# SERVICE MANUAL PARTS LIST

AP-001C





ALSO APPLICABLE TO MODEL AP-001



# TURNTABLE

# MODEL AP-001C

ALSO APPLICABLE TO MODEL AP-001

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# **SECTION 1**

# SERVICE MANUAL

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# I. TECHNICAL DATA

#### 1. TURNTABLE SECTION

TURNTABLE	300 mm aluminium alloy die cast	
DRIVE SYSTEM	Belt drive	
MOTOR	4-pole synchronous motor	
SPEED	33-1/3 and 45 rpm	
WOW & FLUTTER	0.06% WRMS	
SIGNAL TO NOISE RATIO	Better than 50 dB	

#### 2. TONE ARM SECTION

TONE ARM	Static-balanced type stainless steel tubular arm with inside force canceler and lateral balance weight
ARM LENGTH	220 mm
STYLUS PRESSURE ADJUSTMENT RANGE	0 to 4 grams
APPLICABLE CARTRIDGE WEIGHT	4 to 10 grams (10 to 15 grams using sub-weight)
ARM LIFTER	Oil damped
OVERHANG	15 mm
SHELL WEIGHT	8.0 grams

#### 3. CARTRIDGE SECTION

CARTRIDGE	VM (dual magnet type) Audio Technica Model AT-11 with 0.7 mil spherical
	diamond stylus.
	Model AP-001C only. (Model AP-001 does not include cartridge)
FREQUENCY RESPONSE	15 Hz to 25,000 Hz
OUTPUT VOLTAGE	4 mV (1,000 Hz 50 mm/sec)
CHANNEL SEPARATION	20 dB (1,000 Hz)
OPTIMUM STYLUS PRESSURE	2.5 grams
REQUIRED LOAD IMPEDANCE	47k to 100 k ohms
WEIGHT	5.5 grams

### 4. GENERAL SPECIFICATIONS

POWER REQUIREMENT	CSA Models 120V, 60 Hz
	CEE Models 220V, 50 Hz
	Other Models 110V/220V, 50/60 Hz and 240V, 50 Hz
DIMENSIONS	440(W) × 140(H) × 350(D) mm
	(17.3'' × 5.5'' × 13.8'')
WEIGHT	6.3 kg (13.9 lbs.)

NOTE: For improvement purposes, specifications and design are subject to change without notice.

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.





# **III. ARRANGEMENT OF PRINCIPAL PARTS**





Remove the rubber plug on panel toward the rear part of the pick up arm. When the pick up arm is moved as shown in Fig. 1, Adjustment Screw (A) becomes accessible through the hole from which the rubber plug has been removed. When Adjustment Screw (A) is turned clockwise, stop position will be advanced and when turned counter-clockwise, stop position will be delayed.

Use a 30 cm record as standard and adjust stop position as follows with Adjustment Screw (A).

For adjusting toward outer circumference turn clock-wise.

For adjusting toward inner circumference turn counter-clockwise.

If only proper inner or outer adjustment can be attained, this means that adjustment at some other place is necessary. After source of trouble has been located and corrected, re-adjust adjustment screw (A).

- NOTE: 1. Because of one adjustment screw only, stop position of 30 cm 17 cm record will be the same.
  - 2. After adjustment, be sure to re-install rubber plug.



Fig. 2

50 Hz and 60 Hz cycle change is effected by changing the motor pulley.

50 Hz and 60 Hz differentiation can be determined by the groove on the 60 Hz pulley. While viewing horizontally as shown in Fig. 2, install so that the lower part of the motor pulley brim and the lower part of the belt guide are lined up. Set speed selector to 33 rpm position, install the belt and switch on power. If a rumbling noise from the belt can be heard and speed changing is not smooth, adjust installation position of motor pulley.



Fig. 3



Fig. 4

#### 1. LIFE OF STYLUS

The lifetime of stylus is about 500 hrs. of use (both sides of about 500 30 cm LP records). If the stylus becomes old, because the record will be damaged and tone quality will become inferior, be sure to replace as soon as is needed. If records on which dust is allowed to accumulate are played, the stylus will wear especially fast and the record surface will be scratched. Therefore, please be sure to keep record clean by wiping and cleaning the record grooves with water soaked gauze. Also if dust adheres to the turntable mat, as this will cause the record to become dirty easily, the mat should also be kept clean.

