

Masterfile Documentation

T2000 Maintenance Manual 6/10

DOCUMENTATION REVISION LEVEL										
00	01	02	03	04	05	06	07	08	09	
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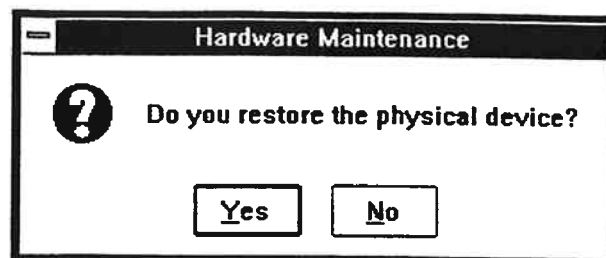
[POST-PROCEDURE a]

— OUTLINE —

- ① Execute CUDG on P-DEV.
- ② Specify recovery.
- ③ Copy back
- ④ Reset ORM Error Count on the P-DEV.
- ⑤ Reset Threshold Counter
- ⑥ SIM Complete

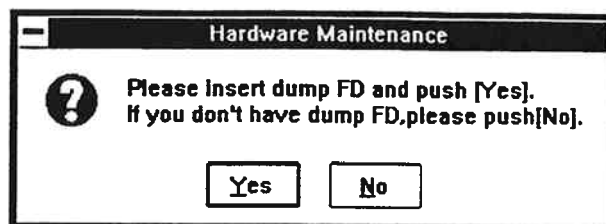
1. <Check the beginning of recovery>

Select [Yes] (CL) in response to "Do you restore the physical device?"



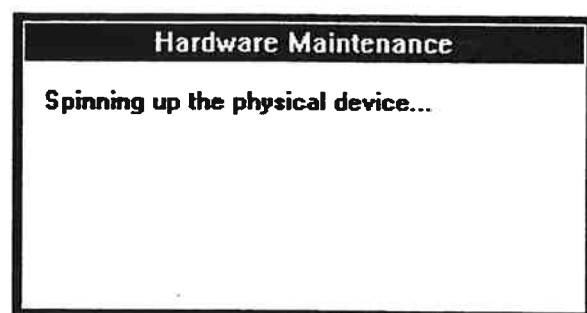
Please insert floppy disk and select [Yes] (CL).

Failure information of the physical device is written to the floppy disk.



2. <Spin up the Physical Drive>

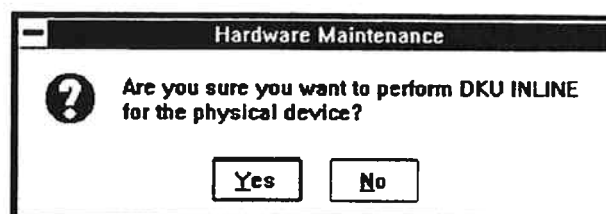
"Spinning up the physical device..." is displayed.



3. <DKU INLINE>

[In case of Isolation and Recovery Procedures for Common SCSI Bus Error (TRBL05-30):]

Select [No] in response to "Are you sure you want to perform DKU INLINE for the physical device?"



[In case of PDEV replace only:]

"DKU INLINE is now running..." is displayed.

Notes: In case of RAID 0, go to REP04-25.

<In case of RAID0>

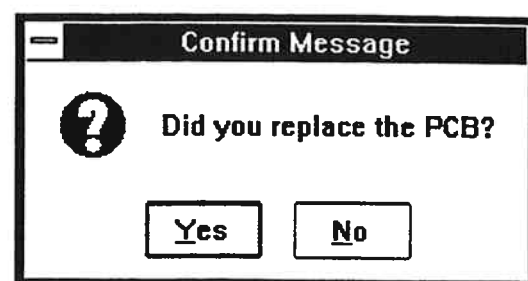
(1) <Confirm of replace the PCB>

Display of "Did you replace the PCB?".

In case of replaced the PCB, select (CL) [Yes].

In case of not replaced the PCB, select (CL) [No].

(Go to 4 on REP04-30.)



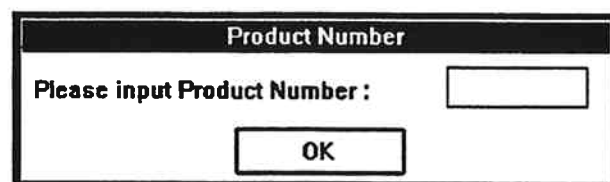
(2) <Insert FD>

Select (CL) [OK] in response to "Please insert FD for drive A:" after insert FD (Phase data only).



(3) <Input Product Number>

Select (CL) [OK] after input Product Number.

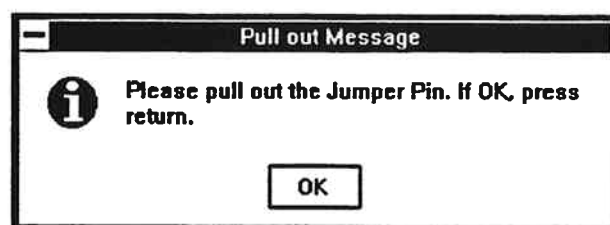


Notes: In case of invalid Product Number, select (CL) [Yes].
Return to (2).

(4) <Pull out the CONNASSY (JMP)>

Select (CL) [OK] in response to "Please pull out the Jumper Pin. If OK, press return." after pull out and insert the CONNASSY (JMP).

Go to 4 on REP04-30



Notes: In case of error in C1 Link Series (Refer to DIAGNOSIS SECTION), go to (5).

(5) <Replace to the former PCB>

Select (CL) [OK] in response to "Please replace to the former PCB. If OK, press return." after replaced the unit.

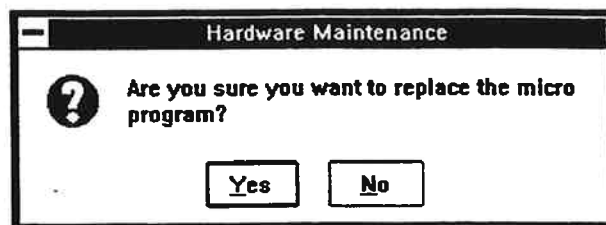
Go to 4 on REP04-30



4. <Replacement of the DKU micro-program>

[In case of Isolation and Recovery Procedures for Common SCSI Bus Error (TRBL05-30):]

Select [No] (CL) in response to "Are you sure you want to replace the micro program?".

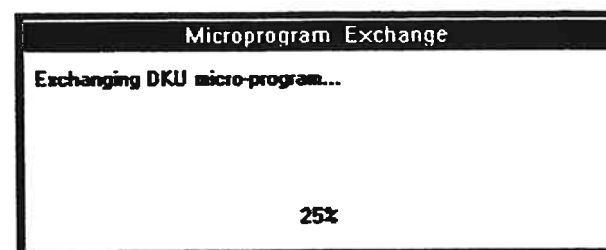
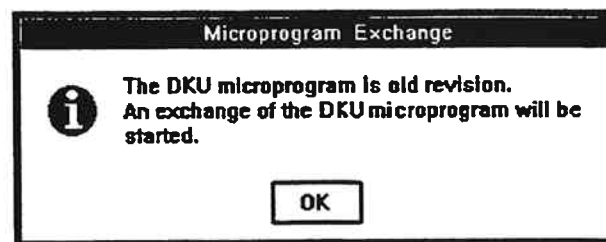


[In case of PDEV replace only:]

When the revision of the DKU micro-program in the SVP hard disk is newer than that in the PDEV, the following message appears on the screen.

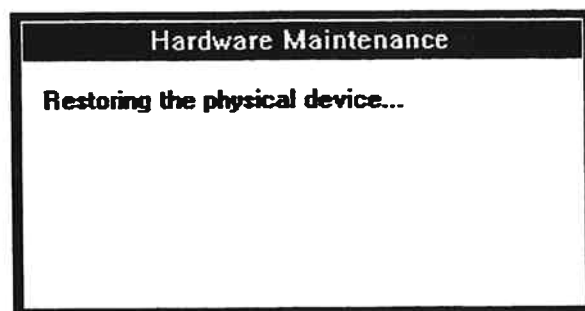
"The DKU microprogram is old revision. An exchange of the DKU microprogram will be started."

Select [OK] (CL). The message "Exchanging DKU micro-program..." appears.



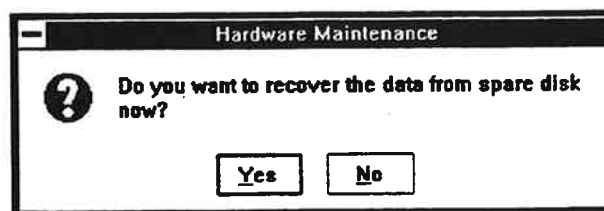
5. <Restore Physical Drive>

"Restoring the physical device..." is displayed.



6. <Check beginning of copyback>

Select [OK] (CL) in response to [Copy back?].



7. <Check end of copyback>

Select [OK] (CL) in response to

"Recovering the data from spare disk has started."

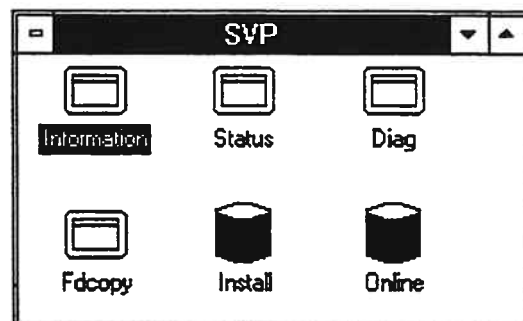


8.

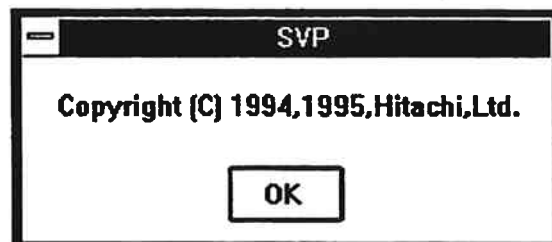
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9. <Resetting ORM Error Counter>

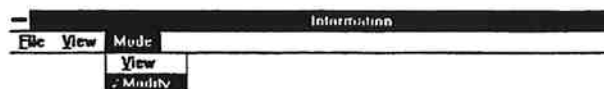
(1) Select (DC) the [Information] icon in the 'SVP' window.



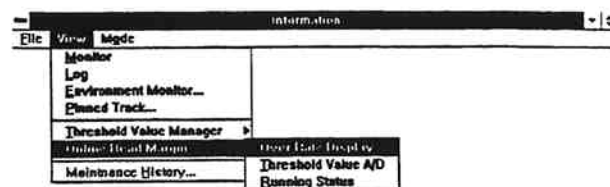
(2) Select (CL) [OK] in the 'SVP' dialog box.



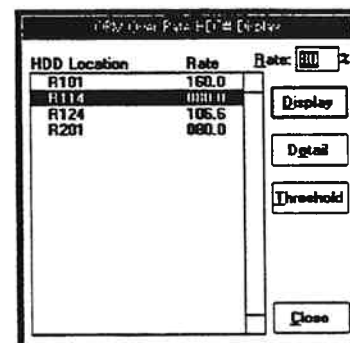
(3) Select (CL) the [Mode] menu in the 'Information' window and select (DR) [Modify].



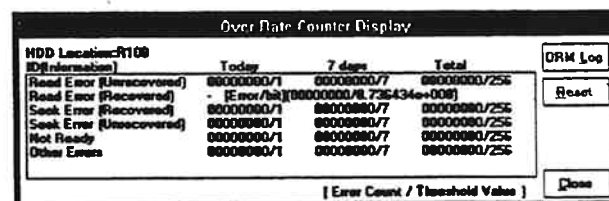
- (4) Select (CL) the [View] menu in the 'Information' window and select (DR) [Online Read Margin]. A pop-up menu will appear. Select (DR) [Over Rate Display].



- (5) In the 'ORM Over Rate HDD# Display' dialog box, select (CL) the HDD for which an error count and thresholds are to be reset from the 'HDD Location' list box. Select (CL) [Detail].



- (6) In the 'Over Rate Counter Display' dialog box, select (CL) [RESET].



- (7) Select (CL) [OK] in the 'Threshold Counter Reset' dialog box.

- (8) Select (CL) [Close] in the 'Over Rate Counter Display' dialog box.

- (9) Select (CL) [Close] in the 'ORM Over Rate HDD# Display' dialog box.

- (10) Close the 'Information' window.

10. <Reset Threshold Counter>

See SVP02-440.

11. <SIM Complete>

See SVP02-510.

12.

Close 'HDU-xxx' window.

Close 'Hardware Maintenance' window.

Close 'Maintenance Online' window.

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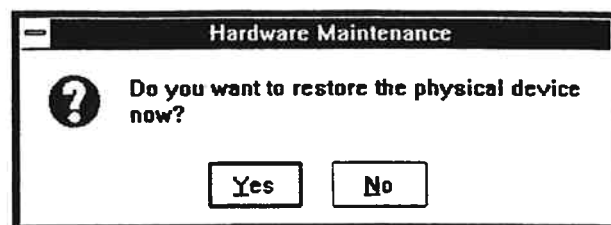
[POST-PROCEDURE b]

— OUTLINE —

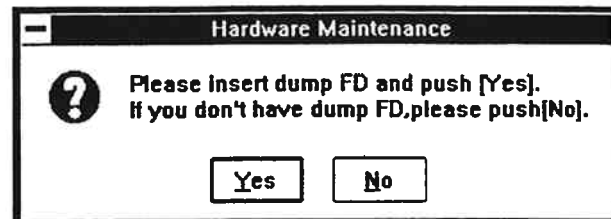
- ① Execute CUDG on P-DEV.
- ② Specify recovery.
- ③ Correction copy
- ④ Reset ORM Error Count on the P-DEV.
- ⑤ Reset Threshold Counter
- ⑥ SIM Complete

1. <Check the beginning of recovery>

Select [Yes] (CL) in response to "Do you want to restore the physical device now?".

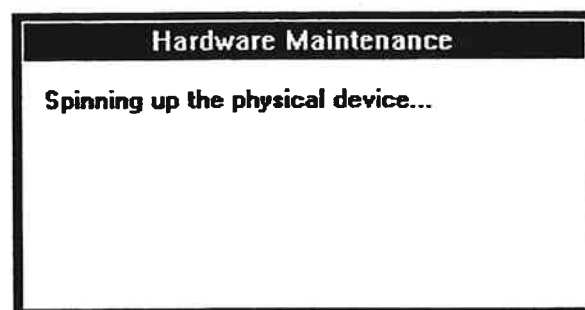


Please insert floppy disk and select [Yes] (CL).
Failure information of the physical device is written to the floppy disk.



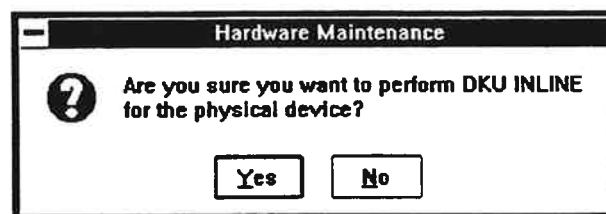
2. <Spin up the Physical Drive>

"Spinning up the physical device" is displayed.



3. <DKU INLINE>

[In case of Isolation and Recovery Procedures for Common SCSI Bus Error (TRBL05-30):]
Select [No] in response to "Are you sure you want to perform DKU INLINE for the physical device?".



[In case of PDEV replace only:]
"DKU INLINE is now running." is displayed.



Notes: In case of RAID 0, go to REP04-55.

<In case of RAID0>

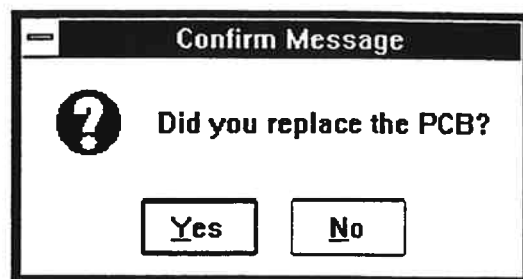
(1) <Confirm of replace the PCB>

Display of "Did you replace the PCB?".

In case of replaced the PCB, select (CL) [Yes].

In case of not replaced the PCB, select (CL) [No].

(Go to 4 on REP04-50.)



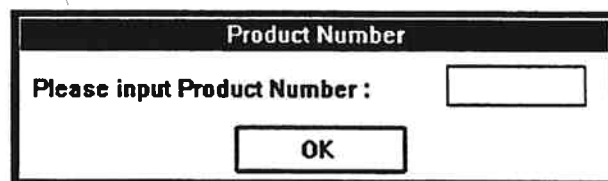
(2) <Insert FD>

Select (CL) [OK] in response to "Please insert FD for drive A:" after insert FD (Phase data only).



(3) <Input Product Number>

Select (CL) [OK] after input Product Number.

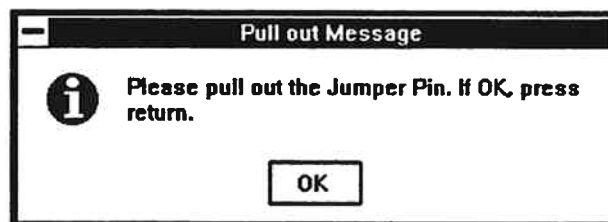


Notes: In case of invalid Product Number, select (CL) [Yes].
Return to (2).

(4) <Pull out the CONNASSY (JMP)>

Select (CL) [OK] in response to "Please pull out the Jumper Pin. If OK, press return." after pull out and insert the CONNASSY (JMP).

Go to 4 on REP04-50



Notes: In case of error in C1 Link Series (Refer to DIAGNOSIS SECTION), go to (5).

(5) <Replace to the former PCB>

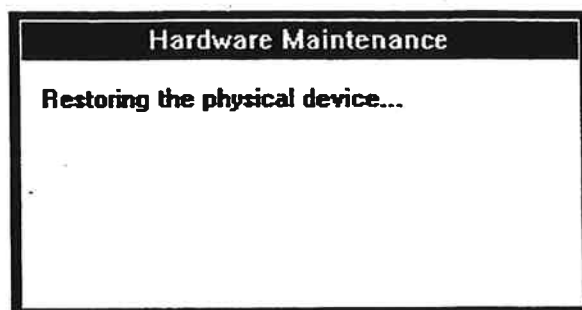
Select (CL) [OK] in response to "Please replace to the former PCB. If OK, press return." after replaced the unit.

Go to 4 on REP04-50



4. <Restore the Physical Device>

"Restoring the physical device." is displayed.

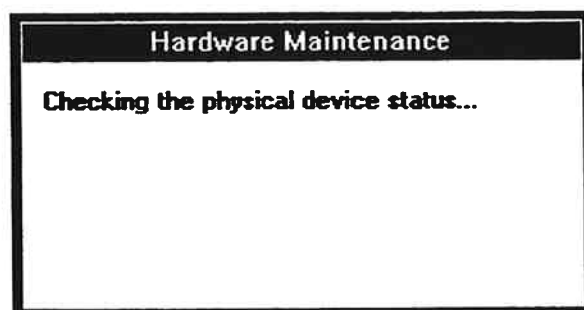


5.

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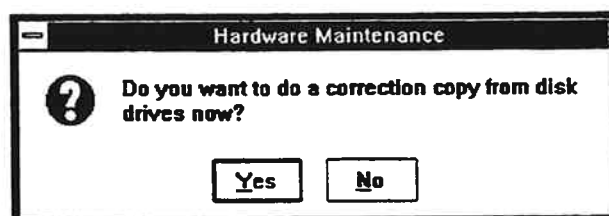
6. <Checking the Drive Status>

"Checking the physical device status..." is displayed.
Device is still blocked.



7. <Correction copy>

Select [Yes] (CL) in response to "Do you want to do a correction copy from disk drives now?".



8. <Check the beginning of Correction copy>

Select [OK] (CL) in response to "Correction copy from disk drives is started."



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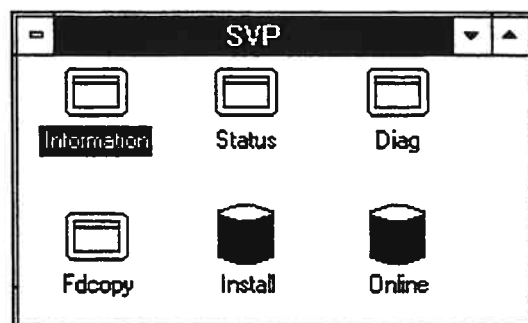
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9.

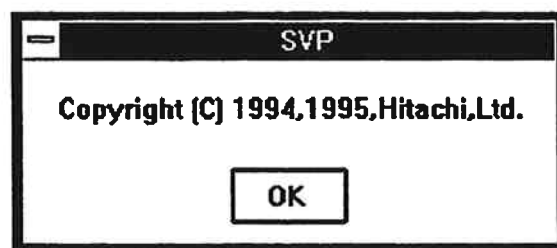
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10. <Resetting ORM Error Counter>

(1) Select (DC) the [Information] icon in the 'SVP' window.



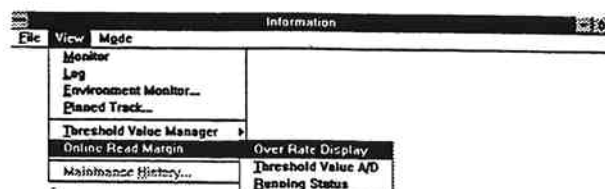
(2) Select (CL) [OK] in the 'SVP' dialog box.



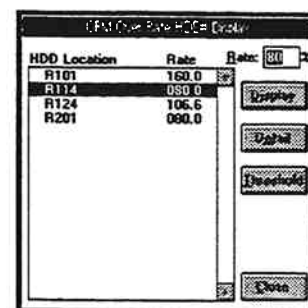
(3) Select (CL) the [Mode] menu in the 'Information' window and select (DR) [Modify].



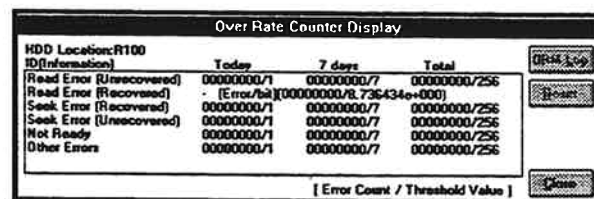
- (4) Select (CL) the [View] menu in the [Information] window and select (DR) [Online Read Margin]. A pop-up menu will appear. Select (DR) [Over Rate Display].



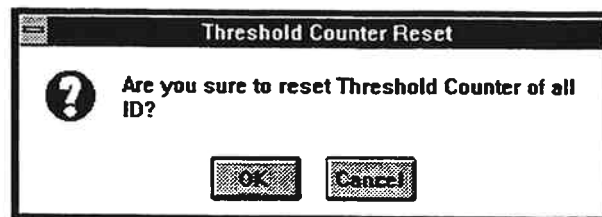
- (5) In the [ORM Over Rate HDD# Display] dialog box, select (CL) the HDD for which an error count and thresholds are to be reset from the [HDD Location] list box. Select (CL) [Detail].



- (6) In the [Over Rate Counter Display] dialog box, select (CL) [RESET].



- (7) Select (CL) [OK] in the [Threshold Counter Reset]



(8) Select (CL) [Close] in the 'Over Rate Counter Display' dialog box.

(9) Select (CL) [Close] in the 'ORM Over Rate HDD# Display' dialog box.

(10) Close the 'Information' window.

10. <Reset Threshold Counter>

See SVP02-440.

11. <SIM Complete>

See SVP02-510.

12.

Close 'HDU-xxx' window.

Close 'Hardware Maintenance' window.

Close 'Maintenance Online' window.

[POST-PROCEDURE c]

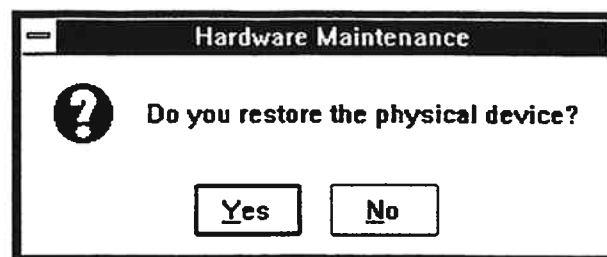
— Projected —

— OUTLINE —

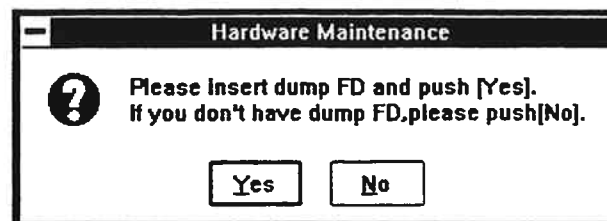
- ① Perform L-DEV formatting on P-DEV.
- ② Reset ORM Error Count on P-DEVs.
- ③ Recover with backup data.
- ④ Reset Threshold Counter
- ⑤ SIM Complete

1. <Check the beginning of recovery>

Select [Yes] (CL) in response to "Do you restore the physical device?".



Please insert floppy disk and select [Yes] (CL).
Failure information of the physical device is written to the floppy disk.



