

# DYNA-KIT COMMUNICATION ADAPTER

## TCB-DK01SS-E

*Connection Instructions*



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# COMMUNICATION ADAPTER: TCB-DK01SS-E



**Kit Accessories:**  
Owners Manual, CD, USB & Serial PC  
Connection Cables



**Connection Adaptor  
Internal View**



**Connection Cables  
Type 'A', 'B', 'C'**



**Connection Adaptor**



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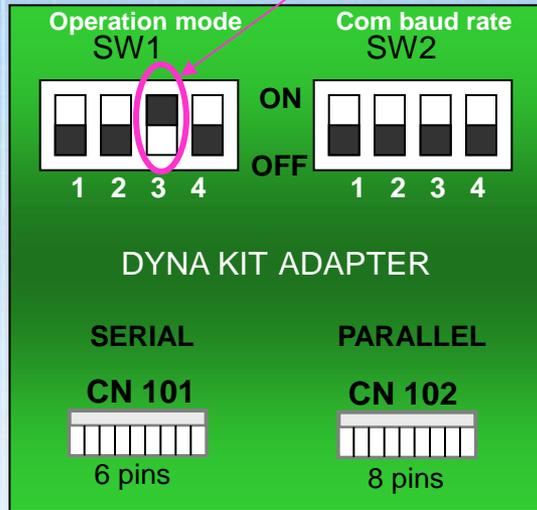


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# DI / SDI / MULTI SPLIT CONNECTION - 8 PIN

Operation Mode Setting: **Parallel**  
SW1: Bit 3 = ON



## Outdoor Unit Model Code

### DI (RAV-)

SM800AT-E  
SM1100AT-E  
SM1101AT-E  
SM1102AT-E  
SM1103AT-E  
SM1400AT-E  
SM1401AT-E  
SM1402AT-E  
SM1403AT-E  
SM1603AT-E

### SDI (RAV-)

SP560AT-E  
SP562AT-E  
SP800AT-E  
SP802AT-E  
SP1100AT-E  
SP1102AT-E  
SP1400AT-E  
SP1402AT-E

### IES (RAS-)

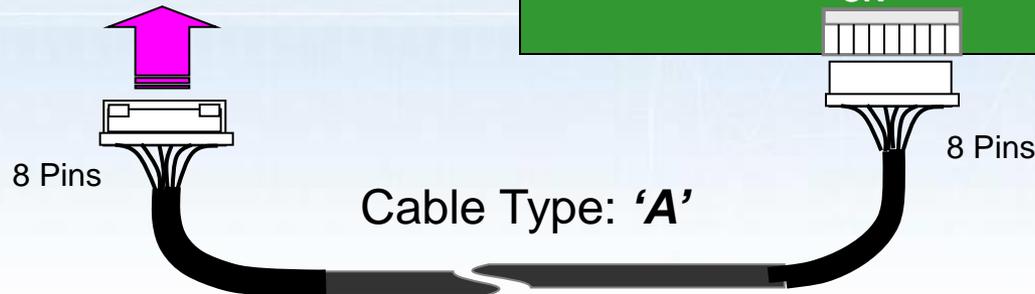
M18YAV  
M18YACV  
3M23YACV  
3M26YACV  
4M27YAV  
4M27YACV  
4M30YACV  
4M27GAV  
4M27GACV  
3M18SAV  
3M18SACV  
3M20SACV  
4M23SAV  
4M23SACV  
4M26SACV

CN 800

CN 801

CN \*\*\*

CN 801



Communication Type: **Parallel**



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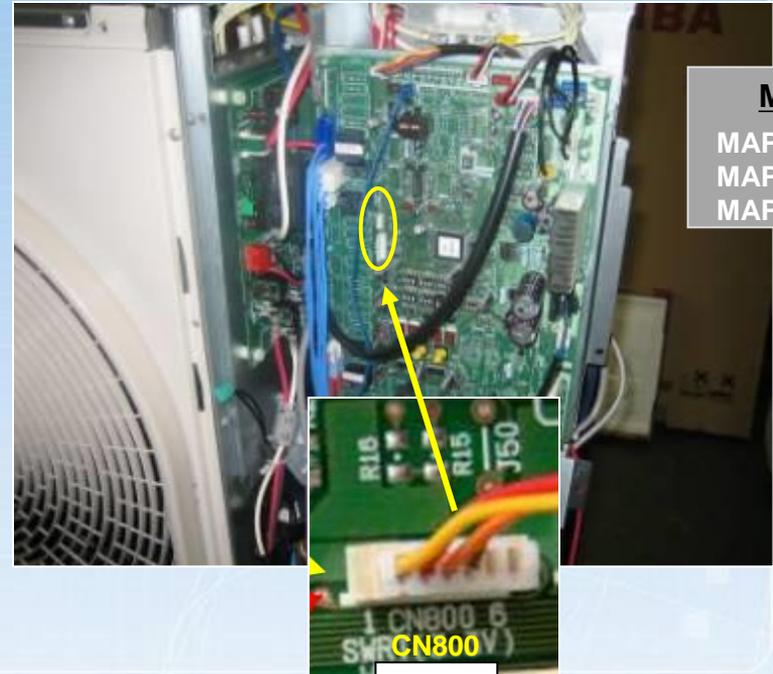
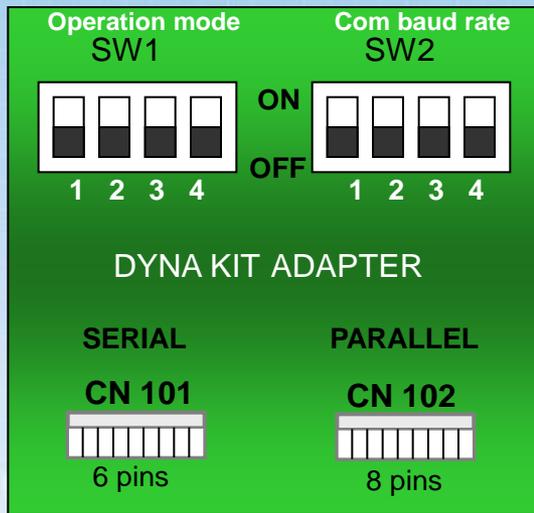


