

## Core Product Description

# ZAP

## GSM900/1800 Stages I, II and III

### Project Nos.

**Flipped ZAP**

**A74-01**

**Flipless ZAP**

**A74-02**

Issue 8.0

Note: This document is also available on Lotus Notes at the following location:

- EMEA Product Description
- ZAP version 8.0
- Section 8. Appendix
- ZAP PD v8.0.doc (An MS Word Attachment)

**Dominic Strowbridge**

**October 12, 1998**

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## REVISION HISTORY

<u>Version</u>	<u>Date</u>	<u>Name</u>	<u>Reason</u>
Issue 1.2	24 Jul 97	Pete Thompson	Latest release of 'Flip' ZAP Product Description.
Issue 1.0	28 Jul 97	Pete Thompson	Initial release of 'Flat' ZAP Product Description.
Issue 2.0	05 Sept 97	Dominic Strowbridge	First release of combined Flipped and Flipless ZAP Product Description, for limited distribution only.
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Issue 4.0	10 Dec 97	Dominic Strowbridge	Third main release: main changes documented in previous versions.
Issue 5.0	22 Jan 98	Dominic Strowbridge	Fourth main release: main changes documented in previous versions.
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Issue 6.1	19 Mar 98	Dominic Strowbridge	Change Magix Grey to 'H2' suffix; update Appendix 3. Delete 20k flipless forecast for May.
Issue 7.0	15 May 98	Dominic Strowbridge	Main changes include: <ul style="list-style-type: none"> <li>• Definition of Stage I in Europe to SIM Application Toolkit</li> <li>• Definition of Stage II in Europe to include non-EFR</li> <li>• Update competitive information</li> <li>• Include possibility of using 'Optimax' trademark</li> <li>• Move refresh ZAP details to the introduction only</li> <li>• Add painted Flipless ZAP housings to the requirements</li> <li>• Correct keypad finish</li> <li>• Correct introduction timescale for Retractable Antenna</li> <li>• Change battery names and correct volumes/capacities/weights</li> <li>• Move Financial section to separate document and update</li> <li>• Add details of flexing scheme for Non-EFR models</li> <li>• Add model numbers for European Operator models</li> <li>• Add transceiver and box part numbers to model structures</li> <li>• Change UK plug to new version that passes BSI</li> <li>• Remove French manual from Gulf States package</li> <li>• Add Service Transceiver model numbers</li> <li>• Add matrix of Service Kit numbers for each package</li> <li>• Add EANs for main packages</li> <li>• Correct Type Approval date</li> <li>• Correct Accessory Part Numbers</li> </ul>
Issue 8.0	24 June 98	Dominic Strowbridge	Main changes include: <ul style="list-style-type: none"> <li>• revision to ZAP Refresh plan</li> <li>• update on key competitors</li> <li>• confirm use of 'Optimax™' for holographic display</li> <li>• add dimensions for each battery configuration</li> <li>• simplify 'A' and 'B' suffix convention to cover all models</li> <li>• add core model numbers with PHFA</li> <li>• add Connect Austria; remove Telecel, FT and SFR</li> <li>• change standard battery from SNN5090 to SNN5360</li> <li>• add different colour transceivers and battery doors</li> <li>• add English, French &amp; Arabic manuals to MidEast packages</li> <li>• add Invalid Battery leaflets to Service Packs</li> <li>• add TAC, FAC and Serial number information</li> </ul>

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- update accessory table; add POS package part numbers

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# 1. INTRODUCTION

This product description covers the worldwide requirements for the GSM900/1800 ZAP family of products, including performance and features. However, only the core Motorola models for European markets are described in detail. Operator specific models required for European channels and models for the Asian markets will be described in separate ‘variant’ product descriptions issued by the appropriate groups.

A minor update of the ZAP product will be required in August 1998, to support the VIAG Home Zone feature for a new operator in Germany. This update will not require worldwide field testing. A separate product description will be issued for this product.

A ZAP Refresh product has been defined for launch in September ‘98 (Stages IV and V), when the following key changes will be added:

- MMI Enhancements to SMS
- SIM Application Toolkit upgraded to full Class II
- Tri-Rate Codec (Full Rate, EFR and Half Rate)

A separate product description has been issued for the refreshed product.

A further refresh of the product may be made in Q1-99, to include the Whitecap chipset; adding features such as internal data and enhanced performance.

The following programmes make use of ZAP family plastics and technology, and therefore must be included when considering the positioning of the ZAP products:

- N-AMPS ZAPPER
- CDMA ZAP

## 1.1 Product Strategy

The ZAP products will replace the 8000 series and Slimlite products, in the mid tier of the market. Product introduction is due in Q2-98, and will take place in three main stages:

ZAP Launch Stages	EUROPE	ASIA
Stage I: No EFR, black flipped variant only	Test markets in South Africa and Switzerland  Limited launch in Nordic markets for June only	Test market in Hong Kong;  Launch with Asian SMS and Chinese languages in Asian markets
Stage II: Fully featured flipped variant	Full launch in Europe	Will NOT ship in Asia
Stage III: Fully featured flipless variant	Full launch in Europe	Full launch in Asia with Asian SMS and Chinese languages

The decision to launch a non-EFR Stage I product in some European markets has been taken due to the continued slip of the full Stage II product. However, no distinction will be

made in the market between the non-EFR and EFR versions; only the model number will be upsuffixed to mark this change. It is envisaged that the non-EFR version will only ship for approximately one month before the EFR version is freely available.

Key competitors are listed below. See Appendix A5 for more details.

- Ericsson sh888, now shipping
- Nokia 6150, due end Q3-98
- Siemens S15, due end Q2-98
- Bosch Dual-Com 738, now shipping
- Mitsubishi MT-D30, due to launch in Q2-98
- NEC G10, due end Q3-98; and DB2000 also now due in Q3-98
- Nortel/AEG 2785, due in Q3-98

As more manufacturers move over to dual-band designs, single-band products will become less significant as competitors.

ZAP will be differentiated from the key competitors by the following key advantages:

- Ergonomically designed for comfortable handling
- Large, Optimax™ high contrast display
- VibraCall™ vibrating alert as standard
- 3 minute VoiceNote™ message recording feature
- Dual-Band technology; the quality capacity solution

## **1.2 Target Markets**

ZAP will be positioned as a feature loaded product, aimed at power users. In particular, the Focused and Balanced Business user segments will be targeted.

## **1.3 Distribution Strategy**

The ZAP product family gives Motorola the possibility of regaining market share in the mid tier. Both flipped and flat variants of the product will be available, in 3 different coloured plastics. The distribution strategy will be evolved over the next few months to take advantage of all the opportunities this variety can support. As deals are negotiated with the channels, any issues concerning exclusivity in a market will be noted here.

No single band variant of ZAP will be offered, in order to reinforce the Dual-Band 'Quality Capacity Solution' message.

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## 2. PRODUCT DESCRIPTION

### 2.1 Physical Characteristics

#### 2.1.1 Size Goals

The size goal for ZAP is 139cc in the standard configuration. Dimension goals for the standard configuration are 130 x 55 x 27 mm.

#### 2.1.2 Housing

ZAP will utilise a completely new front and back housing. Based on survey data and field feedback, the housing is rounded and emphasises simplicity. Two designs will be used: the first design to launch will incorporate a flip; the second will be flipless. The flipless version will differ slightly besides the flip, including a rounded lens. The flipless version will be launched no later than 12 weeks after the flipped version.

- **Main housings:**

The main housings will incorporate three buttons on the left side, functioning as up and down volume, plus a smart key (similar to StarTAC™). On the right side, a dedicated voice memo record button will be located. The ear piece should give maximum benefit to the dynamic speaker, and the asymmetry of the microphone should be disguised with styling marks. A ridge should be incorporated around the power button, to prevent accidental operation. If blind user location markers can not be incorporated into the keypad design, they should be included around the '5' key.

The rear housing will be cut away at the bottom to utilise a battery door concept. An alert port will be located near the top of the back housing.

- **Battery door:**

Three doors will be required: a slim door will house the Weight Leadership, AAA Long and LGQ8 batteries; a slightly larger door will cover the AA batteries; and the largest door will house the Performance Leadership battery. The doors will be completely removeable and have the same colour and texture as the main housings.

- **Escutcheons:**

3 different escutcheons will be required for the ZAP family: all designs will take a rear escutcheon, designed to give more exposure to the Motorola Brand and also to cover two assembly screws on the back housing; the flipped variant will take an escutcheon on the flip; and the flipless variant will take an escutcheon at the base of the front face. The back escutcheon will be fitted in the Factory; front escutcheons will be assembled in Distribution. See Appendix A2 for details of escutcheon colours.

- **Colours:**

ZAP products will be available in three different colours from Stages II and III. These are: Black; Magix Grey; and Ten Pin Blue. The following parts will be changed according to colour: the front and back housings; the battery door; escutcheons and lens. Keypads will not vary. No other parts will be affected.

Special editions of the Flipless ZAP will be created using painting techniques (for

example, the metallic blue used at CeBIT). A range of specials are required for August 1998. Keypad, Lens and Escutcheons may be changed to compliment these new colours.

- **Texture:**

Front, back and battery door will be finished with a textured surface that feels 'silky' to the touch. The finish will be VDI27. This should de-emphasise the appearance of smudges and facial oil.