2. <Spin up the Physical Drive>

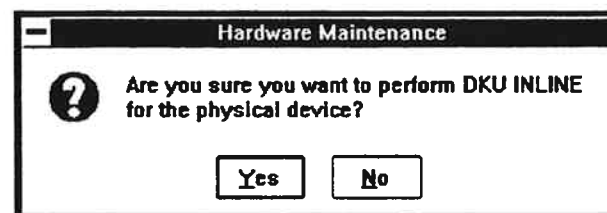
"Spinning up the physical device..." is displayed.



3. <DKU INLINE>

[In case of Isolation and Recovery Procedure for Common SCSI Bus Error (TRBL05-30):]

Select [No] (CL) in response to "Are you sure you want to perform DKU INLINE for the physical device?".



[In case of PDEV replace only:]

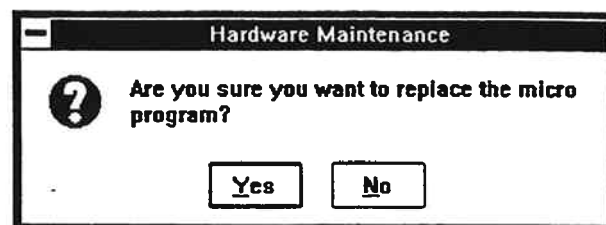
"DKU INLINE is now running..." is displayed.

Notes: In case of RAID 0, go to REP04-98.

4. <Replacement of the DKU micro-program>

[In case of Isolation and Recovery Procedures for Common SCSI Bus Error (TRBL05-30):]

Select [No] (CL) in response to "Are you sure you want to replace the micro program?".

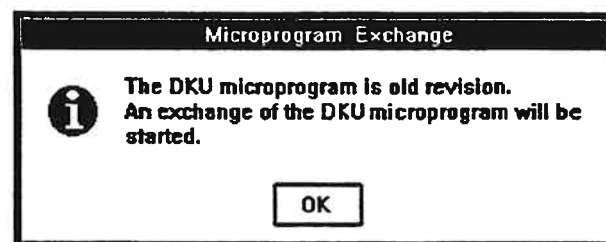


[In case of PDEV replace only:]

When the revision of the DKU micro-program in the SVP hard disk is newer than that in the PDEV, the following message appears on the screen.

"The DKU microprogram is old revision. An exchange of the DKU microprogram will be started."

Select [OK] (CL). The message "Exchanging DKU micro-program..." appears.



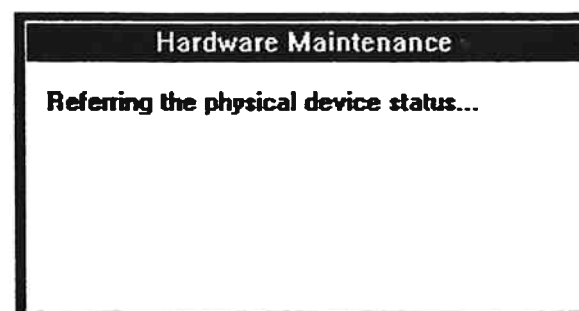
5. <Restore Physical Drive>

"Restoring the physical device..." is displayed.



6. <Referring the Drive Status>

"Referring the physical device status..." is displayed.



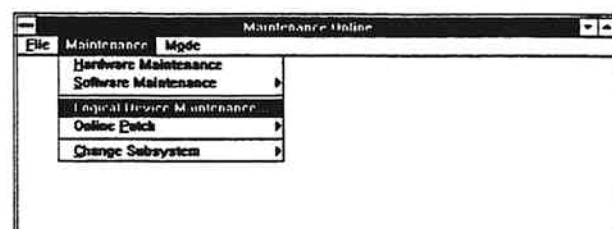
7. <Correction Copy disable message>

Select [OK] (CL) in response to "There is no Logical Device which can be restored."



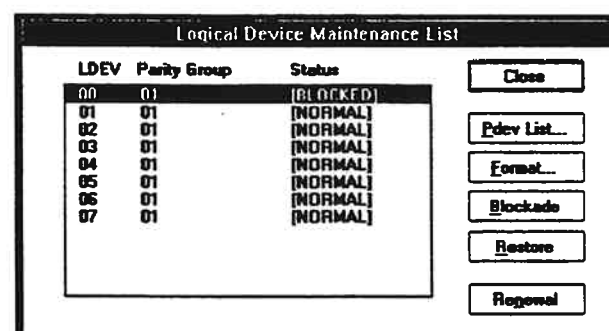
8. <Select [Logical Device Maintenance...]>

Select [Logical Device Maintenance...] from [Maintenance] on 'Maintenance Online' (DR).
Before you perform following steps, be sure to call T.S.C.
Data housed in Logical Device will be lost due to formatting Logical Device.



9. <Logical Device Maintenance List>

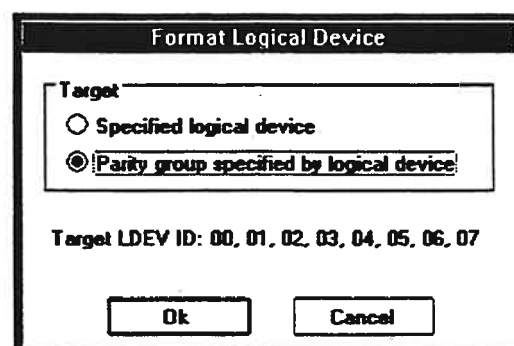
Select [Format...] (CL).



10. <Format Logical Device>

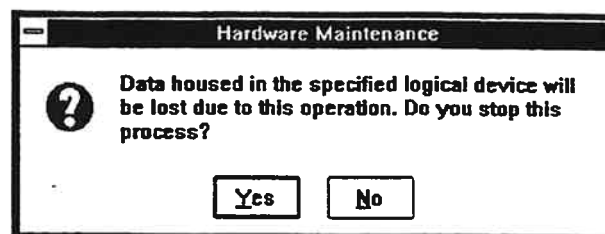
Select the Target [Parity group specified by logical device] from 'Format Logical Device' (CL) and select [OK] (CL).

Note: Execute Format Logical Device after you confirm the target Logical Device is blocked.



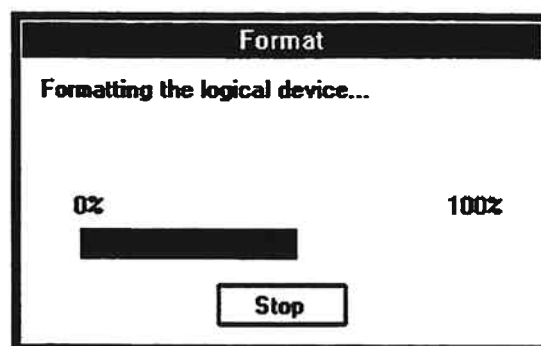
11. <Caution message for DATA lost>

Select [No] (CL) in response to "Data housed in the specified logical device will be lost due to this operation. Do you stop this process?".



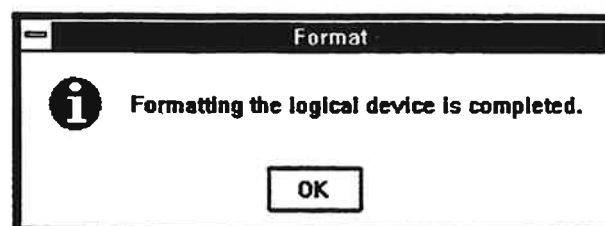
12. <Check Formatting the logical Device>

"Formatting the logical device..." is displayed.



13. <Check the end of Format Logical Device>

Select [OK] (CL) in response to "Formatting the logical device is completed."

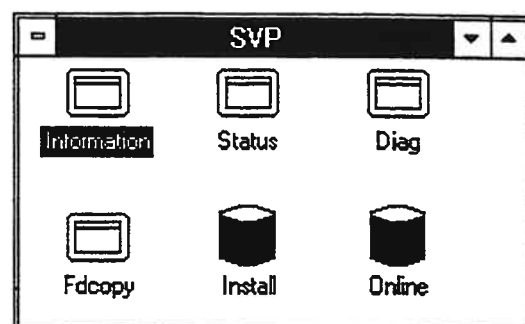


14.

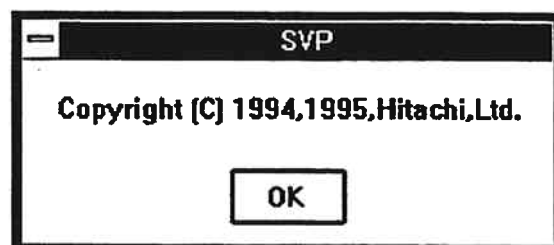
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15. <Resetting ORM Error Counter>

(1) Select (DC) the [Information] icon in the 'SVP' window.



(2) Select (CL) [OK] in the 'SVP' dialog box.



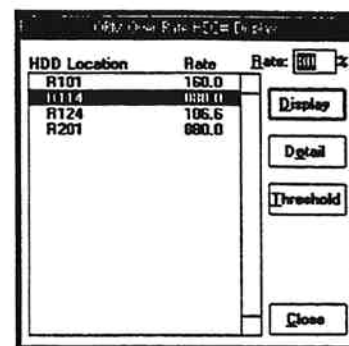
(3) Select (CL) the [Mode] menu in the 'Information' window and select (DR) [Modify].



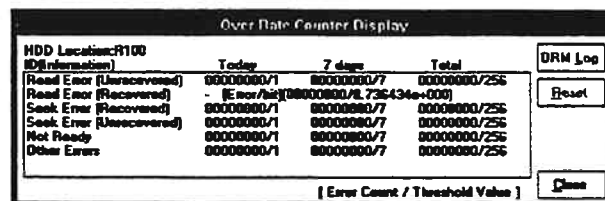
(4) Select (CL) the [View] menu in the 'Information' window and select (DR) [Online Read Margin]. A pop-up menu will appear. Select (DR) [Over Rate Display].



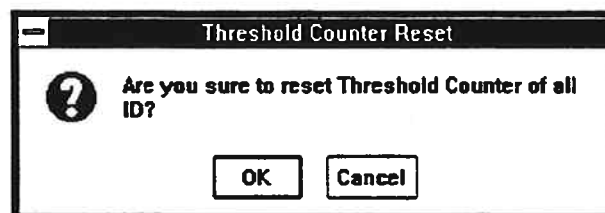
- (5) In the 'ORM Over Rate HDD# Display' dialog box, select (CL) the HDD for which an error count and thresholds are to be reset from the 'HDD Location' list box. Select (CL) [Detail].



- (6) In the 'Over Rate Counter Display' dialog box, select (CL) [RESET].



- (7) Select (CL) [OK] in the 'Threshold Counter Reset' dialog box.



- (8) Select (CL) [Close] in the 'Over Rate Counter Display' dialog box.

- (9) Select (CL) [Close] in the 'ORM Over Rate HDD# Display' dialog box.

- (10) Close the 'Information' window.

16. <Reset Threshold Counter>

See SVP02-440.

17. <SIM Complete>

See SVP02-510.

18.

Close 'Logical Device Maintenance List' window.

Close 'Maintenance Online' window.

19. <Recover data>

Ask the customer for recovering data with backup data.

<In case of RAID0>

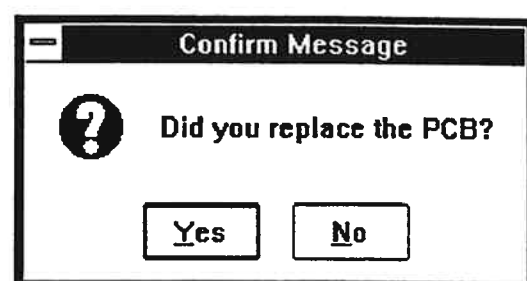
(1) <Confirm of replace the PCB>

Display of "Did you replace the PCB?".

In case of replaced the PCB, select (CL) [Yes].

In case of not replaced the PCB, select (CL) [No].

(Go to 4 on REP04-90.)



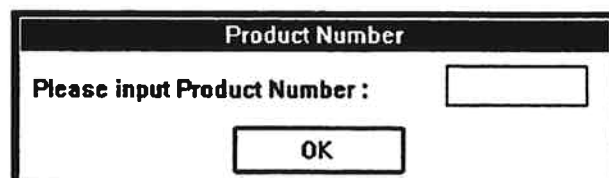
(2) <Insert FD>

Select (CL) [OK] in response to "Please insert FD for drive A:" after insert FD (Phase data only).



(3) <Input Product Number>

Select (CL) [OK] after input Product Number.

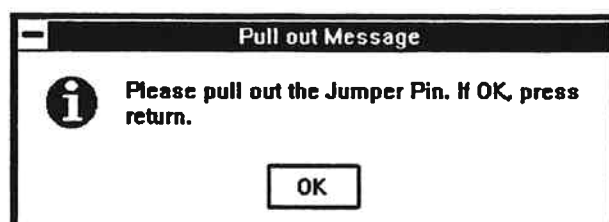


Notes: In case of invalid Product Number, select (CL) [Yes].
Return to (2).

(4) <Pull out the CONNASSY (JMP)>

Select (CL) [OK] in response to "Please pull out the Jumper Pin. If OK, press return." after pull out and insert the CONNASSY (JMP).

Go to 4 on REP04-90



Notes: In case of error in C1 Link Series (Refer to DIAGNOSIS SECTION), go to (5).

(5) <Replace to the former PCB>

Select (CL) [OK] in response to "Please replace to the former PCB. If OK, press return." after replaced the unit.

Go to 4 on REP04-90

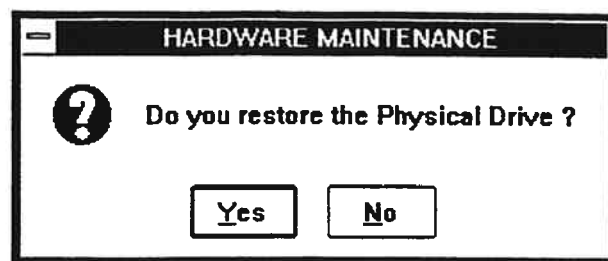


[POST-PROCEDURE d]

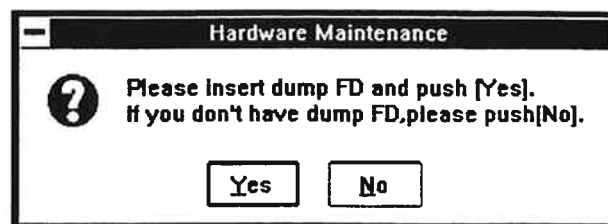
— OUTLINE —

- ① Execute CUDG on P-DEV.
- ② Specify recovery.
- ③ Reset ORM Error Count on the P-DEV.
- ④ Reset Threshold Counter
- ⑤ SIM Complete

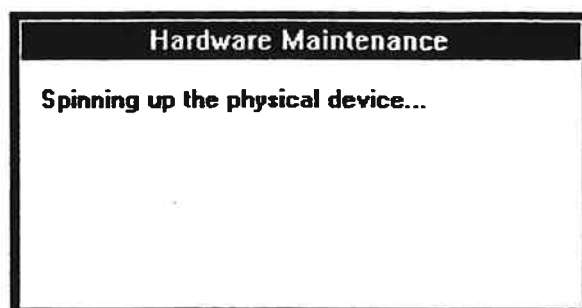
1. <Check the beginning of recovery>
Select [Yes] (CL) in response to
"Do you restore the Physical Drive?".



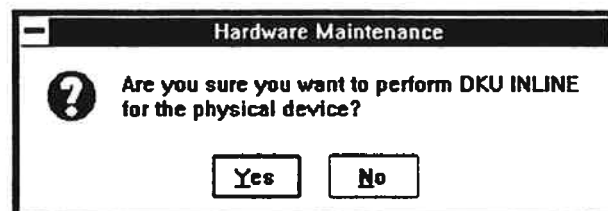
Please insert floppy disk and select [Yes] (CL).
Failure information of the physical device is written to
the floppy disk.



2. <Check the spin up process>
"Spinning up the physical device..." is displayed.



3. <Check the INLINE process>
[In case of Isolation and Recovery Procedure for
Common SCSI Bus Error (TRBL05-30):]
Select [No] (CL) in response to "Are you sure you want
to perform DKU INLINE for the physical device?".



[In case of PDEV replace only:]
"DKU INLINE is now running..." is displayed.

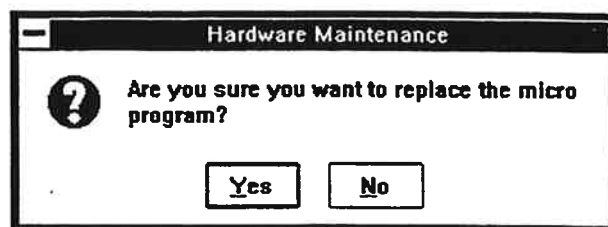


Notes: In case of RAID 0, go to REP04-117.

4. <Replacement of the DKU micro-program>

[In case of Isolation and Recovery Procedures for
Common SCSI Bus Error (TRBL05-30):]

Select [No] (CL) in response to "Are you sure you want
to replace the micro program?".

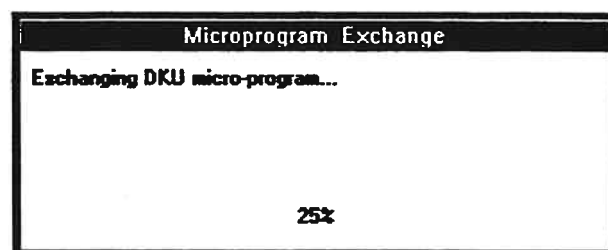


[In case of PDEV replace only:]

When the revision of the DKU micro-program in the
SVP hard disk is newer than that in the PDEV, the
following message appears on the screen.

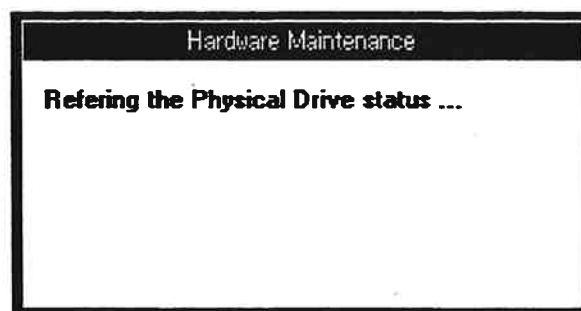
"The DKU microprogram is old revision. An exchange
of the DKU microprogram will be started."

Select [OK] (CL). The message "Exchanging DKU
micro-program..." appears.



5. <Check the Restore process>

"Restoring the Physical Drive." is displayed.



6. <Check the end of P-DEV recovery>

Select [OK] in response to

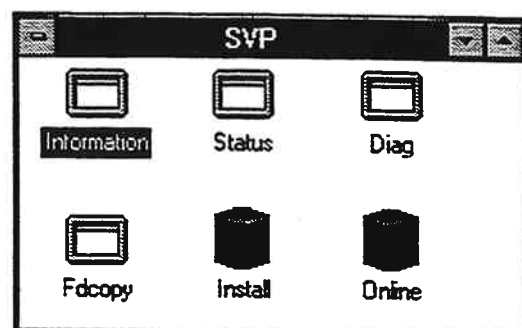
"Restoring the Physical Drive has completed."

7.

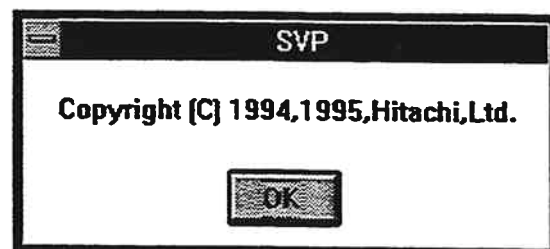
BLANK

8. <Resetting ORM Error Counter>

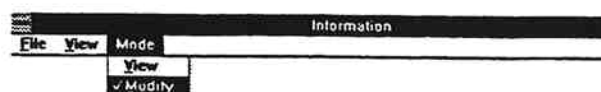
(1) Select (DC) the [Information] icon in the 'SVP' window.



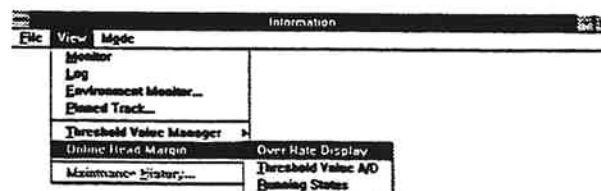
(2) Select (CL) [OK] in the 'SVP' dialog box.



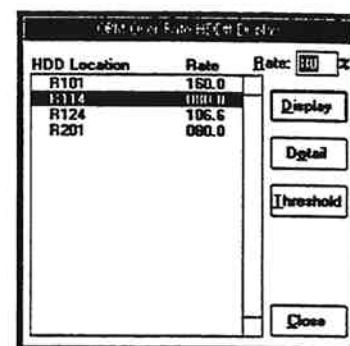
(3) Select (CL) the [Mode] menu in the 'Information' window and select (DR) [Modify].



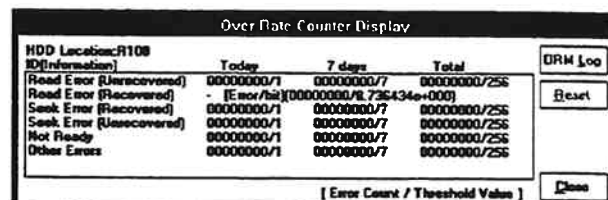
(4) Select (CL) the [View] menu in the 'Information' window and select (DR) [Online Read Margin]. A pop-up menu will appear. Select (DR) [Over Rate Display].



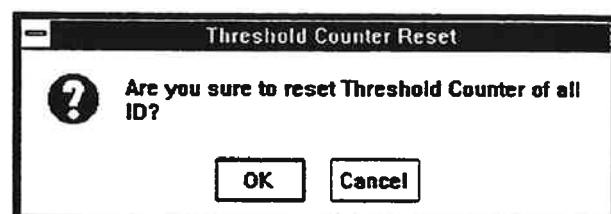
- (5) In the 'ORM Over Rate HDD# Display' dialog box, select (CL) the HDD for which an error count and thresholds are to be reset from the 'HDD Location' list box. Select (CL) [Detail].



- (6) In the 'Over Rate Counter Display' dialog box, select (CL) [Reset].



- (7) Select (CL) [OK] in the 'Threshold Counter Reset' dialog box.



- (8) Select (CL) [Close] in the 'Over Rate Counter Display' dialog box.
- (9) Select (CL) [Close] in the 'ORM Over Rate HDD# Display' dialog box.
- (10) Close the 'Information' window.

-
9. <Reset Threshold Counter>
See SVP02-440.

-
10. <SIM Complete>
See SVP02-510.

-
11.
Close 'HDU-xxx' window.
Close 'Hardware Maintenance' window.
Close 'Maintenance Online' window.

<In case of RAID0>

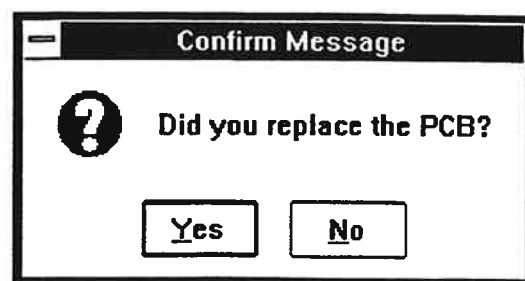
(1) <Confirm of replace the PCB>

Display of "Did you replace the PCB?".

In case of replaced the PCB, select (CL) [Yes].

In case of not replaced the PCB, select (CL) [No].

(Go to 4 on REP04-111.)



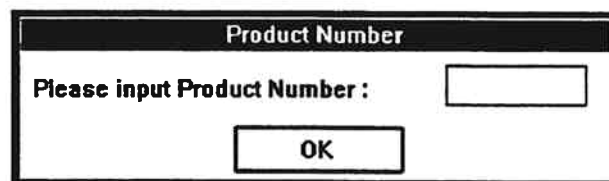
(2) <Insert FD>

Select (CL) [OK] in response to "Please insert FD for drive A:" after insert FD (Phase data only).



(3) <Input Product Number>

Select (CL) [OK] after input Product Number.

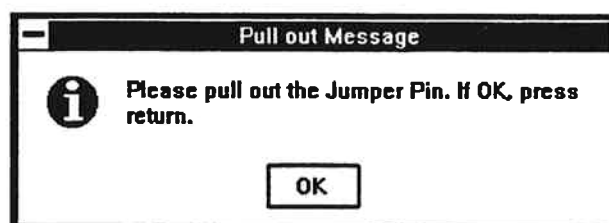


Notes: In case of invalid Product Number, select (CL) [Yes].
Return to (2).

(4) <Pull out the CONNASSY (JMP)>

Select (CL) [OK] in response to "Please pull out the Jumper Pin. If OK, press return." after pull out and insert the CONNASSY (JMP).

Go to 4 on REP04-111



Notes: In case of error in C1 Link Series (Refer to DIAGNOSIS SECTION), go to (5).

(5) <Replace to the former PCB>

Select (CL) [OK] in response to "Please replace to the former PCB. If OK, press return." after replaced the unit.

