**Retry Cause Display Mode**

*Found by Dirk (dito@berlin.snafu.de)*

**Machine Status**

After using [Super Undo mode](https://www.minidisc.org/super_undo.html) on a modern Sony deck, the unit is now in *Retry Cause Display Mode*, this means that if you press the display button when you're recording once again you can see the:

* DRAM amount.
* Number of retries during recording.
* Cause of retry.

The display reads:

SC @@ Rt ## \*\*

* @@: dram memory amount.
* ##: number of retries, when a retry error occurs ## will be set back to 0.
* \*\*: cause of retry.

All three displays above are in hex. numbers!

**Track Status**

David Tamkin adds:

On Sony decks (the 520 for sure, I believe also the JE and JB units numbered 530 and higher), in Retry Cause Display Mode, while the unit is playing or paused during play, the high nybble of the status byte includes the SCMS status of the current segment:

|  |  |
| --- | --- |
| 0 | premastered, penultimate |
| 8 | recordable, penultimate |
| A | recordable, final |
| E | recordable, unlimited |

Petr Simanek adds:

During PLAY or PLAY PAUSE the display shows:

NN CCCSS XY

where:

|  |  |
| --- | --- |
| NN | stands for the fragment number (hexadecimal) You can find the edit points, because NN changes inside the track at that point, where you made an edit (COMBINE or A-B ERASE), or where the deck continued recording to another part of free disc space.User manual says, that you can record up to 255 tracks, but I think, that you can create only up to 255 *fragments*. Number of fragments is usually greater than number of tracks due to disc fragmentation. |
| CCCSS | (cluster-sector) stands for the current playing disc area address /hexadecimal/ (on buffer memory output - the laser beam reading goes actually up to 11 seconds earlier) On Sony home decks, when you press REC, the new recording always begins on a new cluster (SS=00), by auto track marking or afterward track division may the SS be other than 00 |
| X | SCMS status and other flags:

|  |  |
| --- | --- |
| bit 1 | Always 0 for normal audio tracks |
| bit 2 | Digital copy (analog original when clear) |
| bit 3 | No copyright (copyrighted material when clear) |
| bit 4 | Write enabled (write protected when clear) |

SCMS status is defined for each fragment - you cannot create an SCMS allowed track by combining one allowed and one (or more) prohibited tracks |
| Y | Track mode (mono/stereo) and other flags:

|  |  |
| --- | --- |
| bit 0 | Pre-emphasis off |
| bit 1 | Monoaural |
| bit 2,3 | Always 1,0 for normal audio tracks |

 |

For more info about this see the [JE520 Service Manual](https://www.minidisc.org/manuals/sony_mdsje520_service.pdf), pages 9 and 10.

After hitting STOP and rotating the AMS knob the display shows the following info for each track:

YYMMDD TTTT

where:

|  |  |
| --- | --- |
| YYMMDD | stands for date of recording, if any, or 000000 for recording without date & time stamp or for premastered discs. On 520, 530 and 730 if you press the "D" key on remote, the display shows recorded date & time stamp too. |
| TTTT | I don't know the exact meaning of this display, but it depends on the type of recording machine You can check on which machine the track was recorded. I found the following codes:

|  |  |
| --- | --- |
| 0126 | Sony MZ-R30 |
| 0127 | Sony MZ-R50 |
| 0143 | unknown machine |
| 0144 | Sony MDS-JE303 |
| 0146 | both Sony MDS-JE500 and JE510 |
| 0147 | Sony MDS-B5 professional deck |
| 014A | Sony MDS-JE520 |
| 014D | Sony MDS-JB920, JB730, JE330, JE530 |
| 0154 | Sony MDS-JE640 *noted by Martyn Lycett* |
| 017E | Sony MDS-E10, E12 pro decks, *added by Kevin Allen* |
| 1209 | Tascam MD-CD1 Mk1, *added by Kevin Allen* |
| 0000 | premastered disc |

*These are the recorder "signature" codes, as discovered by Wolfgang Buresch and shown on his [MiniDisc Secrets page](http://www.wu-wien.ac.at/usr/h92/h9202446/lmdana.html%22%20%5Ct%20%22_top). There is a unique number for every MD recorder. -eaw* |

**Exiting *Retry Cause Display Mode***

To exit, press the power button of your recorder.

More details about *Retry Cause Display Mode* can be found in [supplement 1 of the MDS-JE500 service manual](https://www.minidisc.org/je510_service/100dpi/5.GIF), Part # 9-960-726-81.