### 2.1.3 Display

The display will consist of a 96 x 32 pixel LCD module, with full graphics support and icons. Utilising the same pixel density of both StarTAC™ and 8700, the display size will be slightly smaller, measuring 34 x 23 mm. The display icons will be arranged in two rows, located at the top of the display, to allow the integration of soft prompts at the bottom of the display when WAP is introduced.

**Top Row:** Signal strength indicator, Real-time clock, Battery charge indicator

**Bottom Row:** Off-hook, Roam, Home Zone, Voicemail, SMS, Ringer On

Note: 'Ringer On' is a new feature, not offered in previous products.

### 2.1.4 Lens

The different lenses for Flipped and Flipless ZAP will be curved to follow the contours of their front housings. Motorola branding will be positioned at the top of the lenses in stark white. The lenses will have glossy finishes, and be the same colours as the main housings. However, the finish should minimise glare. The borders around the displays must be minimised, but should not allow any gasket material to show through. A Holographic effect will be applied to the lenses of the models in Stages II and III of the product launch.

### 2.1.5 Keypad

The flipped ZAP keypad will consist of 18 keys; the flipless ZAP keypad will consist of 17 keys, as the scroll up and down keys will be incorporated into one rocker key. The flipped ZAP keypad will have hard keys; the flipless ZAP keypad will be made of rubber with a clear encapsulated, non-glare top (this will blend with the larger lens area of the flipless design). See below for keypad layout.

Cancel	Scroll up Menu	Scroll down Menu	OK
1	2 ABC	3 DEF	
4 GHI	5 JKL	6 MNO	
7 PQRS	8 TUV	9 WXYZ	
Scroll left *	0 +	# Scroll right	
Power		Quick Access	

Spacing of keys must be maximised, as per form factor survey results. Tactile response should also be maximised. Key colours will be:

- Background: Black for all keys (Pantone 6C)
- Digits, alphas, Menu, Quick Access, scroll icons: White (Pantone 427C)
- Cancel and power icon: Red (Pantone 485C)
- OK: Green (Pantone 347C)

Side buttons will all be black in colour.

### **2.1.6 LED Indicators**

A status LED indicator will be positioned at the top left of the phone, towards the front. This indicator will have the same functionality as on the StarTAC™.

### **2.1.7 Connectors**

ZAP will use the same connector for battery charging, RF output and connection to peripherals as on the StarTAC™.

### **2.1.8 SIM Card**

ZAP will utilise a small SIM card size. The SIM will be positioned in the back housing, under the battery. A sliding, flip-up door configuration will be used to allow for easy insertion and removal.

### **2.1.9 Antenna**

The antenna will support both 900 and 1800 MHz frequencies. ZAP will ship with a fixed, black antenna. As soon after launch as possible, a retractable antenna accessory will be developed; from that point, all new units will be capable of being retro-fitted with the retractable antenna.

## **2.2 Performance Characteristics**

### **2.2.1 Radio Performance**

The following targets should be met for free space radio performance of the ZAP platform:

Retractable antenna up:	better than 8700 antenna up
Retractable antenna down:	better than 8700 antenna down
Fixed antenna:	better than 8700 antenna up

### **2.2.2 Battery Performance**

Below are estimates for talk and standby times for the ZAP platform. These figures must be verified by Engineering before promotional material is published.

Priority for battery production is:

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1. LGQ8 for Stage I launch
2. AAA Long for Stages II and III, with 500 units of other types also available
3. All other batteries available within 3 months of Stage II and III launches

Volume (cc)	Weight (gr)	Dimensions (mm)	Talk Time* (mins)	Standby Time* (hours)	with Battery
139	98	-	-	-	Transceiver only
139	120	130 x 55 x 27	60 - 90	30 - 40	Weight Leadership Li Ion (400 mAh)
139	147	130 x 55 x 27	150 - 180	60 - 80	AAA Long NiMH (650 mAh)
139	145	130 x 55 x 27	210 - 270	90 - 105	LGQ8 Li Ion (1000 mAh)
160	185	130 x 55 x 32	210 - 270	90 - 120	AA NiMH (1100 mAh)
189	230	130 x 55 x 43	480 - 600	200 - 250	Performance Leadership Li Ion (2800 mAh)
160	N/A**	130 x 55 x 32	N/A**	N/A**	2 x AA Alkaline

\* All battery performance times are approximate and will vary depending on network configuration, band and status, and the functions selected. Times are quoted as a range from DRX=2 to DRX=9. Support of DTX mode is dependent on network support and may not be available in all areas.

\*\* Because of the wide variation of talk and standby times with different alkaline batteries, these will be promoted for 'emergency use only'.

### 2.2.3 Battery Charge Times

Maximum acceptable charge times are shown below.

Battery	Charge time with E.P. Standard Travel Charger to 90% charge	Charge time with E.P. Desktop Charger to 90% charge
Weight Leadership Li Ion (400 mAh)	120 minutes	120 minutes
AAA Long NiMH (650 mAh)	60 minutes	60 minutes
LGQ8 Li Ion (1000 mAh)	180 minutes	180 minutes
AA NiMH (1100 mAh)	90 minutes	90 minutes
Performance Leadership Li Ion (2800 mAh)	240 minutes	240 minutes

### 2.2.4 Compatible Battery Technology

ZAP will be the first product on a 3.6 volt platform to use label-wrapped batteries. Battery security will only allow Motorola batteries to be charged.

### 2.2.5 Data Compatibility

The Band-Aware will support 9600 baud data and fax rates in conjunction with a compatible PC card (eg CELlect 1+, 2 or 3) or the Smart CELlect™ data cable.

### 3. TIMING, DEMAND AND FINANCIAL TARGETS

#### 3.1 Introduction

The Stage I Flipped ZAP product was ship accepted on 12th June 1998. In Europe, this variant was shipped to South Africa and Switzerland for intial trials and fully launched in a limited number of markets. In Asia, the Asian languages and Asian SMS will be added and the product shipped until Stage III is available. This initial product will only be available in Black.

The Stage II fully featured Flipped ZAP product will be shown at CeBIT during March and ship accepted at the end of June. This will be available in all three colours.

The Stage III Flipless ZAP product will be ship accepted within 8 weeks of Stage II. However, it will be available in all three colours for presentation at CeBIT.

See separate Business Case Product Description for Forecasts and Financial Targets.

#### 3.2 Expected Lifetime

The ZAP platform is expected to ship into the market until the end of Q2-99. Refreshed versions of the product may be introduced through the product lifecycle.

### 4. SOFTWARE AND MMI DESCRIPTION

ZAP will use the Personality™ II interface. It will take the complete feature set of the International 8900 (after the first maintenance release of software, which includes IP-Phonebook and Call Transfer), plus the features listed below. Note definitions of feature priorities below:

- 1 Features that are not negotiable; they are essential parts of the proposition for this new product. The launch will be delayed until these features are ready.
- 2 Important usability or operator requested features. Significant sales volumes will be lost if these features are not included.
- 3 Other features requested by the field.

Tracking Number	Description	Status for Stage I launch	Status for Stages II & III	Priority
n/a	Combined Menu and Scroll keys	Committed		1
n/a	LED status indicator flex control	Committed		1
0198	Headset answer on/off support	Committed		1
0165	Stop Call Alert with Volume keys	Committed		1
0131	Delayed Power On and Off flex control	Committed		1
n/a	Smart Connect		Committed	1
n/a	Ability to flex as single-band GSM900 or GSM1800	Committed		1
0112	Ringer-On display icon	Committed		1
n/a	Real Time Clock and Date	Committed		1
0198	Smart Key (place/answer calls with Smart Key)	Committed		1
n/a	Invalid battery feature	Committed		1
0165	Alert Muting feature	Committed		1
0067	Voice Note support	Committed		1
n/a	Asian SMS	Committed (Asia only)		1
n/a	Support for SmartCELlect cable modem		Committed	1
0057	EFR / FR Codec support		Committed	1
0039	SIM Tool Kit 1+		Committed	1
0157	6 x SIM interface		Committed	1

Tracking Number	Description	Status for Stage I launch	Status for Stages II & III	Priority
0158	SIM Lock modifications	Committed		2
0021	Service Dialling Numbers	Committed		2
0185	16k SIM		Not Committed	2
0187	Delayed Answer		Not Committed	2
0022	CPHS version 3.2		Not Committed	2
0174	Keypad Lock prevents power off		Not Committed	2
0115	'Delete All Messages' menu and Quick Access item		Not Committed	2
0135	'Show Date' Quick Access item		Not Committed	2
0190	'Credit Remaining' Quick Access item or key		Not Committed	2
0167	SIM Copy (GCSA implementation)		Not Committed	2
0038	Closed User Group (CUG)		Not Committed	2
0023	SMS-MO Reply to SMS-MT		Not Committed	2
0128	Local Languages - Extended Latin		Not Committed	2
0196	Local Languages - Cyrillic		Not Committed	2



