E-PT-004

# Commodore

# *MPS 1250*

Supplement to 1200/P

# Service Manual

10/88

Commodore

# PARALLEL AND SERIAL BIP

## (SPECIFICATIONS FOR EUROPE)

# PARALLEL AND SERIAL BIP

## TABLE OF CONTENTS


1. Control Circuit Block Diagram ..... D-1

2. Parallel Interface Specifications ..... D-3
   (1) Specifications ..... D-3
   (2) Pin No. and signal name ..... D-3
   (3) Description about interface signals of CN12 ..... D-4

3. Serial Interface Specifications ..... D-6
   (1) Specification ..... D-6
   (2) Pin No. and Signal name ..... D-6
   (3) Description about interface signals of CN13 ..... D-6
   (4) Data transfer sequence ..... D-8

4. Specification Setting DIP Switches ..... D-10

5. Parts Lists

6. Circuit Diagrams
   (1) Mounting Diagram
   (2) Circuit Diagram

## 1. Control Circuit Block Diagram

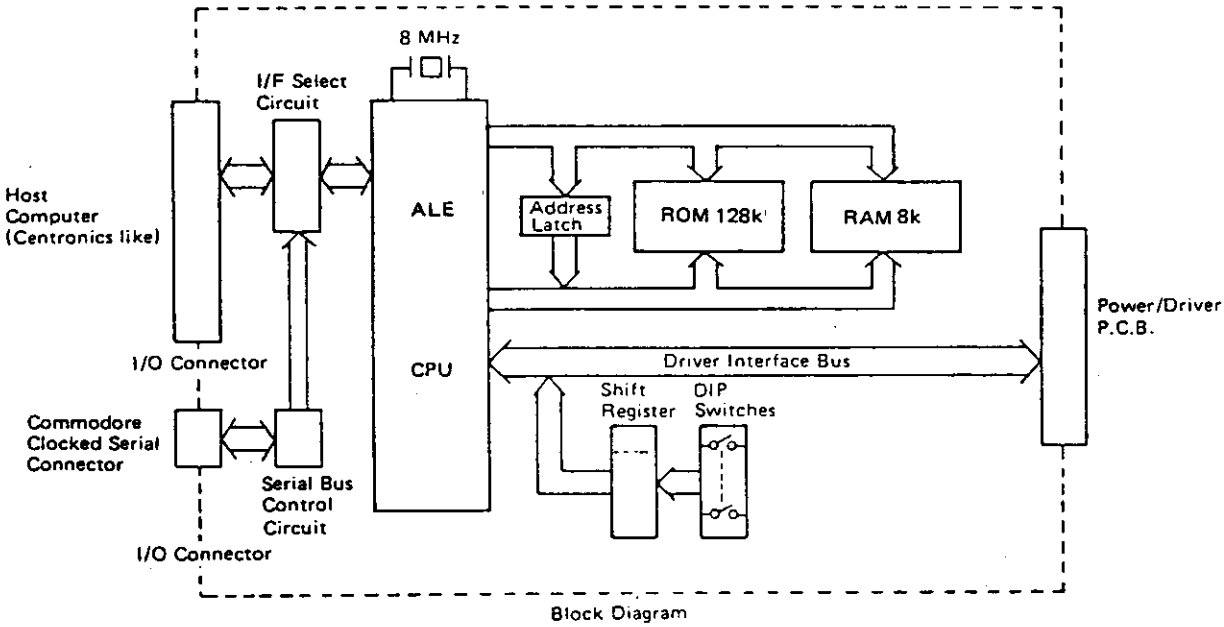



Fig. 1

A block diagram for the parallel and serial BIP is shown in Fig. 1. For interface, either Centronics parallel or Commodore serial can be selected by the DIP switches on the Interface Board. Parallel data of 8 bits (*DATA1 to *DATA8) is input via the I/O connector. Strobe signal (*DSTB) is also input together with the data.

At input of the strobe signal, BUSY signal becomes HIGH and *DATA1 to *DATA8 will be stored inside. When CPU finishes processing the data, BUSY signal becomes LOW again and inputting of data is enabled.

Serial data from the host computer is input through TTL level and converted to parallel data in the serial bus control circuit.

The CPU takes in the data when transferring of 1 byte is completed.

Printing is started if the data input reaches one line or print start command code such as LF code, CR code, etc. is received.

This unit is controlled by an 8-bit one-chip microcomputer. The clock of CPU is 8 MHZ and instructions will be executed with a minimum unit of 1 $\mu$S. The CPU has 36 I/O ports and they are assigned to interface lines for host CPU and interface bus with Power/DriverPCB.

In addition, the CPU has six independent timers and each of them is used to control printing timing, stepping motor driving timing, print head current flowing time, etc.
As the memory, ROM of 128 kilobytes and RAM of 8 kilobytes are provided as standard and the lower 8 bits of address bus are the ones which are generated by latching the multiplexed data bus with ALE signal.

o Connection to Power/Driver. PCB will be done by the driver interface bus and this bus consists of the following control lines.
    - Clocked serial data bus
    - Stepping motor voltage control line
    - Operation panel control line
    - Sensors input signal line
    - Master reset signal line

    Phase data of stepping motor and printing data of print head are transmitted to Power/Driver PCB at high speed via the above-mentioned clocked serial data bus. Moreover, the data of DIP switches becomes serial data by means of a shift register and it is taken to CPU by the clocked serial data bus.

