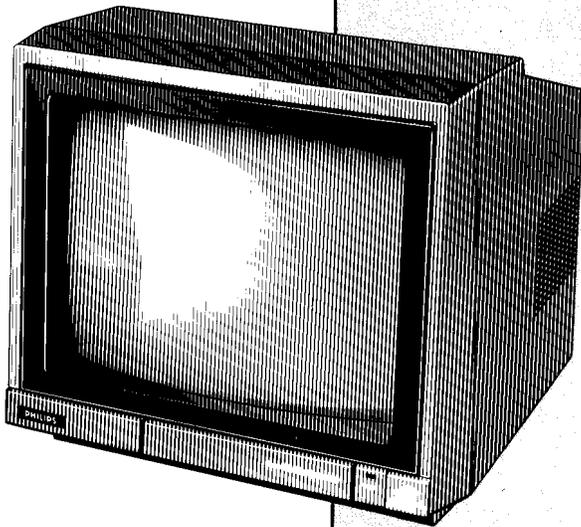


PHILIPS

COLOUR MONITOR



INSTRUCTION MANUAL
INSTRUKTIONSHANDBUCH
MANUEL D'INSTRUCTIONS
INSTRUKTIEBOEK
MANUALE D'ISTRUZIONE
MANUAL DE INSTRUCCIONES

VS 0060/00
VS 0080/00

PHILIPS



Scanned and converted to PDF by HansO, 2003

Introduction

This is a modern colour monitor specifically designed for use as a graphic and alphanumerical screen with Philips MSX computers.

This monitor is of course also suitable for use with every other home or personal computer which has a CVBS or RGB linear output.

The monitor's range of applications can be increased by using it, e.g. with a TV tuner, a video camera, a VCR or VLP.

Using monitor type VS 0060/00, 64 characters per line can be reproduced, while type VS 0080/00 permits reproduction of 80 characters per line.

The monitor is fitted with a 'green switch', which gives reproduction of the picture in green. This can be used whenever the monitor is employed for word processing.

Especially for UK

Service for you

Your monitor has been designed and manufactured to the highest standards, and subject to rigorous testing. Provided it is properly operated and maintained it will perform well for many years. However, we all know that in such complex equipment components can sometimes fail.

The legal responsibility for meeting any in-guarantee service needs for your monitor rests with the dealer from whom you bought it. Our own Service Division - Philips Service - provides your dealer with comprehensive technical advice, and distributes approved spare parts from Service Centres throughout the country (see last page).

If your dealer has no service facilities, he can arrange for any work to be carried out by a competent third party organisation. In any event you may expect speedy attention to restore your set to full working order without delay.

Free service for 12 months:

The dealer from whom the monitor was purchased will arrange for any defect in

manufacture or material to be rectified without charge for a period of 12 months from the date of initial consumer sale provided:

(1) reasonable evidence is supplied that the monitor was purchased within 12 months prior to the date of the claim.
(2) the defect is not due to use of the monitor on an incorrect voltage or contrary to the Company's Operating Instructions or to accidental damage (whether in transit or otherwise); misuse; neglect; unauthorised or inexpert modification, or repair.

The picture tube of your monitor is separately guaranteed for 12 months by Philips Service.

Service after 12 months:

Continuing service after 12 months is available in the same way but the service will be chargeable.

These statements do not affect your statutory rights as a consumer.

Connection to the mains

Your new monitor is designed to operate from an a.c. mains supply of 220-240 volts, 50 Hz. Stabilising circuits ensure satisfactory performance within normal supply variations.

IMPORTANT: This apparatus must be earthed. This can be achieved by fitting a 3 pin plug. The wires in the mains lead are coloured according to the following code:

| | |
|--------------|-----------|
| BLUE | = NEUTRAL |
| BROWN | = LIVE |
| GREEN/YELLOW | = EARTH |

If the mains plug (or adaptor) contains a fuse, the value of this fuse should be 3 Amp. Alternatively, if another type of plug (not fused) is used, the fuse at the distribution board should not be greater than 5 Amp.

If the colours of the wires in the mains lead do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows . . .

The BLUE wire should be connected to the terminal marked 'N' or coloured black. The BROWN wire should be connected to the terminal marked 'L' or coloured red.

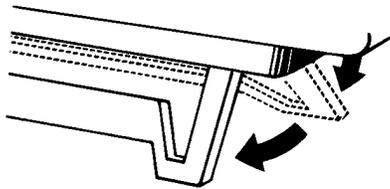
The GREEN and YELLOW wire must be connected to the terminal in the plug marked by 'E' or the earth symbol \perp , or coloured green or green and yellow. Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the three wires.

Positioning/Ventilation

In order to prevent overheating, ensure that the ventilation openings in the monitor are not covered.

The monitor should not be placed near a source of heat nor on a soft surface since this would block the ventilation slots on the bottom.

Movable support



You can tilt the monitor into a convenient position with regard to the computer by using the movable support.

It is also possible to fit the monitor with a type SBC 482 pedestal. This is available from your monitor dealer.

The pedestal enables you to place the monitor into a convenient position by tilting and/or turning the monitor.