Tracking Number	Description	Status for Stage I launch	Status for Stages II & III	Priority
0139	Unique Ringer Tone	Committed		3
0143	SMS Status Report		Not Committed	3
0053	Multipage SMS		Not Committed	3
0014	Phonebook access for Call Divert and SMS		Not Committed	3
0051	Interchangeable language sets - Latin		Not Committed	3
0197	Interchangeable language sets - Cyrillic		Not Committed	3
0020	Quick Access Location Finder		Not Committed	3
0075	Distinguish answered & missed last calls		Not Committed	3
0155	Additional SIM AND locations (over 155 limit)		Not Committed	3
n/a	'Find New Network' Quick Access item		Not Committed	3
0015	Alarms / Scheduler		Not Committed	3
0072	Teleservice 89: Multiple Line Service for GSM		Not Committed	3

Software builds for the Asian and European models will initially be separate. However, the aim is to combine the core feature set builds, with Asian specific features being added afterwards. When this integration is achieved the only differences between the two feature sets will be as follows:

	European Models	Asian Models
<b>Languages</b>	Full European Language set	Full European Language set PLUS Simplified Chinese Complex Chinese Thai Vietnamese with tonal marks Bahasa - Indonesian
<b>Additional Features</b>	- none -	All Asian SMS Chinese Date Format Chinese PLMN and Incountry PLMN Roaming Support for two bitmaps: 15x15 and 15x16

### Flexing

Note that to cope with the release of both non-EFR and EFR versions of the product in Europe the following conventions will be used. 'A' suffix flexes will support non-EFR models ONLY. eg

- SE0006A???? - Motorola Flipless ZAP - Non-EFR
- SE0007A???? - Motorola Flipped ZAP - Non-EFR
- SE0012A???? - Motorola Flipped ZAP - Non-EFR, w/CPHS
- SE0013A???? - Motorola Flipless ZAP - Non-EFR, w/CPHS

'B' suffix flexes will support EFR models ONLY. eg

- SE0006B???? - Motorola Flipless ZAP - EFR
- SE0007B???? - Motorola Flipped ZAP - EFR
- SE0012B???? - Motorola Flipped ZAP - EFR, w/CPHS

- SE0013B???? - Motorola Flipless ZAP - EFR, w/CPHS

## 5. MODELS/VERSIONS

### 5.1 New Core Sales Models

Model Number	Brand	Description
SE0005AB1xx	Motorola	STAGE I FLIPPED ZAP FOR TEST MKTS
SE0007AB1xx	Motorola	STAGE I FLIPPED ZAP
SE0012AB1xx	Motorola	STAGE I FLIPPED ZAP W/CPHS
SE0007Bccxx	Motorola	STAGE II FLIPPED ZAP
SE0012Bccxx	Motorola	STAGE II FLIPPED ZAP W/CPHS
SE0006Bccxx	Motorola	STAGE III FLIPLess ZAP
SE0013Bccxx	Motorola	STAGE III FLIPLess ZAP W/CPHS

Note: xx = language; cc = colour (B1 is Black; X1 is Ten Pin Blue; H2 is Magix Grey)

### 5.2 Other New Sales Models

The models listed below are described in separate variant product descriptions.

Model Number	Region Responsible for PD	Short Description	Unique Items vs Core
S7940ABW	Asia	Stage I ZAP for China	Transceiver Escutcheon Manual Flex
S7941ABX	Asia	Stage I ZAP for Taiwan	Transceiver Escutcheon Manual Flex
S7942ABX	Asia	Stage I ZAP for Hong Kong / Macau	Transceiver Escutcheon Manual Flex
S7943ABB	Asia	Stage I ZAP for S. Asia (Euro Plug)	Transceiver Escutcheon Manual Flex

S7944ABB	Asia	Stage I ZAP for S. Asia (Xcvr only)	Transceiver Escutcheon Manual Flex
S7945ABB	Asia	Stage I ZAP for S. Asia (US Plug)	Transceiver Escutcheon Manual Flex
S7946ABB	Asia	Stage I ZAP for Australia/NZ	Transceiver Escutcheon Flex
S7979ABB	Asia	Stage I ZAP for S. Asia (Delux Euro)	Transceiver Escutcheon Flex
S7980ABB	Asia	Stage I ZAP for S. Asia (Delux US)	Transceiver Escutcheon Flex
S7981ABZ	Asia	Stage I ZAP w/ S. Asia Languages	Transceiver Escutcheon Flex
SE0287vccxxx	Europe	Stage I (v=A) or Stage II (v=B) ZAP with PHFA	Add PHFA to std package
SE0288Bccxxx	Europe	Stage III ZAP with PHFA	Add PHFA to std package
SE0166BB1H2	Europe	Stage II ZAP for TIM	Escutcheon Manual Box, Flex
SE0160BB1H3	Europe	Stage II ZAP for Omnitel	Escutcheon Flex
SE0167BB1H4	Europe	Stage II ZAP for Wind	Escutcheon Flex
SE0161BH2B3	Europe	Stage II ZAP for Orange	Escutcheon Box, Flex
SE0162BB1B7	Europe	Stage II ZAP for One2One	Escutcheon Box, Manual Flex
SE0164BB1G4	Europe	Stage II ZAP for Cosmote	Escutcheon Flex
SE0282AB1F9	Europe	Stage I ZAP for Connect	Flex only
SE0165AB1A5	Europe	Stage I ZAP for Mobilix	Flex only

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SE0151BB1F5	Europe	Stage III ZAP for E-Plus	Escutcheon Flex
SE0152BB1F8	Europe	Stage III ZAP for Viag Interkom	Escutcheon Flex
SE0168BB1L2	Europe	Stage II ZAP for Movistar	Flex only
SE0169BB1L3	Europe	Stage II ZAP for AirTel	Flex only
SE0170BB1K2	Europe	Stage II ZAP for TMN	Flex only
SE0147BB1K4	Europe	Stage III ZAP for Optimus	Escutcheon Flex
SE0172BB1E2	Europe	Stage II ZAP for Bouygues	Escutcheon Flex

### 5.3 New Sales Model Structures

Model	Transceiver	Manual	Accessories	Other
<b>Stage I Flipped ZAP SE0005AB1xx and SE0007AB1xx and SE0012AB1xx</b>	<b>Kit:</b> SUG1137 Rear escutcheon: See Appendix 3	<b>Kit:</b> See below <b>Manual:</b> See Table 1 below <b>Literature Kit:</b> See Table 2 below	Battery (LGQ8): SNN5360 Battery Door (AAA): SHN6617 - Black Universal Charger: SPN4278 Plug: See Table 1 below	Holster (Plastic): SHN6851 Generic Art Box: 5603929K01 Blue Pulp insert: 5603930K01 Flip Escutcheon: See Appendix 2
<b>Stage II Flipped ZAP SE0007Bccxx and SE0012Bccxx</b>	<b>Kit:</b> SUG1165 - Black or SUG1162 - Grey or SUG1192 - Blue Rear escutcheon: See Appendix 3	<b>Kit:</b> See below <b>Manual:</b> See Table 1 below <b>Literature Kit:</b> See Table 2 below	Battery (LGQ8): SNN5360 Battery Door (AAA): SHN6617 - Black or SHN6825 - Grey or SHN6943 - Blue Universal Charger: SPN4278 Plug: See Table 1 below	Holster (Plastic): SHN6851 ZAP WINGS Box: 5602702Z14 Blue Pulp insert: 5603930K01 Flip Escutcheon: See Appendix 2
<b>Stage III Flipless ZAP SE0006Bccxx and SE0013Bccxx</b>	<b>Kit:</b> SUG1159 - Black or SUG1173 - Grey or SUG1172 - Blue Rear escutcheon: See Appendix 3	<b>Kit:</b> See below <b>Manual:</b> See Table 1 below <b>Literature Kit:</b> See Table 2 below	Battery (LGQ8): SNN5360 Battery Door (AAA): SHN6617 - Black or SHN6825 - Grey or SHN6943 - Blue Universal Charger: SPN4278 Plug: See Table 1 below	Holster (Plastic): SHN6851 ZAP WINGS Box: 5602702Z14 Blue Pulp insert: 5603930K01 Front Escutcheon: See Appendix 2

Note: SE0012 differs to SE0007 only by the flex; as does SE0013 to SE0006.

### 5.4 European Model, Charger Plug and Manual Requirements

Manuals will be single colour, single language, A6, POD configuration. Table 1. below shows all relevant part numbers. A separate 'Literature Kit' will be structured to take additional leaflets, an Accessories Brochure, Sales Promotions and special Warranty cards. Table 2. shows all relevant part numbers. Where no items are listed in the Literature Kit, the pack does not need to be included; if Accessory leaflets are not available at time of launch, product may still ship.