## 2. Parallel Interface Specifications

### (1) Specifications

Data Transmitting Type : 8 bit Parallel
Synchronizing Method : By externally supplied strobe
Handshake : By *ACK or BUSY
Logic Level : TTL compatible

### (2) Pin No. and signal name

- Parallel Specifications (CN12)

| PIN No. | RETURN PIN No. | Signal name | PIN No. | RETURN PIN No. | Signal name |
|---|---|---|---|---|---|
| 1 | 19 | *DSTB | 16 | – | 0 V |
| 2 | 20 | *DATA1 | 17 | – | FRAME GND |
| 3 | 21 | *DATA2 | | | |
| 4 | 22 | *DATA3 | 18 | – | +5 V |
| 5 | 23 | *DATA4 | | | |
| 6 | 24 | *DATA5 | 19 ~ 30 | – | TWIST PAIR GND |
| 7 | 25 | *DATA6 | | | |
| 8 | 26 | *DATA7 | 31 | – | *PRIME |
| 9 | 27 | *DATA8 | | | |
| 10 | 28 | *ACK | 32 | – | *FAULT |
| 11 | 29 | BUSY | 33 | – | GND |
| 12 | 30 | PE | 34 | – | NC |
| 13 | – | SLECT | 35 | – | *FUSE (Note 1) |
| 14 | – | *AFXT | 36 | – | *SLCT IN |
| 15 | – | NC | | | |

(Note 1) *FUSE is connected to +5 V via a 3.3 KΩ resistor.

(3) **Description about interface signals of CN12**

- *DSTB: Synchronized pulse of parallel data. The pulse width of this signal must be more than 0.5μS at the receiving end.
- *DATA1 to *DATA8: The parallel 8-bit data sent from the host CPU. High level for a logical 1 and LOW level for a logical 0.
- *ACK: Data demanding signal sent from the printer to the host CPU. The pulse width is approximately 5 μS. This is a strobe sent out when the printer goes to READY state.
- BUSY: HIGH level indicates a "printer busy" status to the host CPU. Data sent during BUSY state may not be guaranteed. When this signal goes to LOW level, the printer is in READY condition.
  BUSY conditions are as follows:
  a. During data receive time
  b. OFF LINE
  c. In an alarm condition
- PE: Goes to HIGH level when paper runs out. In paper out status, the printer is automatically set to OFF LINE. It cannot be reset to ON LINE status until new paper is inserted.
- SLECT: Connected to +5V via a 3.3 KΩ resistor.
- *AFXT (*AUTO FEED XT): When this signal is set to LOW level, one line is automatically fed after printed by CR code.
- *PRIME (*INIT): Printer initializing signal. When this signals is set to LOW level, that indicates the printer is in the same condition as power on. The contents of the print buffer are cleared. The pulse width of this signal must be more than 50 μS at the receiving end.
- *FAULT (ERROR): When this signal is in LOW level, the printer is in one of the following three conditions:
  a. Paper Out
  b. OFF LINE
  c. Printer Error
  Printer error conditions are as follows:
  - Home position sensor cannot be detected by moving the print head at power on.
  - During printing, collation of the current address and the home position sensor did not match.
- *SLCT IN: When this signal is in LOW level, the printer is selected.

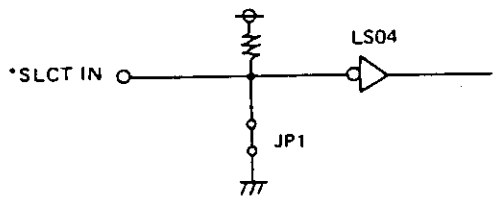



Fig. 2

Since the signal *SLCT IN has the circuitry shown in Fig. 2, caution should be paid to the connection on the HOST side. Driving with TTC IC may cause damage.

- +5 V: Power supply of +5 V. This line must not be used at the HOST side. If used, the printer may be damaged.

The timing chart for data-input is shown in Fig.3.

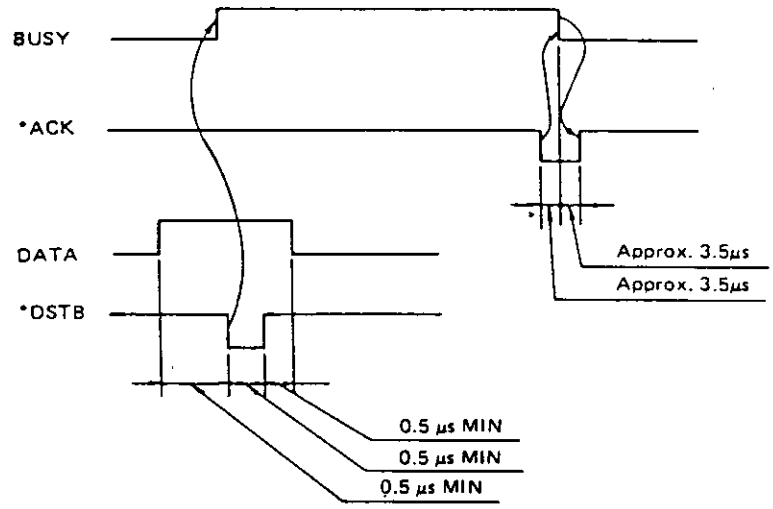



Fig. 3. Timing Chart

## 3. Serial Interface Specifications

### (1) Specifications

| | | |
|---|---|---|
| Interface | : | Commodore Serial Bus (Clocked serial) |
| Word Length | : | 8-bit fixed |
| Signal Level | : | TTL |

### (2) Pin No. and signal name

- Serial Specifications (CN13)

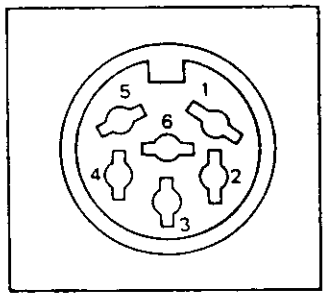



Fig. 2

Table 1

| Pin No. | Signal | In/Out |
|---|---|---|
| 1 | SERIAL *SRQ | – |
| 2 | GND | – |
| 3 | SERIAL ATN | In |
| 4 | SERIAL CLK | In |
| 5 | SERIAL DATA | In/Out |
| 6 | *RESET | In |

Note 1: Pin No. 1 SERIAL *SRQ is not connected to this unit.

Note 2: The signal marked with an asterisk * is designated as Active-Low.

Note 3: The column "In/Out" refers to the direction of signal flow as viewed from the printer.

### (3) Description about interface signals of CN13

- SERIAL *RSQ (SERIAL Service Request): Interrupt request to the host computer. Not used for this unit.
- SERIAL ATN (SERIAL Attention): When this signal is in LOW level, the transferred data is designated as device function (device address or secondary address command) and when it is in HIGH level, the data is designated as a normal one.
- SERIAL CLK: A clock signal for data transfer. All the data are transferred with synchronization of this clock.
  Moreover, prior to transferring data, this signal line becomes HIGH level to indicate that the unit is ready for transmission.