Go to 4 on REP04-111



[POST-PROCEDURE e]

— OUTLINE —

- ① Execute CUDG on cache.
- ② Specify recovery.
- ③ SIM Complete

1. <Check the beginning of cache/SM recovery>

Select [Yes] (CL) in response to:

* For CACHE (with SM)

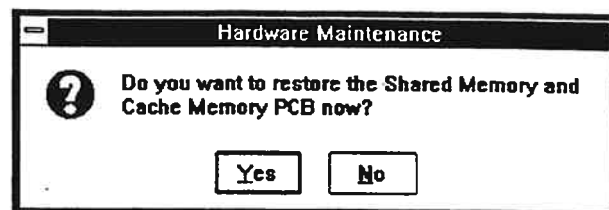
"Do you want to restore the Shared Memory and Cache Memory PCB now?"

* For CACHE ——— [Go to step 3]

"Do you want to restore the Cache Memory PCB now?"

* For CPM, CPS, CACHE Terminator

"Do you want to restore the Shared Memory PCB now?"

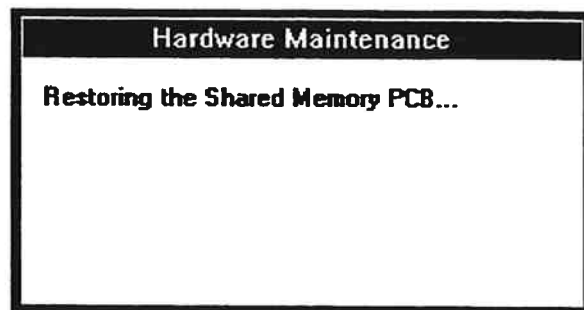


After the recovery processing, delete the SIM LOG
(see SVP section).

2. <Restoring the Shared Memory>

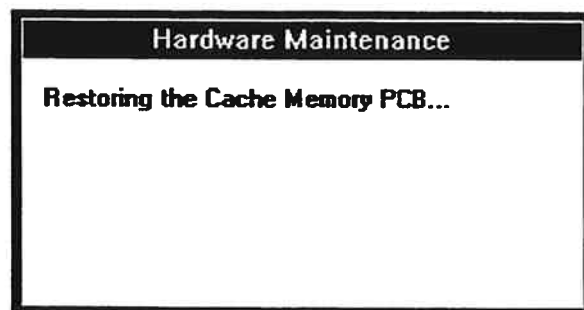
"Restoring the Shared Memory PCB..." is displayed.

* For CPM, CPS ——— [Go to step 4]



3. <Restoring the Cache Memory>

"Restoring the Cache Memory PCB..." is displayed.



4. <Check the end of Cache/Shared Memory recovery>

Select [OK] (CL) in response to:

* For CACHE (with SM)

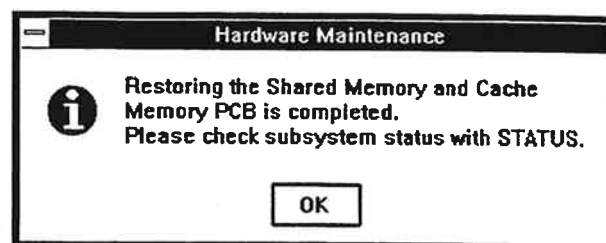
"Restoring the Shared Memory and Cache Memory PCB is completed. Please check subsystem status with STATUS."

* For CACHE

"Restoring the Cache Memory PCB is completed. Please check subsystem status with STATUS."

* For CPM,CPS

"Restoring the Shared Memory PCB is completed. Please check subsystem status with STATUS."



5. <SIM Complete>

See SVP02-510.

6.

Close 'MainPlatter Maintenance' window.

Close 'Hardware Maintenance' window.

Close 'Maintenance Online' window.

[POST-PROCEDURE f]

— OUTLINE —

- ① Specify recovery for CHA/DKA.
- ② Path online (for CHA)
- ③ SIM Complete

1. <Check the beginning of CHA/DKA recovery>

Select [YES] (CL) in response to:

* For CHA

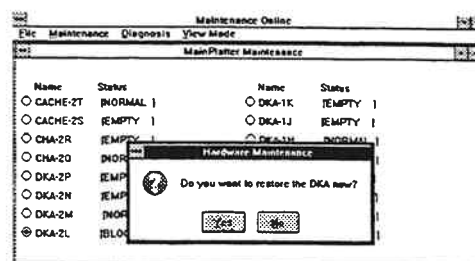
[Do you want to restore the CHA now?]

GO TO STEP3

* For DKA

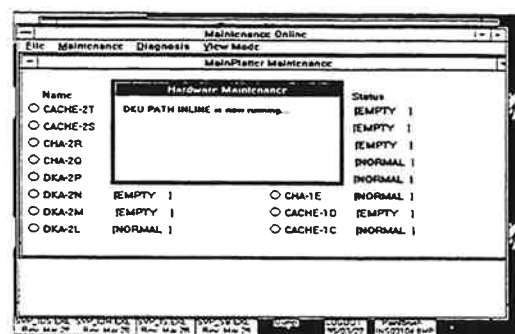
[Do you want to restore the DKA now?]

GO TO STEP2



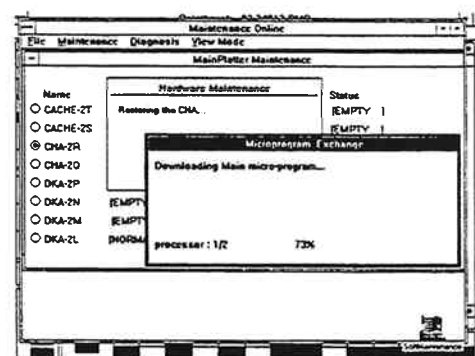
2.

[DKU PATH INLINE] displayed
(for DKA)



3. <Micro-program down loading>

[Micro-program Exchange] is displayed.

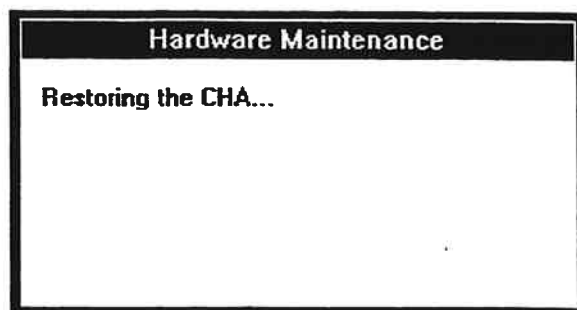


4. <Check the CHA/DKA recovery processing>

The following message is displayed:

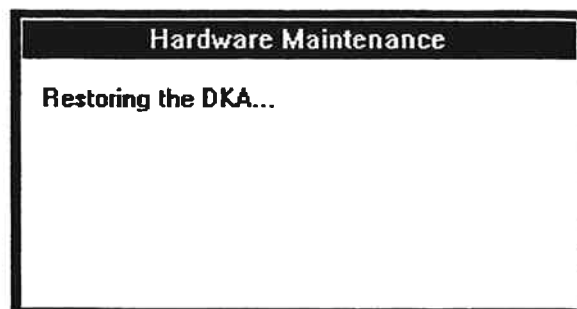
* For CHA

"Restoring the CHA..."

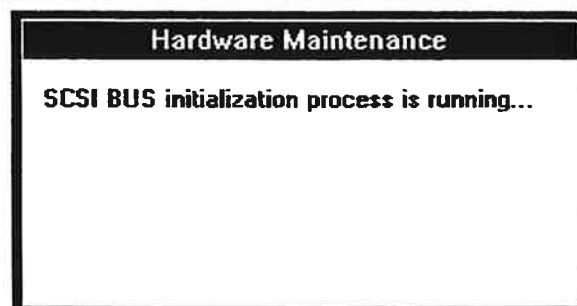


* For DKA

"Restoring the DKA..."



"SCSI BUS initialization process is running..."



"Restoring the DKA..."



5. <Check the end of CHA/DKA recovery>

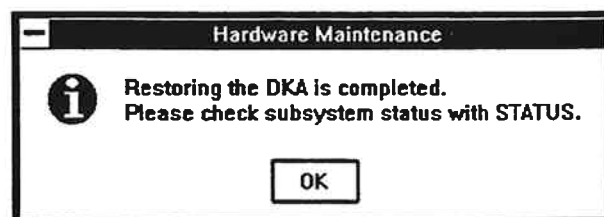
Select [OK] (CL) in response to :

* For CHA

"Restoring the CHA is completed. Please check subsystem status with STATUS."

* For DKA

"Restoring the DKA is completed. Please check subsystem status with STATUS."



6. <Path on-line when CHA is replaced>

Whenever a CHA is replaced, set the path
(from the host) on the replaced Host Adapter
PCB to ONLINE.

7. <SIM Complete>

See SVP02-510.

In case of Multiplatform, after a CHA is replaced, when channel path on the replaced Host Adapter PCB is varied ONLINE, SSB F/M=9f and EC=4328 is logged sometimes. It is no problem because the SSB just shows OPEN Volume was accessed by Host I/O.

8.

Close 'MainPlatter Maintenance' window.

Close 'Hardware Maintenance' window.

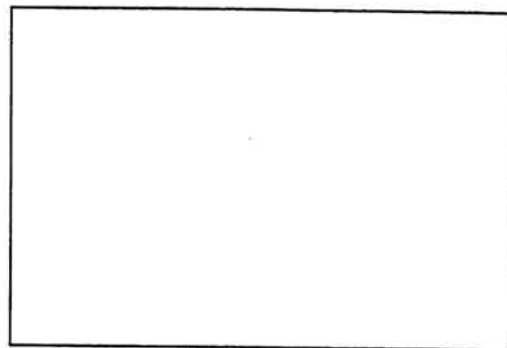
Close 'Maintenance Online' window.

[POST-PROCEDURE g]

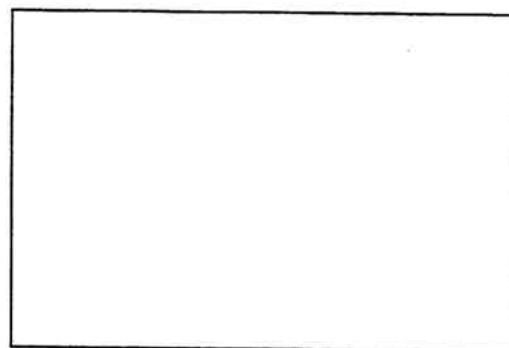
— OUTLINE —

- ① Correction copy processing
- ② Correction copy termination

1. <Check the correction copy processing>
[Correction copy in progress] is displayed.



2. <Check the end of correction copy>
Select [OK] (CL) in response to
[End of correction copy].



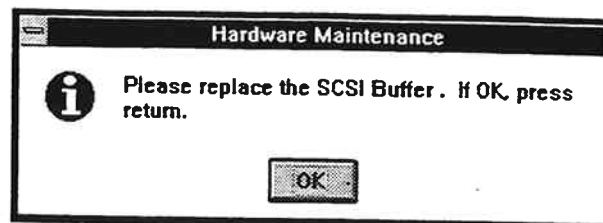
[POST-PROCEDURE h]

— OUTLINE —

- ① Specify recovery of DKA for SCSI BFR.
- ② SIM Complete

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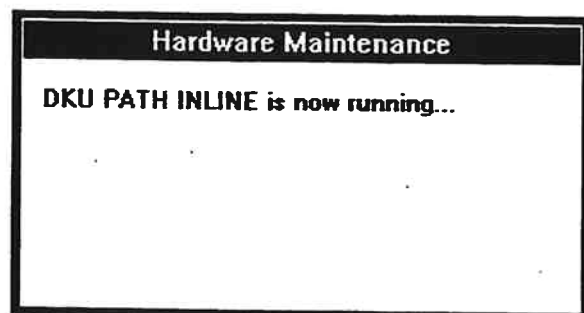
1. <Confirm SCSI buffer replace>
Select [OK] (CL) in response to "Please replace the SCSI Buffer. If OK, press return."



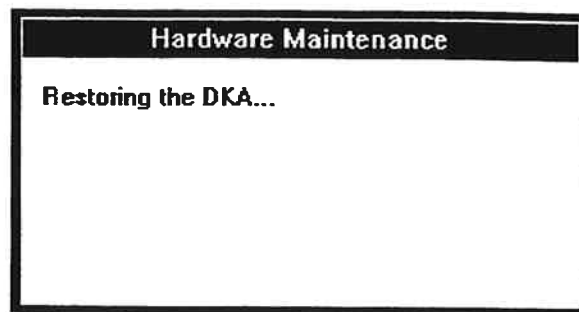
2. <Check the beginning of DKA recovery>
Select [YES] (CL) in response to "Do you want to restore the DKA now?"



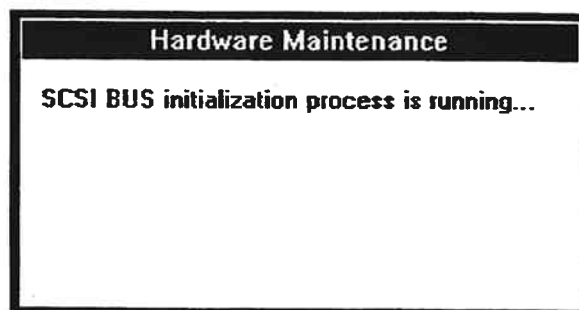
3. <DKA PATH INLINE>
"DKA PATH INLINE is now running..." is displayed.



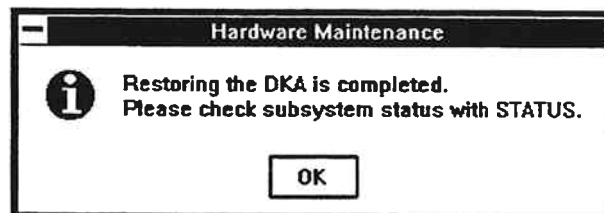
4. <Check DKA recovery processing>
 “Restoring the DKA...” is displayed.



5. <SCSI BUS initialization process>
 “SCSI BUS initialization process is running...” is displayed.



6. <Check the end of CHA / DKA recovery>
 Select [OK] (CL) in response to “Restoring the DKA is completed. Please check subsystem status with STATUS.”.



-
7. <SIM Complete>
See SVP02-510.

8.

Close 'MainPlatter Maintenance' window.
Close 'Hardware Maintenance' window.
Close 'Maintenance Online' window.

[POST-PROCEDURE i]

— OUTLINE —

- ① Specify recovery for CHA/DKA.
- ② Path online (for CHA)
- ③ SIM Complete

1. <Check the beginning of CHA/DKA recovery>

Select [Yes] (CL) in response to:

* For CHA

"Do you want to restore the CHA now?"

Go to step 4.

* For DKA

"Do you want to restore the DKA now?"

Go to step 2.



2. <Check beginning of Path INLINE> (Only DKA)

"Are you sure you want to perform DKU PATH INLINE for the physical device?" is displayed.

* In case of SCSI BUS trouble:

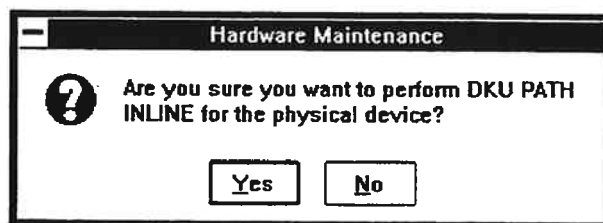
Select [No] (CL) in response to the message.

Go to Step 4.

* In case of no trouble about SCSI BUS:

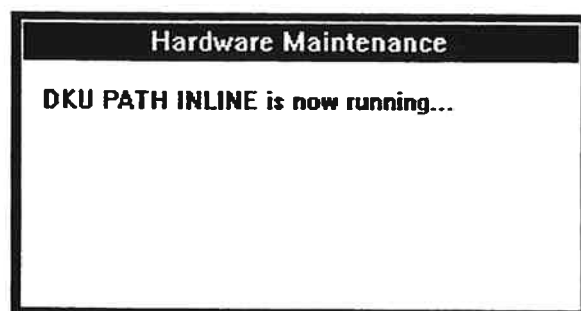
Select [Yes] (CL) in response to the message.

Go to step 3.



3.

"DKU PATH INLINE" is displayed
(for DKA)

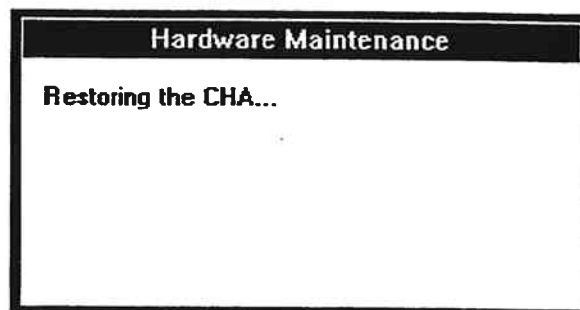


4. <Check the CHA/DKA recovery processing>

The following message is displayed:

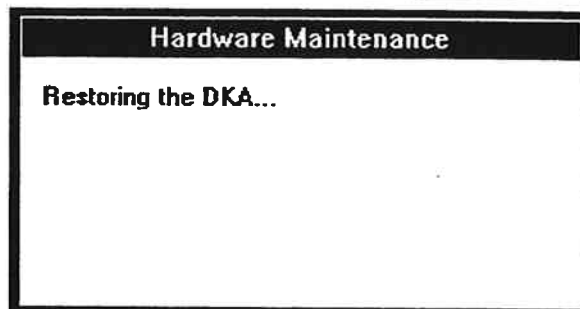
* For CHA

"Restoring the CHA..."

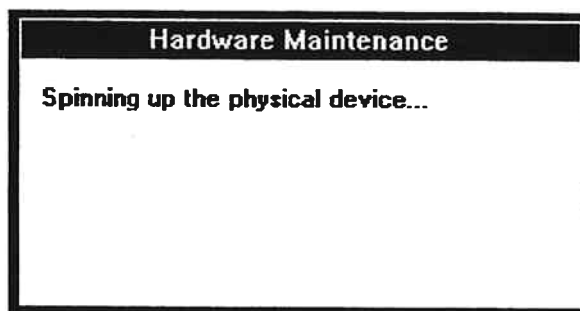


* For DKA

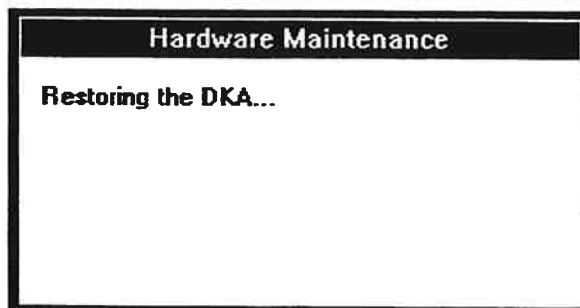
"Restoring the DKA..."



"Spinning up the physical device..."



"Restoring the DKA..."



5. <Check the end of CHA/DKA recovery>

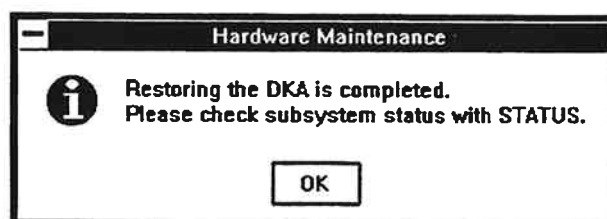
Select [OK] (CL) in response to :

* For CHA

"Restoring the CHA is completed. Please check subsystem status with STATUS."

* For DKA

"Restoring the DKA is completed. Please check subsystem status with STATUS."



-
6. <Path on-line when CHA is replaced>
Whenever a CHA is replaced, set the path
(from the host) on the replaced Host Adapter
PCB to ONLINE.

-
7. <SIM Complete>
See SVP02-510.

-
8.
Close 'MainPlatter Maintenance' window.
Close 'Hardware Maintenance' window.
Close 'Maintenance Online' window.

[POST-PROCEDURE t1]

— OUTLINE —

- ① Specify end of special part replacement.
- ② Reinstall related parts.
- ③ Start environment monitor.
- ④ SIM Complete

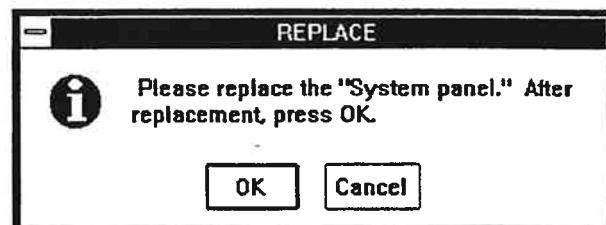
[1] Start of POST-PROCEDURE

1. <Check replacement of special part>

Select [OK] (CL) in response to "Please replace the "XXXXXX." After replacement, press OK."

Valid "XXXXXX" values are listed below.

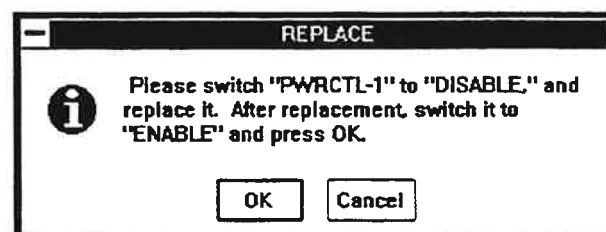
- System panel ——— Go to [16] (REP04-351)
- PCI CONN ——— Go to [5] (REP04-270)
- RCU CONN ——— Go to [6] (REP04-280)
- EPO SW ——— Go to [7] (REP04-290)
- RS CONN ——— Go to [13] (REP04-350)
- OP panel 1/2 ——— Go to [2] (REP04-240)



Select [OK] (CL) in response to "Please switch "XXXXXX" to "DISABLE," and replace it. After replacement, switch it to "ENABLE" and press OK."

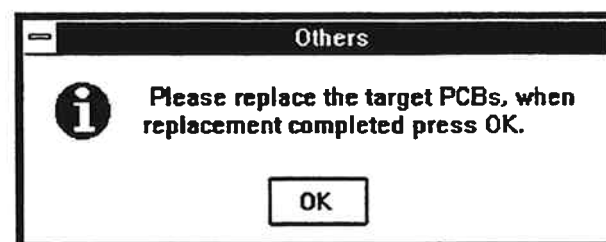
Valid "XXXXXX" values are listed below.

- CE panel ——— Go to [3] (REP04-250)
- PWRCTL 1/2 ——— Go to [4] (REP04-260)



Select [OK] (CL) in response to "Please replace the target PCBs, when replacement completed press OK."

- LTM PCB ——— Go to [10] (REP04-315)

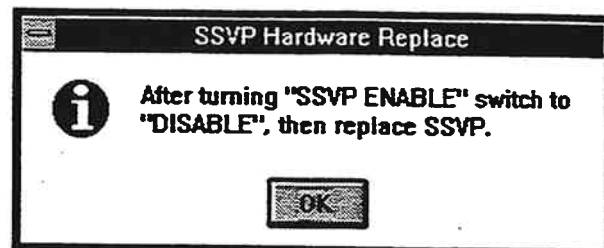


- OUTLET BOX ——— Go to [8] (REP04-300)

- SVP ————— Go to [9] (REP04-301)

Select [OK] (CL) in response to "After turning "SSVP ENABLE" switch to "DISABLE", then replace SSVP."

- SSVP ————— Go to [12] (REP04-330)

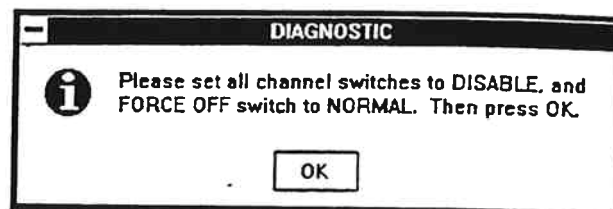


[2] OP panel

If all channel types are SCSI, execute only <LED TEST>.

1. <Diagnostic of SW. on OP panel>

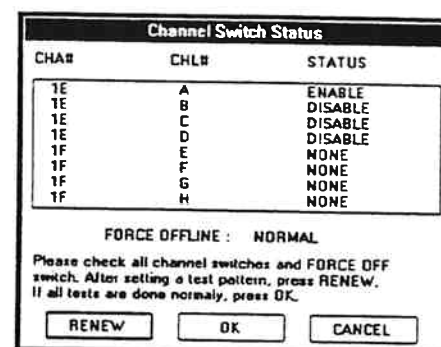
Select [OK] (CL) in response to "Please set all channel switches to DISABLE, and FORCE OFF switch to NORMAL. Then press OK."



Select [RENEW] (CL) in response to "Please check all channel switches, and FORCE OFF switch. After setting a test pattern, press RENEW."

If all tests are done normally, select [OK] (CL).

Note) You can't test the channel which displayed "SCSI" at STATUS column.