Table 1. Chargers and Manuals			Charger Plug	Manual		Priority	Market or Language
Stage I Flipped ZAP	Stage II Flipped ZAP	Stage III Flipless ZAP		Kit Number	Part Number		
SE0007AB1A1	SE0007BccA1 SE0012BccA1	SE0006BccA1 SE0013BccA1	SYN4655	SJN7598A	6809402A62	3	Danish
SE0005AB1B1 SE0007AB1B1	SE0007BccB1 SE0012BccB1	SE0006BccB1 SE0013BccB1	SYN6718 or SYN4656	SJN7609A	6809402A74	1	English (UK)
SE0007AB1C1	SE0007BccC1	SE0006BccC1	SYN4655	SJN7599A	6809402A63	3	Finnish

	SE0007BccD1	SE0006BccD1	SYN4655	SJN7602A	6809402A66	4	Dutch
	SE0007BccE1 SE0012BccE1	SE0006BccE1 SE0013BccE1	SYN4655	SJN7604A	6809402A68	2	French
SE0007AB1F1	SE0007BccF1	SE0006BccF1	SYN4655	SJN7608A	6809402A73	2	German
	SE0007BccG1	SE0006BccG1	SYN4655	SJN7600A	6809402A64	4	Greek
	SE0007BccH1	SE0006BccH1	SYN4655	SJN7607A	6809402A72	2	Italian
SE0007AB1J1	SE0007BccJ1	SE0006BccJ1	SYN4655	SJN7597A	6809402A61	3	Norwegian
	SE0007BccK1	SE0006BccK1	SYN4655	SJN7601A	6809402A65	4	Portuguese
	SE0007BccL1	SE0006BccL1	SYN4655	SJN7603A	6809402A67	4	Spanish
SE0007AB1M1	SE0007BccM1	SE0006BccM1	SYN4655	SJN7606A	6809402A71	3	Swedish
	SE0007BccN1	SE0006BccN1	SYN4655	SJN7602A & SJN7604A	-	-	Belgium Package
SE0005AB1P1	SE0007BccP1	SE0006BccP1	SYN4655	SJN7604A, SJN7607A & SJN7608A	-	-	Swiss Package
	SE0007BccQ1	SE0006BccQ1	SYN4655	SJN7595A	6809402A59	5	Turkish
	SE0007BccR1	SE0006BccR1	SYN4655	SJN7596A	6809402A60	5	Hungarian
	SE0007BccS1	SE0006BccS1	SYN4655	SJN7572A	6809402A56	5	Slovakian
	other models	other models	n/a	SJN7610A	6809402A75	2	Arabic
	SE0007BccT1	SE0006BccT1	SYN4655	SJN7604A SJN7609A & SJN7610A	-	-	North Africa Package
SE0007AB1U1	SE0007BccU1	SE0006BccU1	SYN4655	SJN7593A	6809402A57	5	Russian
SE0007AB1V1	SE0007BccV1	SE0006BccV1	SYN4655	SJN7792A	6809408A62	5	Lithuanian
	SE0007BccW1	SE0006BccW1	SYN4655	SJN7571A	6809402A55	5	Polish
	SE0007BccY1	SE0006BccY1	SYN4655	SJN7793A	6809408A63	5	Czech
	SE0007BccZ1	SE0006BccZ1	SYN4655	none	none	-	No language
SE0005AB1B2	SE0007BccB2	SE0006BccB2	SYN4655	SJN7609A	6809402A74	1	English for South Africa
	SE0007BccC2	SE0006BccC2	SYN4655	SJN8173A	6909413A02	5	Croatian
	SE0007BccF2	SE0006BccF2	SYN4655	SJN7608A	6809402A73	2	German for Austria
	SE0007BccG2	SE0006BccG2	SYN6718 or SYN4656	SJN7600A	6809402A64	5	Cyprus
	SE0007BccP2	SE0006BccP2	SYN4655	SJN8174A	6909413A03	5	Romanian
	SE0007BccS2	SE0006BccS2	SYN4655	SJN8175A	6909413A04	5	Slovenian
	SE0007BccT2	SE0006BccT2	SYN6718 or SYN4656	SJN7604A SJN7609A & SJN7610A		-	Gulf States Package
	SE0007BccU2	SE0006BccU2	SYN4655	SJN8176A	6909413A05	5	Ukrainian
	SE0007BccX2	SE0006BccX2	SYN4655	SJN8180A	6909413A09	5	Israeli
	SE0007BccZ2	SE0006BccZ2	SYN6718 or SYN4656	none	none	-	No language
	SE0007BccA3	SE0006BccA3	SYN4655	SJN8177A	6909413A06	5	Latvian
	SE0007BccC3	SE0006BccC3	SYN4655	SJN8178A	6909413A07	5	Estonian

	SE0007BccA4	SE0006BccA4	SYN4655	SJN8179A	6909413A08	5	Bulgarian
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Table 2: Literature Kits			Kit Number	Market	Kit Contents
Stage I Flipped ZAP	Stage II Flipped ZAP	Stage III Flipless ZAP			
SE0007AB1A1	SE0007BccA1 SE0012BccA1	SE0006BccA1 SE0013BccA1	SJN8356AA	Denmark	Accessory Leaflet - 68P09414A66 Invalid Battery - 68P09415A29
SE0007AB1B1	SE0007BccB1 SE0012BccB1	SE0006BccB1 SE0013BccB1	SJN8356AB	UK	Accessory Leaflet - 68P09414A67 Registration Card - 68P09408A20 Invalid Battery - 68P09415A30
SE0007AB1C1	SE0007BccC1	SE0006BccC1	SJN8356AC	Finland	Accessory Leaflet - 68P09414A68 Invalid Battery - 68P09415A31
	SE0007BccD1	SE0006BccD1	SJN8356AD	Netherlands	Accessory Leaflet - 68P09414A69 Registration Card - 68P09408A24 Invalid Battery - 68P09415A32
	SE0007BccE1 SE0012BccE1	SE0006BccE1 SE0013BccE1	SJN8356AE	France	Accessory Leaflet - 68P09414A70 Registration Card - 68P09408A21 Invalid Battery - 68P09415A33
SE0007AB1F1	SE0007BccF1	SE0006BccF1	SJN8356AF	Germany	Accessory Leaflet - 68P09414A71 Registration Card - 68P09408A22 24 Hour Service - 68P09405A07 Invalid Battery - 68P09415A34
	SE0007BccG1	SE0006BccG1	SJN8356AG	Greece	Accessory Leaflet - 68P09414A72 Invalid Battery - 68P09415A35
	SE0007BccH1	SE0006BccH1	SJN8356AH	Italy	Accessory Leaflet - 68P09414A73 Invalid Battery - 68P09415A36
SE0007AB1J1	SE0007BccJ1	SE0006BccJ1	SJN8356AJ	Norway	Accessory Leaflet - 68P09414A74 Invalid Battery - 68P09415A37
	SE0007BccK1	SE0006BccK1	SJN8356AK	Portugal	Accessory Leaflet - 68P09414A75 Warranty Card - 68P09405A09 Invalid Battery - 68P09415A38
	SE0007BccL1	SE0006BccL1	SJN8356AL	Spain	Accessory Leaflet - 68P09414A76 Registration Card - 68P09408A23 Warranty Card - 68P09405A08 Invalid Battery - 68P09415A39
SE0007AB1M1	SE0007BccM1	SE0006BccM1	SJN8356AM	Sweden	Accessory Leaflet - 68P09414A77 Invalid Battery - 68P09415A40
	SE0007BccN1	SE0006BccN1	SJN8356AN	Belgium	Accessory Leaflet - 68P09414A78 Invalid Battery - 68P09415A32 Invalid Battery - 68P09415A33
SE0005AB1P1	SE0007BccP1	SE0006BccP1	SJN8356AP	Switzerland	Accessory Leaflet - 68P09414A79 Invalid Battery - 68P09415A33 Invalid Battery - 68P09415A34 Invalid Battery - 68P09415A36
	SE0007BccQ1	SE0006BccQ1	SJN8356AQ	Turkey	Accessory Leaflet - 68P09414A80 Invalid Battery - 68P09415A41
	SE0007BccR1	SE0006BccR1	SJN8356AR	Hungary	Accessory Leaflet - 68P09414A81 Invalid Battery - 68P09415A42
	SE0007BccS1	SE0006BccS1	SJN8356AS	Slovakia	Accessory Leaflet - 68P09414A82