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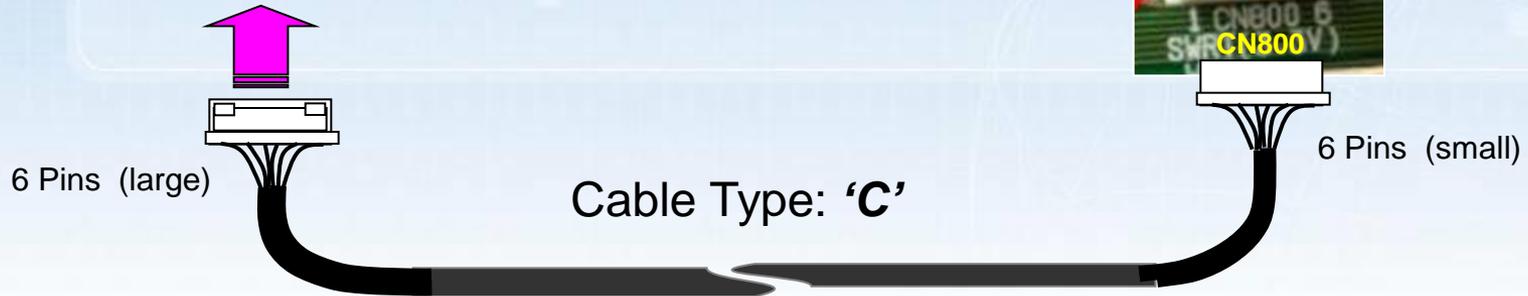


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## MINI-SMMS CONNECTION

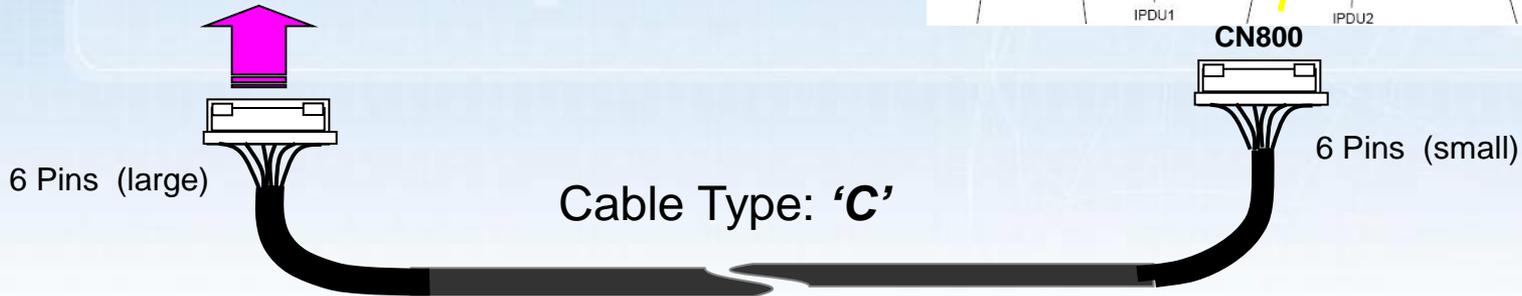
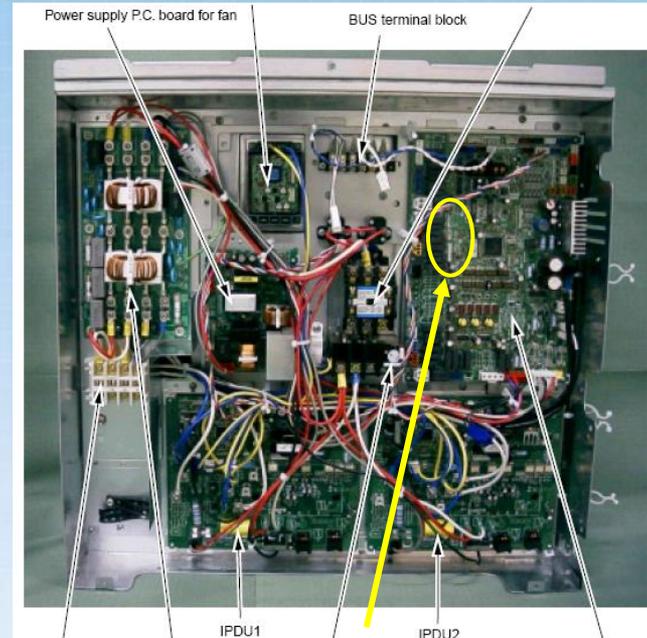
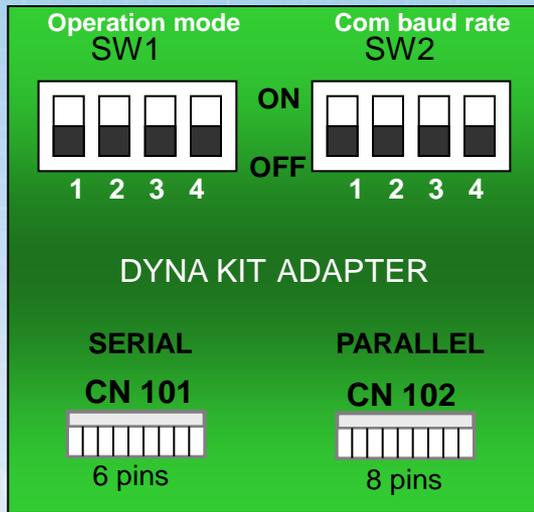