TEST PATTERN

PATTERN#	CHL#								FORCE OFF
	A	B	C	D	E	F	G	H	
1	○	×	×	×	×	×	×	×	×
2	×	○	×	×	×	×	×	×	×
3	×	×	○	×	×	×	×	×	×
4	×	×	×	○	×	×	×	×	×
5	×	×	×	×	○	×	×	×	×
6	×	×	×	×	×	○	×	×	×
7	×	×	×	×	×	×	○	×	×
8	×	×	×	×	×	×	×	○	×
9	×	×	×	×	×	×	×	×	○

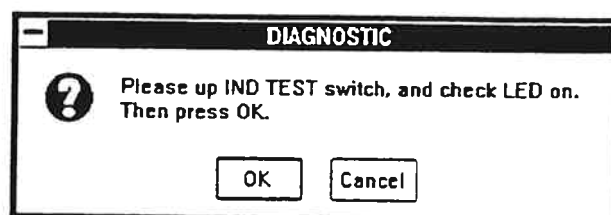
○ : ENABLE (FORCE OFF switch. : OFF)

× : DISABLE (FORCE OFF switch. : NORMAL)

<LED TEST>

Select [OK] (CL) in response to "Please up IND TEST switch, and check LED on. Then press OK."

If there are no parallel channels, go to [13] (REP04-350).



2. <Display CH SW status>

Check whether the CH switch settings are the same as those on the replaced OP panel. And select [OK] (CL).

STATUS:

ENABLE : Channel is enable (parallel channel)

DISABLE : Channel is disable(parallel channel)

SERIAL : Serial channel

SCSI : SCSI channel

BLOCKADE : Connected CHP is blocked up.

NONE : Channel is not installed.

FORCE OFFLINE

OFFLINE : FORCE OFFLINE

NORMAL : NOT FORCE OFFLINE

Channel Path Status		
CHAS	CHLS	STATUS
1E	A	ENABLE
1E	B	ENABLE
1E	C	ENABLE
1E	D	ENABLE
1F	E	NONE
1F	F	NONE
1F	G	NONE
1F	H	NONE

FORCE OFFLINE : NORMAL

Please set switches to position shown above. Then press OK.

OK

3. <Read channel mode>

"Reading channel path mode from CHA..." is displayed.

If all switches are set correctly, go to 6.

If some switches are illegal, go to 4.

OTHERS	
Reading channel path mode from CHA...	

4. <Channel switch incorrect>

Please set switches correctly, and select [OK] (CL).

Channel Path Status		
CHAS	CHLS	STATUS
1E	A	ENABLE
1E	B	ENABLE
1E	C	ENABLE
1E	D	ENABLE
1F	E	NONE
1F	F	NONE
1F	G	NONE
1F	H	NONE

FORCE OFFLINE : NORMAL

Switch position of "OP panel-1 PCB" is invalid.
Set switches to position shown above. Then press OK.

OK

5. <Read channel mode>

"Reading channel path mode from CHA..." is displayed.

If all switches are set correctly, go to 6.

If some switches are illegal, go to 4.

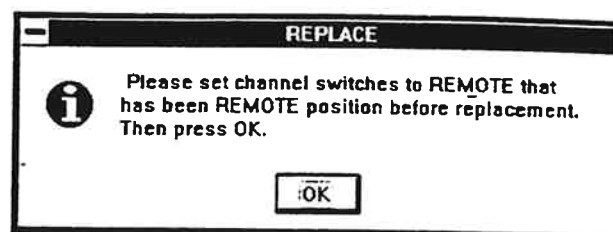
If step 4 is performed twice, go to 8.

OTHERS	
Reading channel path mode from CHA...	

6. <Set channel switches to REMOTE>

Set channel switches to REMOTE that has been REMOTE position before replacement.

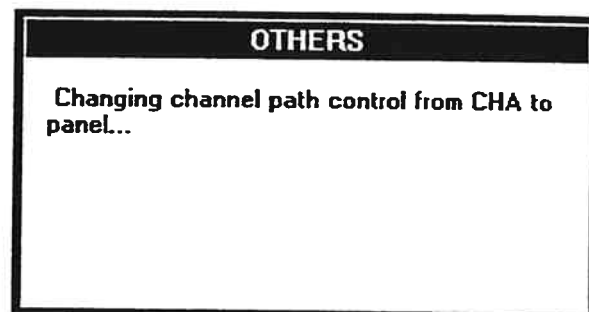
Refer to memorandum is 2 of PRE-PROCEDURE T1 [2] (REP02-420).



7. <change CHP mode>

"Changing channel path control from CHA to panel..." is displayed.

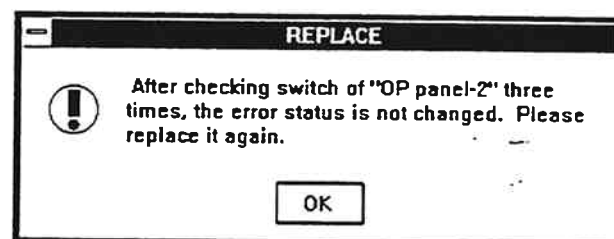
Go to [13] (REP04-350).



8. <error status>

If step 4 is performed twice, the error message is displayed as shown on the right.

Select [OK] (CL), go to [14] (REP04-350).



[3] CE panel

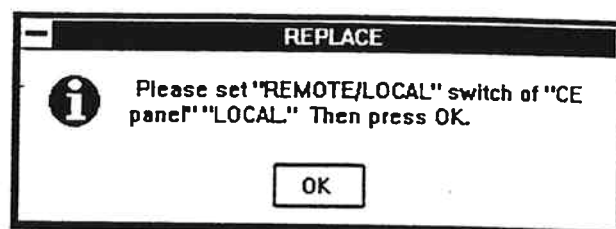
1. <Set REMOTE/LOCAL>

Set REMOTE/LOCAL switch, in response to the message "Please set "REMOTE/LOCAL" switch of "CE panel""XXXXX". Then press OK."

"XXXXX" represents "REMOTE" or "LOCAL".

After confirming that switch set, select [OK] (CL).

Go to [11] (REP04-320).



[4] PWRCTL 1/2

1. <Enable DKUMN>

Enable DKUMN in response to "Please switch
"XXXXXX" of all DKU to "ENABLE." Then press OK."
After confirming DKUMN is enabled, select [OK] (CL).

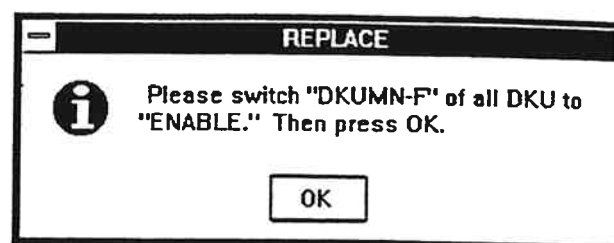
XXXXXX

• For PWRCTL-1:

[Power on DKUMN on front side of DKU]

• For PWRCTL-2:

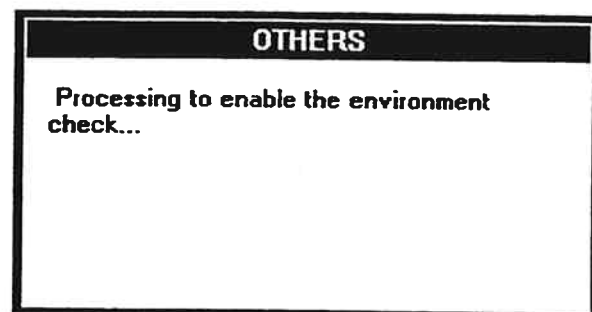
[Power on DKUMN on rear side of DKU]



2. <Check environment monitor start processing>

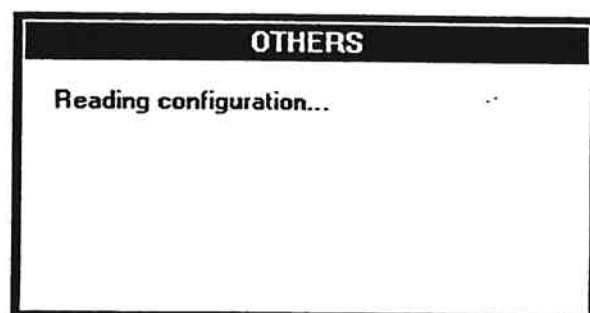
"Processing to enable the environment check..." is
displayed.

Wait about 30 seconds.

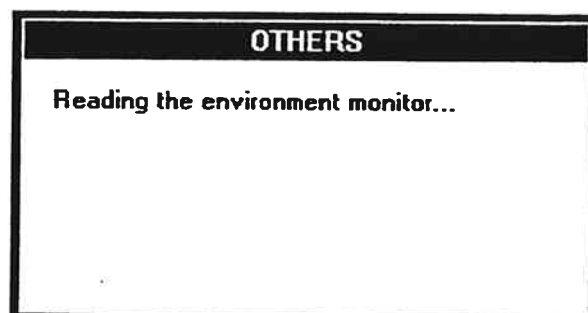


3. <Check environment monitor read>

"Reading configuration..." is displayed.



"Reading the environment monitor..." is displayed.
Go to [13] (REP04-350).



[5] PCI CONN

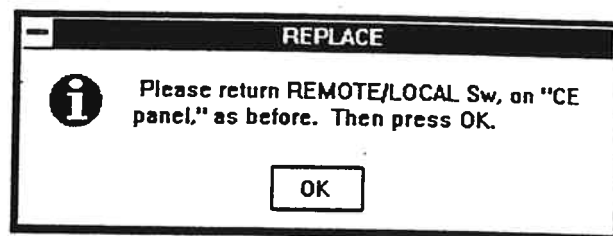
1. <Reset CE panel SW>

Reset REMOTE/LOCAL SW to original value in response to "Please return REMOTE/LOCAL Sw, on "CE panel," as before. Then press OK."

(see HARDWARE T6) (REP03-580).

After checking SW setting, select [OK] (CL).

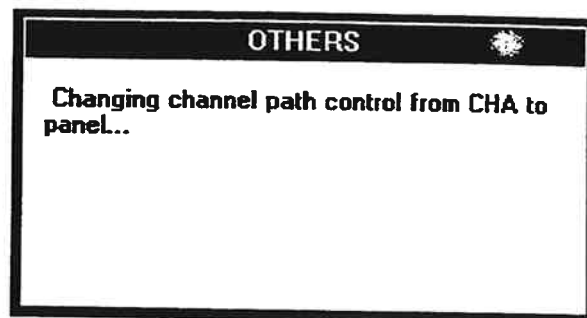
Go to [13] (REP04-350).



[6] RCU CONN

1. <Change CHP mode>

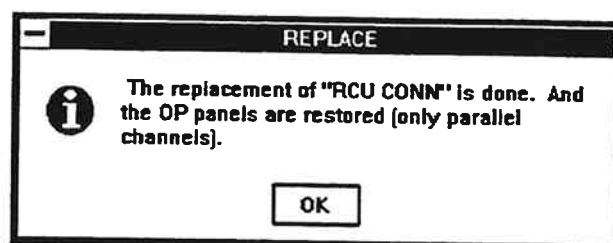
"Changing channel path control from CHA to panel..." is displayed.



2. "The replacement of "RCU CONN" is done. And the OP panels are restored (only parallel channels)." is displayed.

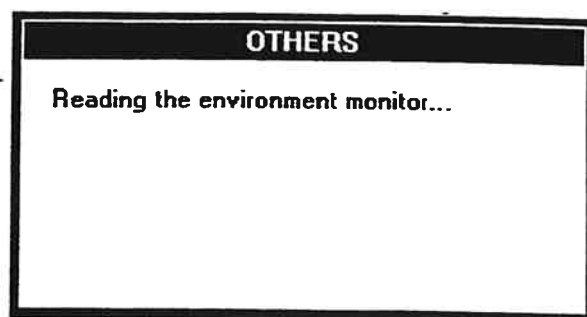
Select [OK] (CL).

Go to [15] (REP04-350).



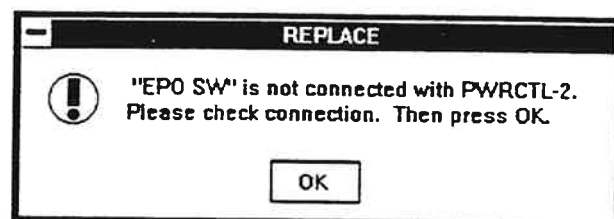
[7] EPO SW

1. "Reading the environment monitor..." is displayed.



2. <Check connection>

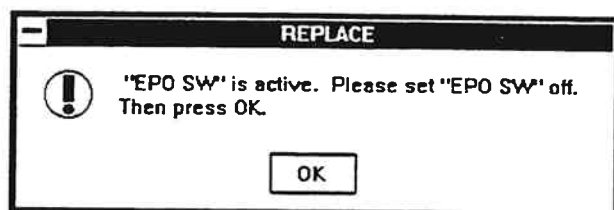
If EPO SW is not connected with PWRCTL-2, connect them and select [OK] (CL). Go to 1 again.



<Check EPO SW status>

If EPO SW is not active, go to [11] (REP04-320).

If EPO SW is pulled (active), set correctly and select [OK] (CL). Go to 1 again.

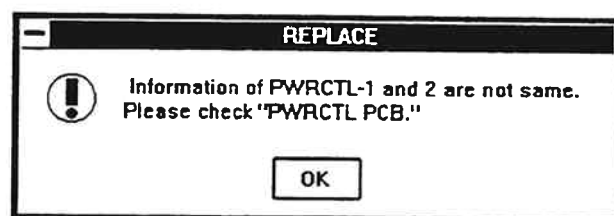


If either message displayed three times, go to 4.

3. <PWRCTL's are not same>

When checking EPO SW status, information of PWRCTL-1 and 2 are not same, select [OK].

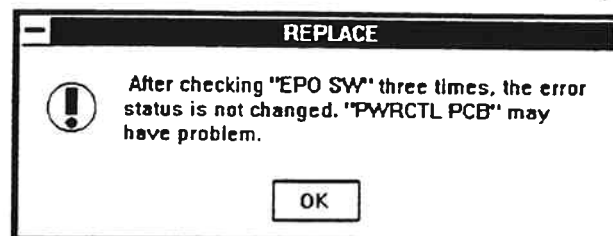
Go to [14] (REP04-350).



4. <Checking connection, and EPO SW three times and status is not changed.>

If you repeat from step 2 three times, the error message is displayed. Select [OK] (CL).

Go to [14] (REP04-350).



[8] OUTLET BOX

1. Power on SVP.

2. Wait a few minutes.

Message "Loading SVP program" will be extinguished.

Go to [15] (REP04-350).

[9] SVP

If Setup Installer floppy has version 01-00-xx-xx/xx, follow procedure [A] REP04-301. Otherwise if the Setup Installer floppy has version 01-01-xx, follow procedure [B] REP04-305.

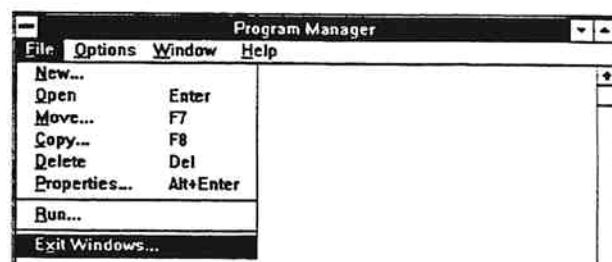
A. If Setup Installer version is 01-00-xx-xx/xx.

1. Powering up the SVP

2. Close Windows

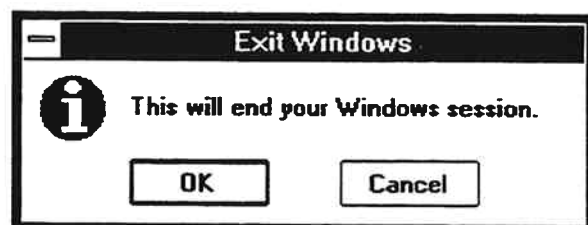
① <Select [Exit Windows...]>

Select [Exit Windows...] from [File] (DR).



② <Check ending of [Windows]>

Select [OK] (CL) in response to "This will end your Windows session."



3. Installation of Micro-program

- ① Insert the floppy disk of (1/14) into the FDD.
- ② Input "a:\setcopy.bat" in 'DOS prompt', and press the [Enter] key.
- ③ When the message "SET FD NO. (2/14)" is displayed, insert the floppy disk of (2/14) into the FDD and press the [Enter] Key.
- ④ Copy the remaining floppy disks ((3/14) ~ (13/14)) in succession in response to the displayed messages.
- ⑤ When the message "SET FD NO. (14/14)" is displayed, remove the floppy disk of (13/14) from FDD.
- ⑥ Press the [Ctrl] and [C] keys simultaneously.
- ⑦ Input "Y" keys in response to "Terminate batch job (Y/N)?", press the [Enter] key.

4. Reboot the PC.

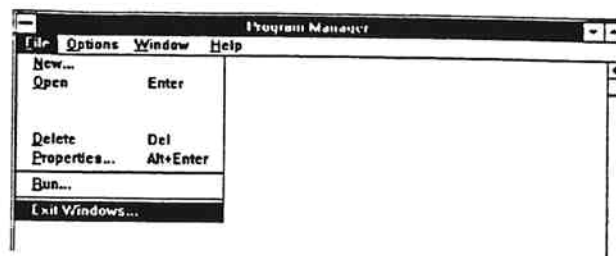
- ① Reboot the PC by [Alt], [Ctrl], and [Del] keys simultaneously.

5. Installation of Program group and item.

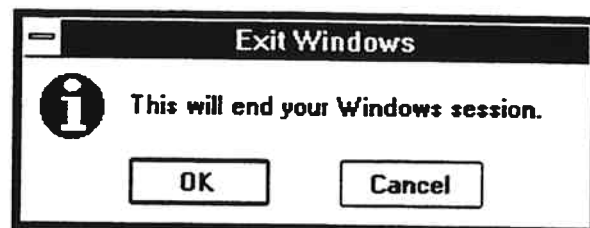
- ① Insert the floppy disk of (1/14) into the FDD.
- ② Select [File] and [Run] in Program Manager.
- ③ Input "a:\setup.exe" on command line, and select [OK]. The 'SVP' and the 'Startup' groups will be made.
- ④ Select 'Startup' and press [Ctrl] key and [F4] key simultaneously.
- ⑤ Remove the floppy disk of (1/14) from FDD.

5-1 Reboot the PC

- ① <Select [Exit Windows...]>
Select [Exit Windows...] from [File] (DR).



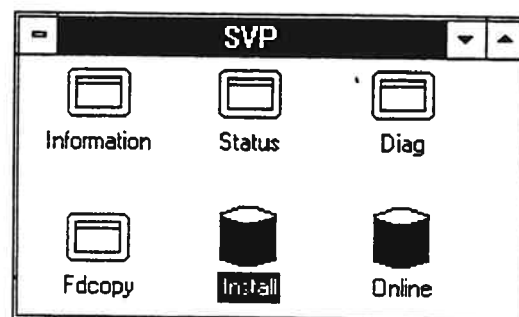
- ② <Check ending of [Windows]>
Select [OK] (CL) in response to "This will end your Windows session."



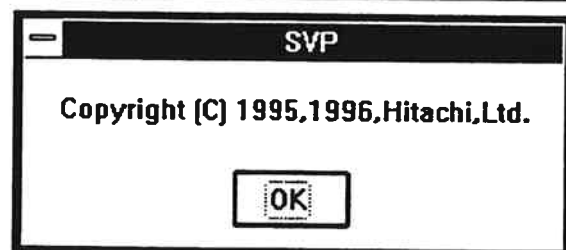
- ③ <Reboot the PC>
Reboot the PC by [Alt], [Ctrl] and [Del] keys simultaneously.

6. Set IP address of PC.

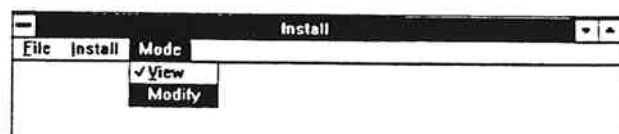
- ① <Open [Install]>
Select [Install] Icon from 'SVP' (DC).



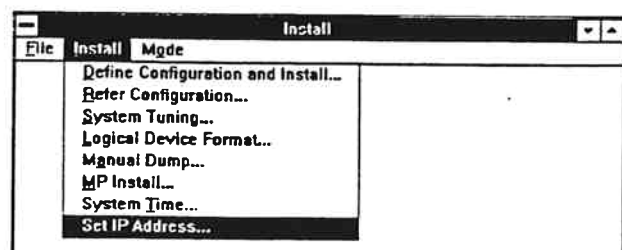
- ② <Check copyrights>
Select [OK] (CL).



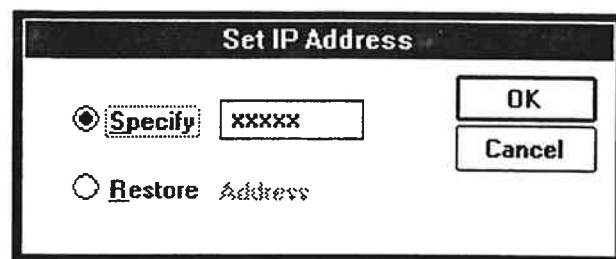
- ③ <Select [Modify]>
Select [Modify] from [Mode] (DR).



- ④ <Select [Set IP Address...]>
Select [Set IP Address...] from [Install] (DR).



- ⑤ <Input "Serial No.">
Select [Specify] (CL), and then select [OK] (CL)
after input "Serial No.".



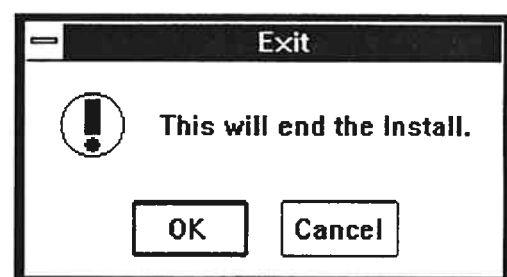
- ⑥ <Check PC reboot>
Select [OK] (CL).



- ⑦ <Select [Exit]>
Select [Exit] from [File] (DR).



- ⑧ <Check ending of [Install]>
Select [OK] (CL) in response to "This will end the Install.".

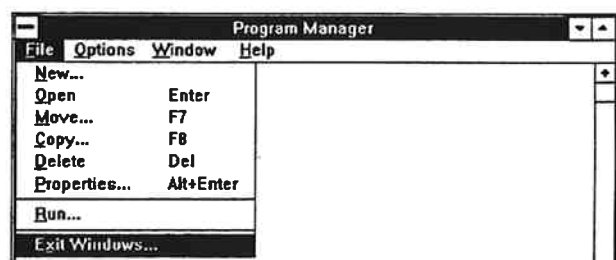


7. Copy the Configuration.

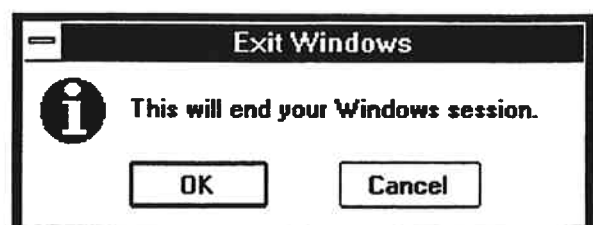
- ① Insert the floppy disk of (14/14) into the FDD.
- ② Select [Run] from [File].
- ③ Input "a:\all_conf.bat" on command line, and select [OK].
- ④ Remove the floppy disk of (14/14) from the FDD.

8. Close Windows

- ① <Select [Exit Windows...]>
Select [Exit Windows...] from [File] (DR).



- ② <Check ending of [Windows]>
Select [OK] (CL) in response to "This will end your Windows session.".



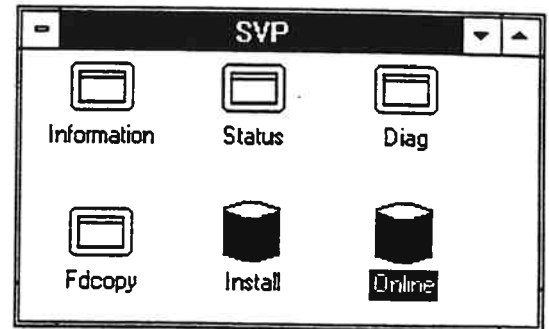
9. Reboot the PC.

- ① Reboot the PC by [Alt], [Ctrl], and [Del] keys simultaneously.

10. Load the Configuration from the SM to the PC's HDD.

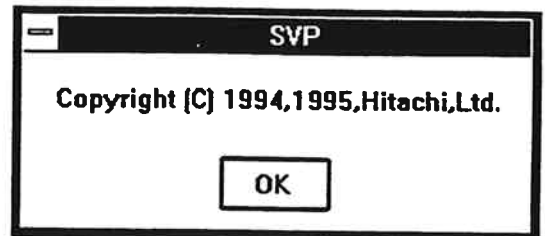
- ① <Open [Online]>

Select [Online] from 'SVP' (DC).



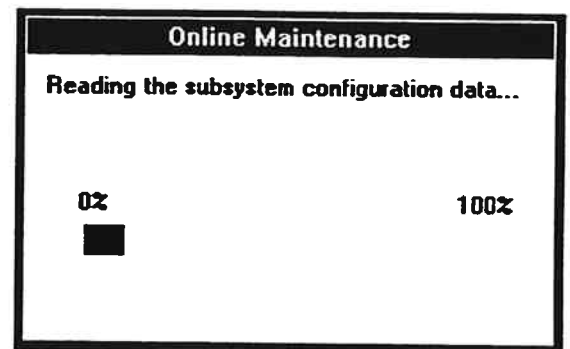
- ② <Check copyrights>

Select [OK] (CL).