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					Invalid Battery - 68P09415A43
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	Other models	Other models	SJN8356AT	Arab/Eng./French	Accessory Leaflet - 68P09414A83 Invalid Battery - 68P09415A44
	SE0007BccT1	SE0006BccT1	SJN8356AT	North Africa	Accessory Leaflet - 68P09414A83 Invalid Battery - 68P09415A30 Invalid Battery - 68P09415A33 Invalid Battery - 68P09415A44
SE0007AB1U1	SE0007BccU1	SE0006BccU1	SJN8356AU	Russia	Accessory Leaflet - 68P09414A84 Invalid Battery - 68P09415A45
SE0007AB1V1	SE0007BccV1	SE0006BccV1	SJN8356AV	Lithuania	Accessory Leaflet - 68P09414A85 Invalid Battery - 68P09415A46
	SE0007BccW1	SE0006BccW1	SJN8356AW	Poland	Accessory Leaflet - 68P09414A86 Invalid Battery - 68P09415A47
	SE0007BccY1	SE0006BccY1	SJN8356AX	Czech Republic	Accessory Leaflet - 68P09414A87 Invalid Battery - 68P09415A48
	SE0007BccZ1	SE0006BccZ1	none	Generic- Euro Plug	none
SE0005AB1B2	SE0007BccB2	SE0006BccB2	SJN8491AA	South Africa	Accessory Leaflet - 68P09414A67 Invalid Battery - 68P09415A30
	SE0007BccC2	SE0006BccC2	SJN8356AY	Croatia	Accessory Leaflet - 68P09414A88 Invalid Battery - 68P09415A52
	SE0007BccF2	SE0006BccF2	SJN8489AA	Austria	Accessory Leaflet - 68P09414A71 Registration Card - 68P09408A22 24 Hour Service - 68P09414A16 Invalid Battery - 68P09415A34
	SE0007BccG2	SE0006BccG2	SJN8356AZ	Cyprus	Accessory Leaflet - 68P09414A89 Invalid Battery - 68P09415A35
	SE0007BccP2	SE0006BccP2	SJN8490AA	Romania	Accessory Leaflet - 68P09414A90 Invalid Battery - 68P09415A51
	SE0007BccS2	SE0006BccS2	SJN8492AA	Slovenia	Accessory Leaflet - 68P09416A79 Invalid Battery - 68P09415A50
	SE0007BccT2	SE0006BccT2	SJN8493AA	Gulf States	Accessory Leaflet - 68P09414A83 Invalid Battery - 68P09415A30 Invalid Battery - 68P09415A33 Invalid Battery - 68P09415A44
	SE0007BccU2	SE0006BccU2	SJN8357AA	Ukraine	Accessory Leaflet - 68P09414A91 Invalid Battery - 68P09415A55
	SE0007BccX2	SE0006BccX2	SJN8357AB	Israel	Accessory Leaflet - 68P09414A92
	SE0007BccZ2	SE0006BccZ2	none	Generic- UK Plug	none
	SE0007BccA3	SE0006BccA3	SJN8357AC	Latvia	Accessory Leaflet - 68P09414A93 Invalid Battery - 68P09415A54
	SE0007BccC3	SE0006BccC3	SJN8357AD	Estonia	Accessory Leaflet - 68P09414A94 Invalid Battery - 68P09415A49
	SE0007BccA4	SE0006BccA4	SJN8357AE	Bulgaria	Accessory Leaflet - 68P09414A95 Invalid Battery - 68P09415A53

Note: Italian packages also require the following unique items added to their BOMS:

- 1 x Loyalty Card (68P09413A84)
- 2 x Security stickers (5402318T04)

## 5.5 Service Requirements

The following items are required for service:

- a Service Transceiver with IMEI, with no accessories / maunal /etc  
Part numbers are:  
Flipped ZAP (Stage I; Non EFR models): S8332A  
Flipped ZAP (Stage II; EFR models): S8323A  
Flipless ZAP (Stage III; EFR models): S8324A
- a spare Printed Circuit Board (PCB), fully phased and tested, with an IMEI.

## 6. PACKAGING/LABELLING REQUIREMENTS

### 6.1 Box sizes and packaging materials

Two one piece boxes will be developed for all ZAP packages worldwide.

The 'Standard ZAP' box will be capable of packing the following components:

- Flipped or Flipless Transceiver, face-up, at top of package
- Either a AAA Long NiMH or LGQ8 LiIon or AA NiMH battery
- Either AAA or AA battery door
- Leather or Plastic Holster
- Universal Travel Charger
- Headset Adapter and Earpiece accessory (PHFA kit)
- 1 plug (either UK, Euro, US, Aus/NZ or Indian)
- Up to 3 single language, A6 manuals
- Literature Kit

Outside dimensions of the standard pack (for sleeving purposes) are: 184 x 248 x 72mm.

The 'Extended ZAP' box will be capable of packing everything in Standard ZAP box, plus the following components:

- Either Desktop charger or Cigarette Lighter Adapter
- Either a AA NiMH or Performance Leadership LiIon battery (ie second battery)
- Either a AA or Triple Stacked battery door
- A second plug
- As an alternative to the three A6 manuals, two A5 could be an option for this box

All packaging materials should be environmentally friendly. The Pulp insert may be coloured Motorola blue.

**Artwork:** for Stage I, standard Motorola artwork will be used on the new packaging. For Stages II and III, new WINGS branded artwork has been defined.

### 6.2 Labels

Transceiver labels placed in the factory will include 'MOTOROLA' and 'Made in ....'.

Transceiver labels placed in Distribution will include the following information:

- ‘**Model:**’ plus model number
- ‘**Type:**’ plus Type name
- ‘**MSN:**’ plus MSN in human readable format
- ‘**IMEI:**’ plus IMEI in human readable format (with section spacers and check digit)
- IMEI in bar code 128 format
- ‘**CE0168X**’ in characters a minimum of 5mm in height

Space must be allowed for the code ‘**S/L**’ for SIM Locked models and for co-branding operator names of upto 10 letters.

European Box labels will include the following:

- ‘**Made in ....**’ in the header
- ‘**Motorola**’ plus product name (ie ‘**cd920**’ or ‘**cd930**’ in the header
- ‘**GSM900/1800**’ in the header
- ‘**CE**’ in the header
- Der Grüne Punkt mark in the header
- Sequence number in human readable and bar code (format 39)
- Model number in human readable and bar code (format 39)
- MSN in human readable and bar code (format 39)
- IMEI in human readable (with section spacers and check digit) and bar code (format 39)
- EAN in human readable and bar code
- T-Options in human readable and bar code

Space must be allowed for the OBO text.

NOTE: The presentation of IMEI will be the new Phase II format, which matches the IMEI is the display (ie with 15th check digit) in all human readable forms.

### 6.3 EANS

Black models will be defined for all countries; other colours will be defined as required.

Mkt/Colour	Stage I ZAP	EAN	Stage II ZAP	EAN	Stage III ZAP	EAN
Denmark: - Black - Blue - Grey - Black CPHS	SE0007AB1A1   SE0012AB1A1	50 25322 191620  50 25322 192 306	SE0007BB1A1  SE0012BB1A1	50 25322 191620  50 25322 192 306	SE0006BB1A1  SE0013BB1A1	50 25322 191 965  50 25322 192 351
UK: - Black  - Blue - Grey - Black CPHS	SE0005AB1B1/ SE0007AB1B1  SE0012AB1B1	50 25322 191 637  50 25322 192 313	SE0007BB1B1  SE0012BB1B1	50 25322 191 637  50 25322 192 313	SE0006BB1B1  SE0013BB1B1	50 25322 191 972  50 25322 192 368
Finland: - Black - Blue - Grey	SE0007AB1C1	50 25322 191 644	SE0007BB1C1	50 25322 191 644	SE0006BB1C1	50 25322 191 989
Netherlands: - Black - Blue - Grey			SE0007BB1D1	50 25322 191 651	SE0006BB1D1	50 25322 191 996
France: - Black - Blue			SE0007BB1E1	50 25322 191 668	SE0006BB1E1	50 25322 192 009

- Grey - Black CPHS			SE0012BB1E1	50 25322 192 320	SE0013BB1E1	50 25322 192 375
Germany: - Black - Blue - Grey	SE0007AB1F1	50 25322 191 675	SE0007BB1F1	50 25322 191 675	SE0006BB1F1	50 25322 192 016

Greece: - Black - Blue - Grey			SE0007BB1G1	50 25322 191 682	SE0006BB1G1	50 25322 192 023
Italy: - Black - Blue - Grey			SE0007BB1H1	50 25322 191 699	SE0006BB1H1	50 25322 192 030
Norway: - Black - Blue - Grey	SE0007AB1J1	50 25322 191 705	SE0007BB1J1	50 25322 191 705	SE0006BB1J1	50 25322 192 047
Portugal: - Black - Blue - Grey			SE0007BB1K1	50 25322 191 712	SE0006BB1K1	50 25322 192 054
Spain: - Black - Blue - Grey			SE0007BB1L1	50 25322 191 729	SE0006BB1L1	50 25322 192 061
Sweden: - Black - Blue - Grey	SE0007AB1M1	50 25322 191 736	SE0007BB1M1	50 25322 191 736	SE0006BB1M1	50 25322 192 078
Belgium: - Black - Blue - Grey			SE0007BB1N1	50 25322 191 743	SE0006BB1N1	50 25322 192 085
Switzerland: - Black - Blue - Grey	SE0005AB1P1	50 25322 191 750	SE0007BB1P1	50 25322 191 750	SE0006BB1P1	50 25322 192 092
Turkey: - Black - Blue - Grey			SE0007BB1Q1	50 25322 191 767	SE0006BB1Q1	50 25322 192 108
Hungary: - Black - Blue - Grey			SE0007BB1R1	50 25322 191 774	SE0006BB1R1	50 25322 192 115
Slovak Rep. : - Black - Blue - Grey			SE0007BB1S1	50 25322 191 781	SE0006BB1S1	50 25322 192 122
ME (NAfrica) - Black - Blue - Grey			SE0007BB1T1	50 25322 191 798	SE0006BB1T1	50 25322 192 139
Russia: - Black - Blue - Grey	SE0007AB1U1	50 25322 191 804	SE0007BB1U1	50 25322 191 804	SE0006BB1U1	50 25322 192 146
Lithuania: - Black - Blue - Grey	SE0007AB1V1	50 25322 191 811	SE0007BB1V1	50 25322 191 811	SE0006BB1V1	50 25322 192 153

