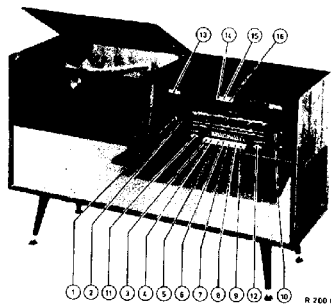


PHILIPS

Service

RADIO

F7X12A/00



Controls

Volume control	1
Ferroceptor	2
Maina-switch	3
P.U.-switch	4
L.W.-switch	5
Aerial-switch	6
M.W.-switch	7
S.W.-switch	8
F.M.-switch	9
Tuning	10
Bass control	11
Treble control	12
Balance control	13
Presence-control	14
Stereo-switch	15
Mono-switch	16

Bediening

Volumeregelaar	1
Staaftenne	2
Netzakelaar	3
P.U.-schakelaar	4
L.G.-schakelaar	5
Antenneschakelaar	6
M.G.-schakelaar	7
K.G.-schakelaar	8
F.M.-schakelaar	9
Afstemming	10
Lage-tonenregelaar	11
Hoge-tonenregelaar	12
Balansregelaar	13
Presenceschakelaar	14
Stereoschakelaar	15
Monoschakelaar	16

Bedienung

Lautstärkereglér	1
Stabantenne	2
Netzschalter	3
FU-Schalter	4
LW-Schalter	5
Antennenschalter	6
MW-Schalter	7
KW-Schalter	8
UKW-Schalter	9
Abstimmung	10
Bassregler	11
Höhenregler	12
Balanceregler	13
Presenceschalter	14
Stereoschalter	15
Monoschalter	16

Commande

Contrôle de volume	1
Antenne en tige	2
Interr. de réseau	3
Comm. de P.U.	4
Comm. de O.O.	5
Comm. d'antenne	6
Comm. de P.O.	7
Comm. de O.C.	8
Comm. de F.M.	9
Sintonisation	10
Contrôle des graves	11
Contrôle des aigus	12
Reg. de balance	13
Comm. présence	14
Comm. stereo	15
Comm. mono	16

Mandos

Control de volumen	1
Antena de varilla	2
Interr. de red	3
Conn. de P.U.	4
Conn. de O.L.	5
Conn. de antena	6
Conn. de O.N.	7
Conn. de O.C.	8
Conn. de F.M.	9
Sintonía	10
Reg. de bajas	11
Reg. de altas	12
Reg. de equilibrio	13
Conn. de presencia	14
Conn. de estereo	15
Conn. de mono	16

Specification

Loudspeakers	2x AD 3690A 2x AD 3700AM
I.F.	452 kc/s (A.M.) 10,7 Mc/s (F.M.)
Mains voltages	110-127-145 165-220-245 V ca. 110 W
Consumption	ca. 110 W
Record changer	AG 1015-95
Dimensions	1097x511x360 mm 43 $\frac{1}{2}$ x20 $\frac{1}{8}$ x14 $\frac{1}{2}$ inch

Specificatie

Luidsprekers	Lautsprecher
M.F.	ZF
Netspanningen	Netzspannungen
Verbruik	Verbrauch
Platenwisselaar	Plattenwechsler
Afmetingen	Abmessungen

Spezifikation

Haut-parleur	2x AD 3690A 2x AD 3700AM
M.F.	452 kc/s (A.M.) 10,7 Mc/s (F.M.)
Tensions de rés.	110-127-145 165-220-245 V ca. 110 W
Consommation	ca. 110 W
Changeur des disques	AG 1015-95
Dimensions	1097x511x360 mm 43 $\frac{1}{2}$ x20 $\frac{1}{8}$ x14 $\frac{1}{2}$ inch

Especificación

Altavoces	2x AD 3690A 2x AD 3700AM
F.I.	452 kc/s (A.M.) 10,7 Mc/s (F.M.)
Tensiones de red	110-127-145 165-220-245 V ca. 110 W
Consumo	ca. 110 W
Cambia-discos	AG 1015-95
Dimensiones	1097x511x360 mm 43 $\frac{1}{2}$ x20 $\frac{1}{8}$ x14 $\frac{1}{2}$ inch

Wave ranges - Golfbereiche - Wellenbereiche - Gamme d'ondes - Márgenes de ondas

L.W. - L.G. - LW - C.O. - O.L.	: 870 - 2000 m (345 - 150 kc/s)
M.W. - M.C. - MW - P.O. - O.N.	: 186 - 578 m (1610 - 519 kc/s)
S.W. - K.C. - KW - O.C. - O.C.	: 24,3 - 51,7 m (12,3 - 5,6Mc/s)
F.M. - F.M. - UKW - F.M. - F.M.	: 3 - 3,43 m (100 - 87,5Mc/s)

Valves - Buizen - Röhren - Tubes - Válvulas

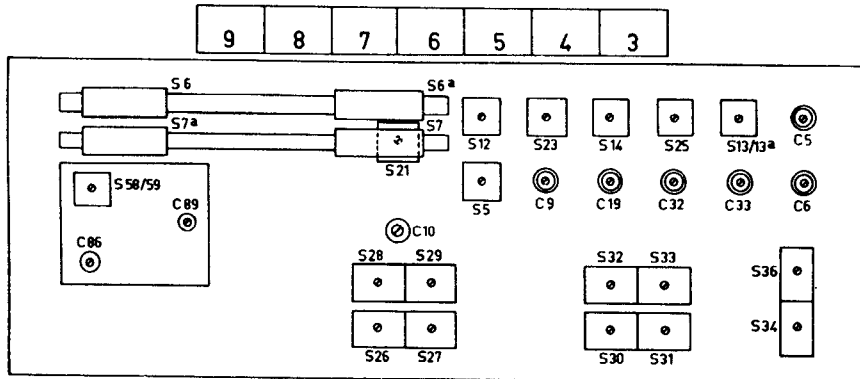
B2 - ECH81	B6 - ECC83	B10 - EL84
B3 - EF89	B7 - EL84	B11 - EZ81
B4 - EF89	B8 - EN84	1.1+I.2-8024N/71
B5 - EABC80	B9 - ECC83	L3 - 8045D/00

