester

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsoleteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE 82625-1	HPMV Tester	TE 82625-1	3	1.) Repair Interface Tubing 2.) Reset Power 3.) Clean The Restrictor Line	No	Fail	Yes	Pass	No	David	Gary	Can Use FT To Do Testing	1.) Fitting Spoiled. Replaced With Compatible One. 2.) Frequent Changing Of Tubing Every 2 - 3 Days. 3.) Replace In-line Filter 3 - 6 Month. 4.) Fixture Modified With Tape. 5.) Keypad Not In Good Condition. 6.) Replace Connector PIN When Required. 7.) All HPMV Tester PCBA is Obsolete. 8.) Zilog Microcontroller Is Obsolete.



Fixture Modified With Tape



Replace In-Line Filter 3-6 Month



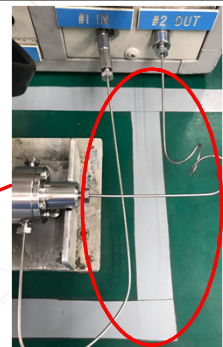
Keypad Not In Good Condition



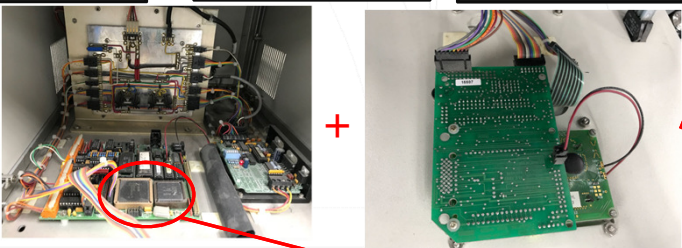
Fitting Spoiled, Replaced With Compatible One



Replace Connector PIN When Required



Frequent Changing Of Tubing Every 2-3 Days



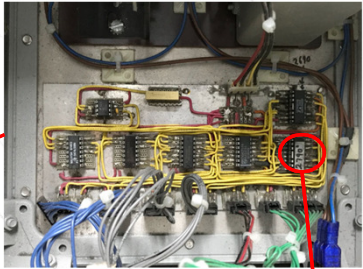
All HPMV Tester PCBA & Zilog Microcontroller (Obsolete)

TE 82656: 2690/2790 Syringe Drive Cell

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsoleteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE82656	2690/2790 Syringe Drive Tester	TE82656	0	NA	No	Pass	Yes	Pass	NO	David	Gary	NA	1.) Connectors Broken & Replaced. 2.) No Longer Building 2790 So 2790 Function Not Required. 3.) Controller IC (UCN5804B) Is Obsolete. 4.) Syringe Tester PCBA is Obsolete.



Connectors Broken & Replaced



Syringe Tester PCBA (Obsolete)

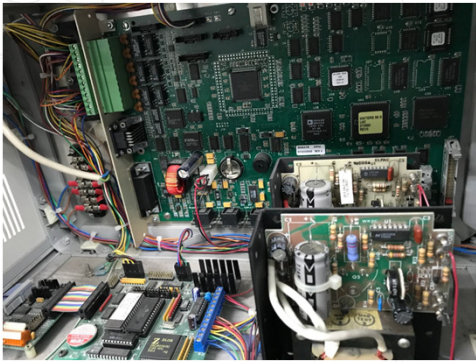
No Longer Building 2790, Function Not Required



Microcontroller (UCN5804B) (Obsolete)

TE 82523:Fluidics Tray Tester

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics avialable? (Yes/No)	Visual Condition? (Pass/Fail)	ObsolateParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE82523	Fluidics Tray Tester	TE82523	2	1.) Rewiring Of Cables Due To Wear And Tear	No	Pass	Yes	Pass	No	Joel	CK	NA	1.) Keypad Not In Good Condition. 2.) All Fluidics Tray Tester PCBA Is Obsolete. 3.) Zilog Microcontroller Is Obsolete.



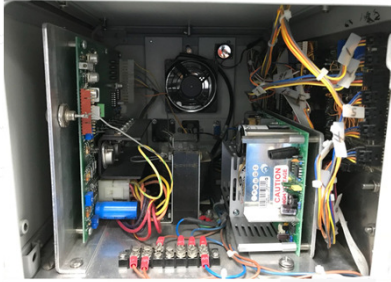
Zilog Microcontroller & All Fluidics Tray tester PCBA (Obsolete)



