



Husky MP2500 User Leaflet

Read **ALL** this leaflet before using your MP2500. It contains essential information about getting started, and setting up.

CAUTION - battery types: it is very important to set up the MP2500 correctly for the battery type you are using. Refer to the section THE BATTERY inside this leaflet. **HUSKY battery types supplied with your MP2500 can be as follows.**

Either:

The MP2500 can be supplied with non-rechargeable Alkaline batteries.

Alkaline batteries are **not** suited for use with peripheral loads, or low temperature operation.

DO NOT charge non-rechargeable Alkaline batteries.

Or:

The MP2500 can be supplied with a rechargeable battery option as follows:

- **NiCd** (Nickel Cadmium) rechargeable battery pack, colour coded **black**.
- **NIMH** (Nickel Metal Hydride) high capacity rechargeable battery pack, colour coded **green** (special option only).

Rechargeable batteries should be charged before use - refer to the section THE BATTERY inside this leaflet.

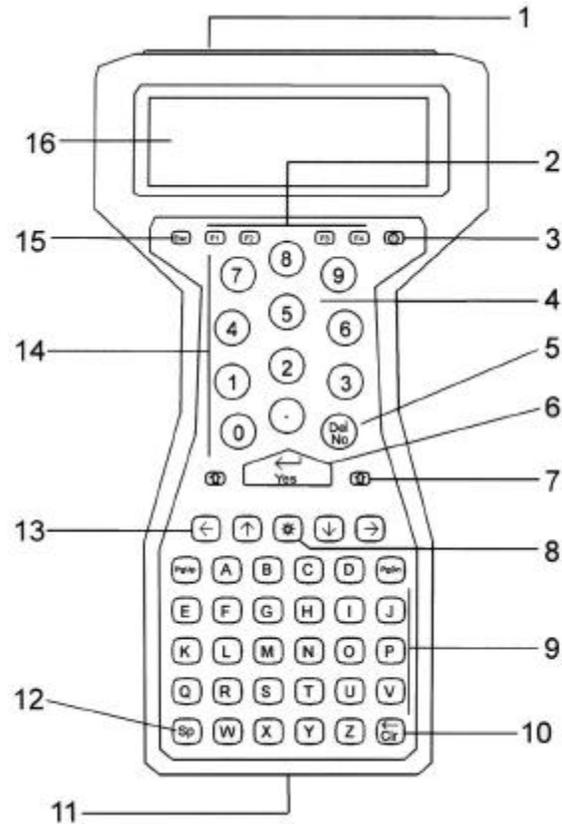
In case of doubt, please contact your system provider.

USING YOUR MP2500

The **HUSKY M P2500** hand-held computer is rugged and waterproof. To help ensure trouble-free operation, we recommend that you:

- Check how to use your application before beginning work.
- Avoid subjecting your MP2500 to:
 - unnecessary temperature extremes – bright sunlight in a vehicle, for example
 - prolonged immersion in water
 - physical mistreatment

The MP2500 leaves the factory without the battery fitted. You must fit the battery pack and charge it before use; refer to SETTING UP for instructions.



Note: Keyboard and connectors may vary on certain models.

1 SERIAL PORT CONNECTOR

2 FUNCTION KEYS: press to use application functions.

3 POWER KEY: press to turn on or off.

4 HAND STRAP: *on the rear of the unit*, this helps you hold the MP2500 securely.

5 DEL/NO KEY: press to delete entries or answer No to a question.

6 ENTER/YES KEY: press to complete typing, type a carriage return, or answer Yes to a question.

7 SHIFT KEYS (⇧): hold either down to type the characters (or functions) shown above the keys.

8 BACKLIGHT KEY: If the backlight **option** is fitted, press to illuminate the screen in low light. You may need to press "L" at the same time (depending how your MP2500 is set up).

9 TYPING KEYS: type letters, or symbols and functions when used with ⇧ (SHIFT).

- 10 BACKSPACE KEY: press to erase typing.
- 11 BATTERY CAP: remove to change the battery.
- 12 SPACE KEY: types a space (blank) character.
- 13 CURSOR KEYS: to move the cursor. Also, use SHIFT  and SHIFT  to adjust screen contrast.
- 14 NUMERIC KEYPAD: type numbers.
- 15 ESCAPE KEY: usually used to cancel a function.
- 16 LCD SCREEN: displays prompts and messages, and information as you type.