- SERIAL DATA: The data is transmitted onto this signal line with syhchronization of SERIAL CLK. The data is established at the rise edge of SERIAL CLK. Moreover, after data transfer, the receiving side sets this signal line to LOW level to indicate that the data is received. This goes to HIGH level when the data is taken in.
- *RESET: When this signal becomes LOW level, master reset is performed on the printer.

(4) Data transfer sequence

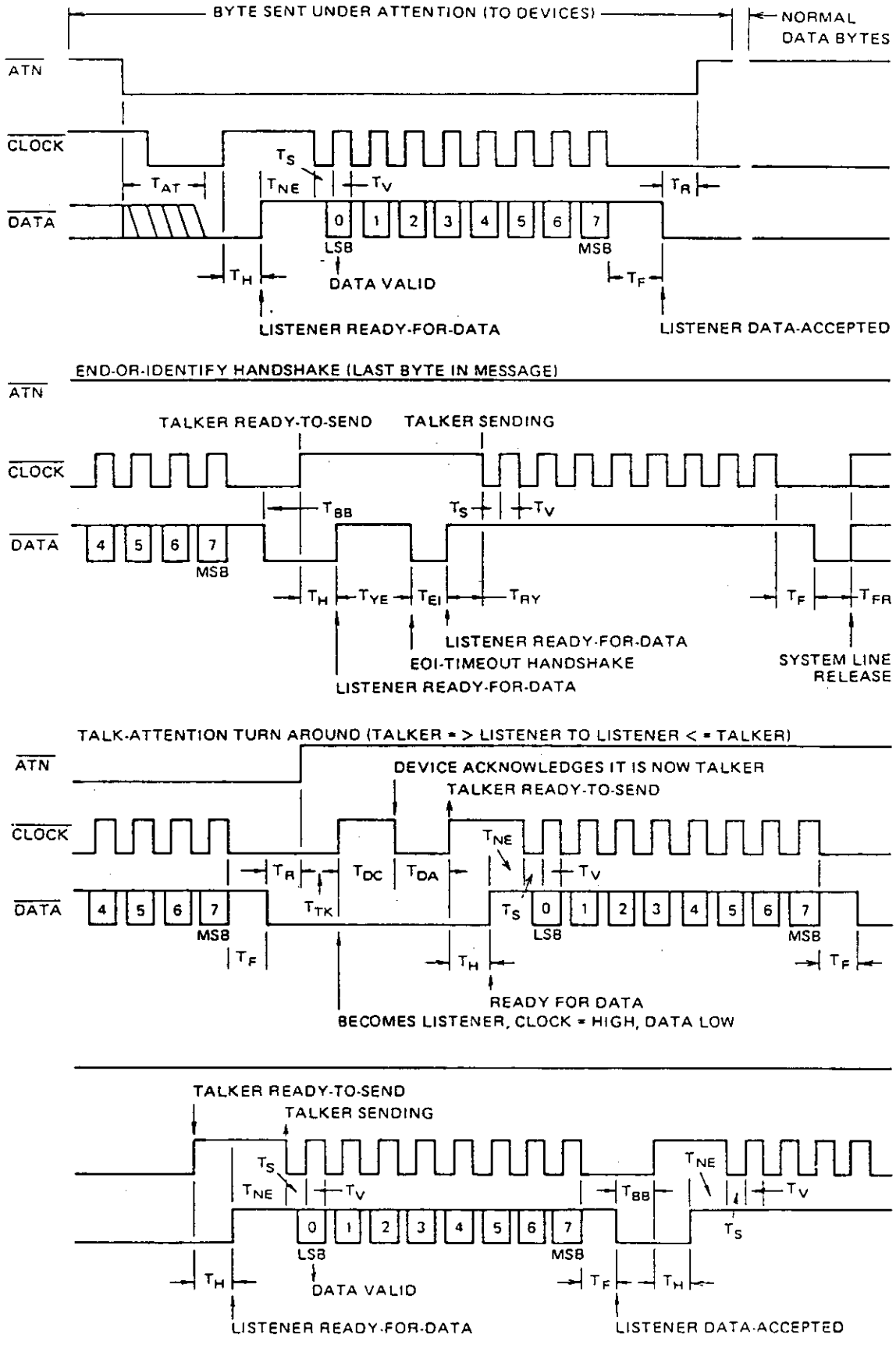


Table 2. Serial Bus Timing

| Description | Symbol | Min. | Typ. | Max. |
|---|---|---|---|---|
| ATN RESPONSE (REQUIRED)[1] | $T_{AT}$ | – | – | 1000 μs |
| LISTENER HOLD OFF | $T_H$ | 0 | – | ∞ |
| NON-EOI RESPONSE TO RFD[2] | $T_{NE}$ | – | 40 μs | 200 μs |
| BIT SET-UP TALKER[4] | $T_S$ | 20 μs | 70 μs | – |
| DATA VALID | $T_V$ | 20 μs | 20 μs | – |
| FRAME HANDSHAKE[3] | $T_F$ | 0 | 20 μs | 1000 μs |
| FRAME TO RELEASE OF ATN | $T_R$ | 20 μs | – | – |
| BETWEEN BYTES TIME | $T_{BB}$ | – | – | – |
| EOI RESPONSE TIME | $T_{YE}$ | – | 256 μs | – |
| EOI RESPONSE HOLD TIME | $T_{EI}$ | 60 μs | – | – |
| TALKER RESPONSE LIMIT | $T_{RY}$ | 0 | 30 μs | 60 μs |
| BYTE-ACKNOWLEDGE[4] | $T_{PR}$ | 20 μs | 30 μs | – |

Notes:

1. If maximum time exceeded, device not present error.
2. If maximum time exceeded, EOI response required
3. If maximum time exceeded, frame error.
4. $T_Y$ and $T_{PR}$ minimum must be 60 μs for external device to be a talker.