**MCY-**  
MAP0401HT  
MAP0501HT  
MAP0601HT



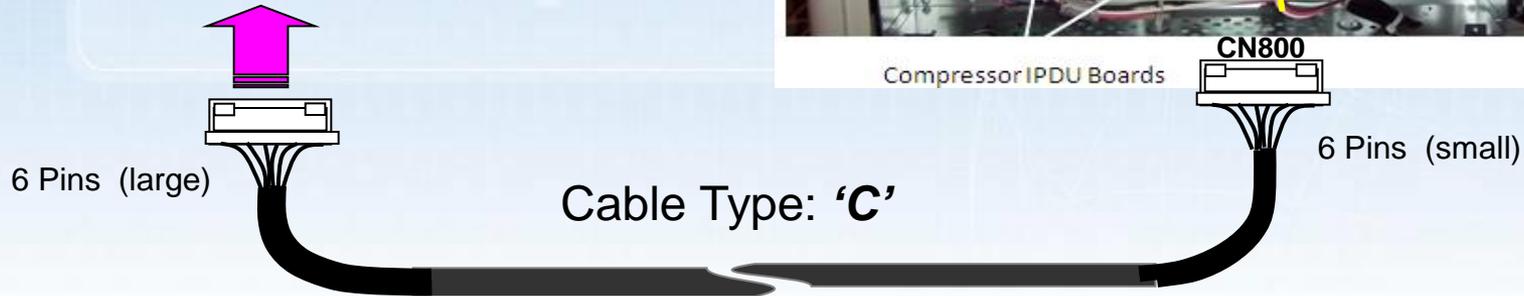
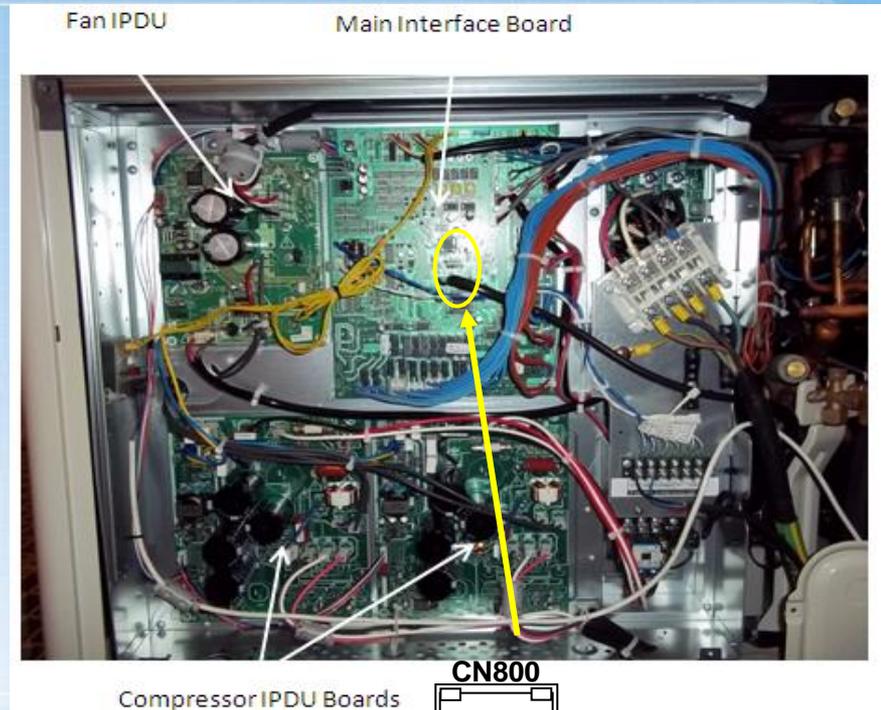
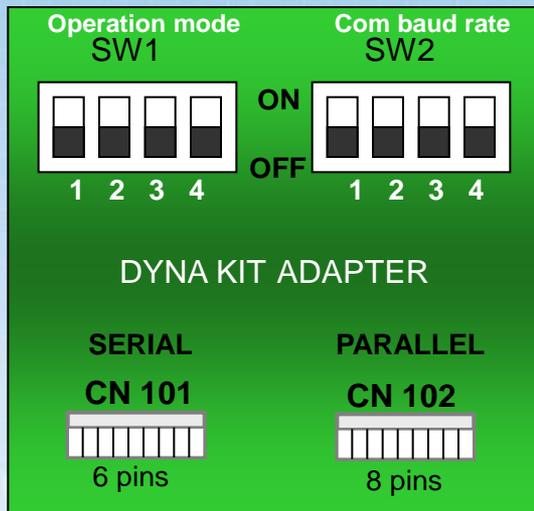
Communication Type: Serial