Poland: - Black - Blue - Grey			SE0007BB1W1	50 25322 191 828	SE0006BB1W1	50 25322 192 160
Czech Rep. : - Black - Blue - Grey			SE0007BB1Y1	50 25322 191 835	SE0006BB1Y1	50 25322 192 177
No Ln (Euro): - Black - Blue - Grey			SE0007BB1Z1	50 25322 192 337	SE0006BB1Z1	50 25322 192 382
South Africa: - Black  - Blue - Grey	SE0005AB1B2/ SE0007AB1B2	50 25322 191 842	SE0007BB1B2	50 25322 191 842	SE0006BB1B2	50 25322 192 184
Croatia: - Black - Blue - Grey			SE0007BB1C2	50 25322 191 859	SE0006BB1C2	50 25322 192 191
Austria: - Black - Blue - Grey			SE0007BB1F2	50 25322 191 866	SE0006BB1F2	50 25322 192 207
Cyprus: - Black - Blue - Grey			SE0007BB1G2	50 25322 191 873	SE0006BB1G2	50 25322 192 214
Romania: - Black - Blue - Grey			SE0007BB1P2	50 25322 191 880	SE0006BB1P2	50 25322 192 221
Slovenia: - Black - Blue - Grey			SE0007BB1S2	50 25322 191 897	SE0006BB1S2	50 25322 192 238
ME (Gulf) - Black - Blue - Grey			SE0007BB1T2	50 25322 191 903	SE0006BB1T2	50 25322 192 245
Ukraine: - Black - Blue - Grey			SE0007BB1U2	50 25322 191 910	SE0006BB1U2	50 25322 192 252
Israel: - Black - Blue - Grey			SE0007BB1X2	50 25322 191 927	SE0006BB1X2	50 25322 192 269
No Ln (UK): - Black - Blue - Grey			SE0007BB1Z2	50 25322 192 344	SE0006BB1Z2	50 25322 192 399
Latvia: - Black - Blue - Grey			SE0007BB1A3	50 25322 191 934	SE0006BB1A3	50 25322 192 276

Estonia: - Black - Blue - Grey			SE0007BB1C3	50 25322 191 941	SE0006BB1C3	50 25322 192 283
Bulgaria: - Black - Blue - Grey			SE0007BB1A4	50 25322 191 958	SE0006BB1A4	50 25322 192 290

## 7. PRODUCT NAME/MARKET NAME

The internal name for this product is ZAP. The pre-launch name of the product that can be used with customers is 'Platform Z'. This name is to be used as a precaution against the name ZAP becoming adopted by the market. The final market names for the different models are below.

	Europe	Asia	Pan-America
Stage I	cd920	cd928	n/a
Stage II	cd920	n/a	<i>g929</i>
Stage III	cd930	cd938	<i>g939</i>

## 8. SAMPLE SCHEDULE

This list will be constantly updated as new requirements are submitted.

## 9. TYPE APPROVAL

Full Phase II Type Approval was obtained for the ZAP Platform on 16 March, 1998. Type approval should simultaneously be sought in Asia. Type approval should then be supported and obtained in the following countries outside the European Community:

- Russia
- Hungary
- Poland
- Ukraine
- Israel

The following Type names will be used in European Type Approval:

- Stage I & II, Flipped MC2-41B11
- Stage III, Flipless MC2-41B12

The TAC awarded for MC2-41B11 is: 447768 with the following FACs: 69 (Harvard), 07 (Flensburg) and 40 (Easter Inch) and initial range from: 425 425 to 725 424.

The phone, the Rapid Travel Charger and Data accessories must also have CE approval.

All models must be Year 2000 compliant.

## 10. ACCESSORIES & COMPATIBILITY

See separate Accessories product description for full details of the accessory development plan. All accessories are required for launch, unless otherwise stated.

### 10.1 Current

Part Number	POS Number	Name	Availability Notes
SYN4241	CLA9000	Cigarette Lighter Adapter	As StarTAC™
SPN4278	CHA9000 (Eur) CHA9010 (UK)	Universal Rapid Travel Charger	As StarTAC™
SYN6718	n/a	UK Plug	As StarTAC™
SYN4655	n/a	Euro Plug	As StarTAC™
SYN4694	n/a	Aus/NZ Plug	As StarTAC™
SYN4696	n/a	Indian Plug	As StarTAC™
SYN4657	n/a	US Plug	As StarTAC™
SKN4821	n/a	PC Card to Phone Connector Cable	As StarTAC™
S6112	PCC9100	CELlect™ 1+ German/English	As StarTAC™
S6113	n/a	CELlect™ 1+ French	As StarTAC™
S6114	n/a	CELlect™ 1+ Italian / Spanish	As StarTAC™
CD1181	n/a	CELlect™ 3 Denmark	As StarTAC™
CD1177	n/a	CELlect™ 3 Germany	As StarTAC™
CD1183	n/a	CELlect™ 3 Finland	As StarTAC™
CD1179	n/a	CELlect™ 3 France	As StarTAC™
CD1175	n/a	CELlect™ 3 Italy	As StarTAC™
CD1182	n/a	CELlect™ 3 Norway	As StarTAC™
CD1178	n/a	CELlect™ 3 Sweden	As StarTAC™
CD1180	n/a	CELlect™ 3 Switzerland	As StarTAC™
CD1176	PCC9300	CELlect™ 3 UK	As StarTAC™
SYN6962	n/a	Universal Headset and microphone	Same all products

### 10.2 Planned

Part Number	POS Number	Name	Availability Notes
SNN5089	n/a	Weight Leadership LiIon 400 mAh battery	Jan. '98
SNN5291	BNS6070	AAA Long NiMH 650 mAh battery	Jan. '98
SNN5360	BLS6100	LGQ8 LiIon 1000 mAh battery	Jan. '98
SNN5307	BNX6100	AA NiMH 1100 mAh battery	March '98
SNN5260	n/a	Performance Leadership LiIon 2800 mAh	March '98
SHN6618	n/a	Extended AA battery door - Black	Jan. '98
SHN6829	n/a	Extended AA battery door - Grey	
SHN6944	n/a	Extended AA battery door - Blue	
1504768Z01	n/a	AA Dry Cell battery carrier	TBD
SHN6975	n/a	Performance Leadership battery door - Blk	March '98
SHN6827	n/a	Performance Leadership battery door - Gry	
SHN6945	n/a	Performance Leadership battery door - Blu	
SPN4523	CHA6100	Desktop Charger	May '98
SYN6719	n/a	Headset Adapter	May '98
SYN6911	HUC6000	Hang-up Cup	May '98
SLN3940	HSK6000	Headset Adapter and Headset/Microphone	May '98

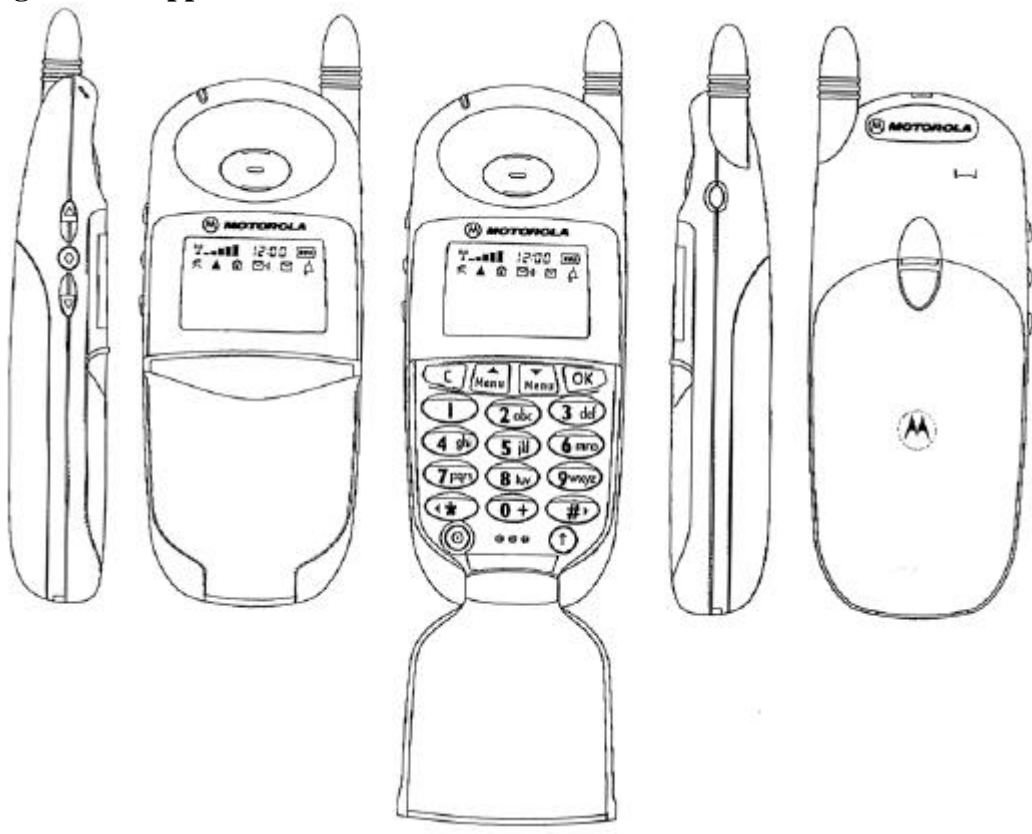


SHN6851	CCA6100	Plastic Holster	May '98
SYN6913	n/a	Leather Pouch - with flip top	May '98
SYN7380	CCA6000	Leather Holster - with rotating belt clip	July '98
CD1310	PCC6000	Smart CELLect Data Cable & Soft Modem	July '98
S8142	HFK6200	Professional Car Kit with DSP	May '98
S8141	TBD	Professional Car Kit with DSP & VR	Q3, '98
SLN3901	HFK6100	Basic Car Kit	Q3, '98
TBD	TBD	Wireless Headset adapter and Earpiece	Q3, '98