## 4. Specification Setting DIP Switches

### 4-1. Serial Interface Mode (SW1-1 OFF)

#### 4-1-1. Setting of SW1

| SW No. | Function | OFF | ON | Factory Setting |
|---|---|---|---|---|
| 1-1 | Interface Select | Serial | Parallel | OFF |
| 1-2 | ASCII Translation | PET ASCII | ASCII | OFF |
| 1-3 | Control Code Mode | Commodore | Epson | OFF |
| 1-4 | NLQ/Draft | Draft | NLQ | OFF |
| 1-5 | Device Select | 4 | 5 | OFF |
| 1-6 | Paper End Detector | Enable | Disable | OFF |
| 1-7 | Auto Line Feed* | Disable | Enable | OFF |
| 1-8 | Normal/Compressed | Normal | Compressed | OFF |

* Valid only when SW1-3 is "ON" Ignore if SW1-3 is "OFF".

#### 4-1-2. Setting of SW2

| Switch | Function | OFF ON | Factory Setting |
|---|---|---|---|
| 2-1 | Select | See Below | OFF |
| 2-2 | International | | OFF |
| 2-3 | Character Set | | OFF |
| 2-4 | Unused | – – | OFF |

| COUNTRY | SW2-1 | SW2-2 | SW2-3 |
|---|---|---|---|
| USA/UK/Netherlands | OFF | OFF | OFF |
| Denmark/Norway | OFF | OFF | ON |
| Sweden/Finland | OFF | ON | OFF |
| Germany | OFF | ON | ON |
| France/Belgium | ON | OFF | OFF |
| Italy | ON | OFF | ON |
| Switzerland | ON | ON | OFF |
| Spain | ON | ON | ON |

4-2. **Parallel Interface Mode (SW1-1 ON)**

Note) Setting of SW2-1 through SW2-4 is unavailable.

4-3. **Switches SW1-1, 2 means the following:**

| SW No. | Function | ON | OFF |
|---|---|---|---|
| SW-1-1 | Interface Select | Parallel | Serial |
| SW-1-2 | Adds line feed to CR code | Enabled | Disabled |

4-4. **Switches SW1-3, 4 indicates the four operation modes according to its status:**

| SW1-4 | SW1-3 | Operation mode | Control Code |
|---|---|---|---|
| OFF | OFF | mode I | ESC/P |
| OFF | ON | mode II | |
| ON | OFF | mode III | AMIGA |
| ON | ON | mode IV | IBM-PC |

4-5. **SW1-5, 6, 7, 8 means the following according to the abovementioned operation mode:**

4-5-1. mode I

| SW No. | Function | ON | OFF |
|---|---|---|---|
| SW1-5 | Codes in columns 8th and 9th | Graphic character | Control character |
| SW1-6 | Font of zero | Zero and slash | Normal |
| SW1-7 | Print style | Correspondence quality | Draft |
| SW1-8 | Condensed mode | 17 CPI | 10 CPI |

4-5-2. mode II

| SW No. | Function | ON | OFF |
|---|---|---|---|
| SW1-5 | Selection of international character (Refer to 4-4-5.) | | |
| SW1-6 | | | |
| SW1-7 | | | |
| SW1-8 | Page length | 12 inches | 11 inches |

4-5-3. mode III

| SW No. | Function | ON | OFF |
|---|---|---|---|
| SW1-5 | 6/8 LPI | 8 LPI | 6 LPI |
| SW1-6 | FONT of ZERO | Zero and Slash | Zero |
| SW1-7 | Print Style | NLQ | Draft |
| SW1-8 | Condensed mode | 17 CPI | 10 CPI |

4-5-4. mode IV

| SW No. | Function | ON | OFF |
|---|---|---|---|
| SW1-5 | IBM character set | SET 2 | SET 1 |
| SW1-6 | 6/8 LPI | 8 LPI | 6 LPI |
| SW1-7 | IBM Denmark/ Norway Version Character Set | Enable | Disable |
| SW1-8 | Buffer-full process | No printing | Printing |

4-5-5. Selection of international character set

| mode II | | | Nation |
|---|---|---|---|
| SW7 | SW6 | SW5 | |
| OFF | OFF | OFF | USA |
| OFF | OFF | ON | FRANCE |
| OFF | ON | OFF | GERMANY |
| OFF | ON | ON | ENGLAND |
| ON | OFF | OFF | DENMARK |
| ON | OFF | ON | SWEDEN |
| ON | ON | OFF | ITALY |
| ON | ON | ON | SPAIN |

MPS 1250 (EU)

# PARTS LIST & LOCATION
# for INTERFACE PACK (PARALLEL/SERIAL)

(Y8033 SA)

PART LIST for MPS 1250 (EU)

SHEET NO. 1/4

TITLE : Interface Pack (Parallel / Serial)

REV. NO. A

| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | QTY | COMMENT | MANUFACTURER | @¥ |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | Y8033-8*** | Interface Pack | | 1 | | CPC | |
| 2 | | | Y8308-*** | PCB SA | | 1 | | CPC | |
| 3 | | | Y8208-*** | PWB | | 1 | | Eastern | |
| 4 | IC7 | 601211-47 | Y2410-102 | IC | M50734SP-L | 1 | | Mitsubishi | |
| 5 | IC5 | 601211-48 | Y2102-373 | IC | M74LS373 | 1 | | Mitsubishi Only | |
| 6 | IC1,17 | 601211-49 | Y2102-165 | IC | 74LS165 | 2 | | | |
| 7 | IC4 | 601211-50 | Y2102-368 | IC | 74LS368 | 1 | | | |
| 8 | IC6 | 601211-51 | Y2102-008 | IC | 74LS08 | 1 | | | |
| 9 | IC2 | 601211-52 | Y2101-006 | IC | M53206 (7406) | 1 | | | |
| 10 | IC3 | 601211-53 | Y2102-004 | IC | 74LS04 | 1 | | | |
| 11 | IC10 | 601211-54 | Y2102-161 | IC | 74LS161A | 1 | | | |
| 12 | IC11 | 601211-15 | Y2201-094 | IC | M4094B | 1 | | Mitsubishi | |
| 13 | IC12 | 601211-55 | Y2201-040 | IC | M4040B | 1 | | Mitsubishi | |
| 14 | IC13 | 601211-56 | Y2102-014 | IC | 74LS14 | 1 | | | |
| 15 | IC14 | 601211-57 | Y2102-244 | IC | 74LS244 | 1 | | | |
| 16 | IC15 | 601211-58 | Y2102-157 | IC | 74LS157 | 1 | | | |
| 17 | IC16 | 601211-59 | Y2102-027 | IC | 74LS27 | 1 | | | |
| 18 | IC18 | 601211-60 | Y2102-000 | IC | 74LS00 | 1 | | | |
| 19 | IC9 | 601211-18 | Y2310-312 | RAM | M5M5165P-12 or Equivalent | 1 | | Mitsubishi | |
| 20 | IC8 | | Y1190-***R | ROM (Program / C.G.) | | 1 | | | |