# SMMS / SHRM CONNECTION



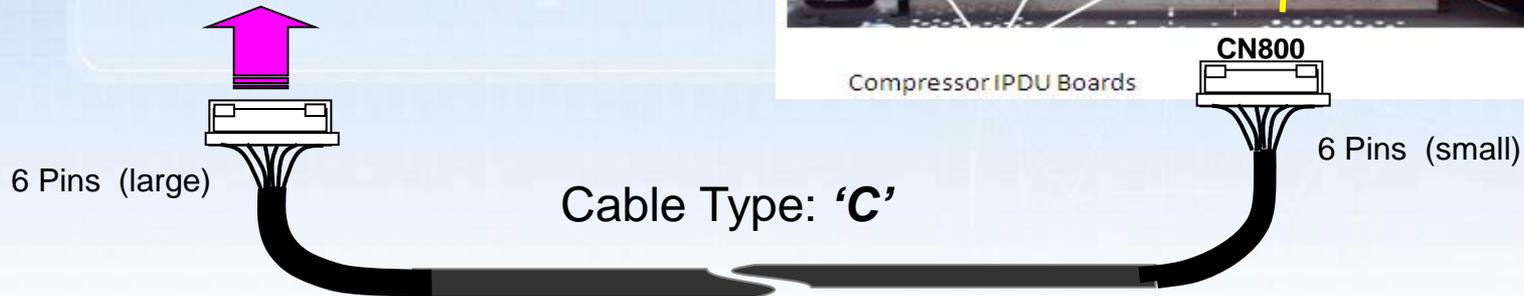
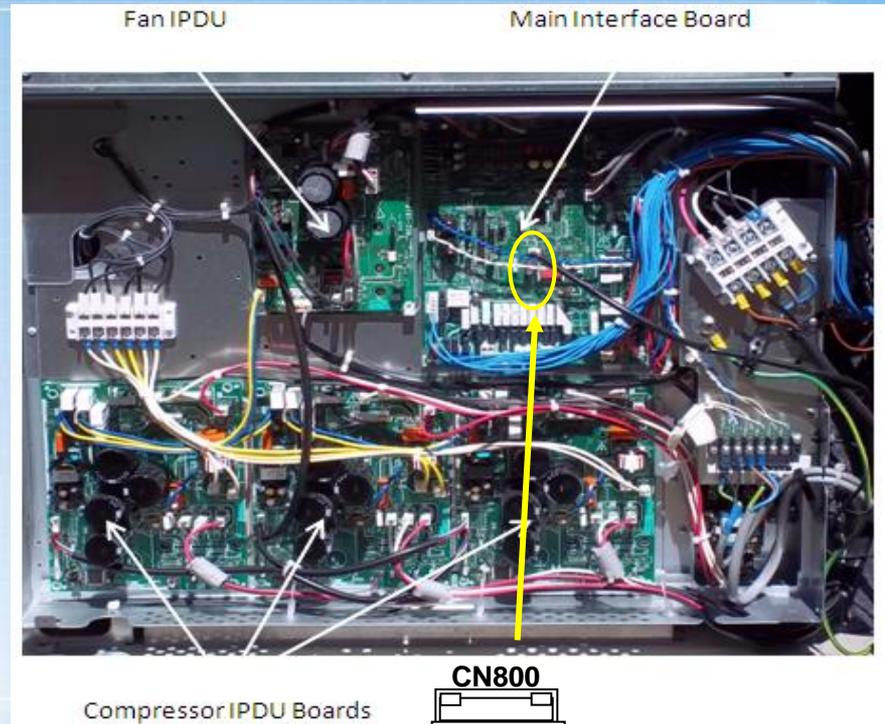
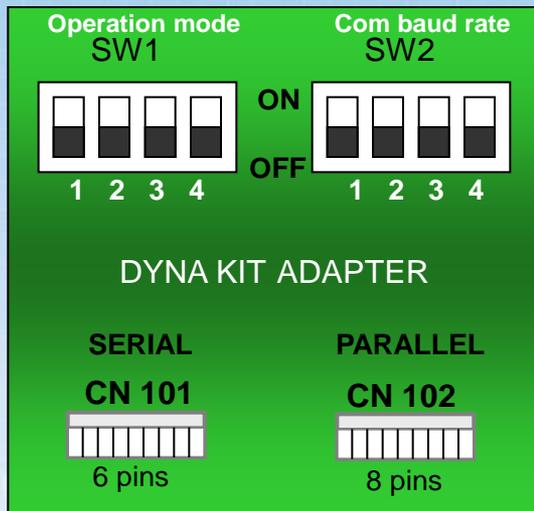
Communication Type: **Serial**

