SAFETY INFORMATION

CAUTION

CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

WARNING - E SOYNEW LASERSTRALG MAKING DENCIA DE,
ÁR ÖPPNAD OCH SPARR ÄR UMKOPPLAD.
STRÅLEN ÄR FARLIG.

ADVARSEL - USYNLIG LASERSTRÅLING VED ÅBNING NÁR
SÅKAFTEHEDSGÆNGERE ER ÆDE AF FUNKTION.
UNDGA UDSÆTTELSE FOR STRÅLING.

ATTENTION - RAYONNEMENT LASER ET ELECTROMAGNETIQUE
DANGEREUX SI OUVERT AVEC L'ENCLENCHEMENT
DE SÉCURITE ANNULÉ.

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED
OPERATION.
REAR PANEL CONNECTIONS

1. OUTPUT JACKS  
2. AC LINE CORD

FRONT PANEL

1. POWER ON/OFF  
2. DISC DRAWER  
3. OPEN/CLOSE  
4. PLAY/PAUSE  
5. STOP  
6. PROGRAM/DISPLAY  
7. REPEAT  
8. SKIP/SCAN  
9. DISPLAY  
10. REMOTE RECEIVER (5425 ONLY)
SPECIFICATIONS NAD 5420/5425 COMPACT DISC PLAYER

Disc capacity
Programming capability
Digital-to-Analogue Convetion
Digital filter

Analogue filter
Frequency response 5 Hz-20 KHz:
De-Emphasis error
THD (at 0 dB, 1 KHz)
Intermodulation distortion
(19 & 20 KHz)
Dynamic range
Linearity
Signal-to-noise ratio A weighted
  de-emphasis off
  de-emphasis on
Channel Separation  1 KHz
  10 KHz
Wow and flutter
Output Impedance
Output level at 0 dB
Digital error correction

Single disc, 120 or 80 mm
16 tracks
MASH, 18-bit resolution.
4 times over-sampled, linear
phase with 18-bit coefficients
5-pole active
-0/-0.5 dB
<±0.3 dB
0.0025%
<-100 dB
98 dB
+0.5 dB; 0 to -90 dB
106 dB
110 dB
>100 dB
>80 dB
Unmeasurable
(quartz crystal accuracy)
120 Ohms
2 Vrms
CIRC with double error
  correction in C1 and C2

PHYSICAL SPECIFICATION
Width*height*depth
Net weight
Shipping weight

420*90*260 mm
4.1 Kg
4.9 Kg
ALIGNMENT PROCEDURE

REQUIRED INSTRUMENTS: SPECIAL JIG (SEE FIG.1)
OSCILLOSCOPE (BANDWIDTH GREATER THAN 40 MHZ)
FREQUENCY COUNTER
TEST DISK (SONY YEDS-7)

NOTE:
- Exact adjustment can only be performed with
  special factory jigs etc. However the following
  alignment procedure should produce a well aligned
  player assuming no fault conditions are present.
  It is suggested that the position of the preset
  resistors setting is noted or marked before any
  adjustment is attempted so that these settings
  can be returned to, should no improvement be noted
  after adjustment.

Please refer to page 12 for the physical location of the adjustment and test
points.

Step A: PLL Adjustment

(1) Turn power ON and press the STOP key.
(2) Short circuit P108 (ASSY) to P107 (GND)
(3) Connect the frequency counter to P106 (CLK) and P107 (GND)
(4) Adjust RV101 for a reading of 4.2318± 0.01MHz.
(5) After adjustment is completed remove the short circuit between P108
and P107.

Step B: RF Adjustment

(1) Load the test disc and set the unit into PLAY mode.
(2) Connect the scope to P109 (RF) and P107 (GND).
  Scope setting: Coupling : AC
  Vertical sensitivity: 0.2V/div
  Horizontal time base: 0.5μS/div
(3) Adjust RV102 so that the 3T component of the waveform is maximun
and the eye pattern is at its best shape (see Fig 2)

Step C: EF Balance adjustment

(1) Turn the power OFF, remove P111 and replace it with the special jig
  shown in Fig 1.
(2) Connect the scope as shown Fig 1 and switch the jig to the “ON”
position.
  scope setting: Coupling : DC.
  Vertical sensitivity: 0.5V/div.
  Horizontal time base: 2 mS/div.
(3) Load the test disc and put the unit into the PLAY mode.
(4) Adjust RV103 so that the tracking error waveform is symmetrical.
(See Fig 3)

NOTE: BEFORE CONTINUING REFER TO PAGE 8 FOR GUIDANCE ON FOCUS AND TRACKING GAIN ADJUSTMENT.