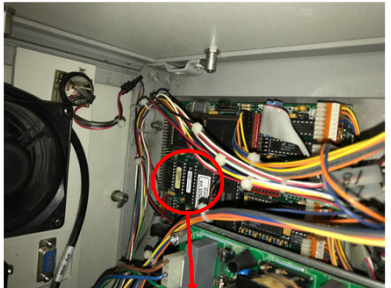
Keypad Not In Good Condition

TE 82503 – 04 : Injector Seal Pack Tester

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsoleteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE 82503-04	Injector Seal Pack Tester	TE 82503-04	4	1.) Replace Interface tubings 2.) re-calibrate and re-tighten tubings and transducers 3.) Replaced 2 filters,tubings and resistor. re-tightened 4.) replaced interface tubing	No	Pass	Yes	Pass	No	Joel	CK	NA	1.) Keypad Not In Good Condition. 2.) Poor Joints For Inlet/Outlet. 3.) All injector Seal Wash Tester PCBA is Obsolete. 4.) Interface Fitting. 5.) Zilog Microcontroller is Obsolete.



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Zilog Microcontroller & All Injector Seal Pack Tester PCBA (Obsolete)



Keypad Not In Good Condition



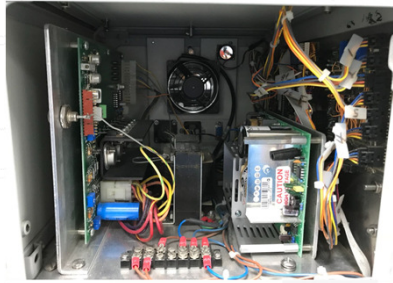
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Interface Fitting & Poor Joints For Inlet/Outlet

TE 82503 – 05 : Injector Seal Pack Tester

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics available? (Yes/No)	Visual Condition? (Pass/Fail)	ObsolateParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
TE 82503-05	Injector Seal Pack Tester	TE 82503-05	3	1.) Repair done on broken connector 2.) replace valve and tubings 3.) Retighten transducer fittings	No	Pass	Yes	Pass	No	Joel	CK	NA	1.) Keypad Not In Good Condition. 2.) Poor Joints For Inlet/Outlet. 3.) All injector Seal Wash Tester PCBA is Obsolete. 4.) Interface Fitting.



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Zilog Microcontroller & All
Injector Seal Pack Tester PCBA
(Obsolete)



Keypad Not In Good
Condition



Interface Fitting &
Poor Joints For
Inlet/Outlet

Lace 32 B08L32122N & C08L32093W : Alliance Programming System & Real Panel Station

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics avialable? (Yes/No)	Visual Condition? (Pass/Fail)	ObsolateParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
NA	Autoloader 2	Lace 32 B08L32122N	0	NA	No	Pass	Yes	Pass	Yes	Joel	CK	NA	1.) Operating System is Obsolete (Window XP)
TE82573-1	NA	Lace 32 C08L32093W	0	NA	No	Pass	Yes	Pass	Yes	Joel	CK	NA	1.) Operating System is Obsolete (Window XP)



Lace 32
C08L32093W

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OS is Obsolete (Window XP)



Lace 32
B08L32122N

CPU : All eAlliance Final Test

Customer ID	Equipment	Serial No.	No of occurrences of Down time	Action Taken	Schematics avialable? (Yes/No)	Visual Condition? (Pass/Fail)	ObsoleteParts? (Yes/No)	Abnormality/ Intermittent? (Pass/Fail)	Critical to Line Down? (Yes/No)	Checked By	Reviewed By	Remarks	Additional Remarks
IBM	CPU	C12L32255W KKPRA3T M11L32097W H10L32039W C12L32205W A14L32340W	0	NA	No	Pass	Yes	Pass	No	Joel	CK	NA	1.) Operating System is Obsolete (Window XP) 2.) Shortage Of TCM 1

OS is Obsolete (Window XP)



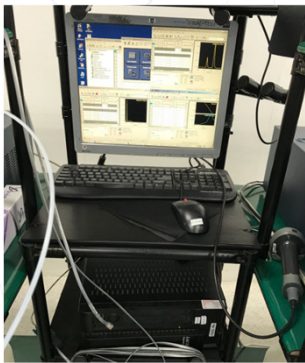
C12L32255W

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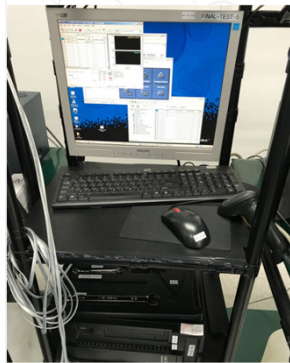
KKPRA3T

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M11L32097W

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H10L32039W

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C12L32205W

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A14L32340W



Shortage Of TCM 1

The background is a dark blue gradient with a complex pattern of thin, light blue and orange geometric lines. These lines form various shapes including rectangles, circles, and arcs, some of which are interconnected. Small dots in orange and blue are scattered throughout, often at the intersections of the lines. The overall aesthetic is technical and modern.

THANK YOU

flex