#### 2. STYLUS CHANGE

When replacing stylus, be sure that the stylus (ATS-11) is inserted properly in the direction of the arrow mark shown in Fig. 3 and fits into cartridge firmly. Use only model ATS-11 stylus which is for use in model AT-11 cartridge.

#### **3. LUBRICATION**

Because for rotating parts and parts which rub together during operation, oilless metal and thebest grease or oil is used, your machine will not need lubrication for some time. About once per year use standard accessory player oil, and apply one ort wo drops to the motor shaft as shown in Fig. 4. Incase you do not have player oil, use #60 spindle oilor a high grade machine oil. If used continually for business purposes, etc., oil about once or twice per month.

CAUTION: Following lubrication, because oil will adhere to the drive belt and pulley and to the turntable etc., wipe the oi off of these parts with a cloth to which a little carbon tetrachloride or thirner (benzine can be also be used) has been applied.

# VII. BLOCK DIAGRAM

#### 1. CARTRIDGE



#### 2. SWITCHABLE MODELS



SUPPLY P.C BOARD NO. 22370139

#### 3. CSA MODELS



SUPPLY PC BOARD NO. 22142972





#### 4. BSI MODELS



#### 5. AST MODELS



#### 6. OTHER MODELS







#### 7. CEE MODELS



SUPPLY P.C BOARD NO. 22142972



# VIII. TROUBLE SHOOTING CHART

Condition	Explanation	Confirmation	Source	Countermeasure
Poor tone quality	<ol> <li>Distortion         (When using new record)     </li> </ol>	<ol> <li>Distortion persists after changing stylus and confirming normal pick-up arm operation. (Amp. Speaker normal)</li> </ol>	Faulty cartridge.	Replace cartridge
		2. Crackling sound even when playing new record. Especially vague at high range.	Worn stylus.	Replace stylus.
		3. A crunching sound exists and there is a sudden change in sound level. Also the level of right and left differs greatly.	Bent stylus.	
		4. Sound is vague or distortion exists.	Dust adhering to stylus.	Clean stylus.
		5. Stylus jumps.	Insufficient pressure.	Readjust stylus pressure.
		6. Stylus sinks to far into cartridge body during record playback.	Too much pressure.	
	2. Hum noise.	1. When pick up arm or player body is touched with your hand, hum noise increases.	Faulty grounding between cartridge and amp. input or turntable and amp.	Replace or repair ground wire.
		2. A hum is emitted from one channel (or both channels).	Faulty pin plug Connection.	Connect perfectly
		3. Hum is altered by changing posi- tion of lead wire from pick-up.	Lead wire from pick-up and source wiring is too close together.	Move lead wire to obtain minimum hum.
	3. Left/right sound separation poor.	Using a monaural record, left/right sound scatters and is not emitted from the center.	The plus and minus terminals are reversed on one side at cartridge out-put pin and shell pin connection or faulty cartridge.	Connect plus and minus correctly. Replace cartridge.
	4. Distortion at one channel only.	<ol> <li>Observe pick-up arm head during record performance.</li> </ol>	Bent pick-up head.	Replace pick-up arm.
		2. After pick-up arm side pressure and zero balance adjustment, pick-up arm does not move smoothly by means of inside force canceller.	Pick-up arm rotating shaft faulty.	Replace pick-up arm assy
		3. Pick-up arm heavy or catches when moved to left and right by hand.	Installation of pick-up plate assy faulty.	Correct pick-up plate installation height as specified.
	5. No sound	1. Check pin plug cord lead-through with tester.	Disconnected or broken wire.	Replace pin plug cord.
		2. Check cartridge terminal DC resistance with tester. (L ch, R ch)	Broken or shorted wire inside cartridge.	Replace cartridge.
Unusual noise	1. Mechanical noise (direct	1. Belt contacting belt guide.	Faulty motor pulley height.	Adjust height of motor pulley.
	noise)	2. Observe motor pulley during revolutions.	Variation in motor pulley.	Replace motor pulley.
		3. During revolutions, vibration exists or noise is audible.	Faulty motor.	Replace motor.
		4. During motor rotation, if arm or table mount is touched with your hand, vibration is evident.	Faulty installation of motor or variation in motor cushions.	Adjust motor installation position. Replace motor cushion.