- ③ <“Reading the Subsystem Configuration”>

“Reading the subsystem configuration data...” is displayed.



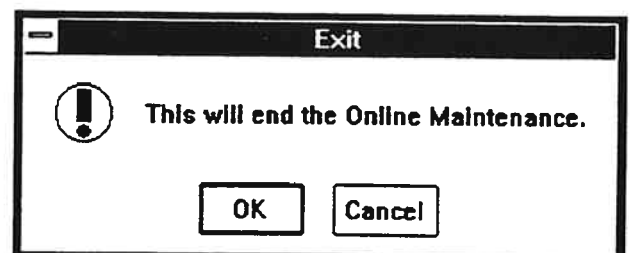
- ④ <Select [Exit]>

Select [Exit] from [File] (DR).



- ⑤ <Check ending of [Online]>

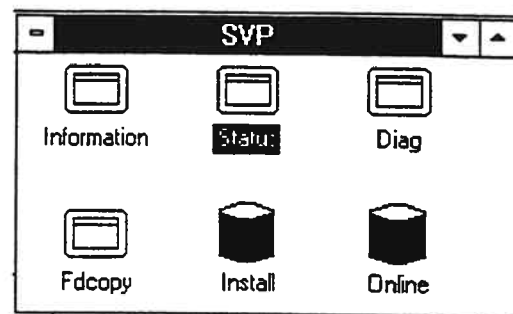
Select [OK] (CL) in response to “This will end the Online Maintenance.”.



11. Check SVP-DKC Connection.

① <Open [Status]>

Select [Status] Icon from 'SVP' (DR)



② Check "Connection error occurred SVP-DKC." is not displayed.

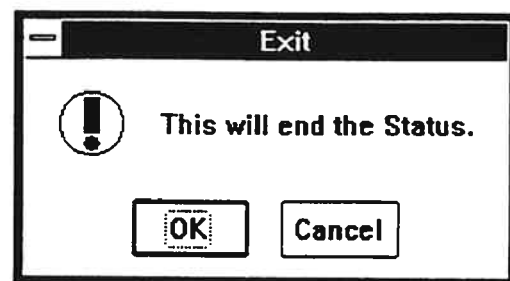
③ <Select [Exit]>

Select [Exit] from [File] (DR).



④ <Check ending of [Status]>

Select [OK] (CL) in response to "This will end the Status.".



B. If Setup Installer version is 01-01-xx-xx/xx or after.

Note) If Setup Installer version is 01-02-xx-xx/xx or after, the floppy disk number is (1/19) ~ (19/19).

1. Powering up the SVP

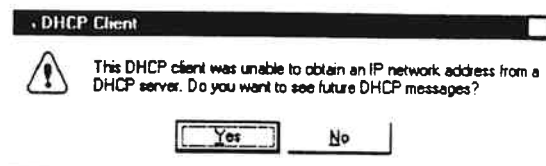
1-1 Set LAN Card Driver

• Windows3.1

Go to 2.

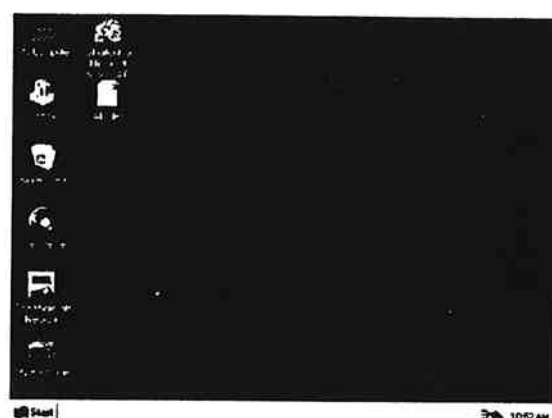
• Windows95

If SVP displays a message, "This DHCP client was unable to obtain an IP network address from a DHCP server. Do you want to see future DHCP messages?", select [Yes] (CL) and go to ①. If SVP does not display the message, go to 2.



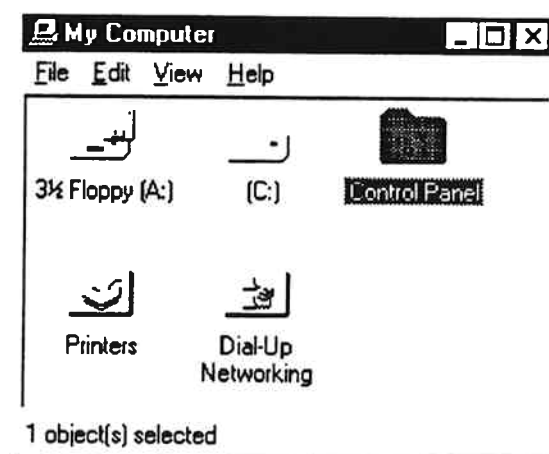
① <Open "My Computer">

Select "My Computer" (DC).



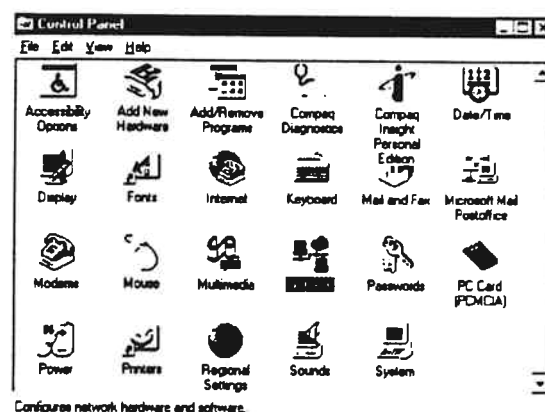
② <Open "Control Panel">

Select "Control Panel" from "My Computer" (DC).



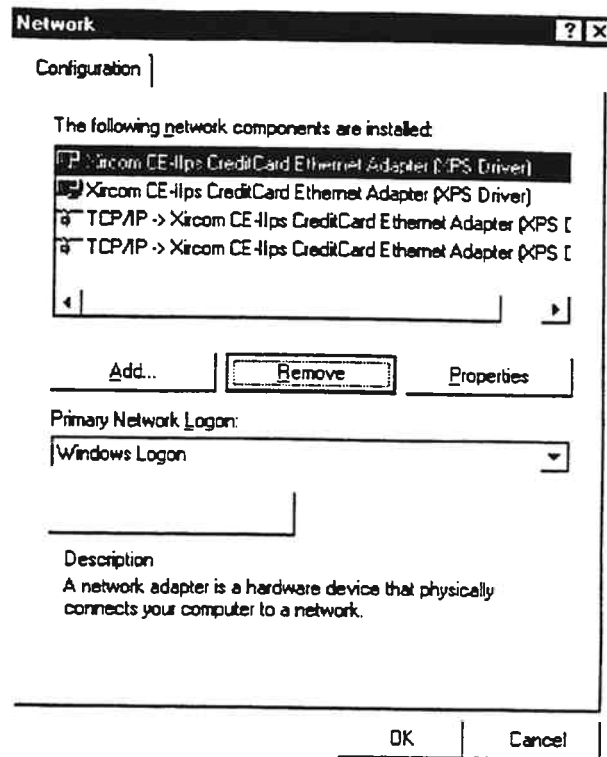
③ <Open "Network">

Select "Network" from "Control Panel" (DC).



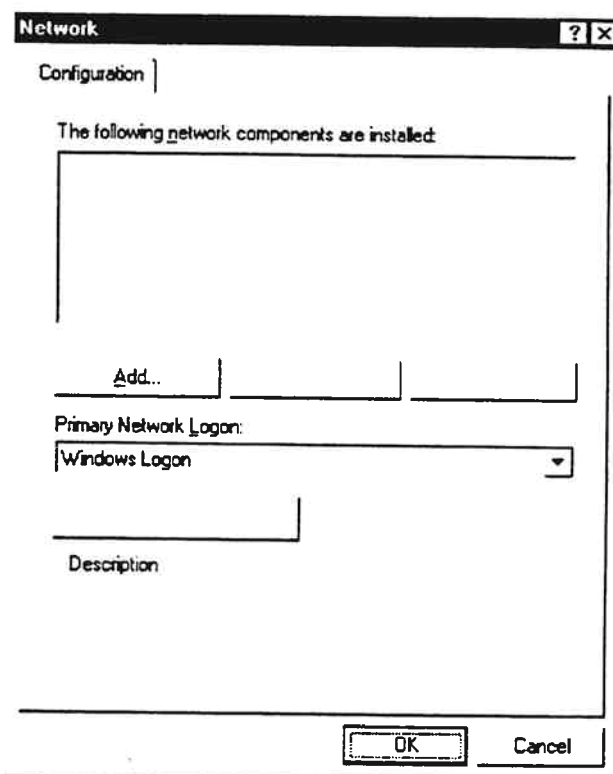
④ <Delete "Network components">

Select one of the "Network components" from "Configuration" (CL), and select [Remove] (CL). Delete other all "Network components" for this operation.



⑤ <Close "Network">

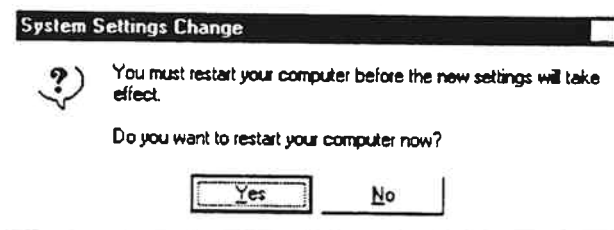
Select [OK] from "Configuration" of "Network" (CL).



⑥ <Reboot the SVP>

Select [Yes] (CL) in response to "You must restart your computer before the new settings will take effect."

Do you want to restart your computer now?"



⑦ <Check setting LAN Card Driver>

Select [No] (CL) in response to "To finish setting up your new hardware, you must restart your computer."

Do you want to restart your computer now?.

System Settings Change



To finish setting up your new hardware, you must restart your computer.

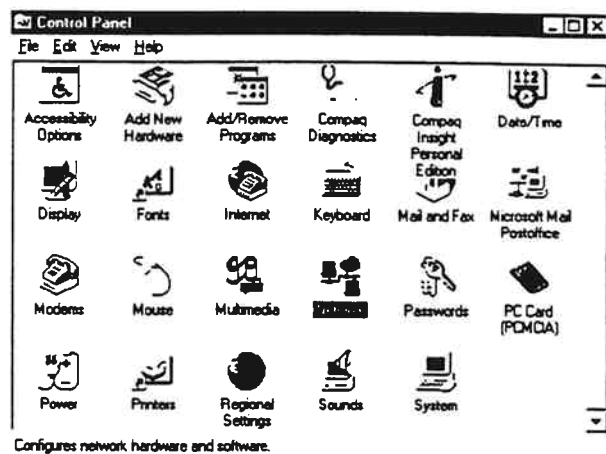
Do you want to restart your computer now?

Yes

No

⑧ <Open "Network">

Select "Network" from "Control Panel" (DC).



⑨ <Delete "Network components">

Select all "Network components" from "Configuration" of "Network" except the following necessary "Network components", and select [Remove] (CL).

Necessary "Network components"
Xircom CE-IIps Credit Card Ethernet Adapter [XPS Driver]

Network

Configuration | Identification | Access Control |

The following network components are installed:

- Client for Microsoft Networks
- Client for NetWare Networks
- Xircom CE-IIps Credit Card Ethernet Adapter [XPS Driver]
- IPX/SPX-compatible Protocol
- NetBEUI

Add...

Remove

Properties

Primary Network Logon:

Client for Microsoft Networks

File and Print Sharing...

Description

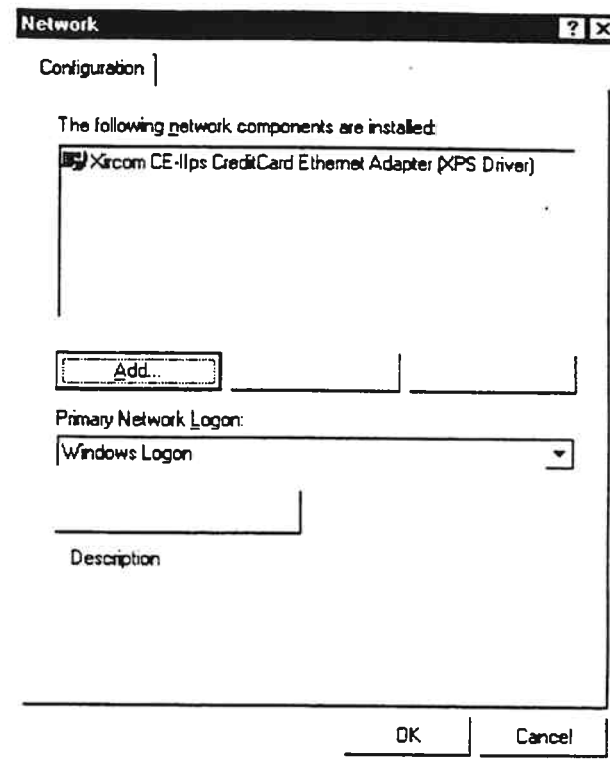
The Client for Microsoft Networks enables you to connect to other Microsoft Windows computers and servers and use the files and printers shared on them.

OK

Cancel

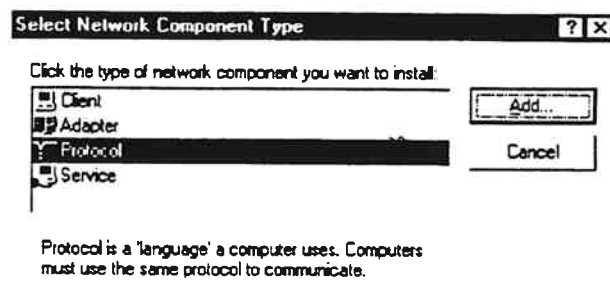
⑩ <Add "Network components">

Select [Add...] from "Configuration" of "Network" (CL).



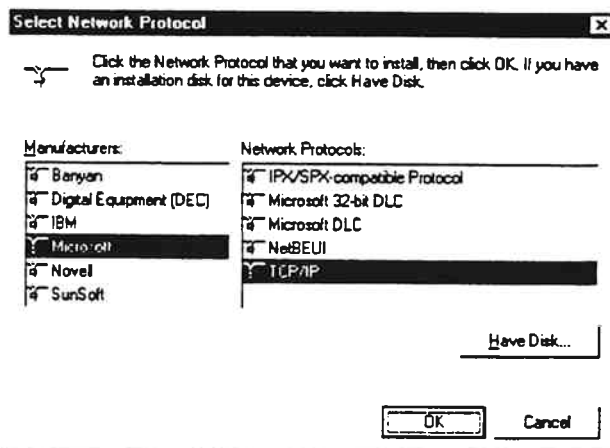
⑪ <Add "Protocol">

Select "Protocol" from "Select Network Components Type" (CL), and select [Add...] (CL).



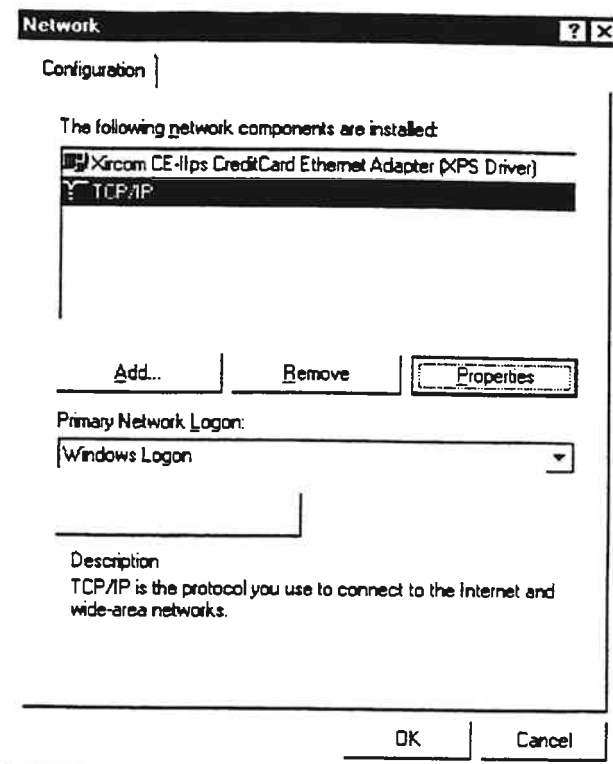
⑫ <Select "Protocol">

Select "Microsoft" from "Manufacturers" (CL), and "TCP/IP" from "Network Protocols" (CL), and select [OK] (CL).



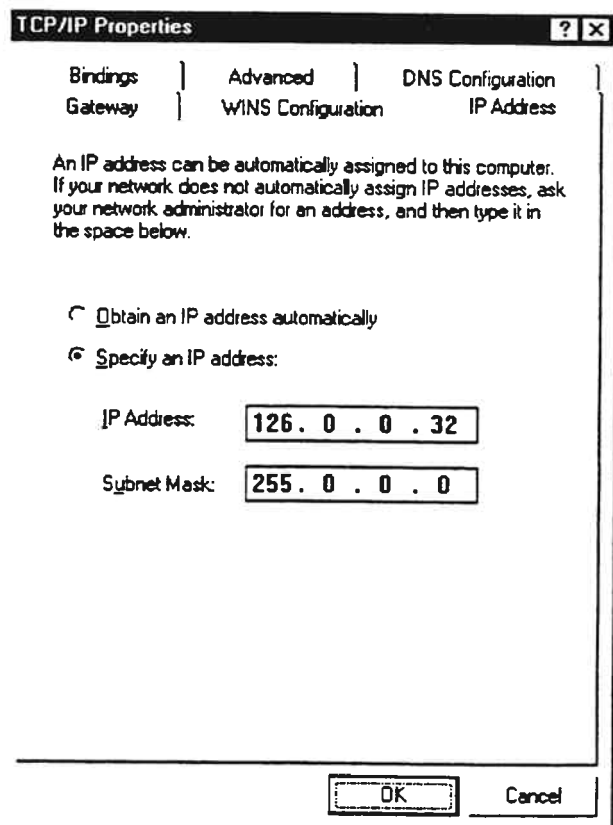
⑬ <Set "TCP/IP">

Select "TCP/IP" from "Configuration" (CL), and select [Properties] (CL).



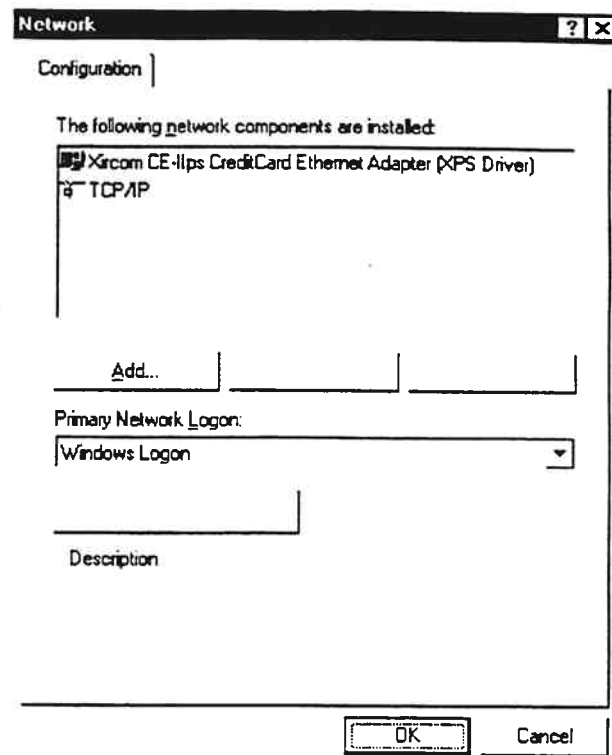
⑭ <Select "IP Address">

Select "Specify an IP Address" from "IP Address" (CL), and set "126.0.0.32" for "IP Address", and set "255.0.0.0" for "Subnet Mask", and select [OK] (CL).



⑮ <Close "Network">

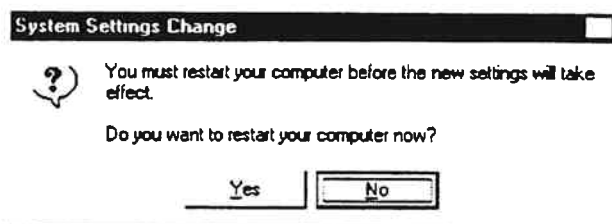
Select [OK] from "Configuration" of "Network" (CL).



⑯ <Check reboot SVP>

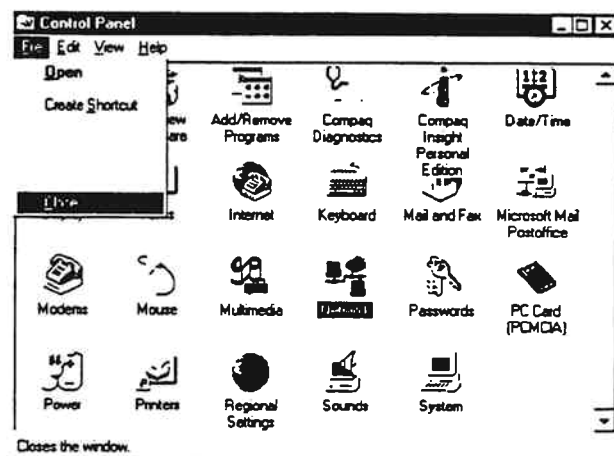
Select [No] (CL) in response to "You must restart your computer before the new settings will take effect."

Do you want to restart your computer now?".

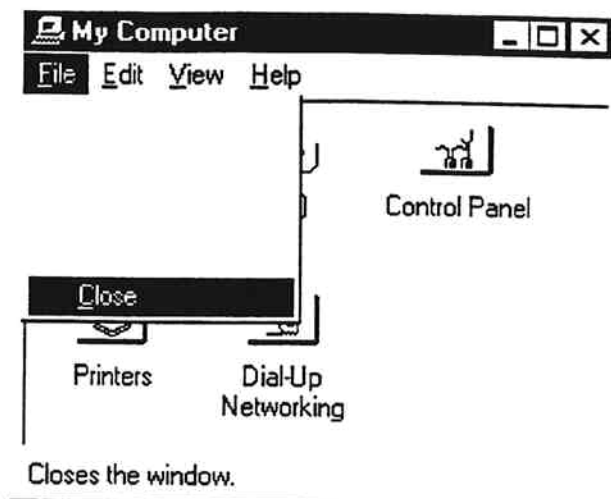


⑰ <Close "Control Panel">

Select [Close] from [File] (DR).



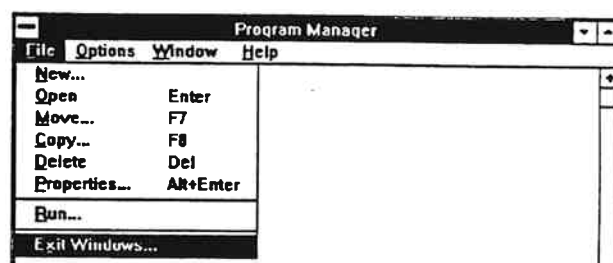
- ⑩ <Close "My Computer">
Select [Close] from [File] (DR).



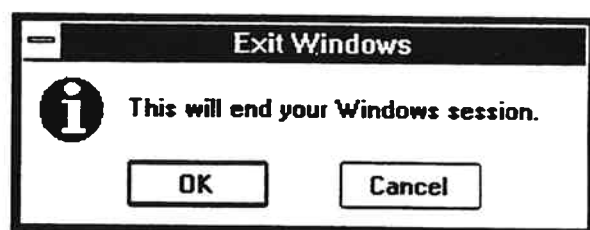
2. Close Windows

• Windows3.1

- ① <Select [Exit Windows...]>
Select [Exit Windows...] from [File] (DR).

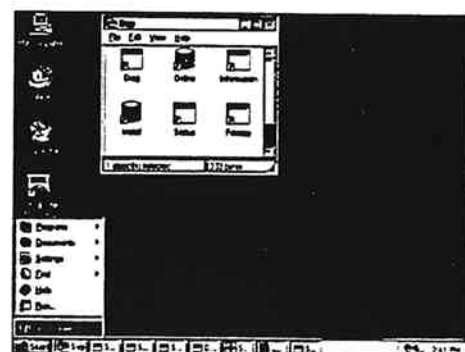


- ② <Check ending of [Windows]>
Select [OK] (CL) in response to "This will end your Windows session."

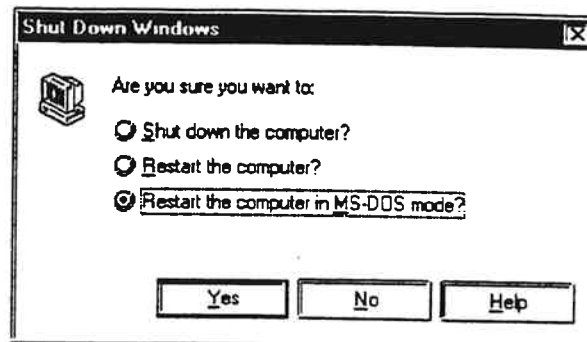


• Windows95

- ① <Select [Shut Down]>
Select [Shut Down] from [Start] (DR).



