


8.1 Messages

When the equipment sends a notification, it displays a message on the touch panel.

When a message is displayed, press the RESET key to close the message screen and then take the remedy for the message.



8.1.1 Messages Related to the X-ray High Voltage Generator

What to do if the  (fault indicator) on the operation panel appears and one of the following error messages is displayed. Radiographic operation is not possible while an error message appears on the sub-display.

Message	Problem	Remedy
Radio Over Current	Radiography tube current exceeded set value by +200 mA.	If this message appears repeatedly, contact your Shimadzu service representative.
Fluo Over Current	Fluoroscopy tube current exceeded approx. 9 mA.	
Line Voltage OVER	Supply voltage exceeded permitted range.	Contact your Shimadzu service representative.
Charge Volt ERR	Abnormal charging voltage of primary smoothing capacitor.	
Measured kV OVER	Measured tube voltage exceeded permitted range.	If this message appears repeatedly, contact your Shimadzu service representative.
Starter ERR	Abnormal starter.	
I.F. OVER	Abnormal filament heating current.	
Filament not ready		
Power Down	Abnormal control circuit supply voltage.	Contact your Shimadzu service representative.
H. V. T not connected	Abnormal connection to high-voltage transformer.	
Arcing Trouble	Repeated arcing occurred.	
Board status ERR	Abnormal control board.	
Starter is not working	Starter is not working when fluoroscopy.	

8.1.2 Messages Related to the Radiography Conditions

One of the following messages is displayed. Radiographic operation is not possible while a message appears on the sub-display.


Message	Problem	Remedy
mAs OVER	mAs value exceeded 800 mAs.	Change the set value.
mAs too small	mAs value was less than 0.5 mAs. Or, tube current was below minimum value for mAs setting method.	
Emission OVER	Emission characteristics out of range.	Increase radiography tube voltage or reduce radiography tube current.
Generator Load OVER	Equipment ratings exceeded.	Decrease radiography tube voltage or increase radiography tube current.
mAs/Time OVER	mAs value too large and radiography time exceeded 10 s. Or, radiography time exceeded permitted range.	Reduce the set value.
2 control range over	Setting out of range for mAs setting method.	

8.1.3 Messages Related to the X-ray Tube Heat Units

One of the following messages is displayed. Radiographic operation is not possible while a message appears on the sub-display.

Message	Problem	Remedy
HU OVER Predicted	Value predicted to go out of range if the heat units increase from the current heat unit value according to the set radiography conditions.	Change the radiography conditions or cease operation until heat unit value reduces.
HU Full Stored	Heat units reached the permitted limit.	Cease operation until heat unit value reduces.
Thermal Over	X-ray tube unit temperature exceeded the permitted limit.	

8.1.4 Messages at Power ON

Message	Problem	Remedy
Panel Battery WARNING	The data recording battery in the operation panel must be replaced soon.	Contact your Shimadzu service representative.
Cabinet Battery WARNING	The data recording battery in the Control cabinet must be replaced soon.	
Panel Battery EMPTY	The data recording battery in the operation panel is empty.	
Cabinet Battery EMPTY	The data recording battery in the Control cabinet is empty.	
X-ray switch ERR	The X-ray switch or the hand switch is kept being pushed.	
Fluo switch ERR	The fluoroscopy foot switch is kept being pushed.	
X-ray Foot Switch ERR	The foot switch (option) is kept being pushed.	
Installation incomplete! Please contact your service personnel. X-ray will be disabled after hours below. XXX*1 hours	The equipment installation is not completed. The exposure will be inhibited after the displayed time elapsed.	Turn the power off and then restart the equipment. If the code appears repeatedly, contact your Shimadzu service representative.
DAP meter error	Cannot communicate with the dosimeter.	
Make sure the Quick ready key on the touch panel is OFF before turning off the power. Turning off the power while the Quick ready key is still ON or blinking may shorten the life of the X-ray tube assembly.	The power was turned off while the X-ray tube unit was rotating at high speed.	Confirm that the X-ray tube unit is not rotating at high speed before turning the power off.  Reference 5.5.2 "Canceling Quick Ready"

*1: "XXX" shows the remaining time.

8.1.5 Messages Related to Communication and Radiography Conditions (optional)

This error can occur only if the optional communication unit is installed.

One of the following messages is displayed. Radiographic operation is not possible while a message appears on the sub-display.

Message	Problem	Remedy
Data transfer from the DR unit has been canceled. An exposure will be made with unintended X-ray conditions. Check the X-ray conditions displayed.	The information transferred from the DR unit was canceled.	Check whether X-ray conditions corresponds to the respected exposure region. If not, set correct the X-ray conditions.
Communication ERR		

8.1.6 Other Messages

One of the following messages is displayed. Radiographic operation is not possible while a message appears on the sub-display.

Message	Problem	Remedy
F Opt device ERR	Abnormal optical system during fluoroscopy.	Contact your Shimadzu service representative.
R Opt device ERR	Abnormal optical system during radiography.	
Door/Interlock	The examination room door is open.	Close the door.
AEC OVER	AEC failed and AEC backup was used during AEC radiography.	Extend the radiographic time.
Ready Up Time Over	Ready-up status continues for a long time even after the Ready-up operation is complete.	Cancel the Ready-up status.
Table is not ready.	The R/F table is not ready because I.I. is retracting, etc.	Confirm the settings of the R/F table.

8 Troubleshooting

Message	Problem	Remedy
CH Communication ERR (Ready Up)	Communication error with the CH-200 may have blocked the Ready-Up notice from the CH-200.	Contact your Shimadzu service representative.
CH Communication ERR (X-ray)	Communication error with the CH-200 may have blocked the radiography completion notice from the CH-200 after radiography.	