SERVICE INFORMATION										
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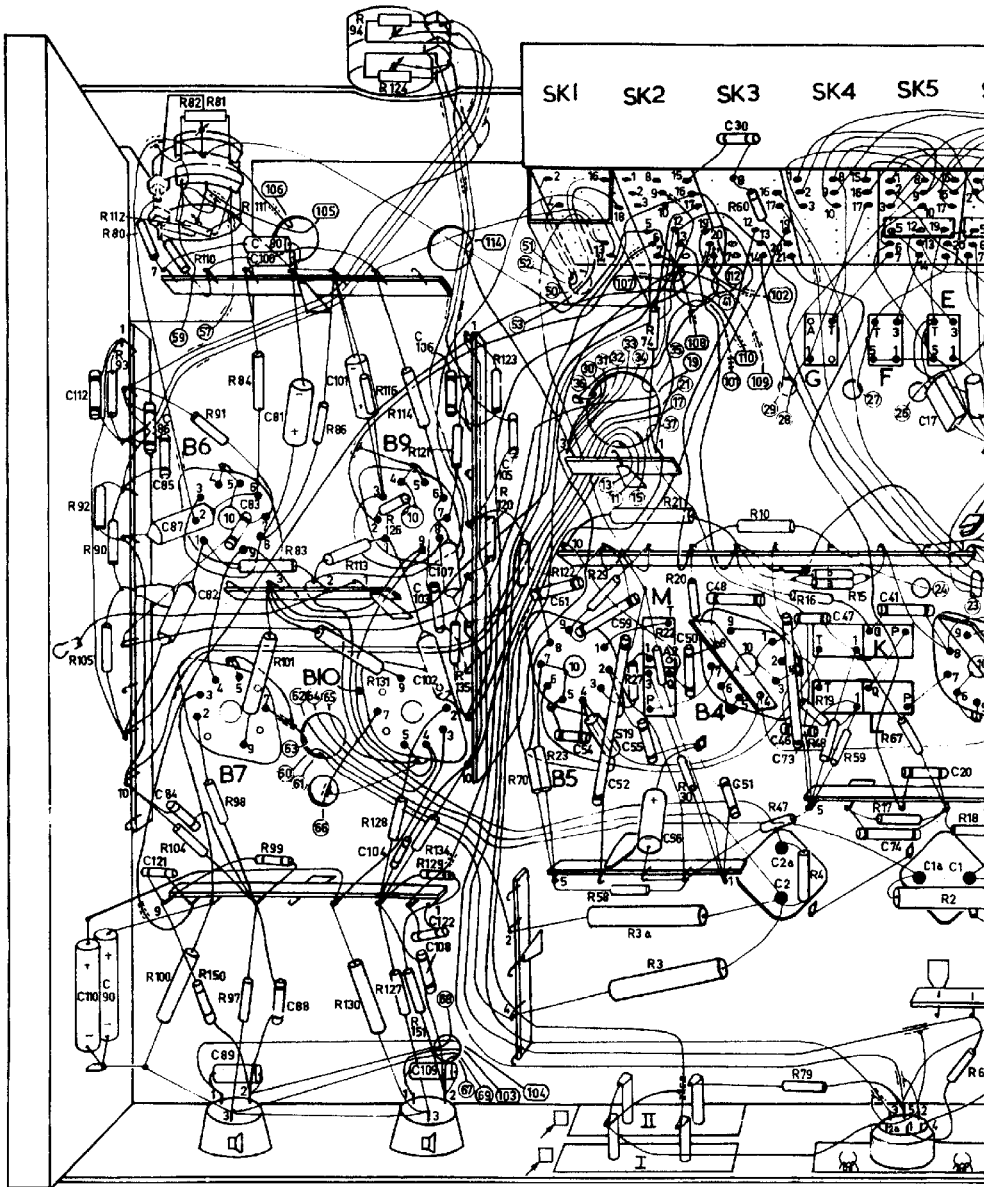
Copyright Central Service Division N.V. PHILIPS' GLOEILAMPENFABRIEKEN, Eindhoven
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F1X12A-00