- ② <Select "Restart the computer in MS-DOS mode">
Select "Restart the computer in MS-DOS mode" from Shut Down Windows, and select [OK] (CL) in response to "Are you sure you want to:".



3. Installation of Micro-program

- ① Insert the floppy disk of (1/14 or 1/19) into the FDD.
- ② Input "a:\setcopy.bat" in 'DOS prompt', and press the [Enter] key.
- ③ When the message "SET FD NO. (2/14 or 2/19)" is displayed, insert the floppy disk of (2/14 or 2/19) into the FDD and press the [Enter] Key.
- ④ Copy the remaining floppy disks ((3/14 or 3/19) ~ (14/14 or 19/19)) in succession in response to the displayed messages.
- ⑤ When the message "SET FD NO. (1/14 or 1/19)" is displayed, insert the floppy disk of (1/14 or 1/19) into the FDD and press the [Enter] key.
- ⑥ Remove the floppy disk of (1/14 or 1/19) from FDD.

4. Copy the PC information to HD.

- ① Insert the floppy disk of (1/14 or 1/19) into the FDD.
- ② Input "a:\pcconf.bat" in 'DOS prompt' and press the [Enter] key.
- ③ The message ""pcconf" change START!!" is displayed, and the message ""pcconf" change END!!" after file copy.
- ④ Press the [Enter] key, and remove the floppy disk of (1/14 or 1/19) from the FDD.

4-1 Copy the ARMADA PC information to HD

If the PC is ARMADA (COMPAQ-made) and Windows3.1.

- ① Input "c:\armada31.bat" in 'DOS prompt' and press the [Enter] key.
- ② The message ""ARMADA31" change START!!" is displayed, and the message ""ARMADA31" change END!!" after file copy.
- ③ Press the [Enter] key.

5. Reboot the PC.

- ① Reboot the PC by [Alt], [Ctrl], and [Del] keys simultaneously.

6. Installation of Program group and item.

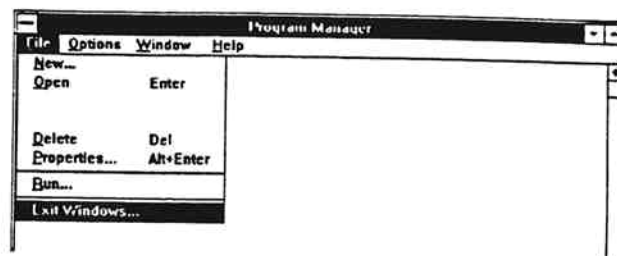
- ① Insert the floppy disk of (1/14 or 1/19) into the FDD.
- ② Select [File] and [Run] in Program Manager.
- ③ Input "a:\setup.exe" on command line, and select [OK]. The 'SVP' and the 'Startup' groups will be made.
If the Task bar is displayed, go to ⑤. (Task bar : See the figure in subsection 10.1.2 (2) of SVP section.)
- ④ Select 'Startup' and press [Ctrl] and [F4] keys simultaneously.
- ⑤ Remove the floppy disk of (1/14 or 1/19) from FDD.

6-1 Reboot the PC

• Windows3.1

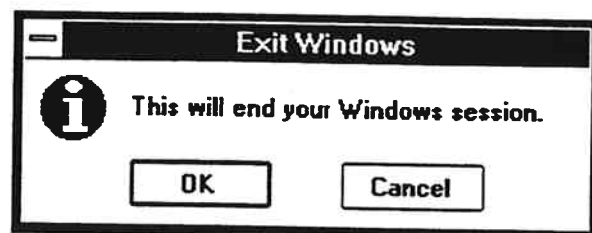
① <Select [Exit Windows...]>

Select [Exit Windows...] from [File] (DR).



② <Check ending of [Windows]>

Select [OK] (CL) in response to "This will end your Windows session."



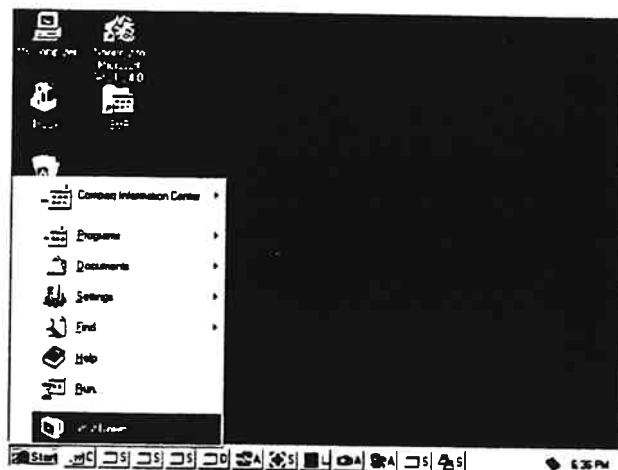
③ <Reboot the PC>

Reboot the PC by [Alt], [Ctrl] and [Del] keys simultaneously.

• Windows95

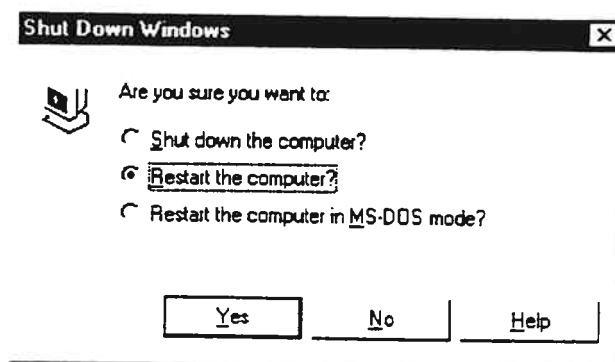
① <Select [Shut Down]>

Select [Shut Down] from [Start] (DR).



② <Reboot the PC>

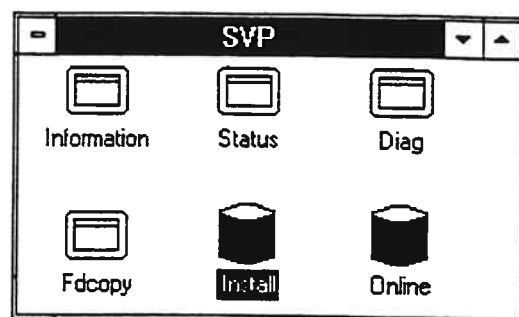
Select "Restart the computer" from Shut Down Windows, and select [OK] (CL) in response to "Are you sure you want to."



7. Set IP address of PC.

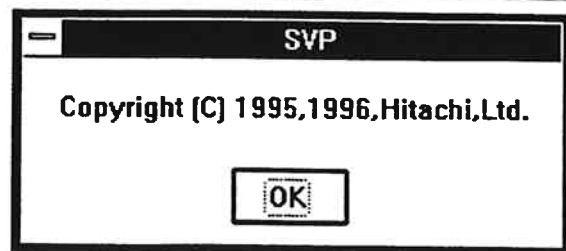
① <Open [Install]>

Select [Install] Icon from 'SVP' (DC).



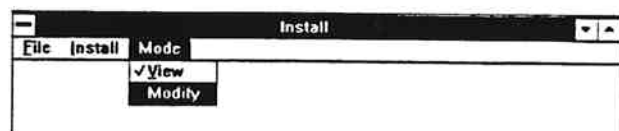
② <Check copyrights>

Select [OK] (CL).



③ <Select [Modify]>

Select [Modify] from [Mode] (DR).



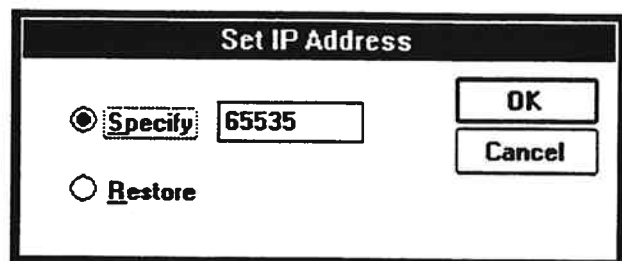
④ <Select [Set IP Address...]>

Select [Set IP Address...] from [Install] (DR).



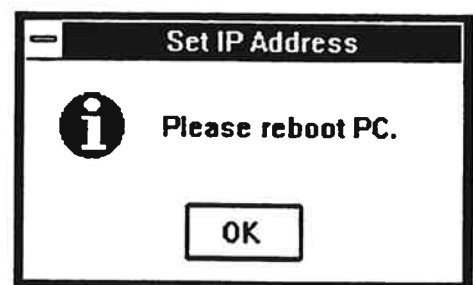
⑤ <Input "Serial No.">

Select [Specify] (CL), and then select [OK] (CL) after entering "Serial No.".



⑥ <Check PC reboot>

Select [OK] (CL).



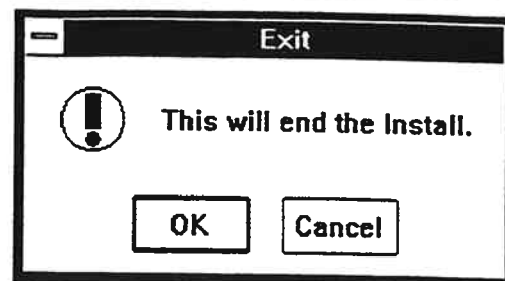
⑦ <Select [Exit]>

Select [Exit] from [File] (DR).



⑧ <Check ending of [Install]>

Select [OK] (CL) in response to "This will end the Install."

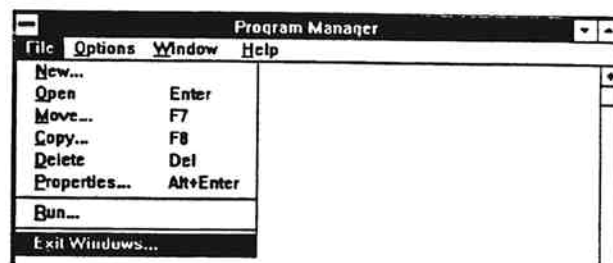


8. Close Windows.

• Windows3.1

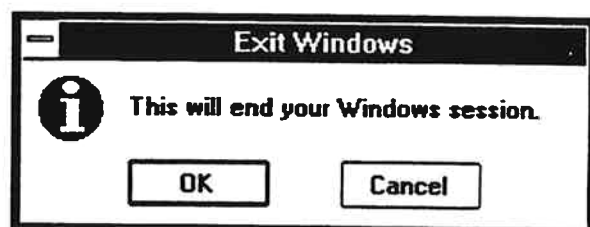
① <Select [Exit Windows...]>

Select [Exit Windows...] from [File] (DR).



② <Check ending of [Windows]>

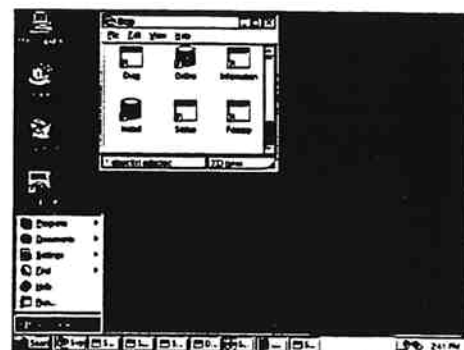
Select [OK] (CL) in response to "This will end your Windows session."



• Windows95

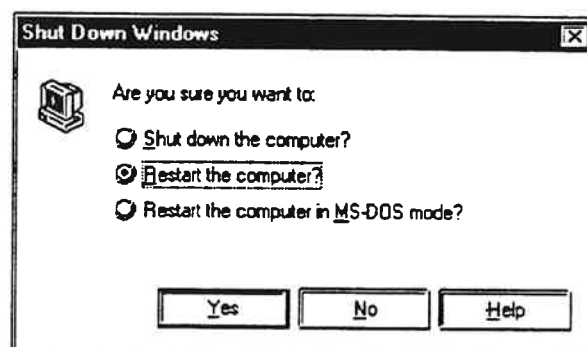
① <Select [Shut Down]>

Select [Shut Down] from [Start] (DR).



② <Select "Restart the computer">

Select "Restart the computer" from Shut Down Windows, and select [OK] (CL) in response to "Are you sure you want to:". Go to 10.



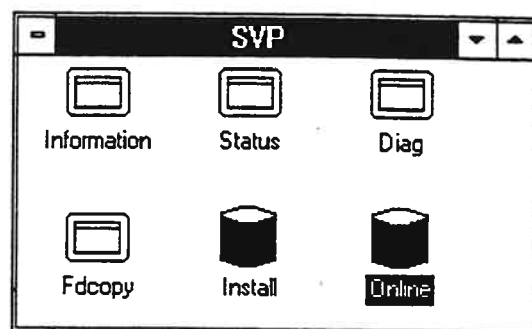
9. Reboot the PC.

- ① Reboot the PC by [Alt], [Ctrl], and [Del] keys simultaneously.

10. Load the Configuration from the SM to the PC's HDD.

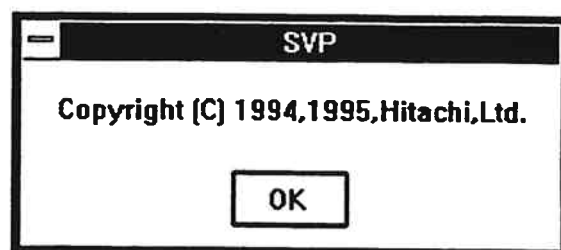
- ① <Open [Online]>

Select [Online] from 'SVP' (DC).

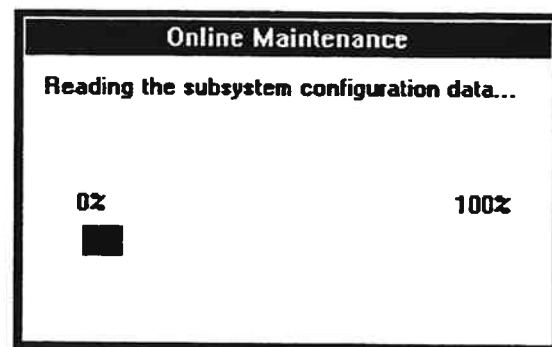


- ② <Check copyrights>

Select [OK] (CL).



- ③ <“Reading the Subsystem Configuration”>
“Reading the subsystem configuration data...” is displayed.



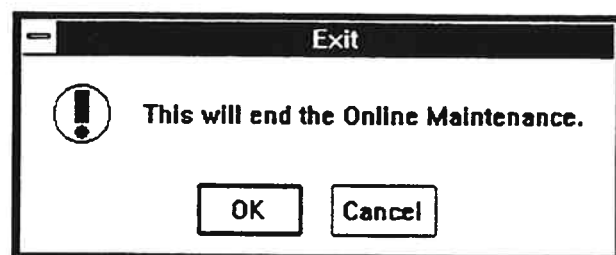
- ④ <Select [Exit]>

Select [Exit] from [File] (DR).



- ⑤ <Check ending of [Online]>

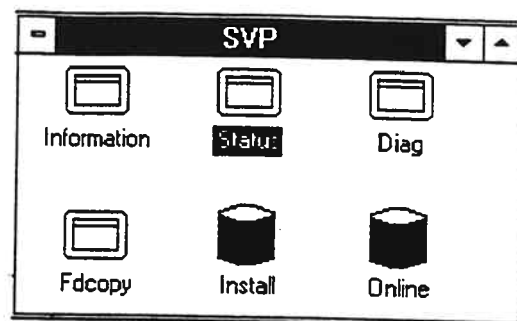
Select [OK] (CL) in response to “This will end the Online Maintenance.”.



11. Check SVP-DKC Connection.

① <Open [Status]>

Select [Status] Icon from 'SVP' (DR).



② Check "Connection error occurred SVP-DKC." is not displayed.

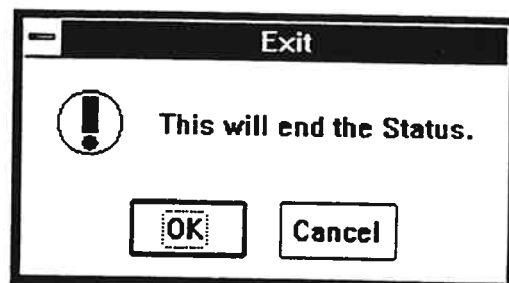
③ <Select [Exit]>

Select [Exit] from [File] (DR).



④ <Check ending of [Status]>

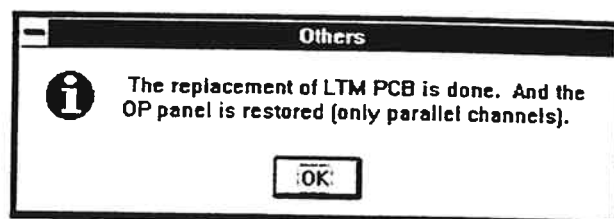
Select [OK] (CL) in response to "This will end the Status."



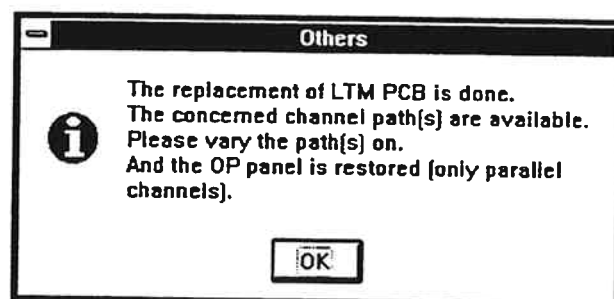
[10] LTM PCB (Terminator)

If message to varied off the concerned channel path(s) was displayed, go to 2.
Else, go to 1.

1. Select [OK] (CL) in response to the displayed message after replacing.
Go to [15] (REP04-350).



2. If the message is displayed as shown on the right, the concerned channel paths are available, please vary the paths on-line.
Go to [15] (REP04-350).



[11] REMOVAL OF JUMPERS

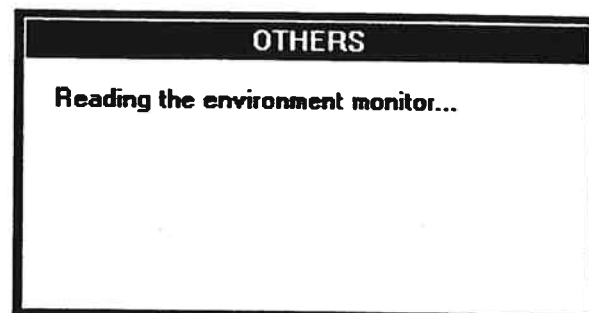
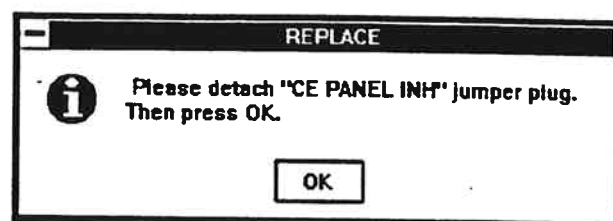
1. <Remove jumpers>

Remove jumpers from PWRCTL PCBs (1 and 2) in response to "Please detach "CE PANEL INH" jumper plug. Then press OK."

After confirming that jumpers are detached, select [OK] (CL).

"Reading the environment monitor..." is displayed.
Go to [13] (REP04-350).

If any jumper plug is not detached, go to 2.



2. <Check removal of jumpers>

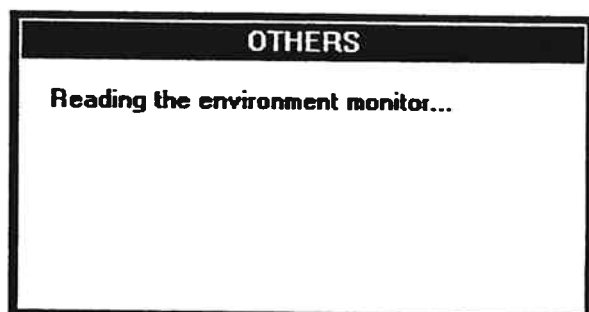
The message "'CE PANEL INH' jumper plug is not detached. Please detach it. Then press OK." is displayed. Detach jumper plugs and select [OK] (CL).



"Reading the environment monitor..." is displayed.
Go to [13] (REP04-350).

If any jumper is not detached, step 2 again.

If the same message is displayed twice, go to 3.



3. <error status>

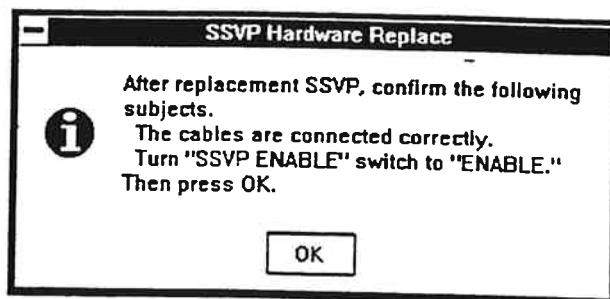
Select [OK] (CL).

[End of Replacement]

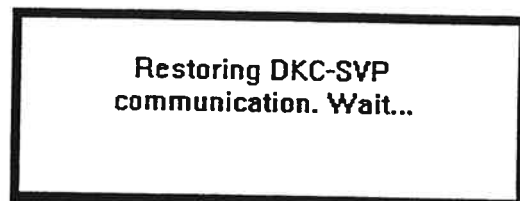


[12] SSVP/HUB

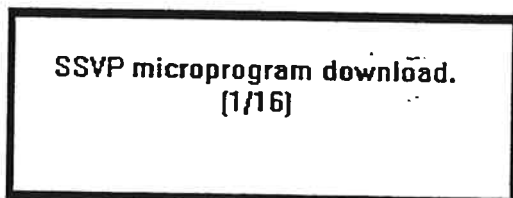
1. Confirm that the cables are connected correctly.
Turn on SSVP and select [OK] (CL).



2. The message "Restoring DKC-SVP communication. Wait..." is displayed.



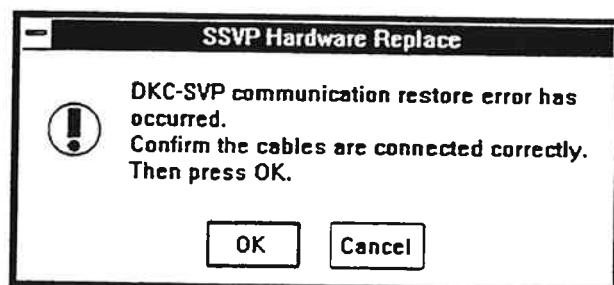
3. The message "SSVP microprogram download." is displayed. If the restore is successfully completed go to next step.



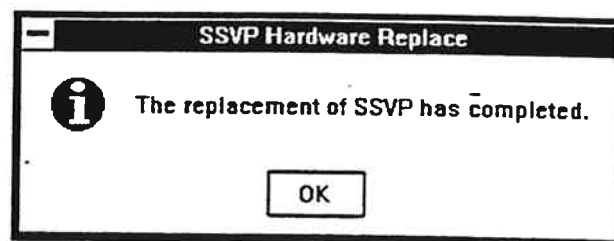
If an error has occurred in restoring , the error message is displayed.

If you select [OK] (CL) go back to step 2.

If you select [Cancel] (CL) go to step 5.



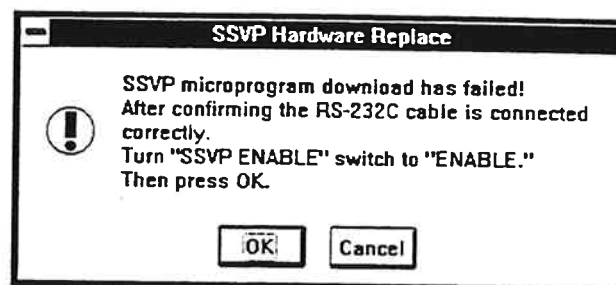
4. The message "The replacement of SSVP has completed."
is displayed.
Go to [15] (REP04-350).



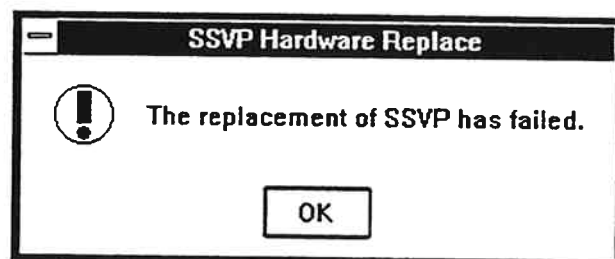
if an error has occurred while downloading, an error
message is displayed.

If you select [OK] (CL) go back to step 3.

If you select [Cancel] (CL) go to step 5.



5. The error message is displayed.

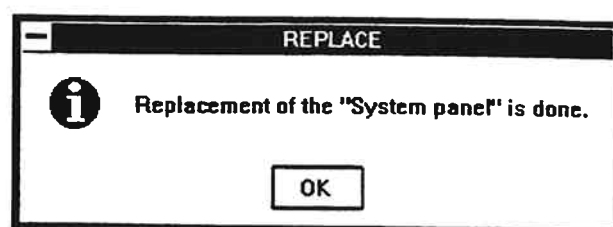


[End of POST-PROCEDURE]

[13] ending check

1. <Check end of replacement>

Select [OK] (CL) in response to "Replacement of the "XXXXXX" is done."



2. <Confirm status>

• PWRCTL-1/2

Confirm the status displayed on 'OTHERS' window.

If "NORMAL," go to [15] (REP04-350).