Condition	Explanation	Confirmation	Source	Countermeasure
	<ol> <li>Electrical noise. (from speaker)</li> </ol>	<ol> <li>Sometimes shock noise and hum is emitted. Interference when lead wire is moved or no sound periodically.</li> </ol>	Lead wire leak or lead wire is broken or dis- connected. Faulty pin plug cord connection.	Repair or replace lead wire. Make proper pin plug cord connection.
		2. Interference when upper part of shell is lightly tapped.	Defective cartridge. Faulty cartridge terminal connection.	Replace cartridge. Make proper lead wire connection.
		3. Vibration and noise from motor during revolutions.	Faulty motor.	Replace motor.
Turntable does not rotate.	1. Electrical circuit problem.	1. Check Supply P.C Board fuse with tester.	Fuse blown.	Replace with proper fuse
(or rotation is unstable)		2. Check Proximity switch lead- through with tester.	Shorted.	Replace Proximity switch.
		3. Check power switch lead- through with tester.	Open.	Replace micro switch.
		4. Check main lead wires with tester.	Disconnected or broken lead wire.	Replace or repair lead wire.
		5. Check motor coils with tester.	Disconnected or broken wire.	Replace motor.
		6. When rotor is rotated by hand, it catches or rotation is not light and smooth.	Insufficient oil.	Lubricate rotor shaft and clean.
	2. Table shaft out of order.	When turntable in rotated by hand it seems heavy. Unusual noise and too much rattle (with belt removed).	Insufficient oil.	Lubricate table shaft and bearing. Replace table shaft.
	3. Speed change mechanism defective.	<ol> <li>Slippage between belt, motor pulley and turntable.</li> </ol>	Worn out belt. Oil adhering to belt.	Replace belt. Clean with carbon tetra- chloride or alcohol.
		2. Belt does not run on middle of motor pulley (drum-like part).	Faulty motor pulley height.	Adjust motor pulley height and motor shnt.
		3. Belt rubbing noise.		
	4. Revolutions too slow. (or uneven)	Check for variation in shape of belt and whether dust is adhering to belt, motor pulley and turntable.	Variation of belt. Dust.	Replace belt. Clean with carbon tetra- chloride or alcohol.
Dperation of nanual lifter	1. Lifting or lowering takes	1. Observe plate spring.	Variation in shape or bent.	Repair or replace.
faulty. (at record performance)	place too fast when manipulat- ing the lifter manually.	2. Check lifter shaft silicon oil.	Insufficient silicon oil.	Apply silicon oil (200000CS).
	2. Lifting or lowering is too slow when manipulating the lifter manually.	1. Check strength of pressure coil spring.	Pressure coil spring has lost strength.	Replace pressure coil spring.
		2. Check lifter silicon oil.	Too much oil.	Wipe off oil.
Position of arm auto stop faulty.	1. Too soon.	Auto stop takes place too soon (17 cm, 30 cm record).	Faulty adjustment.	Use a 30 cm recordas standard and adjus by turning adjustment screw (A) counter-lock- wise.
	2. Too late.	Auto stop takes place too late (17 cm, 30 cm record).	Faulty adjustment	Use a 30 cm recorda s standard and adjus by turning adjustment screw (A) clock-wie.

Condition	Explanation	Confirmation	Source	Countermeasure
	3. Auto stop of either 17 cm or 30 cm record sooner or later than normal auto stop.	When the bottom panel is removed and the movement of the aluminum plate (switch holder plate) on which the Proximity Switch is installed is changed by manipulating the change lever, the stopper screw sticks to part of the square hole in the aluminum plate and does not move freely.	Faulty connection pole or adjustment.	Replace connection pole and also change holes (choose the most suitable of the 3 holes) at tip of aluminum plate to which connection pole is connected.
	4. Specified stop position.	30 cm, 25 record operation begins between $115\phi$ and $109\phi$ (center 56R). 17 cm record operation begins between $106\phi$ and $98\phi$ (center 51R).		

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**SECTION 2** 

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# PARTS LIST

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#### HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.

- When ordering parts, please describe parts number, serial number, and model number in detail.
   How to read List
  - The reference number corresponds with illustration or photo number of that particular parts list.