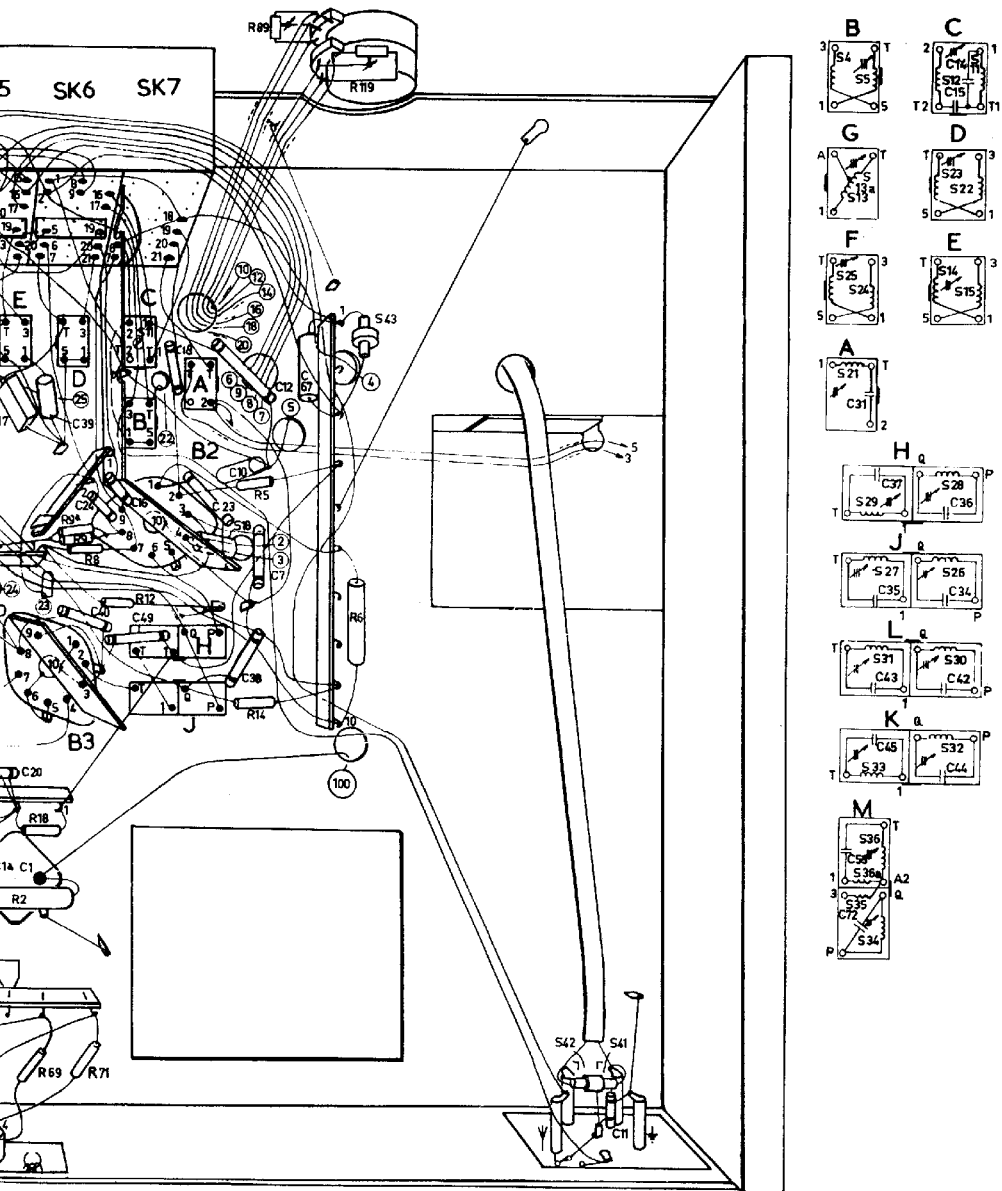
Serv-o-mecum E-a-1 E-a-2 E-a-3	Push button Druktoets Drucktaste Touche poussoire Pulsador	Trimming point Trimpunt Trimmpunkt Point de réglage Punto de ajuste	Signal Signaal Signal Signal Señal	Trim afregelen Abgleichen Régler ajustése	Indication Aanwijzing Anweisung Indicación Indicación				
I.F.-M.F.-ZF M.F.-F.I.	7	186 m	452 kc/s via 33000 pF - C1B2	S33, 32, 28, 29	Max. output				
		550 m	452 kc/s	S12	Min. output				
R.F. and oscillator circuits	8+6	500 m	6,38 Mc/s	S23	Max. output	Repeat Herhalen Wiederholen Répéter Repítanse			
	5+6	500 m	172 kc/s	S14					
	7+6	500 m	610 kc/s	S25					
H.F.en oscillator kringen	8+6	200 m	11,73 Mc/s	C32					
	5+6	200 m	340 kc/s	C19					
	7+6	200 m	1500 kc/s	C33					
Undo connection of point 2SK4 and put it to point 3SK4. Aansluiting van punt 2SK4 losnemen en aan punt 3SK4 leggen. Anschluss von Punkt 2SK4 lösen und an Punkt 3SK4 legen. Dégeger la connexion du point 2SK4 et la mettre au point 3SK4. Suéltese la conexión del punto 2SK4 y conéctesela al punto 3SK4.									
HF und Oszilla- torkreise	8+6	500 m	6,38 Mc/s	S5	Max. output	Repeat Herhalen Wiederholen Répéter Repítanse			
	5+6	500 m	172 kc/s	S13					
	5	500 m	172 kc/s	S7					
	7	500 m	610 kc/s	S6					
Circuits H.F. et oscillateurs	7	200 m	1500 kc/s	C10					
	8	200 m	11,73 Mc/s	C9					
	5	200 m	340 kc/s	C5					
	5+6	200 m	340 kc/s	C6					
Put connection to point 2SK4 again. Aansluiting terug leggen aan punt 2SK4. Anschluss an Punkt 2SK4 zurücklegen. Mettre la connexion de nouveau au point 2SK4. Póngase la conexión de nuevo al punto 2SK4.									
I.F.-M.F.-ZF M.F.-F.I.	9	87,5 Mc/s	10,7 Mc/s via 1500 pF	-g1B4 -g1B4 -g1B3 -g1B2 -7	S34 S36, 36a * S30, 31 ** S26, 27 S58, 21	Max. D.V. Min. D.V. Max. D.V. Max. D.V.			
			R.F.-H.F.-H.F. H.F.-R.F.	9	87,5 Mc/s 100 Mc/s	87,5 Mc/s - 7 100 Mc/s - 7	S55, 56, 57 C86, 89	Max. D.V.	
* Connect to C56 two resistors of 270 kΩ (1½) connected in series. Connect the D.V. between the point of junction of these resistors and the point of junction R30-C51.		* Sluit parallel aan C56 twee in serie geschakelde weerstanden van 270 kΩ (1½). Sluit diodevoltmeter aan tussen knooppunt van deze weerstanden en het knooppunt R30-C51.		* Parallel zu C56 zwei in Serie geschaltete Widerstände von 270 kΩ (1½) anschliessen. Das D.V. zwischen dem Knotenpunkt dieser Widerstände und dem Knotenpunkt R30-C51 anschliessen.		* Connecter en parallèle à C56 deux résistances de 270 kΩ (1½) connectées en series. Connecter le voltmètre de diode entre le noeud de ces résistances et le noeud R30-C51.		* Conéctese en paralelo a C56 dos resistencias en serie de 270 kΩ (1½). Conéctese el D.V. entre el empalme de estas resistencias y el empalme R30-C51.	
** Remove the resistors of 270 kΩ connect the D.V. again across C56.		** Verwijder de weerstanden van 270 kΩ en sluit de D.V. aan over C56.		** Widerstände von 270 kΩ entfernen und das D.V. wieder über C56 anschliessen.		** Enlever les résistances de 270 kΩ et connecter le D.V. à nouveau sur C56.		** Quitense las resistencias de 270 kΩ y vuélvase a conectar el D.V. en C56.	