PART S LIST for MPS 1250 (EU)

SHEET NO. 2/4

TITLE : Interface Pack (Parallel / Serial)

REV. NO. A

| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | QTY | COMMENT | MANUFACTURER | @¥ |
|---|---|---|---|---|---|---|---|---|---|
| 1 | (IC8) | 601211-61 | Y2304-720 | EP-ROM (Blank) | μPD27C1000(200ns) | 1 | | NEC | |
| | | | | | HN27C301 | | | Hitachi | |
| | | | | | MBM27C1000 | | | Fujitsu | |
| 2 | (IC8) | 601211-62 | Y7100-132 | ROM Socket | DILB32P-8J | 1 | | Burndy | |
| | | | | | C8828-41 | | | Texas | |
| | | | | | 6418743-5 | | | AMP | |
| 3 | SW1 | 601211-63 | Y7211-008 | DIP SW | KSS08-1 | 1 | | New Ohto | |
| | | | | | SCS08A | | | Mitsumi | |
| 4 | SW2 | 601211-64 | Y7211-004 | DIP SW | KSS04 | 1 | | New Ohto | |
| | | | | | SCS04A | | | Mitsumi | |
| 5 | RN1 | 601211-65 | Y4400-332 | Res. Array | RGLD10X332J | 1 | | Murata | |
| | | | | 1/8W 3.3KΩ×10 5% | RGSD10X332J | | | Murata | |
| | | | | | SE10332J | | | Fukushima Futaba | |
| | | | | | MRNSA-11P-332J | | | Kyocera | |
| | | | | | RMLS9332J | | | Rohm | |
| 6 | RN2, 3 | 601211-66 | Y4408-332 | Res. Array | RGLD8X332J | 2 | | Murata | |
| | | | | 1/8W 3.3KΩ×8 5% | RGSD8X332J | | | Murata | |
| | | | | | SE8332J | | | Fukushima Futaba | |
| | | | | | RMLS8332J | | | Rohm | |
| | | | | | MRNSA-9P-332J | | | Kyocera | |

PARTS LIST for MPS 1250 (EU)

SHEET NO. 3/4

TITLE : Interface Pack (Parallel / Serial)

REV. NO. A

| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | Q'TY | COMMENT | MANUFACTURER | @¥ |
|---|---|---|---|---|---|---|---|---|---|
| 1 | X1 | 601211-67 | Y7403-805 | Oscillator element | KBR8.0M | 1 | | Kyocera | |
| 2 | | 601211-68 | Y8501-31* | Earth Plate | | 1 | | Kousaka | |
| 3 | RN4 | 601211-69 | Y4407-102 | Res. Array | RGLD7X102J | 1 | | Murata | |
| | | | | 1/8W 1KΩ×7 5% | RGSD7X102J | | | Murata | |
| | | | | | SE7102J | | | Fukushima Futaba | |
| | | | | | MRNSA-8P-102J | | | Kyocera | |
| | | | | | RMLS7102J | | | Rohm | |
| 4 | RN5 | 601211-70 | Y4404-332 | Res. Array | RGLD4X332J | 1 | | Murata | |
| | | | | | RGSD4X332J | | | Murata | |
| | | | | 1/8W 3.3KΩ×4 5% | SE4332J | | | Fukushima Futaba | |
| | | | | | MRNSA-4P-332J | | | Kyocera | |
| | | | | | RMLS4332J | | | Rohm | |
| 5 | R1 | 601211-71 | Y4114-105 | Res. Carbon 1/4W 1MΩ 5% | | 1 | | | |
| 6 | R2 | 601211-72 | Y4114-332 | Res. Carbon 1/4W 3.3KΩ 5% | | 1 | | | |
| 7 | C1 | 601211-73 | Y5101-101 | Cap. Electrolytic 47μF 10WV | ECEA1AU101 | 1 | | Matsushita | |
| 8 | C11 | 601211-74 | Y5802-103 | Cap. Film 0.01μF 630V | MDD22J103K | 1 | | Nittsuko | |
| 9 | C2, 3 | 601211-75 | Y5216-330 | Cap. Ceramic 33pF 50V | RT-HE50TK-CH330J | 2 | | KCK | |
| | | | | | CC45CH1H330JYR | | | TDK | |
| | | | | | DD105-989CH330J50 | | | Murata | |