SETTING UP

The **MP2500** leaves the factory without the battery fitted. To get a new **M P2500** started *for the first time* you must carry out the following steps:

1. Either:

Fit three Alkaline batteries (see under **Replacing the Battery** later in this leaflet).

Or..

Fit the HUSKY rechargeable battery pack (see under **Replacing the Battery** later in this leaflet).

The HUSKY **NiCd** battery is colour coded **black**
The HUSKY **NiMH** battery is colour coded **green**.

Caution: For non-rechargeable alkaline batteries the procedure is different - as shown by the *notes in italics* below.

2. Connect the **MP2500 AC Adaptor**, or place the **MP2500** on the **HUSKY Communications & Charging Rack** (see **Charging the Battery**).

Note: If non-rechargeable alkaline batteries are fitted, skip step 2.

3. Reset the **MP2500**:

- Press and hold down both  (SHIFT) keys. At the same time, hold down the  (POWER) key. Hold all three keys down for at least 5 seconds. Release the keys.

4. Starting **MS-DOS**:

- After a brief delay the **MP2500** will start; either displaying the HUSKY **MP2500** Welcome screen, or the DOS prompt, `C:\>`. (Or, if it displays the message `Time and Date reset`, press any key to continue).
- If you are at the Welcome screen, press any key to start MS-DOS, finally displaying the DOS prompt, `C:\>`
- In case of difficulty, repeat from step 3 above, being sure to hold the three keys down firmly for at least 5 seconds.

5. Set the time and date:

- Type **UTIL** and press .
- This will display the **MP2500** Utility menu with the **Set Time** option selected.

- Press  to choose this option.
- Use  and  to adjust the 'hours'.
- Now use  and  keys to select 'minutes', and use  and  to adjust.
- You can use the same method to adjust 'seconds' if you wish.
- Press  to update the **MP2500** clock and return to the Utility menu.
- Press  to select the **Set Date** option and press .
- Set the date by using  and  to select each parameter, and  and  to adjust its value, as you did for the time.
- Press  to update the **MP2500** calendar and return to the **MP2500** Utility menu.

6. Set up the rechargeable battery type:

Note: If non-rechargeable alkaline batteries are fitted, skip step 6 by pressing ESC to return to the DOS prompt.

- Press  until **Non-volatile Configuration** is selected. Press .
- Press  until **SPM Battery type** is selected. Press  or  to select either **NiCd** Or **NiMH** rechargeable battery type. Press  and press  again.
- The **MP2500** will reset. Follow the instructions in **step 4** above, but then continue at **step 7**.

7. Set up the Battery Charging mode:

- Hold down the  (BACKLIGHT PAW) key and press **H**. This will display an information screen which includes a menu of options.
 - Use  to select **Power**, and press
 - The function **Battery Charging Support** will be displayed.
 - Use  to select charging **enabled** or **disabled**.
- Note: If non-rechargeable alkaline batteries are fitted, you must select disabled.*

8. Accept the setting by pressing

Press ESC to return to the DOS prompt.

9. Charge the battery: press to turn off the **MP2500** and leave it connected to the **MP2500 AC Adaptor** or **Rack** to charge for 15 hours (e.g. overnight).

Note: If non-rechargeable alkaline batteries are fitted, you must skip step 9.

The **M P2500** is now ready for use.

Note: After an application has been loaded into **MP2500**, access to SETTING UP functions may be different. Refer to instructions provided with your application.

CONTROLS

Note: Your application's user instructions may supplement the following information.

Turning on and off

Press \odot to turn on, or off. To conserve power, the **MP2500** turns off automatically if you have not pressed any keys for a short while.

Screen contrast

Adjust the screen contrast for optimum readability, especially at temperature extremes. Hold down either \square (SHIFT) key and press \uparrow to increase contrast or \downarrow to decrease contrast.

Screen backlight - option

If the backlight *option* is fitted (refer to your system provider for more details):

In low ambient light, press \uparrow to turn the backlight on. To turn it off, press \downarrow again. You may need to press **L** at the same time (depending how your **MP2500** is set up). The backlight turns off automatically after a short time, to conserve power.

Data entry

To type numbers or letters, press the appropriate keys. To type a space, press the **Sp** (SPACE) key.

To delete characters you've just typed, press the \square (BACKSPACE) key.

To select the characters or functions shown above the keys, hold down either \square (SHIFT) key and then press the appropriate key.