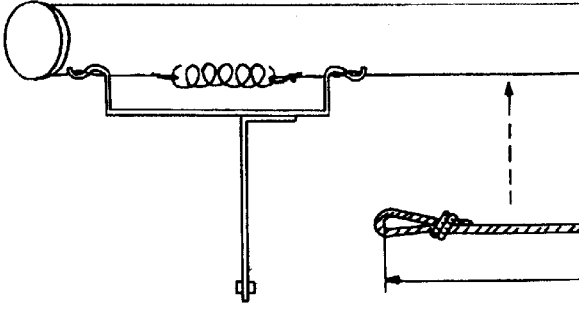
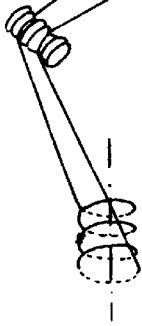
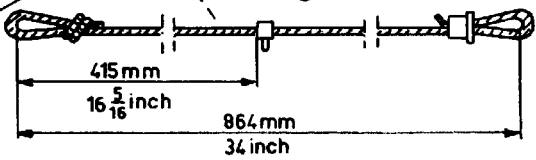
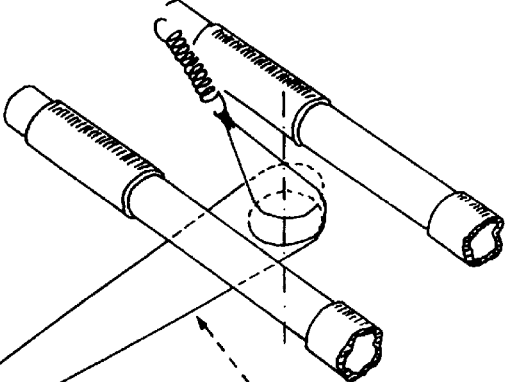
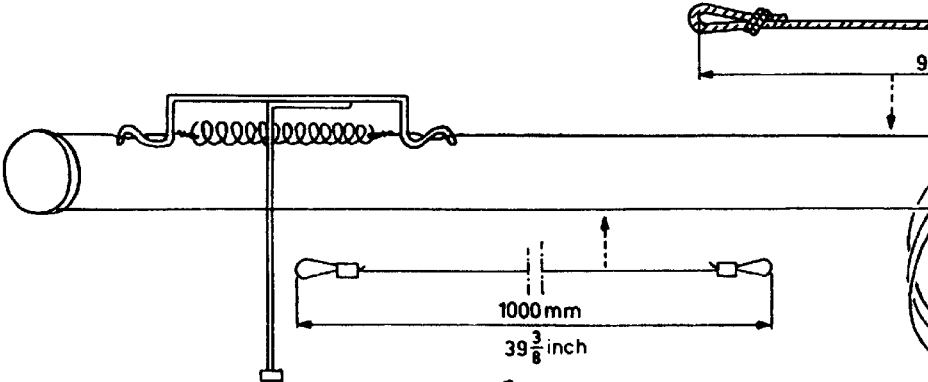


S																				19	M.											G	KL	F	E										
C	110	90	112	86	85	87	82	84	121	83	89	98	80	100	81	101	104	108	102	109	103	107	106	105	122	61	54	59	52	55	56	50	51	48	30	73	46	2	47	74	41	20	1	17	1
R	105		93	150	81	111	91	83	101	97	99	113	131	151	127	129	121	125	123	23	29	27	21	3	3	60	47	79	15	15	19	59	17	67	69										
R	92	90	80	110	100	104	82	112	98	84	86	116	130	114	134	136	128	94	124	120	122	70	74	22	58	20	30	50	10	4	74	16	48	2	18										

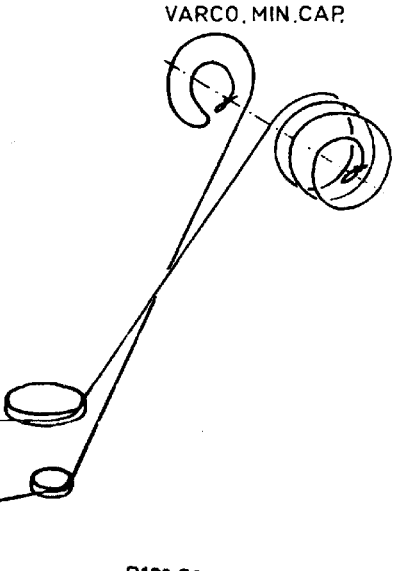
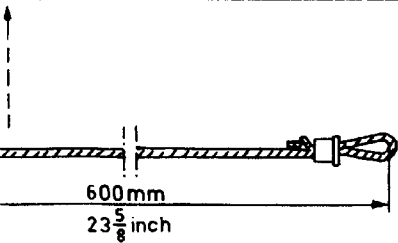
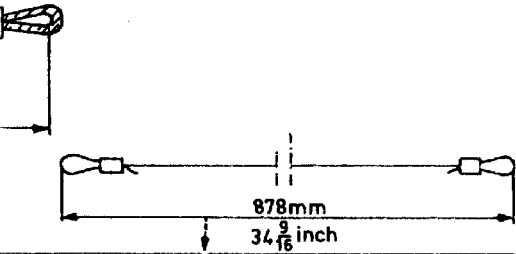
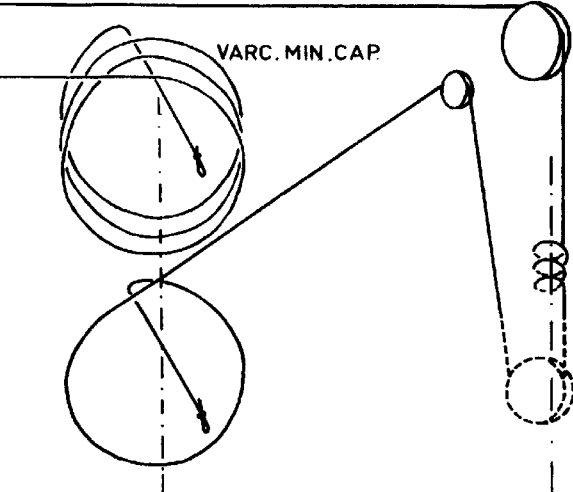
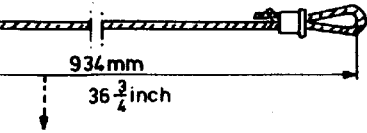


E	D	C	B	H	J	A	18	43	42	41
19	1a	17	1	39	40	24	16	49	18	23
69	9	9a	71	5	89	119	7	11		
18	8	12		14	6					