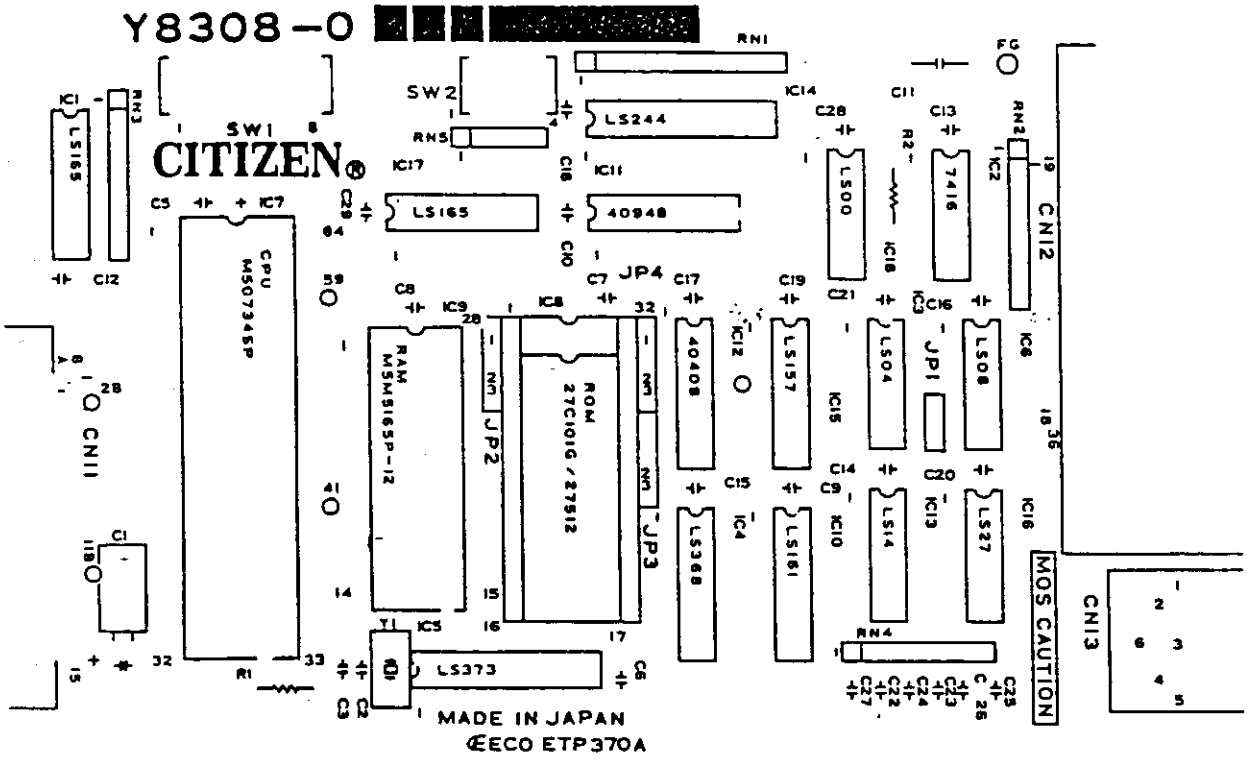
PARTS LIST for MPS 1250 (EU)

SHEET NO. 4/4

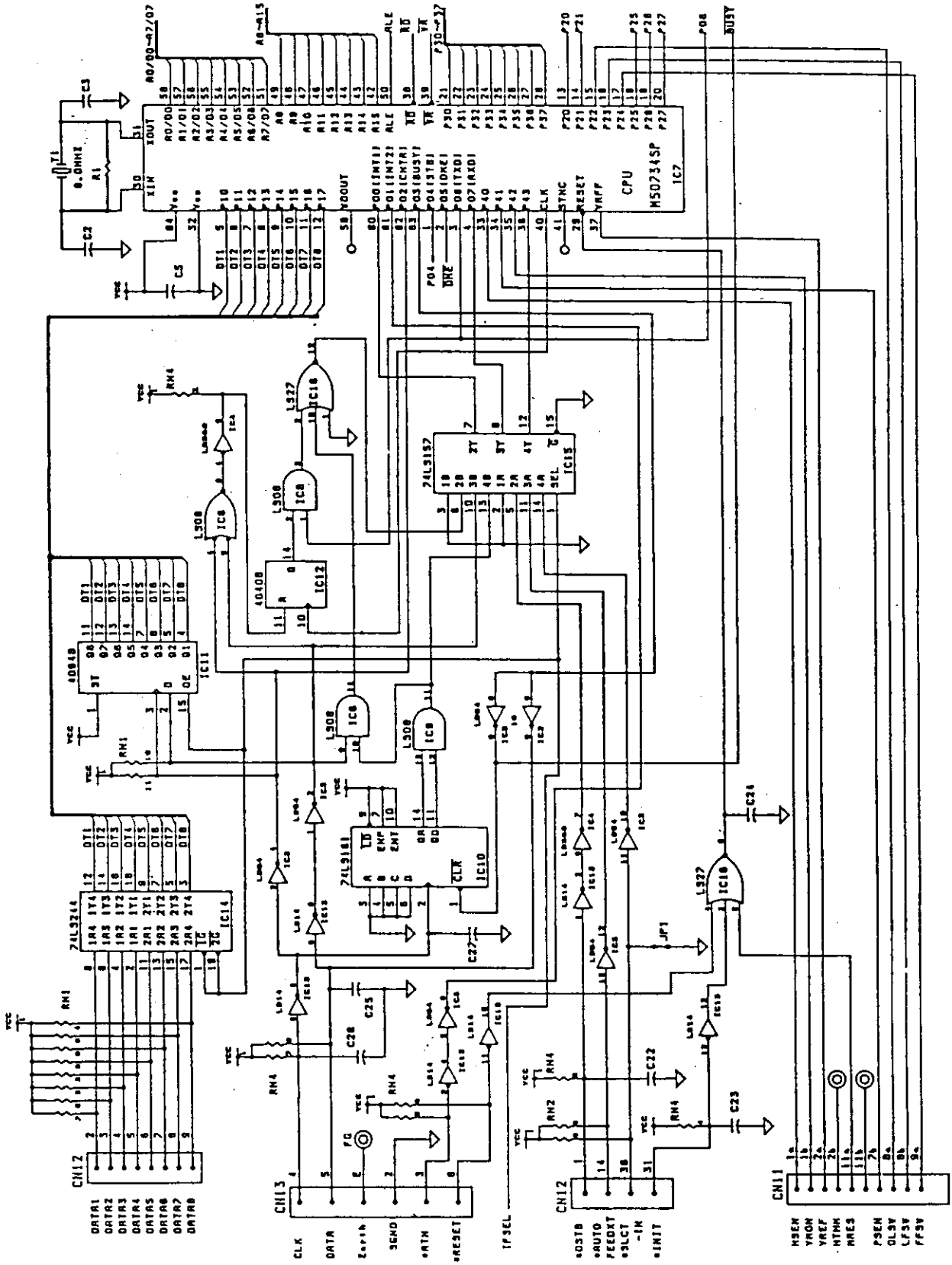
TITLE : Interface Pack (Parallel / Serial)

