

TROUBLE SHOOTING

FOR NSM-PHONOGRAPHS

ES IV-CD TECHNOLOGY

to
Technical Information, Assy

174 903	SILVER CITY
174 831	SILVER SKY
174 486	FASCINATION
175 274	SOUNDMASTER
175 040	FIRE BIRD/COUNTRY

NSM
Aktiengesellschaft
Saarlandstraße 240
6530 Bingen am Rhein

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1 TROUBLE SHOOTING

1.1 Description of malfunction/cause

DESCRIPTION	CAUSE
Phonograph illumination and LED's in central unit/CD supply do not light up.	<ol style="list-style-type: none">1. Power cord2. Main switch3. Power fuse (switch plate/fuse box)
Phonograph illumination okay, LED's in central unit do no light up.	<ol style="list-style-type: none">1. Plug connection ST 200 of central unit2. Fuses Si 201-205 of central unit3. Power transformer connection
Luminous effect lights do not light phonographs with light generator).	<ol style="list-style-type: none">1. Fuse T 8 A on switch plate2. Fuses Si 701-703 as well as3. Plug connection of luminous effects PCB
Fan for output stage does not run while disc is playing.	<ol style="list-style-type: none">1. Plug connection ST 2092. Triac TIC 200.3. Transistor T 204/205.
+5 V; 15 V-LED's in central unit do not light up or are darker Fuses are okay.	<ol style="list-style-type: none">1. Voltage regulators VR 201-203 in central unit defective2. Short circuit in connected units. (Pull plugs one after another and observe LED's).
No tone signal at loudspeaker even though a CD is playing and the volume is switched on.	<ol style="list-style-type: none">1. loudspeaker connection2. Plug connection of frequency network and output transformer3. Interruption on signal wire (plug connection "ST" 4-pol. of central unit to "ST 2" on changer adapter, from "ST 3" on changer adapter to decoder board).
Volume reduced by electronic protection device.	<ol style="list-style-type: none">1. loudspeaker mismatch (less than 2 ohms impedance) due to remote speakers.2. Transistor T 252 defective.3. Output transistor defective.4. Control unit defective.
Poor bass reproduction.	Loudspeaker connections reversed.
Er xx-display.	See "Error Displays".

1.2 Error Displays

Displays			Possible Causes	Corrections
1	2	3		
Er	01		EPROM contents (CONTROL UNIT) interrupted.	Change EPROM (IC 2).
Er	10		RAM (CONTROL UNIT) defective.	Change RAM (IC 3). After that reprogram all program steps (P20-P56).
Er	11		RAM contents (CONTROL UNIT) short-term disturbance.	No correction necessary; program is reinitialized. Change RAM IC 3 if frequently occurring.
Er	20		Verification errors in program (CONTROL UNIT).	No correction necessary; program is reinitialized. Change CPU IC 1 if frequently occurring.
Pxx	Er	30	Memory contents (CONTROL UNIT) invalid.	No correction necessary; program step Pxx (in Display 1) is automatically reprogrammed.
Pxx	Er	31	Memory contents (CONTROL UNIT) invalid or not programmed.	Service step Pxx shown in Display 1 must be reprogrammed.
Pxx	Er	40	Wrong price setting.	Check price setting and, if necessary, reprogram (P41-P45, check sequence).
Er	50		Coin mechanism defective. Too much credit.	Check coin mechanism.
Er	6x		Error at CD player.	See Er 60 - Er 62. Play interrupted after error.
Er	60		Error before playing CD (track selection). No supply voltage present for decoder or player.	Exchange decoder board, microcomputer T018 on pickup driver (IC 8). Check primary fuse in CD transformer.
Er	61		No CD recognized by player. No CD in CD tray, CD defective. Player defective. Decoder board defective. No supply voltage present for decoder or player.	Check CD and exchange if needed. Laser player (CDM-3). Exchange decoder board. Check primary fuse in CD transformer.
Er	62		Error after playing CD (stop).	As in Er 60.
Er	63		Track cannot be played (CD defective) or choosing a track number which is too high (error display appears only during continuous test P60/3 or P60/4; during regular operation track No. 1 is played when choosing a track number which is too high).	Exchange CD, check track selection.
Er	7x		Malfunction on CD changer.	See Er 70 - Er 76. If error display does not disappear after 2 sec., error cannot be automatically corrected. No CD will be played until cabinet switch or "power on" is activated.
Er	70		CD tray after playing CD incorrect in pickup.	Check function of light barriers OPPUM, OPGRL, OPGRR.
Er	71		Error during grip from left-side magazine.	Check alignment from magazine to pickup assy and adjust if necessary. Check function of light barrier OPPUM.
Er	72		Error during grip from right-side magazine.	As in Er 71.
Er	73		Error during replacing in left-side magazine. Malfunction of left grip lever.	Check alignment of magazine to pickup assy and adjust if needed. Check function of grip. Check function of light barrier OPGRL.
Er	74		Error during replacing of right-side magazine. Malfunction grip lever.	As in ER 73. Check function of light barrier OPGRR.
Er	75		Malfunction during lift drive.	Check lift for jamming. Check function and correct adjustment of light barrier OPSTP (drive wheel).
Er	76		End position of lift not o.k.	Check function and adjustment of light barrier OPEND.