F7X12A-00



R199 78

F7K12A-00

Grill (loudspeaker)	P5 350 55/423/KE	Rooster (l.s.)	Gitter (Lautspr.)	Grill
Bottom plate	A3 244 47	Bodemplaat	Bodenplatte	Plaq
Rear cover (receiver part)	A3 057 17	Achterwand(ontvanged.)	Rückward (Radio)	Pann
Rear cover (loudsp. part)	A3 262 25	Achterwand (luidspr.ged.)	Rückwand (Lautspr.)	Pann
Spring lock	A3 411 98	Springslot	Springschloss	Serr
Plug in lid	P5 341 43/723/KE	Dop in deksel	Stöpsel in Deckel	Bouc
Philite leg	P5 280 89/723/KE	Philite voetje	Philite Fuss	Pied
Ornamental window(14,15,16)	A3 829 60	Siervenster (14,15,16)	Zierfenster (14,15,16)	Fenê
Ornamental window (13)	A3 830 35	Siervenster (13)	Zierfenster (13)	Fenê
Ring in key	A3 686 57	Ring in klep	Ring in Klappe	Anne
Contact plate (6p)	A3 764 53	Stekerbuisplaat (6p)	Steckerbuchsenplatte (6p)	Plaq
Contact plug (6p)	A3 764 54	Stekkerpenplaat (6p)	Steckerplatte (6p)	Plaq
Female plug (speaker)	A3 410 65	Contrasteker (l.s.)	Kontrastecker (Lautspr.)	Fich
Plug (speaker)	978/3x7	Steker (l.s.)	Stecker (Lautspr.)	Fich
Socket plate, aerial	A3 355 26	Antenne-aansluitplaat	Anschlussplatte Antenne	Plaq
Female plug (taperec.)	A3 788 88	Contrasteker (magn.)	Kontrastecker (Tonbandg.)	Fich
Plug (taperec.)	WT 888 38	Steker (magn.)	Stecker (Tonbandgerät)	Fich
Plate, fixing	A3 788 88	Plaat, bev. A3 788 88	Platte, Bef. A3 788 88	Plaq
Socket plate P.U.	979/2x19	Aansluitplaat, P.U.	Anschlussplatte, PU	Plaq
Drum F.M. tuner	P4 382 07/799/HA	Trommel, F.M.-eenheid	Trommel, UKW-Einheit	Tamb
Voltage adaptor	A3 228 85	Spanningsomschakelaar	Spannungsumschalter	Carr
Drum (A.M.)	A3 417 52	Trommel (A.M.)	Trommel (AM)	Tamb
Knob (1+10)	972/13	Knop (1+10)	Knop (1+10)	Bout
Knob (10 large)	972/14	Knop (10 groot)	Knopf (10 gross)	Bout
Knob (2)	A3 783 84	Knop (2)	Knopf (2)	Bout
Knob (11+12)	P4 077 65/417/UX	Knop (11+12)	Knopf (11+12)	Bout
Knob (13)	A3 056 03	Knop (13)	Knopf (13)	Bout
Spring in knob (1+10)	994/04 (10)	Veer in knop (1+10)	Feder in Knopf (1+10)	Res
Spring in knob (2+10)	A3 650 18	Veer in knop (2+10)	Feder in Knopf (2+10)	Res
Push button (3-9)	P5 420 47/FS	Druktoets (3-9)	Drucktaste (3-9)	Touc
Push button (14-16)	P5 420 22/139/FC	Druktoets (14-16)	Drucktaste (14-16)	Touc
Contact slide, SK1-7	971/109	Contactenschuif, SK1-7	Kontaktschiebe, SK1-7	Tiro
Contact strip, SK1-7	971/110	Contactenstrip, SK1-7	Kontaktstreifen, SK1-7	Band
Slide contact, SK1	971/78	Schuifcontact, SK1	Kontaktbrücke, SK1	Cont
Slide contact, SK2-13	971/77	Schuifcontact, SK2-13	Kontaktbrücke, SK2-13	Cont
Contact lip, SK1-13	971/79	Contactlip, SK1-13	Kontaktzunge, SK1-13	Cont
Contact slide, SK12-13	971/137	Contactenschuif, SK12-13	Kontaktschiebe, SK12-13	Tiro
Contact slide, SK11	971/124	Contactenschuif, SK11	Kontaktschiebe, SK11	Tiro
Contact strip, SK12-13	971/138	Contactenstrip, SK12-13	Kontaktstreifen, SK12-13	Band
Contact strip, SK11	971/120	Contactenstrip, SK11	Kontaktstreifen, SK11	Band
F.M. tuner	A3 768 85	F.M.-eenheid	UKW-Einheit	Unit
Dial, N-B	A3 969 69	Schaal, N-B	Skala, N-B	Cadr
Dial, S	A3 969 70	Schaal, Z	Skala, S	Cadr

S1		S13		S26		S34		C1
S2		S13a	A3 125 49	S27		S35		C1a
S3	A3 176 17	S14		C34	A3 127 86	S36		
S3a		S15	A3 127 39	C35		S36a	926/10,7RD	C2
Z1		S18	M7 753 84	S28		C53		C2a
S4		S19	M7 753 84	S29		C72		
S5	921/24-52	S21		C36	925/452	S41		C3
S6		C31	A3 127 83	C37		S42	WE 110 61	C4
S6a	922/01	S22		S30		S43	A3 125 49	C56
S7		S23	923/24-52	S31		S50		C81
S7a	922/04	S24		C42	926/10,7	S51	A3 154 41	C90
S11		S25		C43		S52		C91
S12		S24	A3 125 99	S32		S60		
C14	A3 119 70	S25		S33	925/452-2	S61	A3 154 41	C101
C15				C44		S62		C110
				C45				

To order parts which do not occur in this list, consult the catalogue for Service Spare Parts.

Voor het bestellen van onderdelen welke niet in deze lijst voorkomen raadplege men de catalogus voor Service Standaard Onderdelen.