## SMMSi CONNECTION 8,10 &12Hp



Communication Type: **Serial**

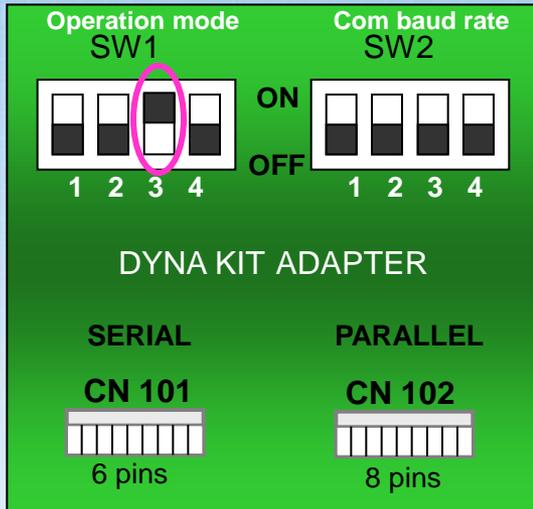
# SMMSi CONNECTION 14 & 16Hp



Communication Type: **Serial**

## MMS CONNECTION

Operation Mode Setting: **Parallel**  
SW1: Bit 3 = ON



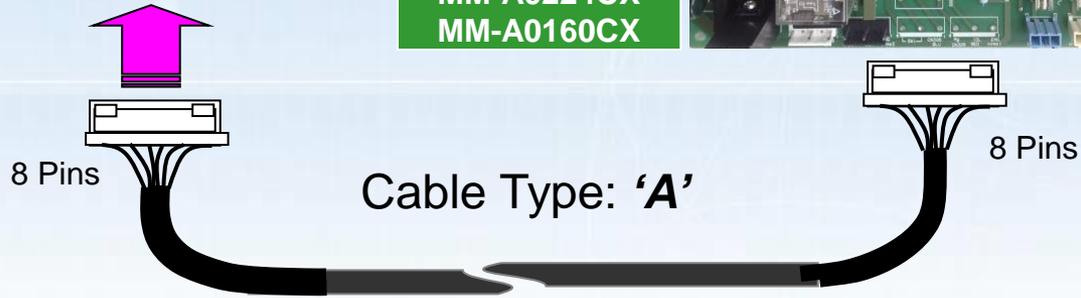
**HEAT PUMP**  
MM-A0280HT  
MM-A0280HX  
MM-A0224HT  
MM-A0224HX  
MM-A0160HX

**COOLING ONLY**  
MM-A0280CT  
MM-A0280CX  
MM-A0224CT  
MM-A0224CX  
MM-A0160CX



CN801  
System Data

CN800  
Outdoor Data



Communication Type: **Parallel**



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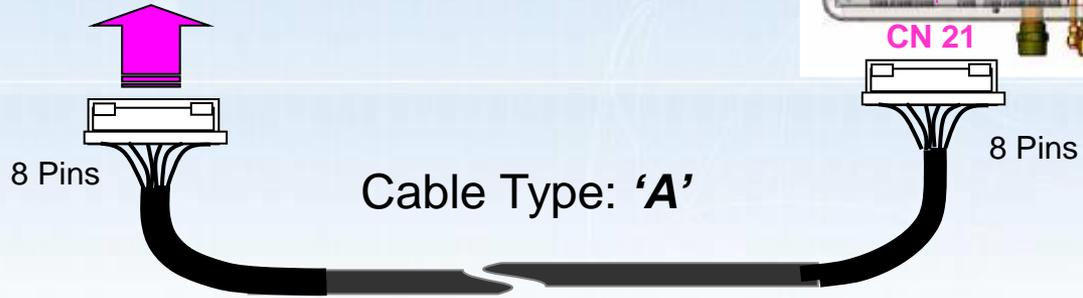
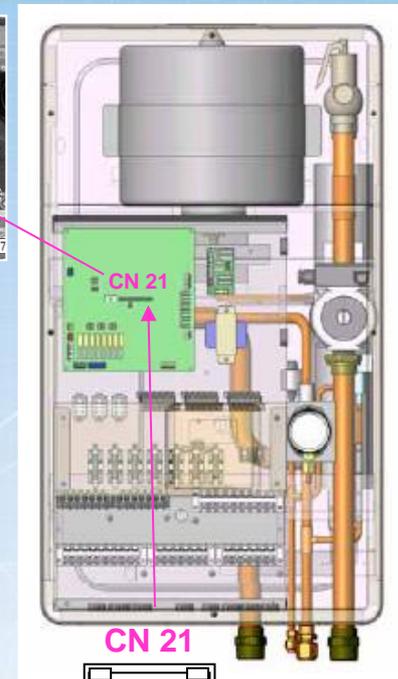
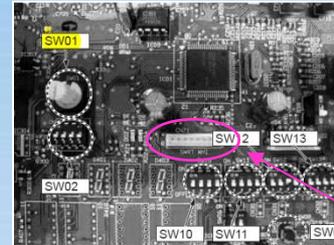
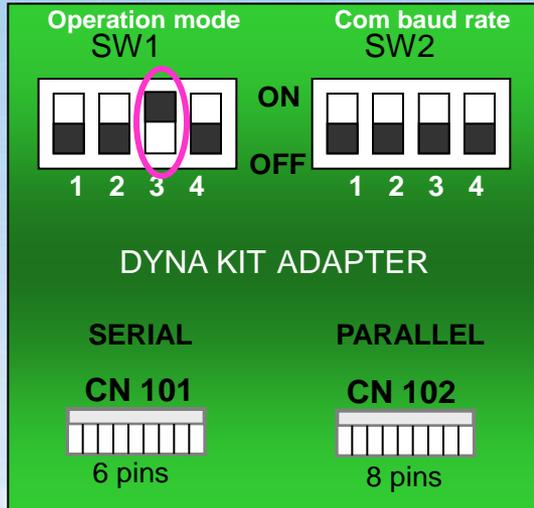
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# ESTIA : HYDRO UNIT CONNECTION

