

SCRATCHES TEST CD

For Checking CD Players and CD Drives

TCD-722/ -722R

1. Purpose of use, Features

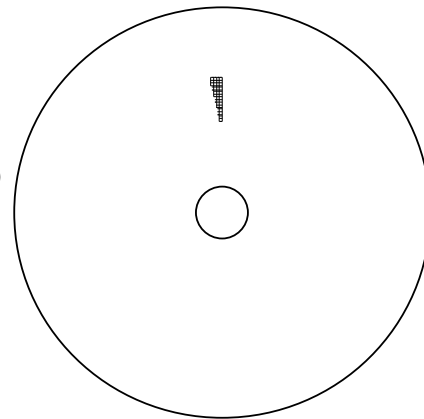
TCD-722/ 722R are CD-DA Scratches Test Discs designed for confirmation of playability for scratches disc, evaluation, measurement and adjustment of CD Players and Drives etc.. It is simulated missing signals on the surface of a disc by Scratches. Scratches are processed as staircase type. Scratches on TCD-722 are processed from 0.9mm to 3.3mm width, it is available to check with respect to each 0.4mm step of 7 steps. Scratches on TCD-722R are processed from 0.9mm to 6.1mm width, it is available to check with respect to each 0.4mm step of 14 steps. Eccentricity of TCD-722R is processed 15 μ m (0-p) or less to scale back the influence of eccentricity.

2. Specifications

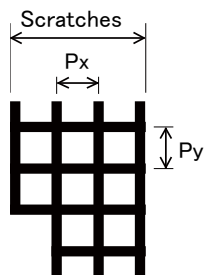
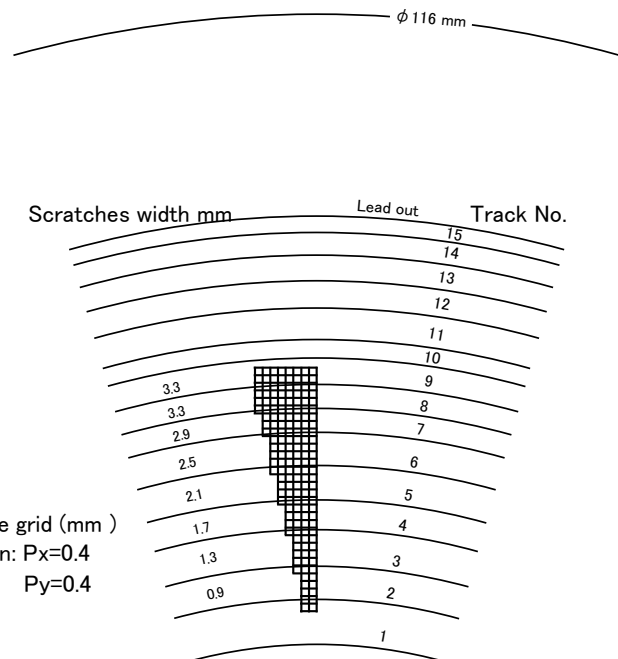
(1) TCD-722

- Disc type : CD-DA Scratches Disc
- Material disc : TCD-791
- Scanning velocity : 1.25 m/sec (for reference)
- Track pitch : 1.6 μ m (for reference)
- Center hole diameter : 15 +0.1/ -0 mm
- Eccentricity : < 70 μ m(0-p)
- Radial tilt (β angle) : $\leq \pm 0.6$ deg
- Specification of Scratches

Track No.	Scratches width mm
1	None
2	0.9
3	1.3
4	1.7
5	2.1
6	2.5
7	2.9
8	3.3
9	3.3
10 ~ 15	None



Imaged figure of Scratches (Read out side)



Details of Scratches

Clearance of respective grid (mm)
 Tangential direction: Px=0.4
 Radial direction: Py=0.4

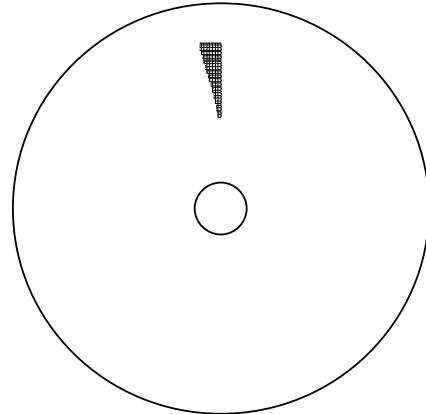
Location of Scratches and Tracks

Values in this sheet are measured by the equipments ALMEDIO-owned. Appearance and specifications are subject to change without notice.