- This number corresponds with the Figure Number. This number corresponds with the individual parts index number in that figure. A small "x" indicates the inability to show that particular part 12-115x in the Photo or Illustration. Schematic Diagram Number of individual manufactured part. (not required for parts order) -Quantity of particular part required. 1 Ref. Schematic Q'ty Parts No. Description No. **FLYWHEEL BLOCK #13** 800425 Flywheel Block Assy. Comp. RDG #13 1 12-115x 12-116 244506 Flywheel Only RD-233 1 244754 Felt, Flywheel RD-275 12-117x 1 251324 Main Metal Case 12-118 RD-236 253080 Main Metal RD-237 1 12-119

- 4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
- 5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
- 6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
- 7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the
  - Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
- 8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

# 1) ASSEMBLY BLOCK (1)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	CABINET	BLOCK		
1-1	TP710021	Rubber Cap	2088176800	1
1-2	TP720257	Rubber Cushion	2275683000	
			221000000	4
	SPEED CH	ANGE BRACKET BLOCK		
1-3	BZ709323	Belt Guide Boock Comp.		
		AP-001/C	2074690800	1
1-4	TP709334	Guard AP-001/C	2074051900	1
1-5	MB719008		2072861100	1
1-6	BM709356	eren eren eren eren eren eren eren eren		
1 7	MDGoooge	AP-001/C		1
1-7 1-8	MB709391	Cushion Rubber AP-001/C	2088172200	3
1-8 1-9x	MR709402 MR709413	Motor Pulley 50 Hz AP-001/C		1
1-10	MS709413		2071675100	1
1 10	113707424	Motor Hang Shaft (A)	0076460000	
1-11	MS709435	AP-001/C Motor Hang Shaft (B)	2076463000	1
0.00		AP-001/C	2076463100	2
1-12	TP709446	Cushion Holder AP-001/C	2074672100	3
1-13	ZW712236	'E' Ring 4M	2074072100	3
				5
	PU ARM BI	LOCK		
1-14	TP709457	PU Arm AP-001/C	2073174600	1
1-15	BL719381	Lifter Bar Block Comp.		
		AP-003	2076165700	1
1-16	MS709468	Lifter Shaft AP-001/C	2076469000	1
1-17x		Cramp Coil Spring AP-001/C	2070381800	1
1-18x 1-19	Contractor and the second second second	'E' Ring 3M		1
1-19	BZ709481	PU Rest Block Comp.		
1-20	TP719594	AP-001/C Pick-up Stand AP-003	2073871100	1
1-21x	ZS712372	Screw, cone point	2073563700	1
		Flat Socket 40×10		1
1-22x	ZS712653	Tapping Screw Pan head		
		30×10		3
	TURN TAB	LE BLOCK		
1-23	TP709492	Turn Table AP-001/C	2072365300	1
1-24	TP709503	Table Sheet AP-001/C	2072368600	1
1-25	MV709514	Table Shaft Holder AP-001/C	2072568300	1
1-26	ZW719043	Special Nut AP-003	2079663100	1
1-27	ZW712697	Special Washer 101×170×10		1
1-28 1-29	ZS712765 MS709525	Screw, pan head 30×4×4		1
1-29	M3709325	Table shaft AP-001/C	2076468900	1
	LIFTER LE	VER BLOCK		
1-30	BL709536	Lifter Lever Block Comp.		
		an - market and a	2075179400	1
1-31	SK715533	Knob	2283540100	2
			2200010100	-
	RECORD SE	ELECT CAM BLOCK		
1-32	BZ709547	Record Select Cam Block		
		Comp. AP-001/C	2075772200	1
	DI DODD			
		L PARTS BLOCK		
1-33	ES718648	Micro SW. AP-003	2214633500	1
	ES709806	Micro SW. 5A 250V(SEMKO)		1
1-35X	ES709817	Micro SW. 5A 250V (BSI)	2214035100	2