Operation Mode Setting: **Parallel**  
SW1: Bit 3 = ON



Communication Type: **Parallel**

## General Information: DK01SS-E

### USB Connection

The USB driver is not supplied for Dyna Doctor, the driver can be download free of charge from the website link below:

URL : <http://www.ftdichip.com/FTDrivers.htm>

**Device Name : FT232R**

The screenshot shows the FTDI Chip website. The header includes the FTDI Chip logo and the text 'Future Technology Devices International Ltd. USB Device Solutions ASIC Design Product Design'. A navigation menu on the left lists: Home, Products, Drivers (with sub-items VCP, D2XX, 3rd Party Drivers), Documents, Resources, Projects, Support, Knowledgebase, Sales Network, Web Shop, Design Services, Corporate, Press, FTDI Newsletter, and Contact. The main content area has two sections: 'Virtual COM Port Drivers' and 'VCP Drivers'. The 'Virtual COM Port Drivers' section states: 'This page contains the VCP drivers currently available for FTDI devices. For D2XX Direct drivers, please click [here](#). Installation guides are available from the [Installation Guides](#) page of the [Documents](#) section of this site for selected operating systems.' The 'VCP Drivers' section states: 'Virtual COM port (VCP) drivers cause the USB device to appear as an additional COM port available to the PC. Application software can access the USB device in the same way as it would access a standard COM port. FTDI device drivers may be used only in conjunction with products based on FTDI parts. The driver may be distributed in any form as long as our license information is not modified. If a custom Vendor ID and/or Product ID or description string are used, it is the responsibility of the product manufacturer to maintain any changes and subsequent WHQL re-certification as a result of using these changes.' At the bottom, there is a table with columns: Operating System, Devices Supported, Driver Version, Release Date, and Comments. The first row shows 'Windows Server 2008 R2'.

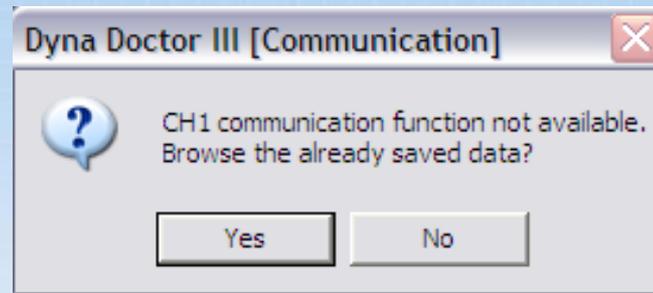
### DYNA-KIT connection to a PC via RS-232C.

When you connect DYNA-KIT to a PC via RS-232C, you also need a USB connection to provide a power supply of 5volts DC.





## DYNA DOCTOR COMMUNICATION CONNECTION ERROR



Above alert indicates that the USB COM port of the PC and Dyna Doctor Software Program do not match.

For a resolution, follow process detailed on next slide.



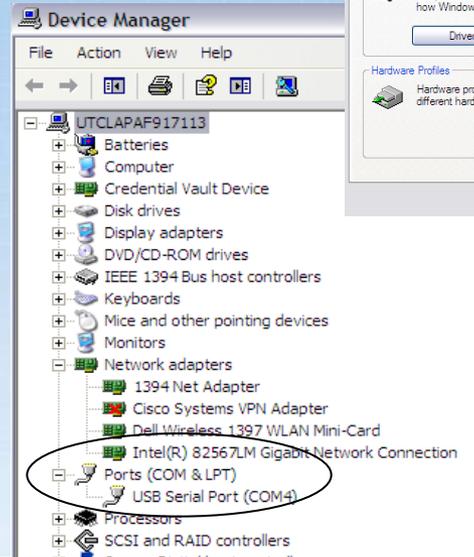
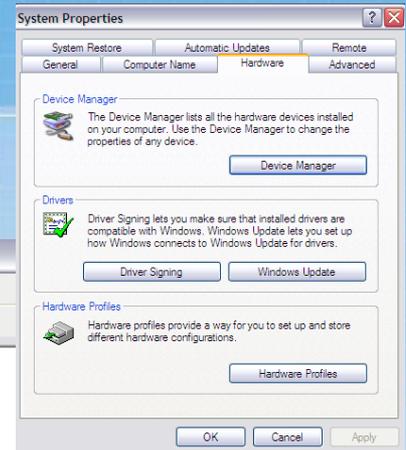
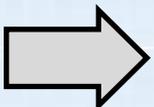
**STEP 1**  
Access Device Manager on your PC



