

Elf™ Powered Mobile Dock

The Elf Powered Mobile Dock allows charging the Elf PDA battery and holding it securely in your vehicle. It also functions as a serial or USB communication interface between a device (typically a printer or a powerscan) and the PDA.

THE PACKAGE

The dock package includes the following items:

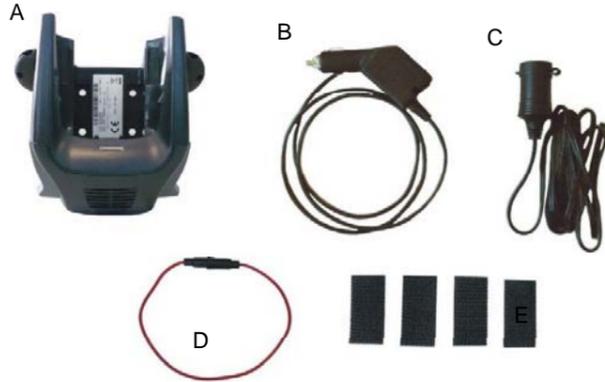


Figure 1

- A) Elf Powered Mobile Dock 94A151130
- B) Cigarette Lighter Power Adapter
- C) Battery Female Adapter
- D) Fuse Holder
- E) 4 Dual Lock™ Labels

THE DOCK

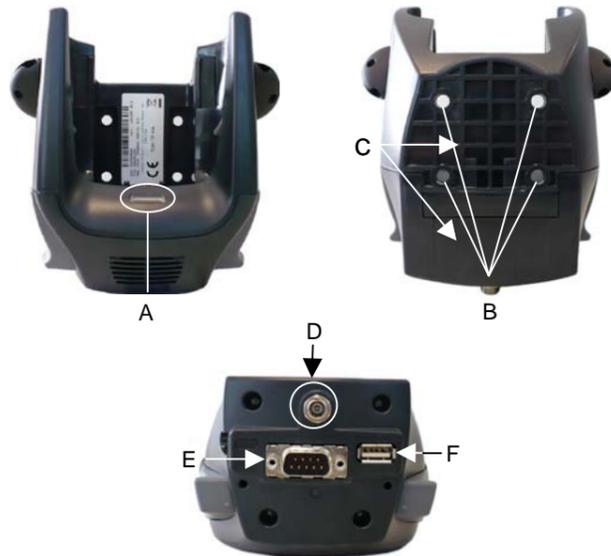


Figure 2

- A) LED Indicator
- B) Mounting Holes
- C) Dual Lock™ Label Adhesive Strip Seat
- D) Power Connector
- E) RS232 Connector
- F) USB Connector

THE CIGARETTE LIGHTER POWER ADAPTER



Figure 3a

Figure 3b

- A) Green LED
- B) Fuse (4A 250V)

When the cigarette lighter adapter is powered, the green LED lights up.

The fuse can be easily replaced by unscrewing the ring nut and removing the cap (see Figure 3b).

MOUNTING OPTIONS

The dock can be mounted on the desired surface using either the Dual Lock™ Label or the Ram Mount.

MOUNTING WITH DUAL LOCK™ LABEL



Figure 4

This procedure is suggested when mounting the dock on flat surfaces:

1. Select a mounting location allowing an easy access to the dock connector panel;
2. carefully clean the adhesive strip seat on the rear of the dock to remove any impurities that could reduce adhesion;
3. remove the protection film from the adhesive side of two of the available labels and stick them on the dock surface as shown in Figure 4;
4. remove the protection film from the adhesive side of the remaining labels and stick them on the vehicle surface (smooth and clean for better adhesion);
5. affix the dock to the vehicle surface.

CAUTION The Dual Lock™ label must be stuck at least 48 hours before the dock is submitted to mechanical stress.

MOUNTING WITH RAM MOUNT ADJUSTABLE ARM

The Ram Mount Adjustable Arm allows wide range of rotation for the dock. It can be mounted on any flat surface while the ball joints enable position flexibility.

1. Align the adjustable arm with the four screw holes on the rear of the dock as shown in Figure 5:



Figure 5

2. Secure the adjustable arm to the rear of the dock using the four screws and nuts (included in the package) as shown in Figure 6:



Figure 6

CAUTION Install only on properly grounded mobile platforms. If this dock is used on an electric vehicle, ensure that no part of the dock and PDA can come into contact with the vehicle chassis. Electrical discharges can develop on these vehicles, which can damage the dock and/or PDA.

POWERING THE DOCK

Powering the dock/ Elf in your vehicle.

1. Plug in the supplied cigarette lighter adapter into your vehicle's cigarette lighter or 12V or 24V power source;
2. insert the cigarette lighter adapter output plug in the jack at the bottom of the dock (see figure 7). When the dock is powered, the LED indicator lights up green;



Figure 7

CAUTION Make sure your vehicle's output voltage is between 10V to 32V, and is capable of supporting a 4000mA current drain. If you have any concerns regarding this, refer to your vehicle owner's manual.