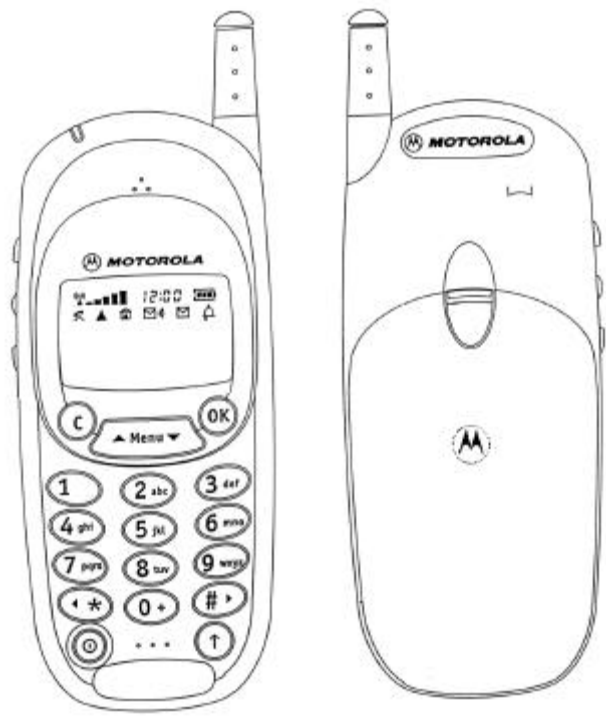
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## APPENDIX 1: SPECIFIC MODEL REQUIREMENTS

### A1 Diagram of Flipped ZAP



### Diagram of Flipless ZAP



**A2 Initial Coloured Housing Requirements**

<b>Stages I and II: Flipped</b>	<b>Black</b>	<b>Magix Grey</b>	<b>Ten Pin Blue</b>
Lens Surround	Black	Silver MM524	Black
Lens Printing	Pantone 427	Bright White	Pantone 427
Front Escutcheon Part Number	54-09397-M08	54-09397-M09	54-09397-M08
Front Escutcheon Background	Black	Silver MM524	Black
Front Escutcheon Finish	Polished	Polished	Polished
Front Escutcheon Printing	Pantone 427	Bright White	Pantone 427
Back Escutcheon Part Number	54 09158-T04	54 09158-T04	54 09158-T04
Back Escutcheon Background	Black	Black	Black
Back Escutcheon Finish	Domed	Domed	Domed
Back Escutcheon Printing	Pantone 427	Pantone 427	Pantone 427
Keypad Background	Black	Black	Black
Keypad Finish	Hard	Hard	Hard

<b>Stage III: Flipless</b>	<b>Black</b>	<b>Magix Grey</b>	<b>Ten Pin Blue</b>
Lens Surround	Black	Silver MM524	Black
Lens Printing	Pantone 427	Bright White	Pantone 427
Front Escutcheon Part Number	13-09432-U04	13-09432-U05	13-09432-U04
Front Escutcheon Background	Black	Silver MM524	Black
Front Escutcheon Finish	as body	as body	as body
Front Escutcheon Printing	Pantone 427	Bright White	Pantone 427
Back Escutcheon Part Number	54 09158-T04	54 09158-T04	54 09158-T04
Back Escutcheon Background	Black	Black	Black
Back Escutcheon Finish	Domed	Domed	Domed
Back Escutcheon Printing	Pantone 427	Pantone 427	Pantone 427
Keypad Background	Black	Black	Black
Keypad Finish	Silicon	Silicon	Silicon

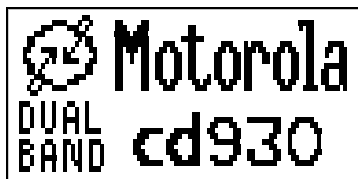
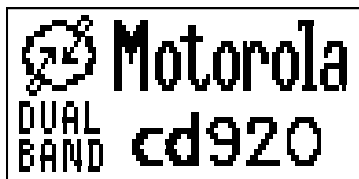
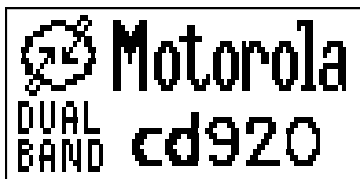
Note: Ten Pin Blue is defined as Pantone 296C

**A3 Flexing Defaults**

Below is a list of the most important default flexing settings:

<b>Feature</b>	<b>Flex Default</b>
Operating Bands	Band-Aware GSM 900 / 1800
Network Selection	Automatic
Network Search Frequency	Medium
SIM Lock	None
Home Zone	None
CPHS Feature Package	Off
VMWI Type	GSM Phase II+ implementation
Emergency Number	112
Data	9600 baud
Extended Menus	Off
Ringer	Standard Tone
Ringer Volume	Maximum
Earpiece Volume	Maximum
Keypad Tone	Normal Tones
Greeting Tone	On
Language	Automatic
Keypad Lock	Flip locks keypad when closed (Stage I and II) # and * keys lock keypad (Stage III)
Key Answer Only	Off (Stages I and II only)
Phone Lock	Off
Phone Lock Number	1234
Security Code	000000
Battery Saving Mode	On
In-Call Display	Off
Single Alert Timer Length	30 seconds
Repetitive Timer Length	60 seconds
Phone Book Access	No Restrictions
CLI Alpha Tag Lookup	On
One-Touch dialling	to SIM Memory
Quick Access	User definable
Voicemail Number	from Phone Memory
LED Status Indicator	On
Power key delays	Delay on Power On and Power Off

**Wake Up Graphics:***Stage I**Stage II**Stage III*



**A4 Menu Requirements**

<b>QA</b>	<b>VN</b>	<b>MENU</b>				
Quick Access	VoiceNote	Phonebook	Call Related Features	Messages	Phone Setup	Netw