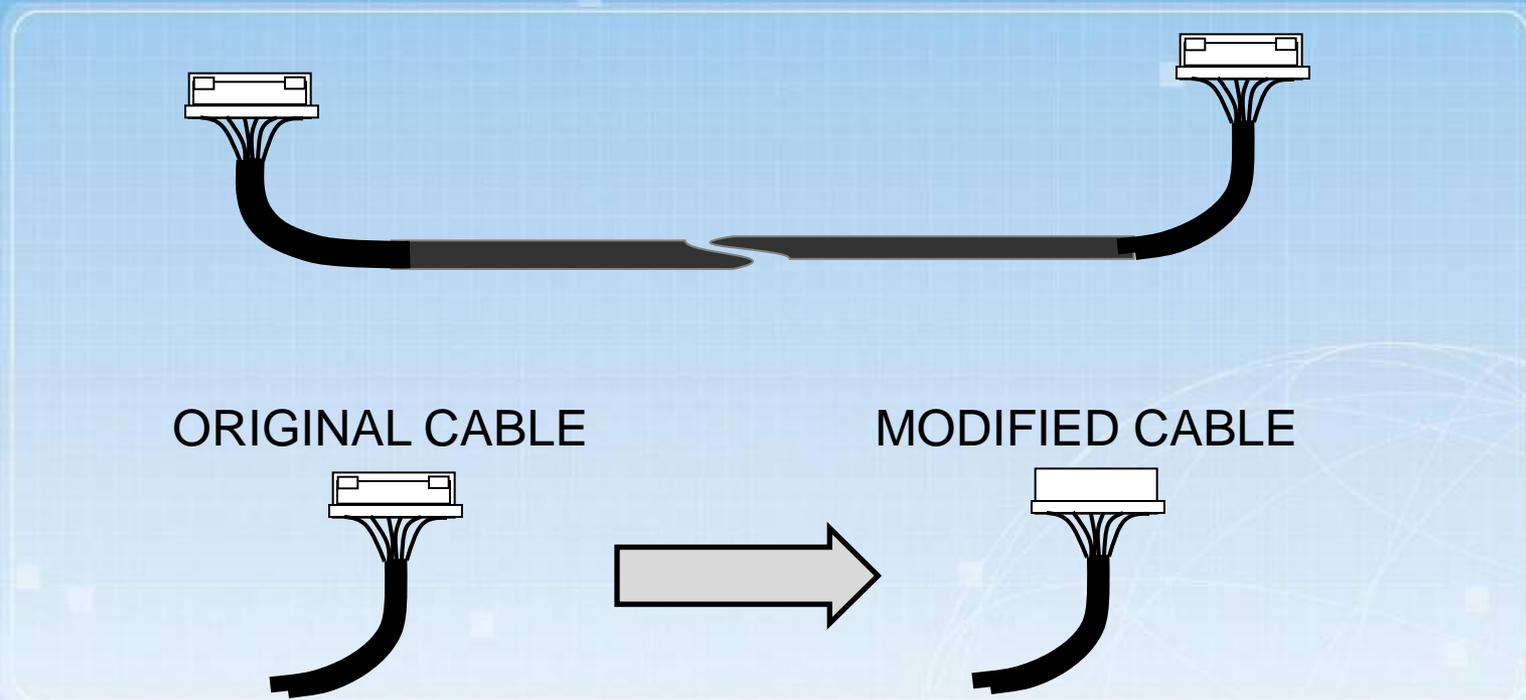
**STEP 2**  
Open 'PORTS' menu Check assigned port Number (COM?)



**STEP 3**  
Dyna Doctor Menu, select 'setup' from the 'file' drop down menu & select the relevant COM port.



## CONNECTION CABLE MODIFICATION



Modified Cables = location lugs (x2) have been removed to enable the universal Outdoor PCB connection to the relevant discontinued Toshiba products.