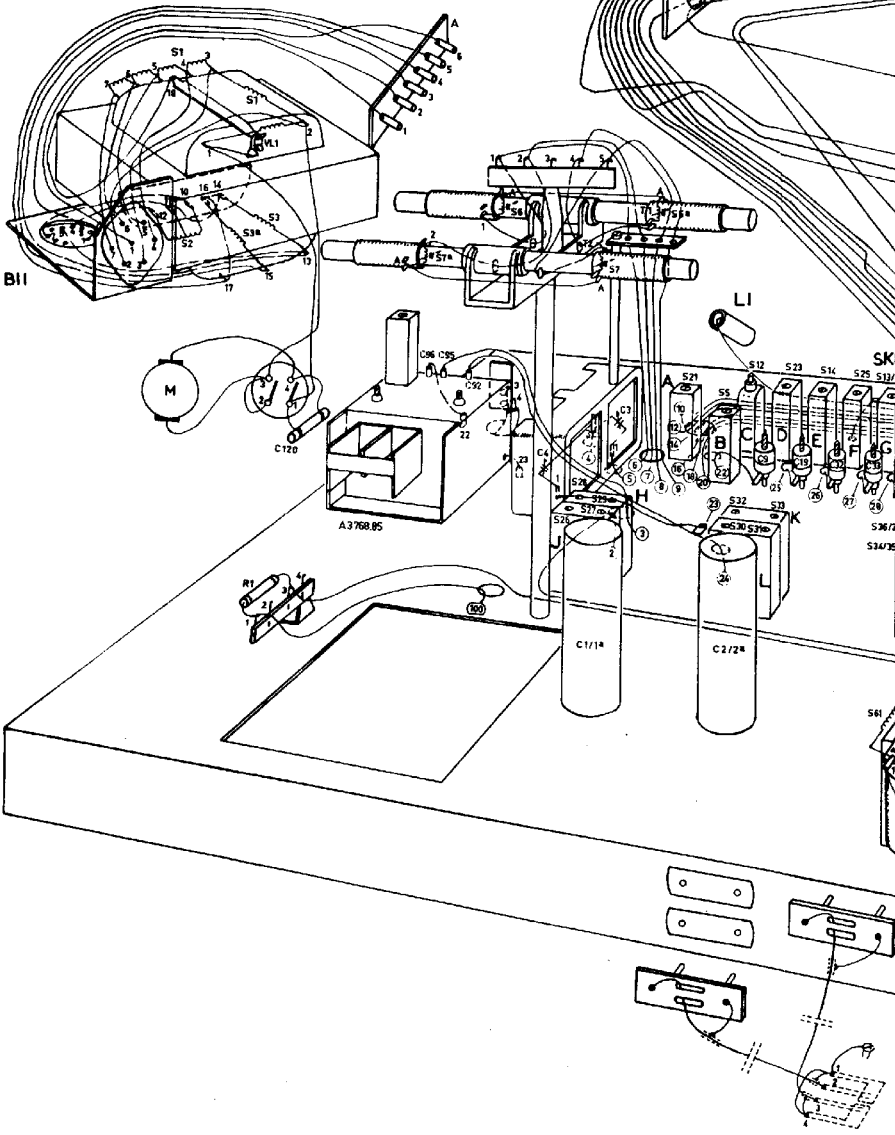
Zur Bestellung nicht in dieser Liste genannter Einzelteile siehe den Katalog für Service Standard Ersatzteile.