Moving the cursor

Software applications will normally allow you to move the cursor a character or line at a time, using the arrow keys: \leftarrow , \rightarrow , \uparrow , and \downarrow . To move the cursor up or down several lines, use \square and \square .

Resetting the MP2500

Caution: Resetting the **MP2500** may lose your most recent data entries. You should not need to reset the **MP2500** in normal operation - use this procedure in emergency only. Report the problem to your system provider.

If the **MP2500** locks up or fails to operate, you MAY need to reset it as follows:

Refer to the previous section SETTING UP. Carry out **step 3, Reset the MP2500** and **step 4, Starting MS- DOS**.

If this fails, try another set of Alkaline batteries or (charged) battery pack (see **Replacing the Battery**). **If this does not help, contact your system provider for assistance.**

LOADING SOFTWARE

Your system provider may have already loaded the application software before issuing the **MP2500** to you. Software is normally loaded onto an **MP2500** by downloading files from a PC. To do this you need:

1. A suitable cable to connect between the PC and the **MP2500**. **HUSKY** approved cables are available via your system provider.
2. A file transfer program. The **HUSKY** file transfer utility, **HCOM**, is provided for the **MP2500**.

For further details, please consult your system provider or the **MP2500** System Developer's Guide (or instructions provided with the application software).

THE BATTERY

The **MP2500** is designed for use with **alkaline batteries** or a **HUSKY rechargeable** battery pack. If you are using rechargeable batteries, use only the **HUSKY MP2500 battery pack**.

Non-rechargeable alkaline batteries are not generally recommended for use with an **MP2500** with peripheral loads. Alkaline batteries are not suited to low temperature operation.

With a full charge, the **MP2500** battery is designed to last more than a working shift. However, if power does run low, a warning **BATTERY LEVEL LOW** will be displayed. (After a further period of use, your **MP2500** will turn itself off and will not turn on again.) You should do one of the following:

- Return the **MP2500** to your base or office
- Or recharge the battery (see **Charging the battery**)
- Or fit a fully charged battery pack (see **Replacing the battery**)
- Or fit three new AA size alkaline batteries.

Replacing the battery

- Turn off the **MP2500**.
- Remove the battery cap by using a suitable coin.
- Do not allow rain or moisture into the battery compartment.
- Tilt the unit to slide out the individual cells or battery pack.
- **Either**. Slide the replacement **HUSKY MP2500 battery pack** into the battery compartment, positive end first.
Or: Fit three new Alkaline batteries, positive end first. Ensure that all three cells are new and of the same type, and not partially discharged.
- Refit the battery cap. Seat it with finger pressure first and make sure that it has engaged the screw threads before tightening it with a suitable coin.
- Turn on the **MP2500** and check operation.
- If you can't turn on, you may need to reset the **MP2500** as described in the **CONTROLS** section.

- After changing the battery, you **MUST** ensure that the battery type and whether or not it is rechargeable are correctly configured. (Refer the section SETTING UP above, or to your application's user instructions.)

CAUTION. If you fit Alkaline batteries, warn anyone that you give the unit to - non-rechargeable batteries must NOT be recharged.

Always use batteries of the same type and charge state – don't mix fresh batteries with used batteries, or rechargeable batteries with non-rechargeable ones. Observe the instructions printed on the battery. Replace only with batteries approved by your MP2500 supplier. **DO NOT FIT LITHIUM BATTERIES.**

ATTENTION. Dispose of or recycle used batteries according to the manufacturer's instructions, or local waste management regulations. Nickel-Cadmium rechargeable batteries must be recycled, or disposed of properly. Do not dispose of batteries in fire.

CAUTION: BATTERY CHEMICAL LEAKAGE IS CORROSIVE. In the unlikely event of battery leakage, do not touch. In case of accidental contact, flush immediately with running water.

Charging the battery

If you are using the rechargeable battery pack, charging is recommended before each working shift. You will need a HUSKY MP2500 AC Adaptor.

CAUTION: DO NOT ATTEMPT TO RECHARGE NON-RECHARGEABLE BATTERIES. DAMAGE TO THE MP2500 WILL RESULT. Make sure a HUSKY MP2500 rechargeable battery pack is fitted to your

MP2500, and oriented correctly. Use only the M P2500 AC Adaptor. Refer to the AC POWER ADAPTOR section for full precautions before use.

