Siemens 6ES5941-7UB11

01 Secure the STEP 5 recovery set

1. Save the program and record the CPU 941 identity, installed memory medium and rack configuration. Capture retentive allocations and any process-state values needed for an orderly restart.

2. ### Step 5 recovery set — acceptance

   The application can be recovered independently of the old CPU and its backup battery.

Stage record	Secure the STEP 5 recovery set observations and acceptance result
Maximum program capacity	9216 statements
Internal memory	1024 statements

02 Check retention and process state

1. Assess the battery and the intended treatment of retained flags, timers and counters. Put the controlled equipment in its maintenance state before removing the CPU or memory submodule.

2. ### Retention and process state — acceptance

   A restart will not rely on undocumented retained values or an assumed battery condition.

Stage record	Check retention and process state observations and acceptance result
Memory-submodule capacity	8192 statements maximum
Binary-operation time	Approximately 2.2 µs

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03 Restore the CPU and memory arrangement

1. Follow the S5-115U replacement procedure and install the matching memory medium. Restore the approved program and configuration, then review selector settings and diagnostic indications before RUN.

2. ### Cpu and memory arrangement — acceptance

   CPU, memory submodule and application belong to the same validated configuration.

Stage record	Restore the CPU and memory arrangement observations and acceptance result
Word-operation time	Approximately 60–200 µs
Flags	2048

04 Observe scan and I/O operation

1. Monitor the cycle behavior with the real operation mix. Check representative input states, output assignments and interlocks while the process remains under controlled commissioning conditions.

2. ## Scan and i/o operation — acceptance

   Execution remains stable and the I/O behavior agrees with the restored program without unexplained cycle faults.

Stage record	Observe scan and I/O operation observations and acceptance result
Timers / counters	128 / 128
Timer range	0.01–9990 s

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05 Prove restart and release

1. Perform the authorized restart test and verify the intended retention behavior. Record program identity, memory configuration, battery condition and final functional results for future recovery.

2. ### Restart and release — acceptance

   The production sequence restarts predictably and the maintenance team has a complete recovery record.

Technical basis: SIMATIC S5-115U Manual, EWA 4NEB 811 6130-02b.

Related product navigation

- Siemens 6ES7521-1BL00-0AB0
- Siemens 6ES7331-7PF01-0AB0
- Siemens 6ES7522-1BL01-0AB0

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.