#### 2) ASSEMBLY BLOCK (2)

1	Ref.	Parts No.	Description	Schematic	01
	No.	Tants no.	Description	No.	Q'ty
l		CABINET	BLOCK		
l	2-1	ZG709132			
	<i>4</i> 1	20/09132	(Cone Type) AP-001/C	0070300700	
	2-2	ZG709143		2070382700	1
	2-2	20/09143			
ľ	2-3	ZG709154	(Cone Type) AP-001/C	2070382800	1
1	2 0	20709134		005000000	
	2-4	ZG709165	(Cone Type) AP-001/C	2070382900	1
3	~ .	20709103			
	2-5	ZS712135	(Cone Type) AP-001/C Tapping Screw, pan head	2070383000	1
	20	20712133	40x8		
	2-6	TP720314	Cushion	2022120700	4
	2-7	TP720268	Holder Plate	2088180700	4
	2-8	ZS720281	Screw, w/washer 3×10	2074690000	1
		20720201	and the second sec	9070477000	
	2-9	TP720270	(Special) Rubber Pad A	2079477900	1
	2-10	TP720292	Rubber Pad B	2088180400	2
	2-11	TP720303		2088180500	1
	2-11	11/20303	Rubber Pad C	2088180600	1
		SPEED CU	ANGE BRACKET BLOCK		
	2-12	BZ709312			
	2-12	BZ/09312	Speed Changing Bracket		
	2 1 2	70010010	Block Comp. AP-001/C	2073564800	1
	2-13	ZG718918	Turn-over Spring AP-003	2277172000	1
	2-14	ZS712225	Tapping Screw, pan head		
	a	00/01	30×8		2
	2-15	SB631157	Push Button E	CW-2014	2
		DEGGE			
			ELECT CAM BLOCK		
	2-16	TP709558	Connecting Pole AP-001/C	2076468800	1
	2-17	TP709560	SW. Holder AP-001/C	2074687000	1
	2-18	ZG709571	Pull Coil Spring AP-001/C	227178200	1
	2-19	ZW713586	Special Washer, 32×100×5	2270351000	2
	2-20	ZS715228	Tapping Screw, pan head		
			30×10		1
	2-21	ES711786	Reed SW.	2214632200	1
	2-22	BD709582	PU Plate Block Comp.		÷.
			AP-001/C	2075179500	1
	2-23	ZS715230	Screw, countersunk head	2010110000	
		The second back of the second s	26×8 (PC)		1
			2000 (10)		
		ELECTRIC	AL PARTS BLOCK		
	2-24	EJ709593	Output Terminal Plate		
			AP-001/C	2216235000	1
	2-25x	EW709604	PU Cord AP-001/C	2216434700	1
	2-26	TP709727	Spacer AP-001/C	2275289400	4
	2-27	ZS715241	Tapping Screw 3x16 BR	2213203400	4
	2-28	MB718885	Cushion Rubber AP-003	0000161000	
	2-29	BT709751	Power Trans.	2088161000	4
			(U/T, 110/220)/KMA	2222332800	3
	2-30x	BT709762	Power Trans.	222232800	1
			(U/T, 240/50)/AST, BSI	0000004100	5 <b>4</b> 5
	2-31x	BT709773	Power Trans. CEE (SEMKO)	2222334100	1
	2-32x	BT709784	Power Trans. CSA	2222334300	1
	2-32	TP711011		2222334400	1
	2-35 2-34x	TP711022	Cord Retainer	2074679000	1
	2-34x 2-35	TP712001	Cord Retainer	2074682600	1
	2-35 2-36x	TP712001 TP712012	Cord Stopper UL	2088167600	1
	2-36x 2-37x		Cord Stopper 3 Core	2218512600	1
	2-3/X	TP709795	Cord Stopper KMA, CEE		
	1 20	PA 700000	(SEMKO)	2218512900	1
	2-38	BA709828	P.C Board Comp. (U/T,	122 - 1000 March 1997 - 1	
	0.00	DARGE	110/220)/KMA AP-001/C	R-030207	1
	2-39x	BA709830	P.C Board Comp. (U/T,		
			240/50)/AST AP-001/C	R-030227	1
	2-40x	BA709841	P.C Board Comp. CSA		
	6424 - 200 - 100 -		AP-001/C	R-030226	1
	2-41 x	BA709852	P.C Board Comp. CEE		
			(SEMKO)	R-030225	1
	2-42x	BA709863	P.C Board Comp. BSI		6 <b>7</b> 40
			AP-001/C	R-030228	1
	2-43	ET709874	Transistor 2SD198 (Q)	2211444000	1
	2-44	ET709885	Transistor 2SC1446 (Q)	2211444000	1
	2-45	ED709896			4
	2-46	EC709907		3756870000	
	2-47	EC709918		22370139900	1
		2010/10	ACT25V	2237014700A	1