- Turn off the **MP2500**.
- Plug the **AC** adaptor into the **AC** supply.
- Connect the **AC** adaptor to the 9 pin connector at the top of the unit.
- Turn on the **AC supply**.
- The **MP2500** should display **Charging in progress** (if not, ensure charging is enabled - see SETTING UP, steps 6 and 7).
- Leave the unit to recharge, for example overnight or until it displays **Charging complete**.
- Turn off or disconnect from the **AC** supply.

Alternatively, if your system includes the **Husky Communications & Charging Rack (CCR)**, you can recharge a unit by placing it on the Rack.

CLEANING

If the screen gets dirty or smeared, clean it with a clean cloth. If the **MP2500** gets very dirty, it should be cleaned:

- Make sure that the battery cap is tight. If you have dropped the **MP2500**, check that the case and seals are intact.
- Gently rinse the unit under clean running water (no more than hand hot, 40°C). Do not immerse the unit unnecessarily, or use a high pressure jet.
- To remove stubborn deposits, use a soft bristle brush and a mild detergent. **TREAT THE KEYBOARD GENTLY.**
- Blow any water out of the connectors, then leave it to drain and air dry. **DO NOT EXPOSE THE UNIT TO TEMPERATURES ABOVE 55°C.**
- Polish the screen with a clean cloth.

CAUTION: Do not use organic solvents or harsh detergents, as they may damage the casing.

PERIPHERALS

CAUTION: Connect only approved cables and peripherals to your MP2500.

To connect a suitable peripheral to the **MP2500**:

- Turn off the **MP2500** (and peripheral, if appropriate).
- Fit the peripheral to the connector.
- Use connector locking mechanisms where fitted.
- Turn on the **MP2500** (and peripheral, if appropriate).

To disconnect a peripheral:

- Turn off the **MP2500** (and peripheral, if appropriate).
- Disconnect the peripheral from the connector.

PROBLEMS

If you have problems with the **MP2500**, TELL YOUR SYSTEM PROVIDER, but here are a few checks:

- If the unit will not turn on, check the battery pack orientation and try another **charged** battery pack.
- If you cannot read the display, try adjusting the screen contrast (see **CONTROLS**).
- If you drop the unit and it stops working, try turning off and on, and check the battery pack.
- Your application may provide a **RESET** facility, or you may be able to reset the unit as described in the **CONTROLS** section.

CAUTION: There are no user serviceable parts inside the MP2500, and high voltages can be present. Do not attempt to open.

AC POWER ADAPTER

The **MP2500** (or the **HUSKY Communications & Charging Rack**) is normally supplied with a **HUSKY AC Power Adaptor** (power supply).

CAUTION: Read and understand the following instructions before using the ac power adaptor.

- Hazardous voltages inside, no user serviceable parts inside, do not attempt to open.
- Indoor use only.
- Avoid liquid spillage, do not connect if suspected damp.
- Ensure ventilation is not restricted.
- Use only the HUSKY **MP2500** (or **MP CCR**) **AC** Adaptor. This special adaptor should never be replaced by an alternative unapproved model - this could be hazardous or cause damage.
- Inspect adaptor before connecting, do not use if there are signs of damage or deterioration.
- Ensure rechargeable batteries are fitted and they are orientated correctly.
- Ensure that connectors are firmly mated.
- Avoid mechanical strain to cables or connectors.
- Switch on or connect the mains (line) supply only after making **all** connections.
- Switch **off** or disconnect the mains (line) supply before disconnecting the AC Adaptor from the unit.
- In the event of overloading due to a fault, the adaptor is designed to be fail safe and may stop functioning.
- Do not attempt to employ the HUSKY AC Adaptor for alternative purposes. **Use** only on the HUSKY equipment to which they apply.
- Avoid use in dusty or contaminated environments.

Regulations of the Canadian Department of Communications, standard ICES-003.

FRANÇAIS

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada, NMB-003.



Electromagnetic Compatibility

CAUTION!

Approved accessories only may be used with this equipment. In general all cables must be high quality, shielded, correctly terminated and normally restricted to 2 metres length. Husky AC adaptors employ special provisions to avoid radio interference and should not be altered or substituted. Unapproved modifications or operations conflicting with these instructions for use, may void approvals by the authorities to operate the equipment.

Europe

This product complies with the European EMC Directive 891336.

USA

RADIO INTERFERENCE, FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference **by** one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

CANADA ENGLISH

This digital apparatus does not exceed the class B limits for radio noise emissions from digital apparatus set out in the Radio Interference