If "FAILED," replace the target part again, or see TROUBLE SHOOTING SECTION.

[End of POST-PROCEDURE]

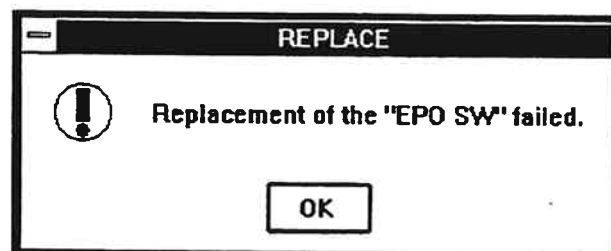
• Other P/K

Go to [15] (REP04-350).

[14] Replacement error

1. The error message "Replacement of the "XXXXXX" failed." is displayed as shown on the right.

[End of Replacement]



[15] SIM Complete

See SVP02-510.

Close 'OTHERS' window.

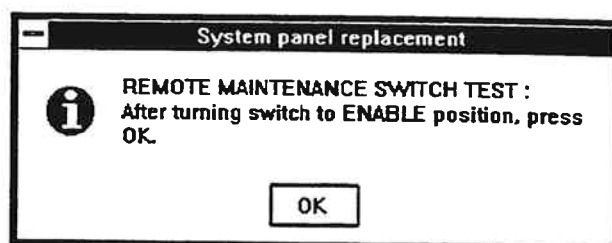
Close 'Hardware Maintenance' window.

Close 'Maintenance Online' window.

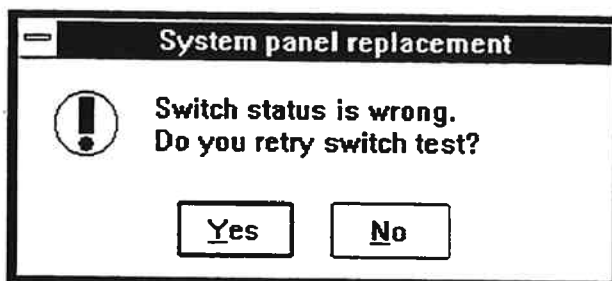
[End of POST-PROCEDURE]

[16] System panel

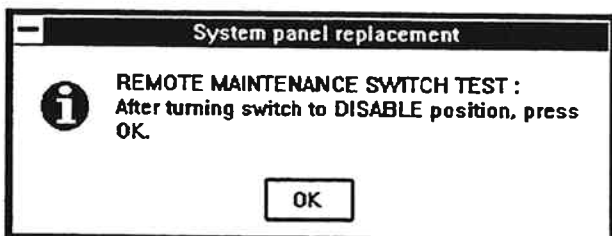
1. Select [OK] (CL) in response to "REMOTE MAINTENANCE SWITCH TEST: After turning switch to ENABLE position, press OK."



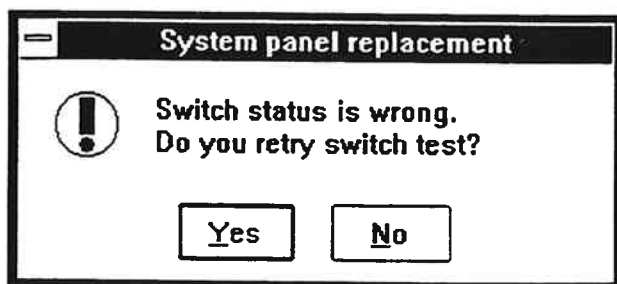
2. If an communication error has occurred, go to step 8.
If an error has occurred in the switch test, an error message is displayed.
If you select [Yes] (CL), go back to step 1.
If you select [No] (CL), go to [14] (REP04-350).



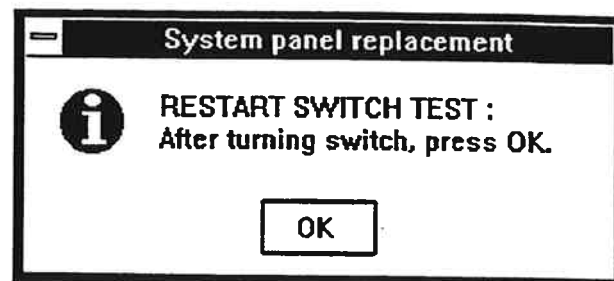
3. Select [OK] (CL) in response to "REMOTE MAINTENANCE SWITCH TEST: After turning switch to DISABLE position, Press OK."



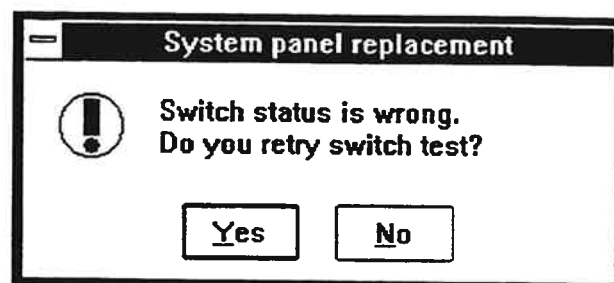
4. If an communication error has occurred, go to step 8.
If an error has occurred in the switch test, an error message is displayed.
If you select [Yes] (CL), go back to step 3.
If you select [No] (CL), go to [14] (REP04-350).



5. Select [OK] (CL) in response to "RESTART SWITCH TEST: After turning switch, press OK."

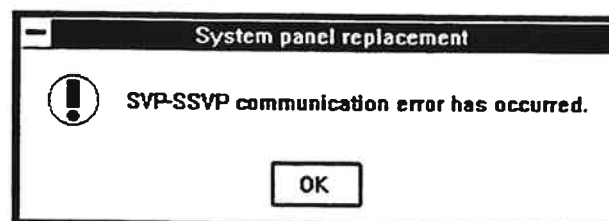


6. If a communication error has occurred, go to step 8.
If an error has occurred in the switch test, an error message is displayed.
If you select [Yes] (CL), go back step 5.
If you select [No] (CL), go to [14] (REP04-350).



7. If switch test is successfully completed, go to [13] (REP04-350).

8. Select [OK] (CL) in response to "SVP-SSVP communication error has occurred."
Press [OK], go to [14] (REP04-350).



[POST-PROCEDURE t3]

— OUTLINE —

- ① Specify end of special part replacement.
- ② Reinstall related parts.
- ③ Start environment monitor.
- ④ SIM Complete

[1] START OF POST-PROCEDURE

1. <Check special part replacement>

• 'xxPSn'

When redundant power supply is not installed. ——— Go to [7] (REP04-401)

• 'Breaker Box-1' — Go to [3] (REP04-390)

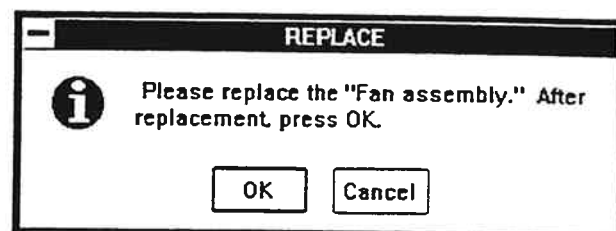
Select [OK] (CL) in response to "Please replace the "XXXXXX" After replacement, press OK.".

Valid "XXXXXX" values are listed below.

• 'FAN' ————— Go to [2] (REP04-380)

• 'Battery' ————— Go to [2] (REP04-380)

• 'TH' ————— Go to [2] (REP04-380)

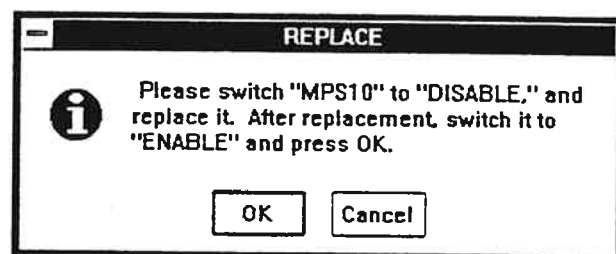


Select [OK] (CL) in response to "Please switch "xxPSn" to "DISABLE," and replace it. After replacement, switch it to "ENABLE" and press OK.".

• 'xxPSn'

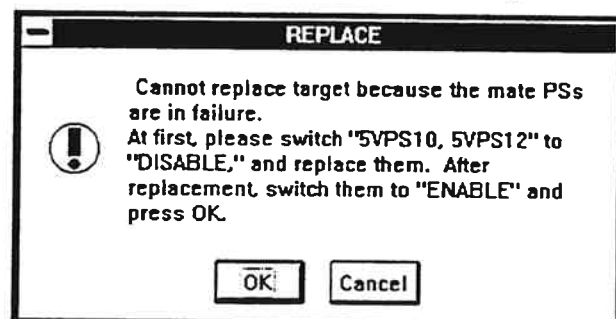
When redundant power supply is installed.

———— Go to [2] (REP04-380)



Select [OK] (CL) in response to "Cannot replace target because the mate PSs are in failure. At first, please switch "5VPSn, 5VPSx2" to "DISABLE," and replace them. After replacement, switch them to "ENABLE" and press OK.".

• '5VPSn' ————— Go to [2] (REP04-380)

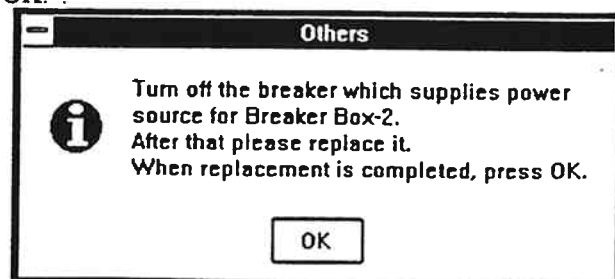


Select [OK] (CL) in response to "Turn off the breaker which supplies power source for Breaker Box-2. After that please replace it. When replacement is completed, press OK.".

• 'Breaker Box-2'

When redundant power supply is installed. — Go to [2] (REP04-380)

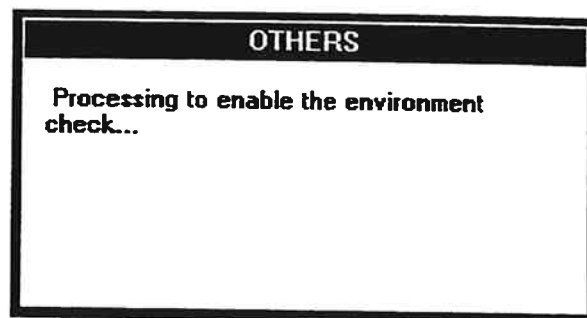
Not installed. — Go to [4] (REP04-400)



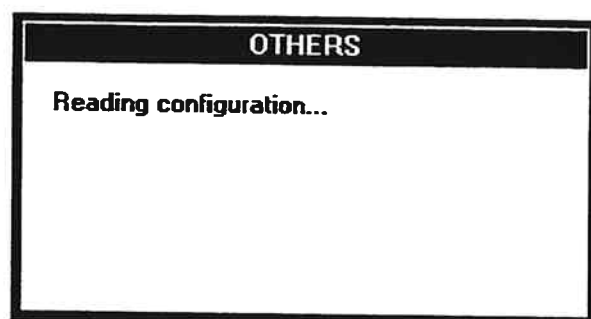
[2] FAN, PS, Battery, TH, Breaker Box-2

1. <Checking the environment monitor start processing>
"Processing to enable the environment check..." is displayed.

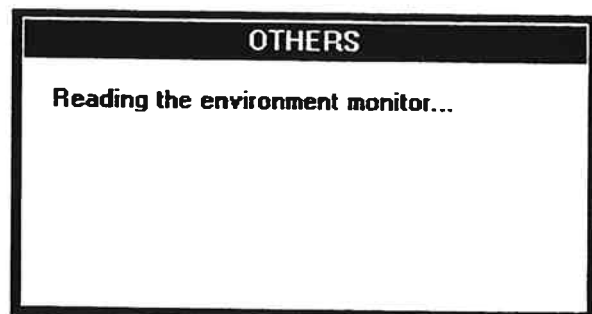
Wait about 30 sec..



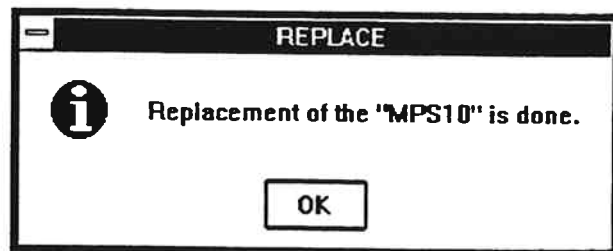
2. <Checking environment monitor read>
"Reading configuration..." is displayed.



"Reading the environment monitor..." is displayed.



3. <Checking the end of replacement>
Select [OK] (CL) in response to "Replacement of the 'XXXXXX' is done.".



4. <Confirm status>

- FAN, PS, Battery, TH

Confirm the status displayed on 'DKC Cluster-x' window.

If "NORMAL," go to [5] (REP04-401).

IF "FAILED," replace the target part again, or see TROUBLE SHOOTING SECTION.

[End of POST-PROCEDURE]

- Breaker Box-2

Go to [5] (REP04-401).

[3] Breaker Box-1

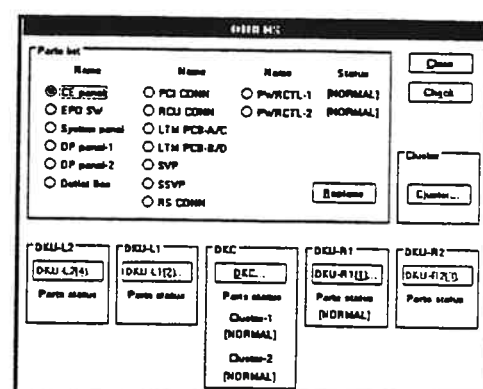
1. <Open 'OTHERS' window>

Open 'OTHERS' window.

(See PRE-PROCEDURE A (REP02-20) and PRE-PROCEDURE T3 [1]-1, 2 (REP02-560))

2. <selecting Cluster>

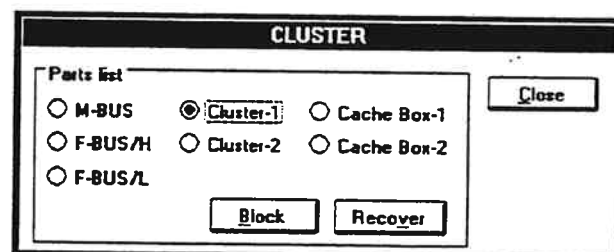
Select [Cluster] from 'OTHERS' (CL).



3. <selecting recover>

① When first message of replacement is "This operation will block Cache Box-1. Do you want to replace the "Breaker Box-1?", select [Cache Box-1] from 'CLUSTER' (CL) and select [Recover] (CL).

② Otherwise, select [Cluster-1] from 'CLUSTER' (CL) and select [Recover] (CL).



4. <Beginning Restore>

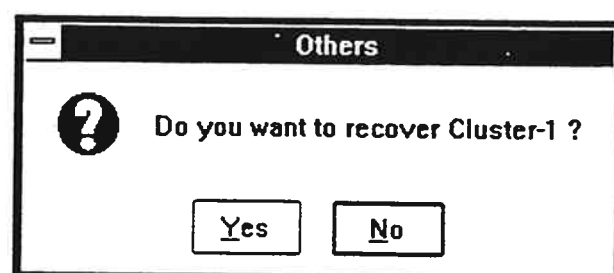
Select [Yes] (CL) in response to "Do you want to recover XXXXX?".

XXXXXX represents one of the part names selected in step 3.

If XXXXXX is blockade. Go to 6

If XXXXXX is normal. Go to 7

If XXXXXX is fail. Go to 5

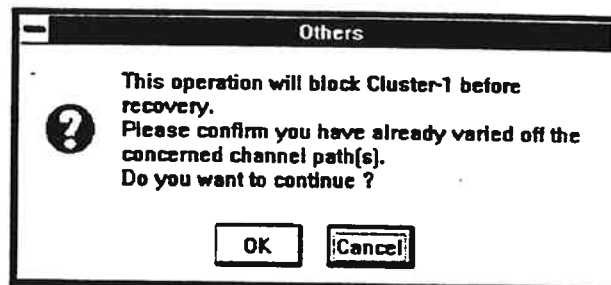


5. <Confirm blocking limit>

When recovering Cluster-1,

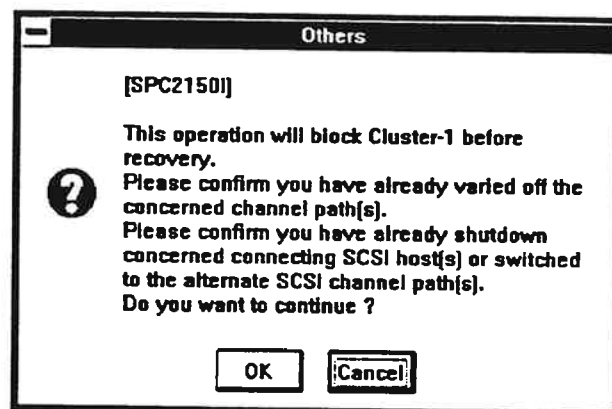
- When only serial or parallel channels, or they are mixed.

Select [OK] (CL) in response to "This operation will block Cluster-1 before recovery. Please confirm you have already varied off the concerned channel path(s). Do you want to continue?".



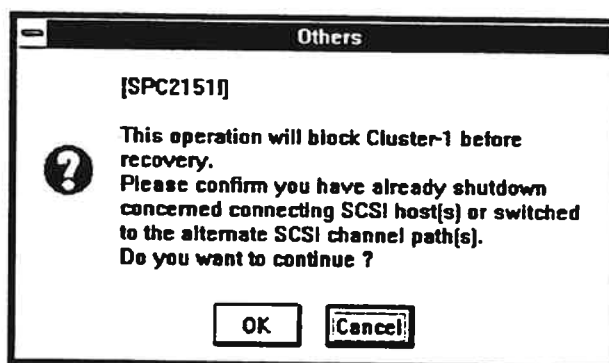
- When SCSI channels and other kinds are mixed.

Select [OK] (CL) in response to "This operation will block Cluster-1 before recovery. Please confirm you have already varied off the concerned channel path(s). Please confirm you have already shutdown concerned connecting SCSI host(s) or switched to the alternate SCSI channel path(s). Do you want to continue?".

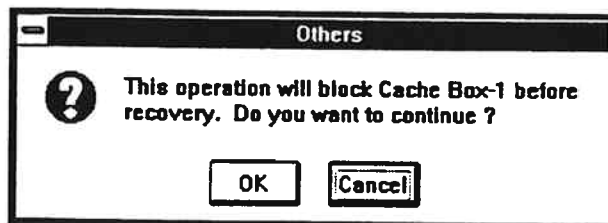


- When only SCSI channels are installed.

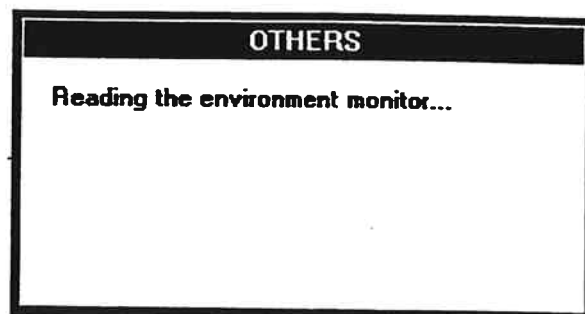
Select [OK] (CL) in response to "This operation will block Cluster-1 before recovery. Please confirm you have already shutdown concerned connecting SCSI host(s) or switched to the alternate SCSI channel path(s). Do you want to continue?".



When recovering Cache Box-1, select [OK] (CL) in response to "This operation will block Cache Box-1 before recovery. Do you want to continue?".



6. "Reading the environment monitor..." is displayed.

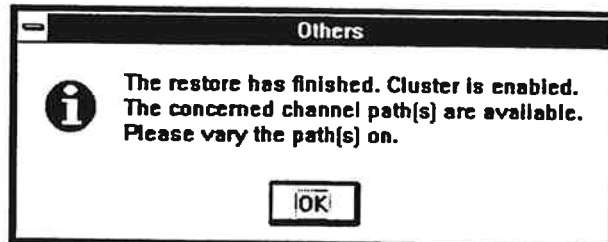


7. <end of Restore>

When recovering Cluster-1,

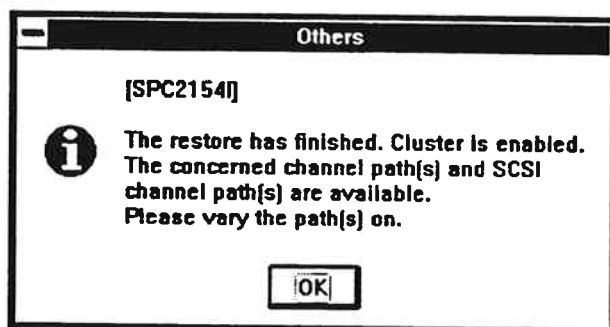
- When only serial or parallel channels, or they are mixed.

Select [OK] (CL) in response to "The restore has finished. Cluster is enabled. The concerned channel path(s) are available. Please vary the path(s) on.".



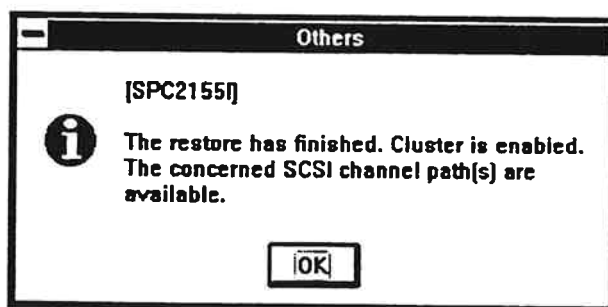
- When SCSI channels and other kinds are mixed.

Select [OK] (CL) in response to "The restore has finished. Cluster is enabled. The concerned channel path(s) and SCSI channel path(s) are available. Please vary the path(s) on.".



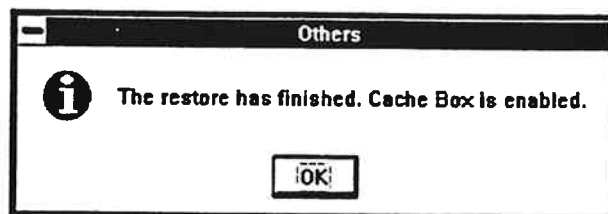
- When only SCSI channels are installed.

Select [OK] (CL) in response to "The restore has finished. Cluster is enabled. The concerned SCSI channel path(s) are available.".



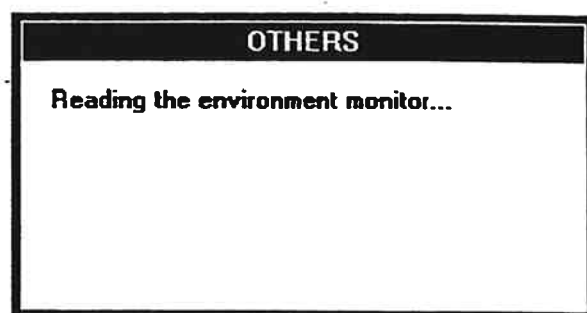
When recovering Cache Box-1, select [OK] (CL) in response to "The restore has finished. Cache Box is enabled.".

Go to [5] (REP04-401).



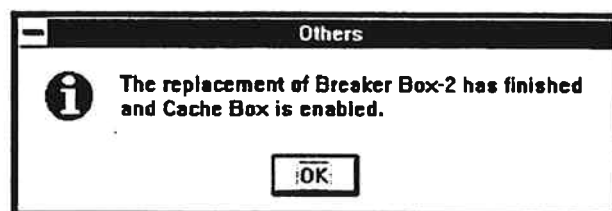
[4] Breaker Box-2

1. "Reading the environment monitor..." is displayed.



2. <checking end of replacement>

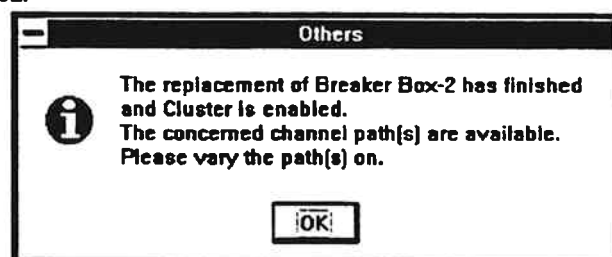
- ① When first message of replacement is "This operation will block Cache Box-2. Do you want to replace the "Breaker Box-2"", select [OK] (CL) in response to "The replacement of Breaker Box-2 has finished and Cache Box is enabled."



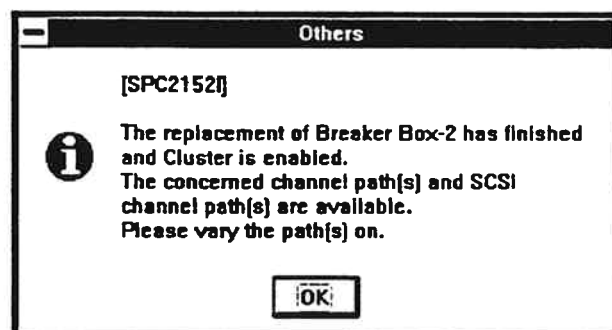
- ② Otherwise

- When only serial or parallel channels, or they are mixed.