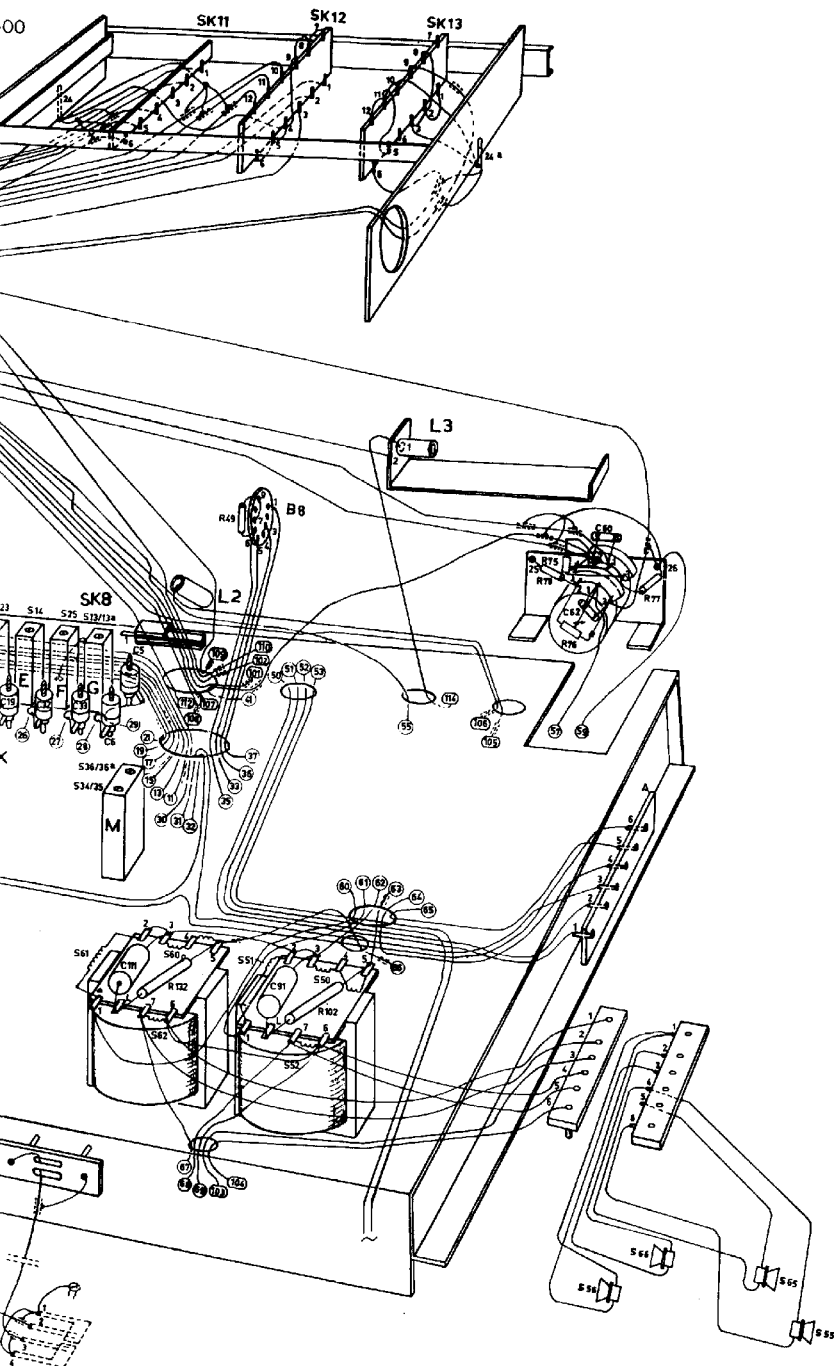
K12A-00

(Lautspr.) platte d (Radio)	Grille (haut-parleur) Plaque du fond Panneau arriere (radio)	P5 350 55/423/ME A3 244 47 A3 057 17	Rejilla (altavoz) Placa de fondo Panel posterior (radio)
d (Lautspr.) schloss in Deckel	Panneau arriere (h.p.) Serrure à ressorts Bouchon dans couvercle	A3 262 25 A3 411 98 P5 341 43/723/KE	Panel posterior (altavoz) Cerradura de resorte Tapón en cubierta
Fuss ster (14,15,16)	Pied de philite Fenêtre enjoliveuse (14,15,16)	P5 280 89/723/KE A3 829 60	Pie de philite Ventanilla ornamental (14,15,16)
ster (13)	Fenêtre enjoliveuse (13)	A3 830 35	Ventanilla ornamental (13)
Klappe buchsenplatte (6p) platte (6p)	Anneau en clapet Plaquette à douille (6p) Plaquette à broches (6p)	A3 686 57 A3 764 53 A3 764 54	Anillo en válvula Placa con hembrilla (6p) Placa con clavijas (6p)
tecker (Lautspr.) (Lautspr.) ssplatte Antenne	Fiche femelle (h.p.) Fiche (h.p.) Plaque à douille antenne	A3 410 65 978/3x7 A3 355 26	Enchufe hembra (altavoz) Enchufe macho (altavoz) Placa con hembrilla antena
tecker (Tonbandg.) (Tonbandgerät) Bef. A3 788 88	Fiche femelle(enregistreur) Fiche (enregistreur) Plaque, fix. A3 788 88	A3 788 88 WT 888 38 A3 542 94	Enchufe hembra (magnetófono) Enchufe macho (magnetófono) Pletina, fij. A3 788 88
ssplatte, PU , UKW-Einheit gsmuschalter	Plaque à douille P.U. Tambour, unité F.M. Carr. de tension	979/2x19 P4 382 07/799/HA A3 228 85	Placa con hembrilla P.U. Tambor, unidad F.M. Cambiador de tensiones
(A.M.) 1+10) 10 gross)	Tambour (A.M.) Bouton (1+10) Bouton (10 grand)	A3 417 52 972/13 972/14	Tambor (A.M.) Botón (1+10) Botón (10 grande)
2) 11+12) 13)	Bouton (2) Bouton (11+12) Bouton (13)	A3 783 84 P4 077 65/417/UX A3 056 03	Botón (2) Botón (11+12) Botón (13)
n Knopf (1+10) n Knopf (2+10) ste (3-9)	Ressort dans bouton (1+10) Ressort dans bouton (2+10) Touche (3-9)	994/04 (10) A3 650 18 P5 420 47/FS	Resorte en botón (1+10) Resorte en botón (2+10) Pulsador (3-9)
ste (14-16) schiebe, SK1-7 streifen,SK1-7	Touche (14-16) Tiroir, SK1-7 Bande de contact, SK1-7	P5 420 22/139/FC 971/109 971/110	Pulsador (14-16) Placa deslizante, SK1-7 Faja de contacto, SK1-7
brücke, SK1 brücke, SK2-13 zunge, SK1-13	Contact pour tiroir, SK1 Contact pour tiroir,SK2-13 Contact pour plaquette SK1-13	971/78 971/77 971/79	Contacto deslizante, SK1 Contacto deslizante, SK2-13 Contacto fijo, SK1-13
schiebe, SK12-13 schiebe, SK11 streifen, SK12-13	Tiroir, SK12-13 Tiroir, SK11 Bande de contact,SK12-13	971/137 971/124 971/138	Placa deslizante, SK12-13 Placa deslizante, SK11 Faja de contacto, SK12-13
streifen, SK11 heit N-B	Bande de contact, SK11 Unité F.M. Cadran, N-B	971/120 A3 768 85 A3 969 69	Faja de contacto, SK11 Unidad F.M. Cuadrante, N-B
S	Cadran, S	A3 969 70	Cuadrante, S