**GSM900/1800 ZAP, Issue 8.0**

<p>Assigned Functions:                      1- Find Name                      2- Add to SIM                      3- Call Voicemail                      4- Battery Meter                      5- Play VoiceNote                      6- Mute On/Off                      7- Read Messages                      8- Vibrate On/Off                      9- Divert On/Off</p> <p><b>Available Functions:</b></p> <ul style="list-style-type: none"> <li>• Find by Name</li> <li>• Find by Location</li> <li>• Add Entry to Phone</li> <li>• Add Entry to SIM</li> <li>• Call Voicemail</li> <li>• Battery Meter</li> <li>• Phone Lock Now</li> <li>• Phone Mute On/Off</li> <li>• Ring Volume</li> <li>• VibraCall On/Off</li> <li>• Ringer On/Off</li> <li>• Divert All Voice Calls</li> <li>• Switch Memory</li> <li>• Read Messages</li> <li>• Outgoing Messages</li> <li>• Message Editor</li> <li>• Last Calls Received</li> <li>• Last Call Charge</li> <li>• Last Call Timer</li> <li>• Talk and Fax</li> <li>• Show My ID Next Call</li> <li>• Restrict my ID</li> <li>• Key Answer Only</li> <li>• Switch Line 1/2</li> <li>• Show Services</li> <li>• Play VoiceNote</li> <li>• Divert Voice Call</li> </ul>	<ul style="list-style-type: none"> <li>• Recording ...</li> </ul>	<ul style="list-style-type: none"> <li>• Personal Numbers</li> <li>• Find Entry By Name</li> <li>• &lt; Personal Numbers &gt;</li> <li>• Call Number</li> <li>• Modify Name or No</li> <li>• Erase Name and No</li> <li>• Find Entry By Location</li> <li>• &lt; Personal Numbers &gt;</li> <li>• Call Number</li> <li>• Modify Name or No</li> <li>• Erase Name and No</li> <li>• Add Entry</li> <li>• Add To Phone Memory</li> <li>• Add To SIM Card Mem</li> <li>• Check Capacity</li> <li>• Check Phone Capacity</li> <li>• Check SIM Capacity</li> <li>• Prevent Access</li> <li>• To SIM Card Memory</li> <li>• To Phone Memory</li> <li>• To Phone &amp; SIM Mem</li> <li>• No Memory Restriction</li> <li>• Copy SIM Memory</li> <li>• Show Services</li> <li>• Last Ten Calls</li> <li>• Last Calls Made</li> <li>• Last Calls Received</li> <li>• Erase All Numbers</li> <li>• My Phone Number(s)</li> <li>• &lt; MSISDN List &gt;</li> <li>• Fixed Dialling<sup>2</sup></li> <li>• View Fixed Dial List</li> <li>• &lt; Fixed Dial List &gt;</li> <li>• Setup Fixed Dialling</li> <li>• &lt; Enter PIN2 &gt;</li> <li>• On</li> <li>• Off</li> <li>• Edit Entry</li> <li>• &lt; Fixed Dial List &gt;</li> <li>• Add Entry</li> <li>• Erase Entry</li> <li>• One Touch Dial Setting</li> <li>• To Phone Memory</li> <li>• To SIM Card</li> <li>• To Fixed Dial List<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Show Battery Meter</li> <li>• Restrict My Phone Number</li> <li>• Show ID On Next Call</li> <li>• Restrict ID On Next Call</li> <li>• Call Diverting</li> <li>• Divert All Voice Calls</li> <li>• Divert Voice Calls</li> <li>• Divert When Unavail.</li> <li>• Submenu-1</li> <li>• Divert All Voice Calls</li> <li>• Submenu-1</li> <li>• Detailed Diverting</li> <li>• If Busy</li> <li>• Submenu-1</li> <li>• If Not Reachable</li> <li>• Submenu-1</li> <li>• If No Answer</li> <li>• Submenu-1</li> <li>• Divert Fax Calls</li> <li>• Submenu-1</li> <li>• Divert Data Calls</li> <li>• Submenu-1</li> <li>• Cancel All Diverting</li> <li>• Talk and Fax</li> <li>• On/Off</li> <li>• Call Waiting</li> <li>• On/Off</li> <li>• Call Barring</li> <li>• Bar Outgoing Calls</li> <li>• Int'l Calls</li> <li>• Int'l Calls Ex Home</li> <li>• All Calls</li> <li>• Off</li> <li>• Bar Incoming Calls</li> <li>• When Roaming</li> <li>• All Calls</li> <li>• Off</li> <li>• Cancel All Barring</li> <li>• Change Bar Password</li> <li>• Key Answer Only ***</li> <li>• On</li> <li>• Off</li> </ul>	<ul style="list-style-type: none"> <li>• Call Voicemail</li> <li>• Received Messages</li> <li>• &lt; Message List &gt;</li> <li>• Delete Message</li> <li>• Return Call</li> <li>• Edit Message</li> <li>• &lt; Message Editor&gt;</li> <li>• Send Message</li> <li>• Store Message</li> <li>• Go To Next Message</li> <li>• Outgoing Messages</li> <li>• &lt; Message List &gt;</li> <li>• Send Message</li> <li>• Edit Message</li> <li>• &lt; Message Editor&gt;</li> <li>• Send Message</li> <li>• Store Message</li> <li>• Delete Message</li> <li>• Go To Next Message</li> <li>• Message Editor</li> <li>• Send Message</li> <li>• Store Message</li> <li>• VoiceNotes</li> <li>• Play VoiceNotes</li> <li>• &lt; Playing ... &gt;</li> <li>• Go To Next</li> <li>• Show Time Available</li> <li>• Erase All VoiceNotes</li> <li>• Cell Broadcast</li> <li>• On/Off</li> <li>• Message Settings</li> <li>• Voicemail Number</li> <li>• Service Centre</li> <li>• Expiry Period</li> <li>• Outgoing Message Type</li> <li>• Text</li> <li>• Fax</li> <li>• X400</li> <li>• Paging</li> <li>• E-mail</li> <li>• ERMES</li> <li>• Voice</li> </ul>	<ul style="list-style-type: none"> <li>• Select Phone Line</li> <li>• Line 1</li> <li>• Line 2</li> <li>• Adjust Ring Volume</li> <li>• &lt; Volume Keys &gt;</li> <li>• Ring or Vibrate</li> <li>• Ring Only</li> <li>• Vibrate Only</li> <li>• Vibrate Then Ring</li> <li>• No Ring Or Vibrate</li> <li>• Ringer On or Off</li> <li>• On/Off</li> <li>• Set Ringer Tone</li> <li>• Standard Tone ... etc</li> <li>• Set Ringer Tone 2</li> <li>• Standard Tone ... etc</li> <li>• Phone Lock</li> <li>• Automatic Lock</li> <li>• On/Off</li> <li>• Lock Now</li> <li>• Change Unlock Code</li> <li>• Require SIM Card PIN</li> <li>• On/Off</li> <li>• Change SIM PIN Code</li> <li>• Change SIM PIN2 Code<sup>2</sup></li> <li>• New Security Code</li> <li>• Extended Menus</li> <li>• On/Off</li> <li>• Show Time and Date</li> <li>• Set Time and Date</li> <li>• Set Time Format</li> <li>• Language Selection</li> <li>• Dansk</li> <li>• ...</li> <li>• Türkce</li> <li>• Automatic</li> <li>• Change Greeting</li> <li>• Battery Saving Mode</li> <li>• On/Off</li> <li>• Select Keypad Tones</li> <li>• Normal Tones</li> <li>• Single Tones</li> <li>• No Tones</li> <li>• Phone Status</li> <li>• Status Review</li> <li>• Master Reset</li> <li>• Master Clear</li> </ul>	<ul style="list-style-type: none"> <li>• Available</li> <li>• &lt; PLMT</li> <li>• Reg</li> <li>• Mak</li> <li>• Network</li> <li>• Registr</li> <li>• Aut</li> <li>• Mar</li> <li>• Freque</li> <li>• Slov</li> <li>• Mec</li> <li>• Fas</li> <li>• Cor</li> <li>• Preferre</li> <li>• Add Ne</li> <li>• Cho</li> <li>• Cho</li> <li>• Add</li> <li>• Show L</li> <li>• &lt; PI</li> <li>• I</li> <li>• I</li> <li>• Find New</li> </ul>
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**Menu Key:** • flex on; + flex on but not shown in manual; **Bold** are CSP controlled; *Italics* are in Extended Menus; menus marked <sup>2</sup> ap  
 \*\* New features; to be confirmed. \*\*\* Not required for Flipless ZAP (Stage III).



## A5 Specifications of Competitors' Products

	Standard Package	Best Performance	Strengths
<b>Motorola cd920 or cd930</b>	Size (cc) 139 Weight (gm) 145 Talk time (mins) 210-270 Standby time (hrs) 90-105	Smallest size (cc) 139 Lowest weight (gm) 120 Talk time (mins) 480-600 Standby time (hrs) 200-250	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Ergonomic designs</li> <li>• VoiceNote™ &amp; VibraC</li> <li>• Optimax™ display</li> </ul>
<b>Ericsson sh888 or sf888</b>	Size (cc) 140 Weight (gm) 195 Talk time (mins) 210-265 Standby time (hrs) upto 80	Smallest size (cc) * Lowest weight (gm) 173 Talk time (mins) 315-400 Standby time (hrs) upto 120	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Internal data card built-in</li> <li>• Infra-Red port</li> <li>• Enhanced Full Rate Codec</li> </ul>
<b>Nokia 6150</b> <i>(Dual-band version of 6110; expected end Q3-98)</i>	Size (cc) 130 Weight (gm) 142 Talk time (mins) 180-300 Standby time (hrs) 60-260	Smallest size (cc) 130 Lowest weight (gm) 142 Talk time (mins) 300-480 Standby time (hrs) 100-450	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Infra-Red port</li> <li>• Reminders and Games</li> <li>• Call Screening</li> </ul>
<b>Siemens S15</b>	Size (cc) 160 Weight (gm) 185 Talk time (mins) upto 180 Standby time (hrs) upto 80	Smallest size (cc) 160 Lowest weight (gm) 185 Talk time (mins) upto 600 Standby time (hrs) upto 220	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Easy to use</li> <li>• Dynamic character size</li> <li>• Calculator function</li> </ul>
<b>Bosch Dual-Com 738</b>	Size (cc) * Weight (gm) 192 Talk time (mins) 200 Standby time (hrs) 80	Smallest size (cc) * Lowest weight (gm) 174 Talk time (mins) 575 Standby time (hrs) 220	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Belt clip accessory</li> <li>• Vibrating battery access</li> <li>• Calculator function</li> </ul>
<b>Mitsubishi MT-D30</b> <i>(expected end Q2-98)</i>	Size (cc) 168 Weight (gm) 185 Talk time (mins) upto 180 Standby time (hrs) upto 110	Smallest size (cc) 168 Lowest weight (gm) 185 Talk time (mins) upto 240 Standby time (hrs) upto 180	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Rocker menu key</li> <li>• Closed User Group</li> <li>• Conference Calling</li> </ul>
<b>NEC DB2000</b> <i>(Low tier model G10 also expected Q3-98)</i>	Size (cc) 100 Weight (gm) 120 Talk time (mins) upto 150 Standby time (hrs) upto 300	Smallest size (cc) 100 Lowest weight (gm) 120 Talk time (mins) upto 300 Standby time (hrs) upto 600	<ul style="list-style-type: none"> <li>• Dualband (GSM900/1800)</li> <li>• Metallic finish</li> <li>• Vibrating alert as standard</li> <li>• LiIon battery as standard</li> </ul>
<b>Nortel/AEG/Matra 2785</b> <i>(Expected end Q3-98)</i>	Size (cc) * Weight (gm) * Talk time (mins) * Standby time (hrs) *	Smallest size (cc) * Lowest weight (gm) 165 Talk time (mins) 360 Standby time (hrs) 280	<ul style="list-style-type: none"> <li>• Dualband PLUS E-GSM</li> <li>• 14,400 data capable</li> <li>• Handsfree mode</li> <li>• Voice control and callir</li> </ul>

\* Not currently known