Displays			Possible Causes	Corrections
1	2	3		
Er	80		Short circuit on wallbox signal wire.	Check wallbox connection.
Er	90		Title display, three blocking in sequence, not functional anymore.	Blocking remedy.
Er	91		Blocking title display, gripper left.	
Er	92		Blocking title display, gripper right.	
Er	93		Blocking title display, stack left.	
Er	94		Blocking title display, stack right.	

The memorized values of program steps P20 to P56 are checked after each "power on" and by activating the cabinet switch.

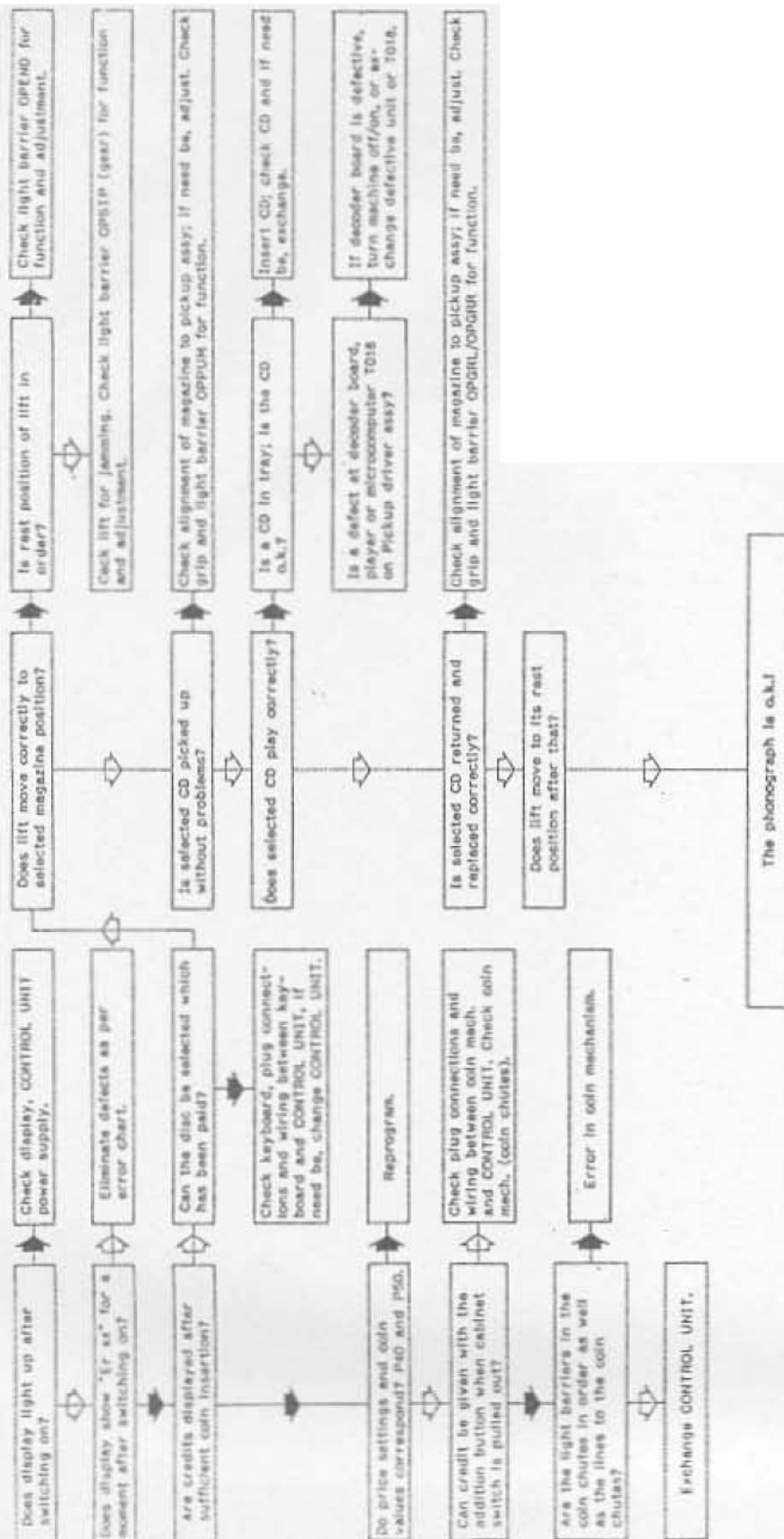
An error on the programmable memory area the corresponding program steps is show on Display 1; Pxx Er 31; the "error" lamp flashes.

After the phonograph is turned on, the malfunction display in Display 3 and the flashing of "error" remains visible for 2 sec. After that the phonograph is operational; without regaring the malfunctioning program step, though.

By using serv.-progr.-step P62, the last 10 error codes can be called; see "service programs" pt. 1.5.7.

1.3 Trouble-Shooting Chart for NSM Phonographs ES-IV/CD Technology

Conditions: Line voltage present, line connection and power supply in order.



◇ : 14
 ▾ : 1 min

Compare also 1.2 "Error Displays".