Powering the dock using the Battery Female Adapter

For connection to the vehicle power source through the Battery Female Adapter, it is necessary to prepare the power cable termination to connect the dock to the vehicle power source.

- Red wire: connect to a V+ (10 to 32 Vdc) vehicle power source;
- Black wire: connect to the vehicle ground wire or chassis ground.

In this case, it is mandatory to use the slow-blow 8A 250V (with holder) supplied with the dock.

1. Verify that the fuse is contained within the holder, then splice it to the end of the red wire of the cable. Make the distance between fuse holder and power connection point as short as possible and apply a caution label on the fuse holder.

Once the power cable termination has been completed, it is possible to connect the dock to the vehicle power.



Figure 8



Figure 9

- Plug in the cigarette lighter adapter into the Battery Female Adapter:



Figure 10

- Insert the cigarette lighter adapter output plug in the dock/Elf power port (see the previous section).

NOTE To avoid battery waste, it is recommended to connect the dock to a power connection point switched by the ignition key.

CAUTION When connecting the Battery Female Adapter cable to the power connection point, ensure that it does not pass by sharp or very hot surfaces.

BATTERY CHARGING

The dock provides battery charging for the Elf when powered.

NOTE The Elf will charge its installed battery when power is applied to the dock.

INSERTING THE ELF IN THE DOCK

To insert the Elf into the dock, perform the following steps:

- Slide the Elf into the dock.
- Push downwards to insert the Elf until the side triggers lock the terminal and the LED indicator turns to yellow



Figure 11

REMOVING THE ELF FROM THE DOCK

To remove the Elf, press the side triggers and then lift the terminal.



Figure 12

CONNECTIONS

Connection to peripherals (USB/RS232)

Elf Powered Mobile Dock can be connected to a device (i.e. a printer or a powerscan) by means of a USB or RS232 interface. Connect the device to the USB (RS232) port of the dock. Once the device has been turned on, insert the Elf into the dock.

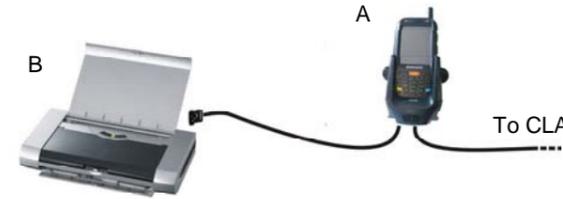


Figure 13

- Elf Powered Mobile Dock 94A151130
- Portable Printer

RS232 Connection

Connect the Elf Powered Mobile Dock to the host by means of a standard null modem cable such as Datalogic 94A051020 CAB-427.

Once the host has been turned on, insert the Elf in the dock.

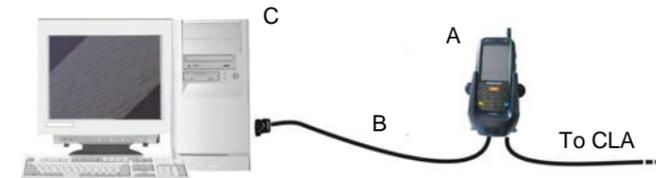


Figure 13

- Elf Powered Mobile Dock 94A151130
- 94A051020 CAB-427 Null Modem cable
- Host

TECHNICAL FEATURES

Elf Powered Mobile Dock	
Electrical Features	
Power Supply	from 10 to 32 VDC
Consumption (with PDA)	Max. 3 A
Quiescent Consumption (without PDA)	Max. 22 mA (@ 5V)
LED Indicator	Green: Power on Yellow: Elf inserted
Communication Features	
Interface	RS232, USB 1.1 version
Baud Rate	RS232 : up to 115200 b/sec
Environmental Features	
Working Temperature	-10° to +50 °C / +14° to +140 °F
Storage Temperature	-20° to +70 °C / -4° to +158 °F
Humidity	90% non condensing
Vibration Resistance (*)	EN60068-2-64 frequency range 5-1000 Hz; acceleration RMS: 3.1 g; initial slope: 26dB/oct 5-10 Hz; final slope: -3dB/oct 10-1000 Hz
Shock Resistance (*)	EN60068-2-29 - ±25g, 6ms duration, 500 shock impacts per axis
Mechanical Features	
Dimensions	124 x 130 x 79 mm / 4.9 x 5.1 x 3.1 in
Weight	(about) 265 g / 9.35 oz

(*) For screw mounting

FCC COMPLIANCE

Modifications or changes to this equipment without the expressed written approval of Datalogic could void the authority to use this equipment.

The device complies with PART 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference which may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

INDUSTRY CANADA COMPLIANCE

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.