REV. NO. A

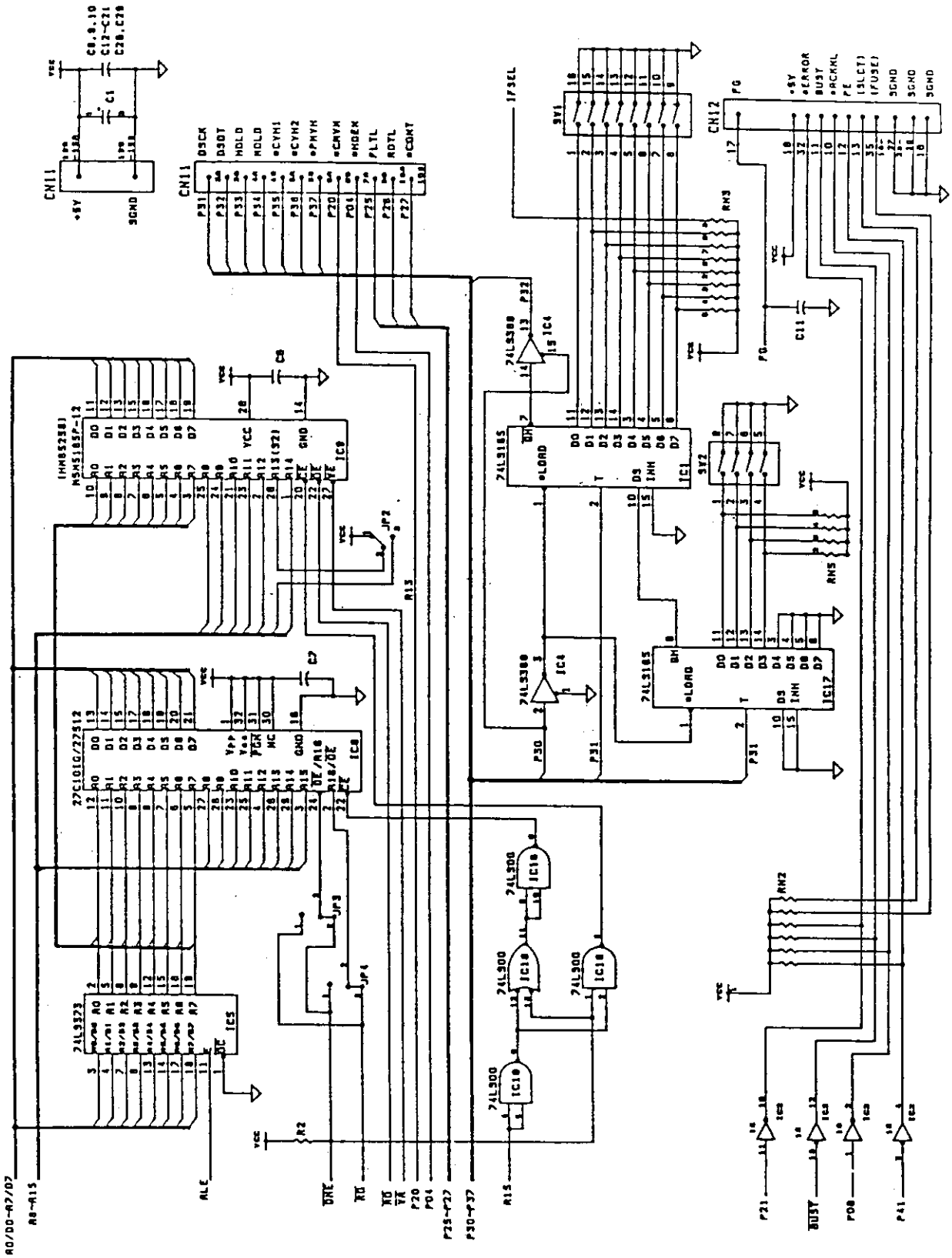
| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | Q'TY | COMMENT | MANUFACTURER | @¥ |
|---|---|---|---|---|---|---|---|---|---|
| 1 | C5~10,12~21, | 601211-76 | Y5234-103 | Cap. Ceramic 0.01μF 25V | RT-DSSC50TK- | 19 | | KCK | |
| | 24,28,29 | | | | Y5R103M | | | | |
| | | | | | SS45X1E103MYR | | | TDK | |
| | | | | | DD404-959SR103M25 | | | Murata | |
| 2 | C22, 23 | 601211-77 | Y5216-102 | Cap. Ceramic 1000pF 50V | RT-HE50TK-YB102K | 2 | | KCK | |
| | | | | | CK45B1H102KYR | | | TDK | |
| | | | | | DD104-989B102K50 | | | Murata | |
| 3 | C25,26 | 601211-78 | Y5216-101 | Cap. Ceramic 100pF 50V | RT-HE50TK-SL101J | 2 | | KCK | |
| | | | | | CC45SL1H101JYR | | | TDK | |
| | | | | | DD105-989SL101J50 | | | Murata | |
| 4 | CN11 | 601211-79 | Y6147-130 | Connector | 128D-030S2B-L14N | 1 | | DDK | |
| 5 | CN12 | 601211-80 | Y6140-136 | Connector | 57LE-40360-7700 (D3) | 1 | | DDK | |
| 6 | CN13 | 601211-81 | Y6191-506 | Connector | TCS-5040-16-4051 | 1 | | Hoshi Elec. | |
| | | | | | 150-06-30-644 | | | Mitsumi | |
| 7 | | 601211-82 | Y8503-41* | ROM Case U | | 1 | | T.K.K | |
| 8 | | 601211-83 | Y8504-41* | ROM Case L | | 1 | | T.K.K | |
| 9 | | 601211-84 | E90530-10B | (+)PH Screw (PW+SW) | M3×10 (BS-Ni) | 2 | | | |