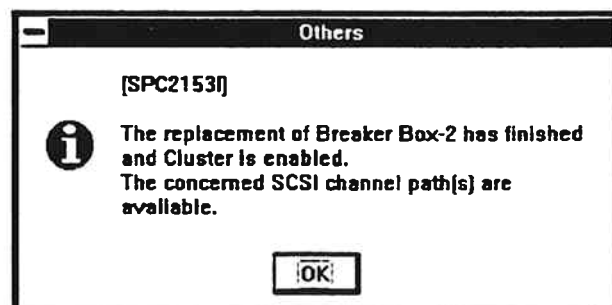
Select [OK] (CL) in response to "The replacement of Breaker Box-2 has finished and Cluster is enabled. The concerned channel path(s) are available. Please vary the path(s) on."



- When SCSI channels and other kinds are mixed.
Select [OK] (CL) in response to "The replacement of Breaker Box-2 has finished and Cluster is enabled. The concerned channel path(s) and SCSI channel path(s) are available. Please vary the path(s) on."



- When only SCSI channels are installed.
Select [OK] (CL) in response to "The replacement of Breaker Box-2 has finished and Cluster is enabled. The concerned SCSI channel path(s) are available."



Go to [5] (REP04-401).

[5] Confirm Cluster and Cache Box

- PS, Breaker Box

If Cluster or Cache Box is blocked, recover it.

See SVP02-850 or SVP02-970.

Go to [6] (REP04-401).

- FAN, Battery, TH

Go to [6] (REP04-401).

[6] SIM Complete

See SVP02-510.

Close 'DKC Cluster-X' window.

Close 'OTHERS' window.

Close 'Hardware Maintenance' window.

Close 'Maintenance Online' window.

[End of POST-PROCEDURE]

[7] PS**1. <Recover Cluster or Cache Box>**

- 5VPS, 3VPS, MPS

Recover cluster that include target PS.

See SVP02-850.

- 5VPSC, 3VPSC

Recover Cache Box that include target PS.

See SVP02-970.

Go to [5] (REP04-401).

[POST-PROCEDURE t4]

— OUTLINE —

- ① Specify end of special part replacement.
- ② Reinstall related parts.
- ③ Start environment monitor.
- ④ DKU Path Inline Test
- ⑤ SIM Complete

[1] Start of POST-PROCEDURE

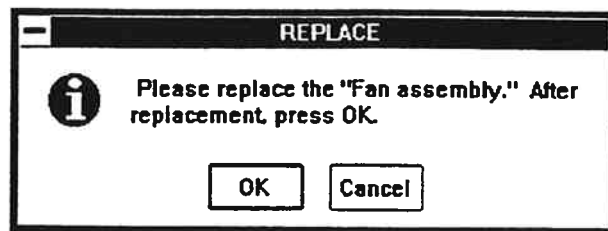
1. <Making part replacement check>

• FAN

Select [OK] (CL) in response to "Please replace the "XXXXXX" After replacement, press OK."

Valid "XXXXXX" values are listed below.

'FAN' ————— Go to [2]-2 (REP04-430)



• MPS-n, DKUMN-n

Select [OK] (CL) in response to "Please switch "XXXXXX" to "DISABLE," and replace it. After replacement, switch it to "ENABLE" and press OK."

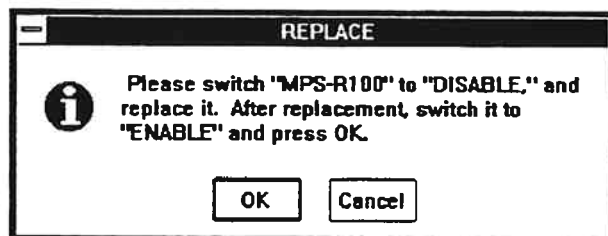
'MPS-n' ————— Go to [2]-2 (REP04-430)

'DKUMN-R2n', 'DKUMN-L2n'

————— Go to [2]-2 (REP04-430)

'DKUMN-R1n', 'DKUMN-L1n'

————— Go to [2] (REP04-430)



• AC BOX-n

'AC BOX-R10' — Power on SVP and go to [3] (REP04-450)

Select [OK] (CL) in response to "Turn off the breaker which supplies power source for AC BOX-XXX. After that please replace it. When replacement is completed, press OK."

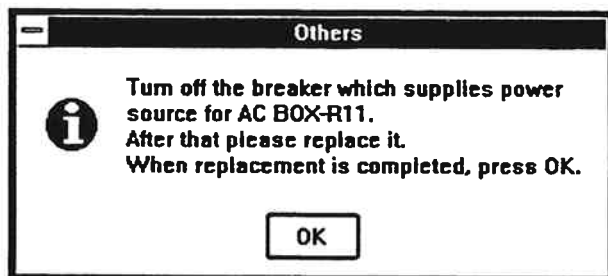
'AC BOX-R11'

When redundant power supply is installed

— Go to [2]-2 (REP04-430)

not installed — Go to [4] (REP04-460)

Other 'AC BOX-n' — Go to [5] (REP04-470)



[2] DKUMN, FAN. MPS

1. <Enabling DKUMN>

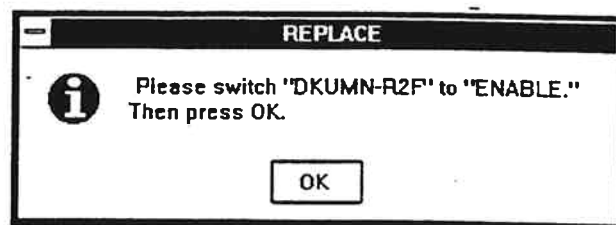
When DKUMN-XXX (listed below) is installed, this message is displayed.

Enable DKUMN in response to "Please switch
"DKUMN-XXX" to "ENABLE." Then press OK."

After confirming DKUMN-XXX is enabled, select [OK]
(CL).

DKUMN-XXX:

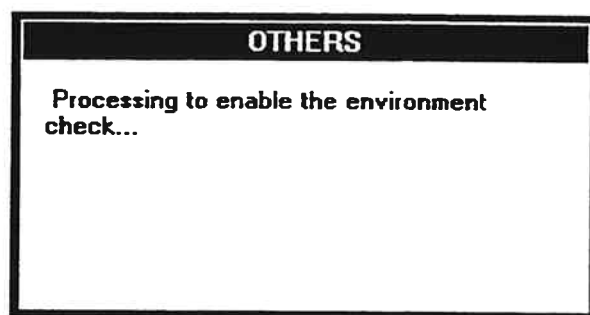
- For DKUMN-R1F: XXX=R2F ("DKUMN-R2F"), Switch DKUMN-R2F to ENABLE.
- For DKUMN-R1R: XXX=R2R ("DKUMN-R2R"), Switch DKUMN-R2R to ENABLE.
- For DKUMN-L1F: XXX=L2F ("DKUMN-L2F"), Switch DKUMN-L2F to ENABLE.
- For DKUMN-L1R: XXX=L2R ("DKUMN-L2R"), Switch DKUMN-L2R to ENABLE.



2. <Checking environment monitor start processing>

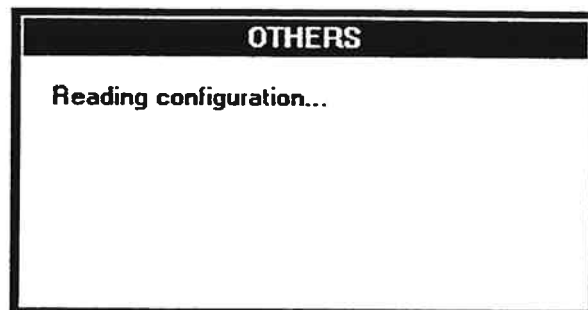
"Processing to enable the environment check..." is displayed.

Wait about 30 sec..

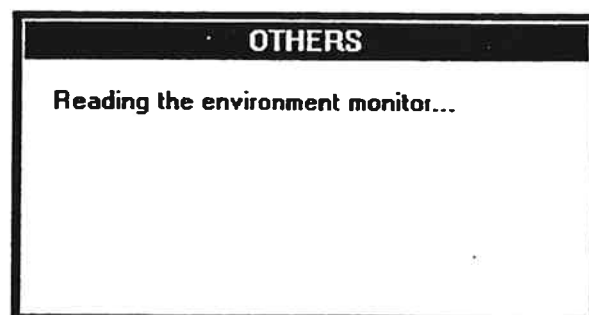


3. <Check environment monitor read>

"Reading configuration..." is displayed.

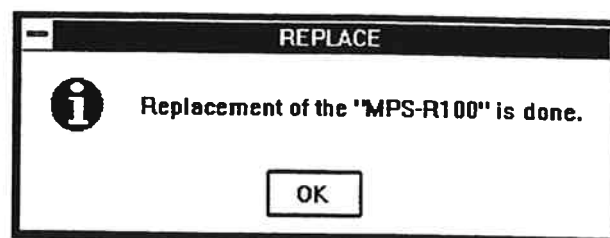


"Reading the environment monitor..." is displayed.



4. <Checking end of replacement>

Select [OK] (CL) in response to "Replacement of the "XXXXXX" is done."



5. <Confirm status>

Confirm the status displayed in 'DKU-xx (xxx-xxx)' window.

If "NORMAL," go to [7] (REP04-480).

If "FAILED," replace the target part again, or TROUBLE SHOOTING SECTION.

[End of POST-PROCEDURE]

[3] AC BOX-R10

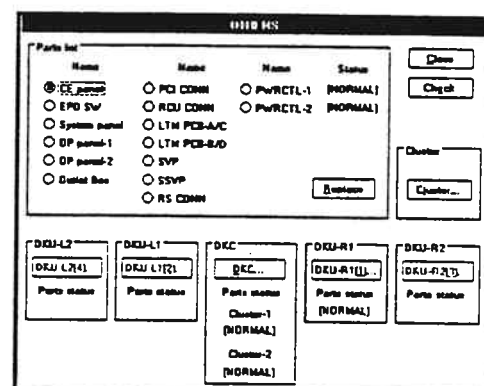
1. <Open 'OTHERS' window>

Open 'OTHERS' window.

(See PRE-PROCEDURE A (REP02-20) and PRE-PROCEDURE T4 [1]-1, 2 (REP02-660))

2. <Select Cluster>

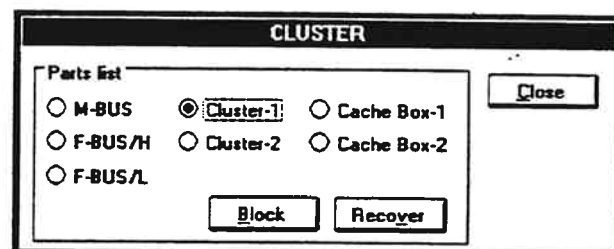
Select [Cluster] from 'OTHERS' (CL).



3. <selecting recover>

① When first message of replacement is "This operation will block Cache Box-1. Do you want to replace the "AC BOX-R10?", select [Cache Box-1] from 'CLUSTER' (CL) and select [Recover] (CL).

② Otherwise, select [Cluster-1] from 'CLUSTER' (CL) and select [Recover] (CL).



4. <Beginning Restore>

Select [Yes] (CL) in response to "Do you want to recover XXXXXX?".

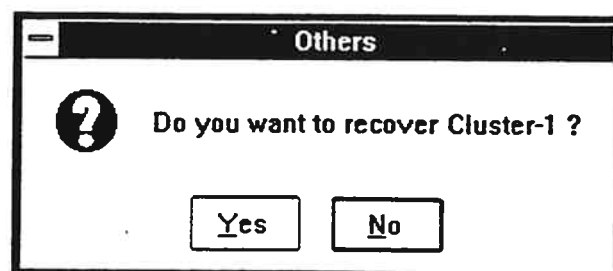
XXXXXX represents one of the part names selected in step 3.

If XXXXXX is blockade. Go to 6

If XXXXXX is normal. Go to 7

If an error occurs, go to 8

If XXXXXX is fail. Go to 5

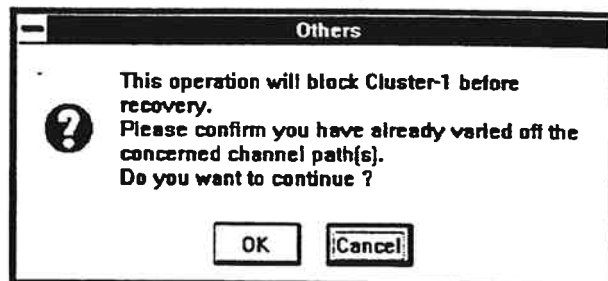


5. <Confirm blocking limit>

When recovering Cluster-1,

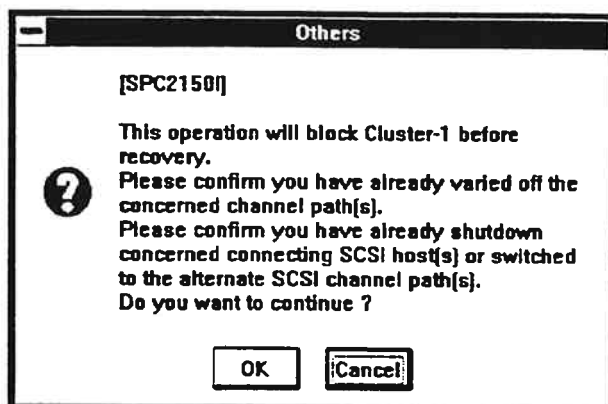
- When only serial or parallel channels, or they are mixed.

Select [OK] (CL) in response to "This operation will block Cluster-1 before recovery. Please confirm you have already varied off the concerned channel path(s). Do you want to continue?".



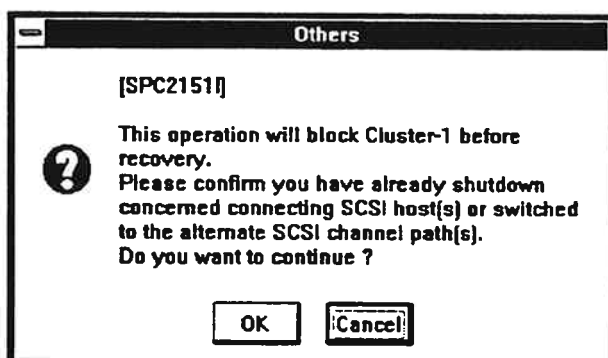
- When SCSI channels and other kinds are mixed.

Select [OK] (CL) in response to "This operation will block Cluster-1 before recovery. Please confirm you have already varied off the concerned channel path(s). Please confirm you have already shutdown concerned connecting SCSI host(s) or switched to the alternate SCSI channel path(s). Do you want to continue?".

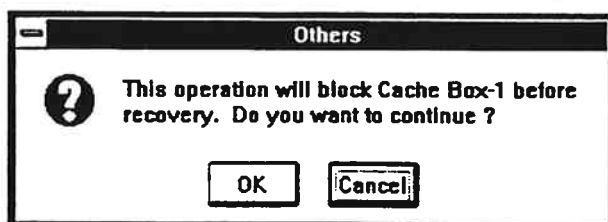


- When only SCSI channels are installed.

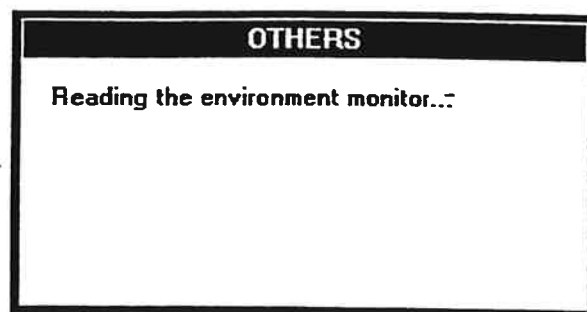
Select [OK] (CL) in response to "This operation will block Cluster-1 before recovery. Please confirm you have already shutdown concerned connecting SCSI host(s) or switched to the alternate SCSI channel path(s). Do you want to continue?".



When recovering Cache Box-1, select [OK] (CL) in response to "This operation will block Cache Box-1 before recovery. Do you want to continue?".



6. "Reading the environment monitor..." is displayed.

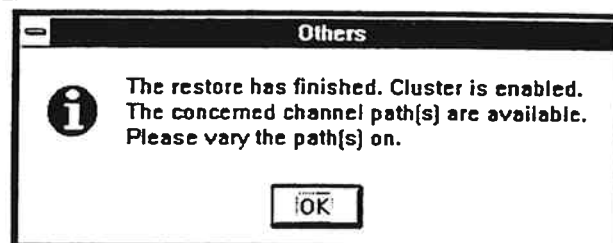


7. <End of Restore>

When recovering Cluster-1,

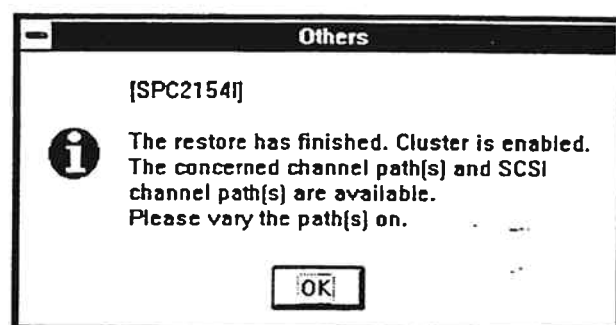
- When only serial or parallel channels, or they are mixed.

Select [OK] (CL) in response to "The restore has finished. Cluster is enabled. The concerned channel path(s) are available. Please vary the path(s) on.".



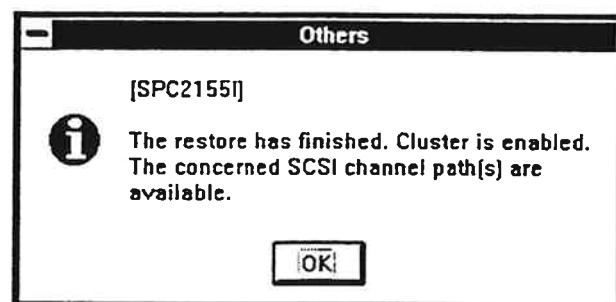
- When SCSI channels and other kinds are mixed.

Select [OK] (CL) in response to "The restore has finished. Cluster is enabled. The concerned channel path(s) and SCSI channel path(s) are available. Please vary the path(s) on.".



- When only SCSI channels are installed.

Select [OK] (CL) in response to "The restore has finished. Cluster is enabled. The concerned SCSI channel path(s) are available.".



When recovering Cache Box-1, select [OK] (CL) in response to "The restore has finished. Cache Box is enabled.".

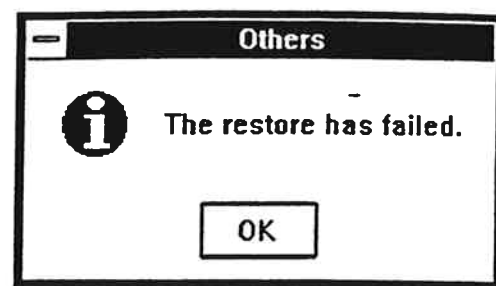
Go to [7] (REP04-480).



8. <Restore error>

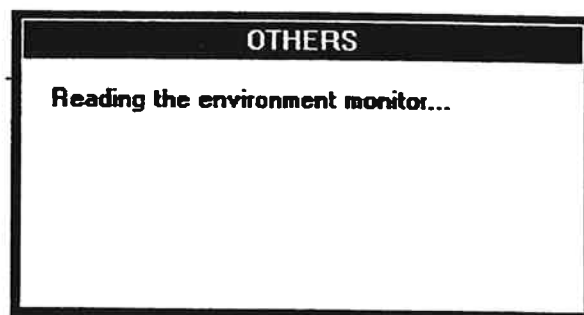
Select [OK] in response to "The restore has failed."

[End of POST-PROCEDURE]



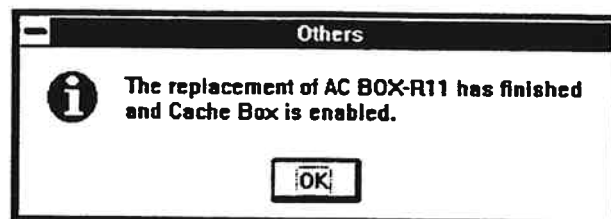
[4] AC BOX-R11

1. "Reading the environment monitor..." is displayed.



2. <End of replacement>

- ① When first message of replacement is "This operation will block Cache Box-2. Do you want to replace the "AC BOX-R11?"", select [OK] (CL) in response to "The replacement of AC BOX-R11 has finished and Cache Box is enabled."

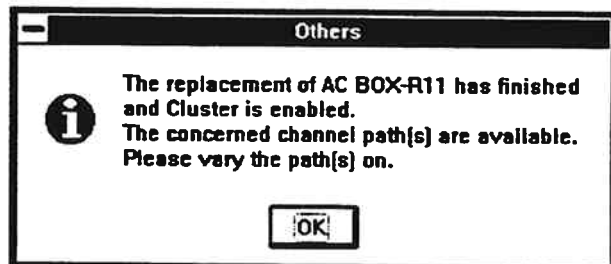


- ② Otherwise

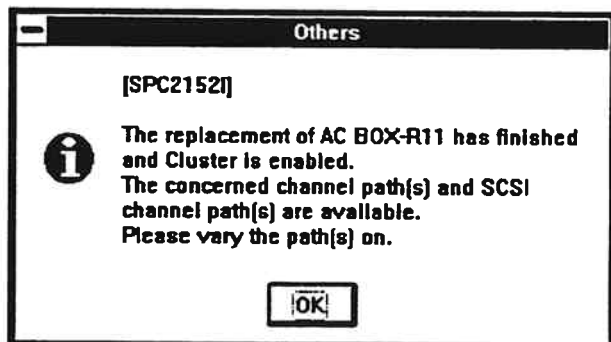
- When only serial or parallel channels, or they are mixed.

Select [OK] (CL) in response to "The replacement of AC BOX-R11 has finished and Cluster is enabled.

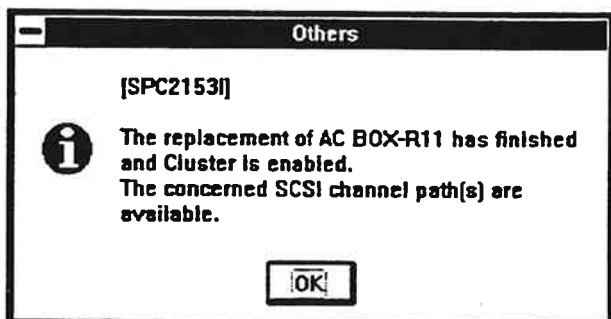
The concerned channel path(s) are available. Please vary the path(s) on."



- When SCSI channels and other kinds are mixed.
Select [OK] (CL) in response to "The replacement of AC BOX-R11 has finished and Cluster is enabled.
The concerned channel path(s) and SCSI channel path(s) are available. Please vary the path(s) on."



- When only SCSI channels are installed.
Select [OK] (CL) in response to "The replacement of AC BOX-R11 has finished and Cluster is enabled.
The concerned SCSI channel path(s) are available."



If no error happens, Go to [7] (REP04-480).

If an error occurs, Go to [6] (REP04-480).

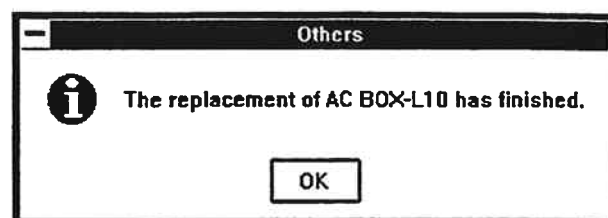
[5] AC BOX-n

1. <End of replacement>

Select [OK] (CL) in response to "The replacement of AC BOX-Rn/Ln has finished."

If no error happens, go to [7] (REP04-480).

If an error occurs, go to [6] (REP04-480).

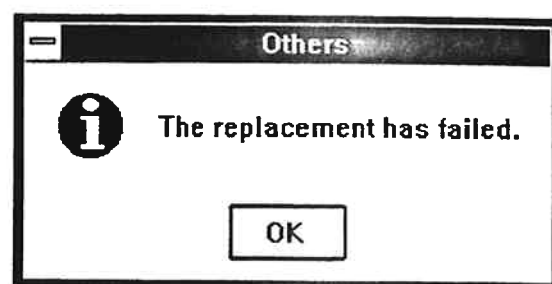


[6] Error

1. <Replacement error>

Select [OK] (CL) in response to "The replacement has failed."

[End of POST-PROCEDURE]



[7] DKU Path Inline Test and confirm Cluster and Cache Box

• DKUMN-n

Execute DKU Path Inline Test for all DKAs.

See DIAG04-190

• MPS-n, AC BOX-n

If Cluster or Cache Box is blocked, recover it.

See SVP02-850 or SVP02-970.

Go to [8] (REP04-480).

• FAN

Go to [8] (REP04-480).

[8] SIM Complete

See SVP02-510.

Close 'DKU-xx (xxx)' window.

Close 'OTHERS' window.

Close 'Hardware Maintenance' window.

Close 'Maintenance Online' window.

[End of POST-PROCEDURE]