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-48x	EC709920	Metalized/C. $0.047\mu$ F		
		2233011400	1	
2-49	EF711966	Fuse 1A 250V	2214422400	1
2-50x	EF709931	Fuse 0.5A(T)	2214419200	1
2-51 x	EJ709942	Fuse Holder AP-001/C	2216504700	2
2-52	ES712078	Seesaw SW.	2214649400	1
2-53x	ZW709953	Nut 3M (AP-001/C)		1
2-54x	ZW709964	Spring Washer 3M Small		
		AP-001/C		1
2-55x	ZW709975	Spring Washer 3M Large		
		AP-001/C		1
2-56	EW711955	AC Cord 2.5M UL	2217619900	1
2-57x	EW711990	AC Cord 2.5M 3 Core, SAA	2217705100	1
2-58x	EW709986	AC Cord KMA AP-001/C	2217652400	1
2-59x	EW709997	AC Cord BSI AP-001/C	2217706900	1
2-60x	EW710065	AC Cord CEE (SEMKO)		
		AP-001/C	2217652500	1
2-61 x	EW710741	AC Cord AST	2217653100	1

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#### 3. PHOTO OF CABINET BLOCK



#### 3) CABINET BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
3-1	BC709007	Cabinet AP-001	208477510	1
3-2x	BC709121	Cabinet AP-001C	208477690)	1
3-3	TP719853	Hinge A AP-003	208616870)	2
3-4x	ZS711808	Tapping Screw, pan head		
		30×10		6
3-5	BC709233	Dust Cover Block Comp.		
		AP-001/C	208478210	1
3-6	TP719897	Hinge B AP-003	208616880	2
3-7	ZS712214	Screw, oval countersunk		
		head 40×10		4
3-8	SP709244	Bottom Case AP-001/C	208466110	1
3-9x	SA718762	Foot (Rubber) AP-003	228745120	4
3-10x	TP709266	Lock Plate AP-001/C	207546020	3
3-11x	ZS718637	Screw (Special), w/washer		
		4×12	207959270	3
3-12x	TP720246	Vinyl Sheet	209436780	3



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Parts No.	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref. No.	Parts No.	Ref. No.
BA709828 BA709830 BA709841 BA709852 BA709863 BC709007 BC709121 BC709233 BD709582 BL709536	2-38 2-39x 2-40x 2-41x 2-42x 3-1 3-2x 3-5 2-22 1-30	TP720314 ZG709132 ZG709143 ZG709154 ZG709165 ZG709470 ZG709571 ZG718918 ZS711808 ZS712135	2-6 2-1 2-2 2-3 2-4 1-17x 2-18 2-13 3-4x 2-5	1					
BL719381 BM709356 BT709751 BT709762 BT709773 BT709784 BZ709312 BZ709323 BZ709481 BZ709547	1-15 1-6 2-29 2-30x 2-31x 2-31x 2-12 1-3 1-19 1-32	ZS712214 ZS712225 ZS712372 ZS712653 ZS712765 ZS715228 ZS715228 ZS715230 ZS715241 ZS718637 ZS720281	3-7 2-14 1-21x 1-22x 1-28 2-20 2-23 2-27 3-11x 2-8						
EC709907 EC709918 EC709920 ED709896 EF709931 EF711966 EJ709593 EJ709593 EJ7095942 ES709806 ES709817	2-46 2-47x 2-48x 2-45 2-50x 2-49 2-24 2-51x 1-34x 1-35x	ZW709953 ZW709964 ZW709975 ZW712236 ZW712361 ZW712697 ZW713586 ZW719043	2-53x 2-54x 2-55x 1-13 1-18x 1-27 2-19 1-26						
ES711786 ES712078 ES718648 ET709874 ET709885 EW709986 EW709986 EW709997 EW710065 EW710741	2-21 2-52 1-33 2-43 2-44 2-25x 2-58x 2-59x 2-60x 2-61x								
EW711955 EW711990 MB709391 MB718885 MB719008 MR709402 MR709413 MS709424 MS709425 MS709468	2-56 2-57x 1-7 2-28 1-5 1-8 1-9x 1-10 1-11 1-16	×							
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TP712012 TP719594 TP719853 TP719897 TP720246 TP720257 TP720268 TP720270 TP720292 TP720303	2-36x 1-20 3-3 3-6 3-12x 1-2 2-7 2-9 2-10 2-11					easy			