Mounting Diagram (Basic Interface Pack)




Basic Interface Pack
MPS1250 (EUROPE)
I/F PACK (1 of 2)



Basic Interface Pack
MPS1250 (EUROPE)
I/F PACK (2 of 2)

ARTS LIST for MPS 1200 TITLE : Packaging Assembly SA NO. SHEET NO. 1/3

DRAWING NO. 1~3 REV. NO. A

| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | QTY | COMMENT | MANUFACTURER | @¥ |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 601210-00E | Y053-1006 | MPS 1200 PRINTER (UL) | | 1 | | | |
| 2 | | 601210-00D | Y053-1006 | MPS 1200 PRINTER (CSA) | | 1 | | | |
| 3 | | 601210-00A | Y063-2007 | MPS 1200 PRINTER (VDE) | | 1 | | | |
| 4 | | 601210-00B | Y063-7007 | MPS 1200 PRINTER (BSI) | | 1 | | | |
| 5 | | 601210-00F | Y063-6007 | MPS 1200 PRINTER (SEV) | | 1 | | | |
| 6 | | 601210-00C | Y063-8007 | MPS 1200 PRINTER (AUST) | | 1 | | | |
| 7 | | 601220-00A | Y063-2009 | MPS 1200P PRINTER (VDE) | | 1 | | | |
| 8 | | 601220-00B | Y063-7009 | MPS 1200P PRINTER (BSI) | | 1 | | | |
| 9 | | 601220-00F | Y063-6009 | MPS 1200P PRINTER (SEV) | | 1 | | | |
| 10 | | 601220-00C | Y063-8009 | MPS 1200P PRINTER (AUST) | | 1 | | | |
| | | 601210-00J | Y093-100C | MPS 1250 PRINTER (UL) | | 1 | | | |
| | | | Y0A3-200C | MPS 1250 PRINTER (EU) | | | | | |
| | | | Y0A3-300C | MPS 1250 PRINTER (UK) | | | | | |
| 11 | | [illegible] → 601211-21 | Y0610-21* | Master Carton | | 1 | | | |
| | | 601211-22 → | Y0610-41* | Master Carton (MPS 1250) | | 1 | | | |
| 12 | | [illegible] → 601211-23 | Y0612-21* | Indivisual Box (USA) | | 1 | | | |
| 13 | | [illegible] → 601211-24 | Y0612-22*S | Indivisual Box (Europe & UK) | | 1 | | | |
| 14 | | 601220-01 → | Y0612-22*P | Indivisual Box (1200P & UK) | | 1 | | | |
| | | 601211-25 → | Y0612-41* | Indivisual Box (MPS 1250 USA) | | 1 | | | |
| | | 601211-26 → | Y0612-42* | Indivisual Box (MPS1250EU&UK) | | | | | |

RTS LIST for MPS 1200 TITLE: Packaging Assembly SA NO. SHEET NO. 2/3

DRAWING NO. 1~3 REV. NO. A

| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | QTY | COMMENT | MANUFACTURER | @¥ |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 601211-27 | [illegible] | Y0630-21* | Sleeve | | 1 | | | |
| 6 | 601211-28 | [illegible] | Y0623-01* | Lower Pad | | 1 | | | |
| 7 | 601211-29 | [illegible] | Y0624-01* | Upper Pad | | 1 | | | |
| 8 | 601211-30 | [illegible] | Y0629-01* | Poly Bag ( for Unit) | | 1 | | | |
| 9 | 601211-31 | [illegible] | Y0627-01* | Poly Bag (for Tractor Unit) | | 1 | | | |
| 0 | 601210-92 | [illegible] | Y0815-21* | Tractor Unit | | 1 | | | |
| 1 | 601211-11 | [illegible] | Y0810-01* | Ribbon Cartridge SA | | 1 | | | |
| 2 | 601211-34 | [illegible] | Y0627-01* | Poly Bag (for Power Cord) | | 1 | | | |
| 3 | 601210-77 | [illegible] | Y6002-01* | Power Cord (UL/CSA) | | 1 | | | |
| 4 | 601210-78 | [illegible] | Y6002-21* | Power Cord (VDE) | | 1 | | | |
| 5 | 601211-36 | [illegible] | Y8110-31* | Power Cord (BSI) | | 1 | | | |
| 6 | 601211-37 | [illegible] | Y6002-61* | Power Cord (SEV) | | 1 | | | |
| 7 | 601210-80 | [illegible] | Y6002-41* | Power Cord (AUST) | | 1 | | | |
| 8 | 601211-35 | [illegible] | Y0625-01* | Poly Bag (for Insertion Plate) | | 1 | | | |
| 9 | 601211-38 | [illegible] | Y0813-01* | Insertion Plate | | 1 | | | |
| 0 | 601211-40 | [illegible] | Y99760-15* | User's Manual (USA) | | 1 | | | |
| 1 | 601211-41 | [illegible] | Y99760-17* | User's Manual (Europe) | | 1 | | | |
| 2 | | 601220-02 | | User's Manual (1200P) | | 1 | | | |
| | 601211-39 | | Y99760-20* | User's Manual (MPS 1250) | | 1 | | | |
| 3 | 601211-42 | [illegible] | Y99651-13* | Warranty Card (USA) | | 1 | | | |

PART'S LIST for MPS 1200 | TITLE: Packaging Assembly | SA NO. | SHEET NO. 3/3

DRAWING NO. 1~3 | REV. NO. A

| ITEM NO | LOCATION | COMMODORE PARTS NO | VENDOR PARTS NO | PARTS NAME | TYPE | QTY | COMMENT | MANUFACTURER | @* |
|---|---|---|---|---|---|---|---|---|---|
| 34 | 601211-43 | [illegible] | Y99651-15* | Read This First Sheet | | 1 | | | |
| 35 | 601211-44 | [illegible] | Y99651-14* | Service Center List | | 1 | | | |
| 36 | 601211-45 | [illegible] | | Warranty Pack (UK) | | 1 | | | |
| 37 | 601211-46 | [illegible] | | Warranty Card (Australia) | | 1 | | | |

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