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Cable for applicable model

Connector			Production	Model name						
				DI		SDI		IES		A2W
A'	Old 8Pin		Until about May, 2009	RAV-SM800AT	RAV-SM1400AT	RAV-SP560AT	RAV-SP1100AT	RAS-M18YAV	RAS-4M27GAV	
				RAV-SM1100AT	RAV-SM1401AT	RAV-SP562AT	RAV-SP1102AT	RAS-M18YACV	RAS-4M27GACV	
				RAV-SM1101AT	RAV-SM1402AT	RAV-SP800AT	RAV-SP1400AT	RAS-3M23YACV	RAS-3M18SAV	
				RAV-SM1102AT	RAV-SM1403AT	RAV-SP802AT	RAV-SP1402AT	RAS-3M26YACV	RAS-3M18SACV	
				RAV-SM1103AT	RAV-SM1603AT			RAS-4M27YAV	RAS-3M20SACV	
						RAS-4M27YACV	RAS-4M23SAV			
						RAS-4M30YACV	RAS-4M23SACV			
						RAS-4M26SACV				
A	New 8Pin		Since about May, 2009	RAV-SM1102AT	RAV-SM1402AT	RAV-SP562AT		RAS-4M27GAV		
				RAV-SM1103AT	RAV-SM1403AT	RAV-SP802AT		RAS-4M27GACV		
								RAS-3M18SAV		
								RAS-3M18SACV		
								RAS-3M20SACV		
								RAS-4M23SAV		
								RAS-4M23SACV		
								RAS-4M26SACV		
			From first lot						HWS-802XWH	
									HWS-1402XWH	
B'	Old 6Pin		Until about May, 2009	RAV-SM560AT	RAV-SM801AT	RAV-SP404AT	RAV-SP804AT	RAS-M14EAV	RAS-M14GAV	
				RAV-SM561AT	RAV-SM802AT	RAV-SP454AT	RAV-SP1104AT	RAS-M14EACV	RAS-M18GAV	
				RAV-SM562AT	RAV-SM803AT	RAV-SP564AT	RAV-SP1404AT	RAS-M18EAV		
				RAV-SM563AT	RAV-SM2244AT		RAV-SP1604AT	RAS-M18EACV		
B	New 6Pin		Since about May, 2009	RAV-SM562AT	RAV-SM802AT	RAV-SP404AT	RAV-SP804AT		RAS-M14GAV	
				RAV-SM563AT	RAV-SM803AT	RAV-SP454AT	RAV-SP1104AT		RAS-M18GAV	
					RAV-SM2244AT	RAV-SP564AT	RAV-SP1404AT			
					RAV-SM2804AT		RAV-SP1604AT			



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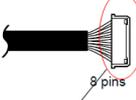
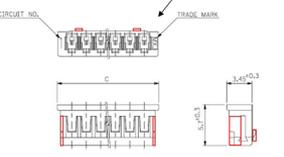
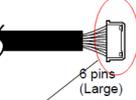
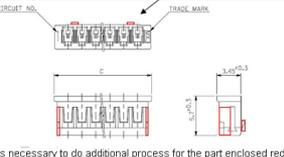
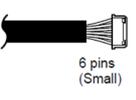


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DYNA-KIT

Owner's Manual

## Attached Cable and the table of applicable model

Cable type	Appearance		Applicable model name				Communication
	DYNA-KIT side	Air conditioner side	Production Since about May, 2009	DI (RAY)	SDI (RAY)	IES (RAS)	
A	 <p>8 pins</p>	 <p>8 pins</p>	Production Since about May, 2009 SM1102AT SM1103AT SM1402AT SM1403AT SM1603AT	DI (RAY) SP562AT SP802AT	SDI (RAY) 4M27GAV 4M27GACV 3M18SAV 3M18SACV 3M20SAV 4M23SAV 4M23SACV 4M26SACV	IES (RAS) 4M27GAV 4M27GACV 3M18SAV 3M18SACV 3M20SAV 4M23SAV 4M23SACV 4M26SACV	
A'	 <p>CIRCUIT NO. TRACK MARK</p> <p>It is necessary to do additional process for the part enclosed red.</p>		Production Since about May, 2009 SM800AT SM1100AT SM1101AT SM1102AT SM1103AT SM1400AT SM1401AT SM1402AT SM1403AT SM1603AT	DI (RAY) SP560AT SP562AT SP800AT SP802AT SP1100AT SP1102AT SP1400AT SP1402AT	SDI (RAY) M18YAV M18YACV 3M23YACV 3M26YACV 4M27YAV 4M27YACV 4M30YACV 4M27SAV 4M27GACV 3M18SAV 3M18SACV 4M23SAV 4M23SACV 4M26SACV	IES (RAS) M18YAV M18YACV 3M23YACV 3M26YACV 4M27YAV 4M27YACV 4M30YACV 4M27SAV 4M27GACV 3M18SAV 3M18SACV 4M23SAV 4M23SACV 4M26SACV	
B	 <p>6 pins (Large)</p>	 <p>6 pins (Large)</p>	Production Since about May, 2009 SM562AT SM563AT SM802AT SM803AT SM2244AT SM2804AT	DI (RAY) SP444AT SP454AT SP564AT SP804AT SP1104AT SP1404AT SP1804AT	SDI (RAY) M14GAV M18GAV	IES (RAS) M14GAV M18GAV	
B'	 <p>CIRCUIT NO. TRACK MARK</p> <p>It is necessary to do additional process for the part enclosed red.</p>		Production Since about May, 2009 SM560AT SM561AT SM562AT SM563AT SM801AT SM802AT SM803AT SM2244AT SM2804AT	DI (RAY) SP444AT SP454AT SP564AT SP804AT SP1104AT SP1404AT SP1804AT	SDI (RAY) M14EAV M14EACV M18EAV M18EACV M14GAV M14GACV M18GAV	IES (RAS) M14EAV M14EACV M18EAV M18EACV M14GAV M14GACV M18GAV	
c	 <p>6 pins (Large)</p>	 <p>6 pins (Small)</p>	Mini SMMS (CDU) SMMS (CDU) SHRM (CDU)				



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