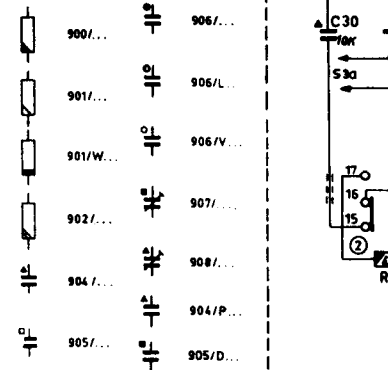
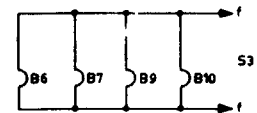
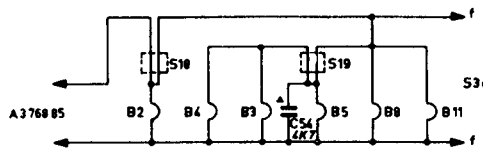
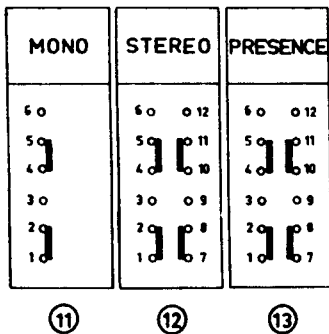
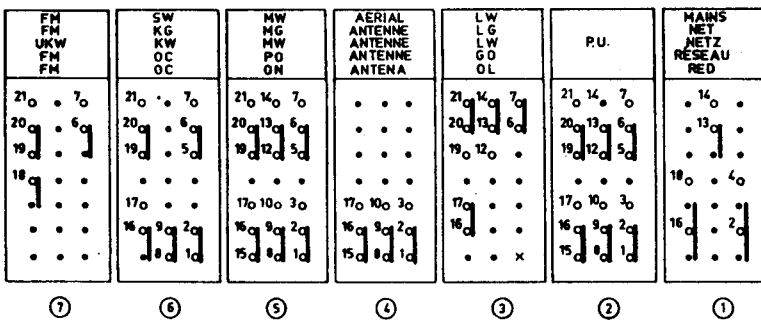
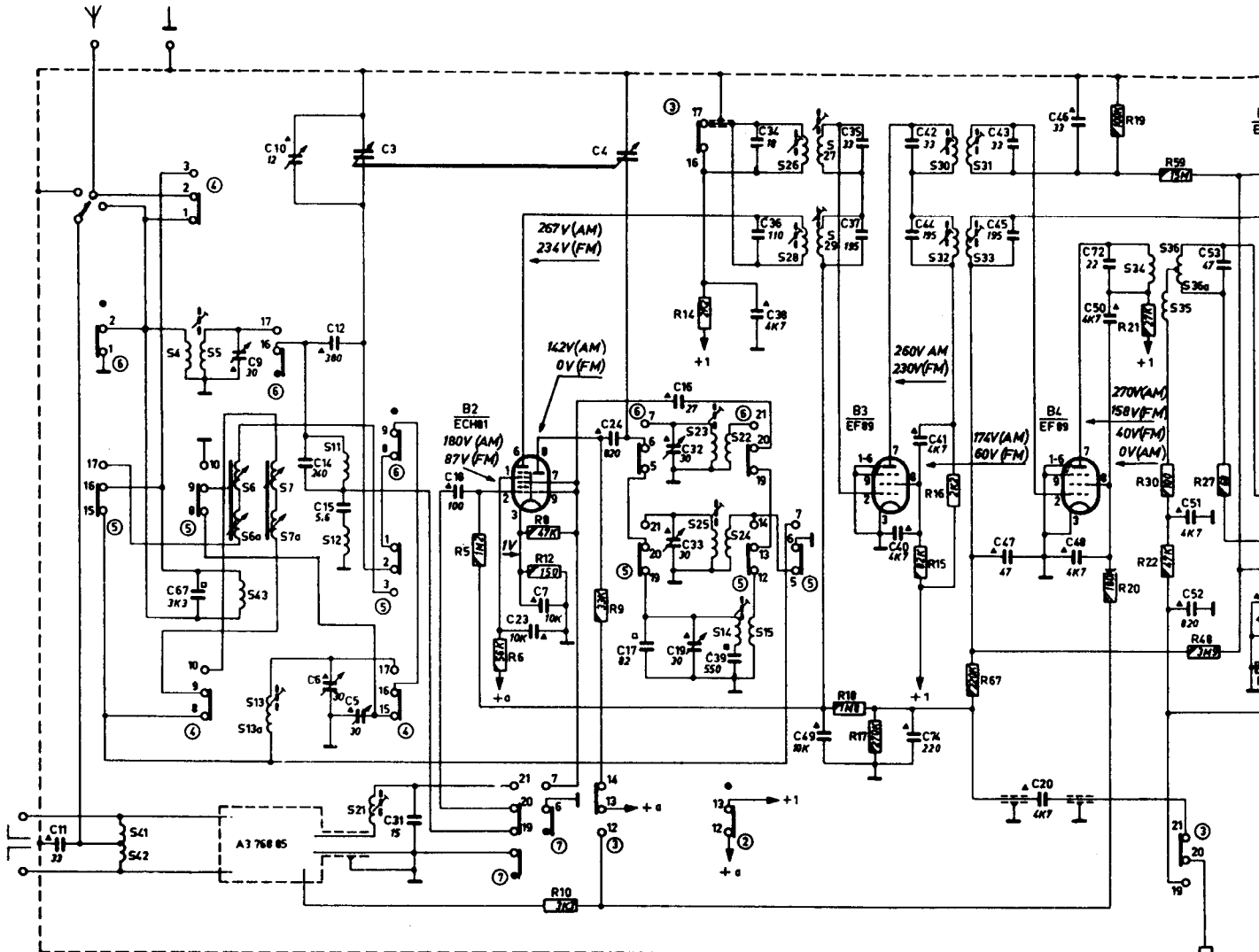
926/10,7RD	C1	AC 5408/50+50	C111	48 233 20/1K	R81	E 091AG/OOB17
	C1a		R1		R82	
WE 110 61	C2	AC 5408/50+50	R2	E 001AK/A120E	R111	E 001AG/A2K2
	C2a		R3		R112	
A3 125 49	C3	920/489+160	R3a	E 001aK/A1K5	R101	E 091AG/OOB15
	C4		R10		R89	
A3 154 41	C56	909/Z10	R14	E 001AG/A3K3	R119	E 091AG/OOB15
	C81		R16		R94	
A3 154 41	C90	909/W100	R14	E 001AD/A2K2	R124	E 091AG/OOB15
	C91		R16		R130	
A3 154 41	C101	909/W100	R16	E 001AD/A2K2	R131	E 001AG/A180E
	C110		R75		R131	
			R76	E 091ZZ/12		
			R100	E 001AG/A180E		PvB/KP

lung nicht in dieser unter Einzelteile Katalog für Service rsatzteile.	Pour la commande des pièces ne figurant pas dans cette liste, veuillez consulter le catalogue pour pièces de Rechange Stan- dard.	Para pedir piezas que no fi- furan en esta lista, consúltese el catálogo para piezas de Recambio Standard.
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S	4, 5	6, 6a, 7, 7a, 11, 12	23, 22	26, 27	30, 31	34, 35, 36, 36a
S	41, 42	43, 13, 13a	21	18	19, 24, 25, 14, 15	28, 29
C	67	8	10, 14, 15, 12, 3	16	24, 4, 16	34, 36, 30, 35, 37
C	11	6, 5	21	23, 7	17, 54, 22, 23, 19	20, 49
R				5, 8, 12, 9	14	15, 16
R						18, 17
						67
						19, 21, 30, 53, 27
						20, 22, 48, 2



5. 36. 36 *										90. 91. 92.										66. 66																											
53.	73.	58.61.	80.	81.	82.	87.	83.	85.	85.	112.	84.	104.	90.	91.121.	89.	88.	60.	61.	62.	1.2.3.4.	66.	66																									
51. 52. 30.	55.	60.	100.	101.	102.	107.	103.	2. 4.	2.	105.106.	101.	110.	111.	108.	122.	120.	109.	0. 59. 27.	68.	47.	29.	70.	49.	80.	81.	82.	83.	84.	86.	69.	89.	91.	4.	92.	93.	94.	105.	90.	104.	97.	97.	98.	100.	101.	99.	102.	150.
22.	48.	2.	58.	74.	75.	77.	76.	78.	110.	111.	112.	79.	136.	113.	114.	116.	88.71.	119.	121.	3.	122.	123.	124.	135.	120.	124.	2.	127.	128.	130.	131.	129.	132.	131.													