Step D: Focus gain adjustment

(1) Switch the special jig to "OFF" and leave the scope connected.
(2) Scope settings: Coupling : DC
    Vertical sensitivity: 0.1V/div
    Horizontal timebase : 2mS/div
(3) Adjust RV105 so that the DC level is between 120 and 200mV.
(4) Turn the power OFF, remove the jig and return the original socket to P111.

Step E: Tracking gain adjustment

(1) Turn the power ON, load the test disc and press PLAY.
(2) Connect the scope to pin 3 of P111.
    Scope setting: Coupling : DC
    Vertical sensitivity: 0.2v/div
    Horizontal timebase : 2mS/div
(3) Adjust RV104 so that the waveform is as shown in Fig 4(a).

**FIG. 1**
FIG. 2(a)  

3T 4T 5T - 11T  

FIG. 2(b) Poor eye pattern  

FIG. 2(c) Good eye pattern  

FIG. 3  

0 V  

Same amplitude  

FIG. 4(a) Good waveform  

Volt/div: 0.2 V  
Time/div: 2 mS  
0 V  

FIG. 4(b) High tracking gain  
(higher frequency than for low gain)  

Volt/div: 0.2 V  
Time/div: 2 mS  
0 V  

FIG. 4(c) Low tracking gain  

Volt/div: 0.2 V  
Time/div: 2 mS  
0 V
FOCUS/TRACKING GAIN ADJUSTMENT

NOTE: It is recommended that these adjustment are not carried out unless absolutely necessary.

A frequency response analyzer is necessary to carry out this adjustment precisely. However this adjustment has a wide tolerance so that even if the adjustment has not been performed exactly the player will still work with an acceptable level of performance.
The focus and tracking gain determine not only the vertical and horizontal tracking characteristics, but also the amount of mechanical noise from the optical blocks two axis device and its sensitivity to mechanical shock. Correct adjustment will be at the point where all the above criteria are satisfied.

* When the gain is too high, the mechanical noise is high.
* When the gain is too low, the susceptibility to mechanical shock and skipping will be poor.

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<tr>
<th>SYMPTOM</th>
<th>GAIN</th>
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<td>Time taken from stop to play is excessive, or track skip time is excessive. (normally approx. 2 sec)</td>
<td>focus: low or high tracking: low or high</td>
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<td>Music does not start when play is pressed or track selection is made but disc rotates.</td>
<td>focus: low</td>
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<tr>
<td>Drawer opens shortly after pressing PLAY.</td>
<td>focus: low or high</td>
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<tr>
<td>Intermittent sound during play or counter stops.</td>
<td>focus: low or high</td>
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<tr>
<td>High mechanical noise from optical block during play.</td>
<td>focus: high</td>
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!! PRECAUTIONS WHEN CHANGING LASER PICK-UP !!

When removing pick-up assembly, short circuit the PCB pattern as shown in the drawing in order to protect the pick up before removal.

NOTE: Replacement pickup assemblies are supplied with the PCB pattern already protected.

DO NOT REMOVE THE SHORT CIRCUITS UNTIL YOU HAVE FINISHED FITTING THE PICKUP.

*PICKUP REPLACEMENT*

1. Push OPEN/CLOSE button to open the disc tray.
2. Remove the tray door.
3. Push OPEN/CLOSE button to close the disk tray.
4. Disconnect the AC mains supply.
5. Remove the front panel and mechanism from the chassis.
6. Before removing the mechanism note the precautions listed above.
7. Remove screws ABCD to release the pickup assembly.
5425

*RESISTORS ARE 1/4W 5% UNLESS OTHERWISE SPECIFIED
*CAPACITORS ARE 50V UNLESS OTHERWISE SPECIFIED
*RESISTOR WITH ASTERISK MARK "*" ARE 2% TOLERANCE
*Parts marked "are applicable only to the model 5425.

(C) NAD Electronics Ltd. 1991
REMOTE CONTROL
(5425 Only)

KEY no.          Function
1.                 play
2.                 << skip
3.                 << scan
4.                 pause
5.                 >> skip
6.                 >> scan
7.                 stop

CIRCUIT REF.    DESCRIPTION
IC 1             CX-23042-10
Q1                2SC2673
D1                IN66A
X1                480 KHz
C1                470 uF
C2/C3             100 pF
R1                1 Ohm
R2                100 Ohm
### MECHANISM EXPLODED PARTS LIST

**KSL-210 AEM EXPLODED PARTS LIST**

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**5245 LASER UNIT REPLACEMENT**

- GEAR COVER
- SLIDE AXIS
- WASHER
- LEAF SWITCH
- CENTER GEAR
- BELT
- LOADING PULLEY
- SCREW
- MOTOR ASS'Y
- MOTOR PCB
- TRAY HOLDER
- SCREW
- BACK TRAY HOLDER
- TRAY GUIDE(R)

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**18**
### 5425/5420 PARTS LIST

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