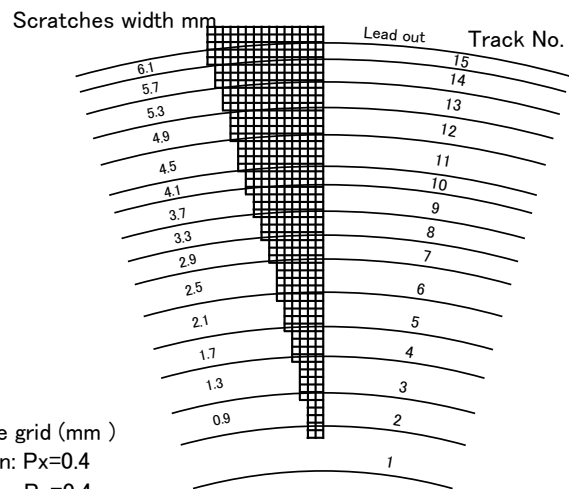
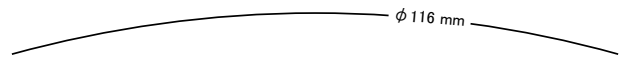
(2) TCD-722R

- Disc type : CD-DA Scratches Disc
- Material disc : TCD-791
- Scanning velocity : 1.25 m/sec (for reference)
- Track pitch : 1.6 μ m (for reference)
- Center hole diameter : 15 +0.04/ -0 mm
- Eccentricity : < 15 μ m(0-p)
- Radial tilt (β angle) : $\leq \pm 0.6$ deg
- Specification of Scratches

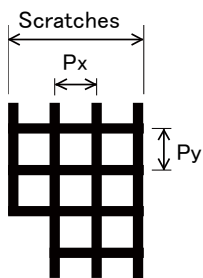
Track No.	Scratches width mm
1	None
2	0.9
3	1.3
4	1.7
5	2.1
6	2.5
7	2.9
8	3.3
9	3.7
10	4.1
11	4.5
12	4.9
13	5.3
14	5.7
15	6.1
Lead out	6.1



Imaged figure of Scratches (Read out side)



Location of Scratches and Tracks



Details of Scratches

Clearance of respective grid (mm)
 Tangential direction: Px=0.4
 Radial direction: Py=0.4

3. Content

Track No.	Time		Contents	Radial positions * mm
	min	sec		
1	3	15	Minuetto	24.9
2	2	32	2 ème Gymnopédie	27.3
3	3	02	Ouverture Miniature (Casse-noisette Op. 71a)	29.0
4	2	36	Marche (Casse-noisette Op. 71a)	30.9
5	3	09	Clair de Lune	32.5
6	3	12	Nocturne (Op. 9-2)	34.3
7	2	26	Danse de la Fée-Dragée (Casse-noisette Op. 71a)	36.0
8	2	29	Danse Arabe (Casse-noisette Op. 71a)	37.3
9	2	51	Fantaisie-Improptu (Op. 66)	38.5
10	2	02	Hungarian Dance No.5	39.9
11	3	38	Prélude < Raindrop >	40.9
12	3	15	Maiden's Prayer	42.5
13	3	08	Valse des Fleurs (Casse-noisette Op. 71a)	43.9
14	2	54	1 ère Gymnopédie	45.3
15	2	06	Danse des Mirlitons (Casse-noisette Op. 71a)	46.5
TOTAL TIME (Including pause time) 43min 5sec				(Lead out : 47.3)

* Radial positions are calculated value.

Values in this sheet are measured by the equipments ALMEDIO-owned. Appearance and specifications are subject to change without notice.

<Proper handling of the disc>

Do not write on the surface with a pen and others, nor put a sticker on it.

Do not expose the disc to direct sunlight, nor leave it in the place of high temperature and high humidity.

After playing, store the disc in its own case.

ALMEDIO INC.

Sales Headquarters

<http://www.almedio.co.jp>

E-Mail : tm-sales@almedio.co.jp