Connection to the mains

You can connect your monitor to a mains voltage of between 220 and 240 V. If the mains voltage in your home is different from this, consult your dealer.

Connecting the computer

The monitor is fitted with two Phono sockets for audio and video (CVBS) input. In addition to this, the monitor is fitted with a Euroconnector. See the Euroconnector specifications for the connections.

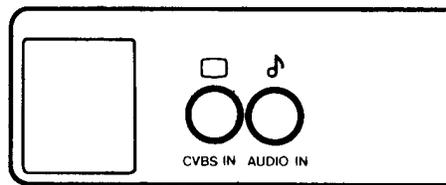
Connection cable type AV 7117 0001 is supplied with monitor VS 0060/00.

Using this cable the Phono socket on the monitor can be connected to the DIN socket on the Philips MSX computer.

A connection cable type AV 7120 0001 is supplied with monitor VS 0080/00. Using this cable the Euroconnector socket on the monitor can be linked to the Euroconnector socket on your Philips MSX-2 computer.

In most cases when you wish to connect your monitor with a different home or personal computer it will not be possible to use the connection cable supplied. Connection cables for most types of home or personal computers are available from your monitor dealer.

Connections (rear panel)



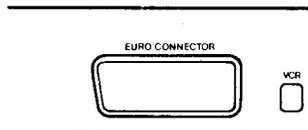
CVBS IN (Phono type) □

CVBS input (composite signal) of the Phono plug type.

For connection of a computer or other CVBS sources.

AUDIO IN (Phono type) ♪

For connection of a signal source with a sound (audio) signal output.



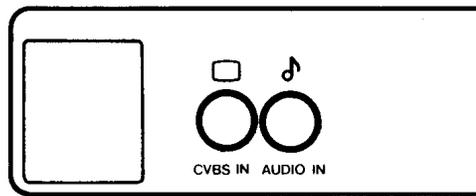
CVBS + RGB linear + Audio input + Status RGB (Euroconnector type)

For connection of a Video Recorder, Computer, LaserVision Player, TV Tuner, etc. equipped with a Euroconnector.

Remarks:

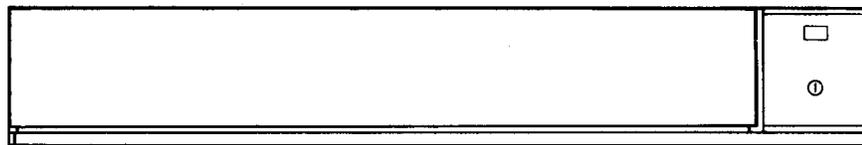
It is not possible to connect two video sources to the monitor simultaneously because this will result in interference in the picture.

TV Tuner



A Philips TV Tuner (AV 7300) can be connected to the CVBS IN and AUDIO IN sockets. Your monitor can now be used as a TV set.

Operation



Switching on ①

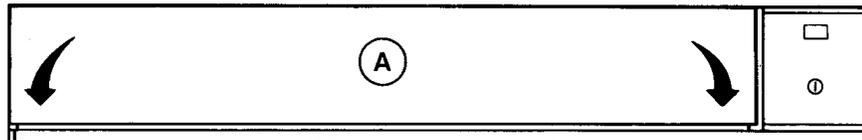
- Press button ① (LED lights up).

Switching off ①

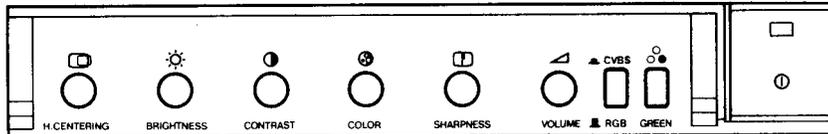
- Press button ① again.

Picture and sound controls

For an optimum adjustment of the video and audio input signals various controls are available.



- Open flap ①.

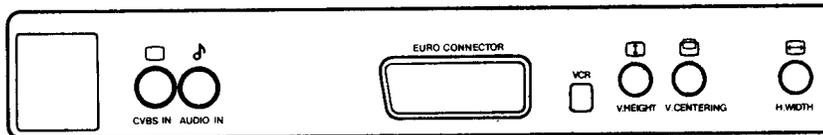


- The image may be positioned horizontally with knob .
- Adjust brightness with knob .
- Adjust contrast with knob .
- Adjust saturation of colour with knob  (not with connected RGB sources).
- Adjust sharpness with knob  (not with connected RGB sources).
- Adjust volume with knob .
- With button  you can switch to green letters (used with word processing).

CVBS/RGB switch

By using the CVBS/RGB switch  the monitor can be set to reproduce the CVBS signal (TV Tuner, video camera or video recorder), or the RGB signal (computer). If the video signal is derived from a video source which also supplies the status RGB signal (fast blanking), then switch  must be set to the CVBS position .

Controls (rear panel)



VCR button

- If you use your monitor as display for your Video Recorder or VLP press button 'VCR' to adjust the picture.
- In case a TV Tuner is connected this button should be released.

V.Height

- You can adjust the image height with knob .

V.Centering

- The image may be positioned vertically with knob .

H.Width

- The image width can be adjusted with knob .

Technical specifications*

| | |
|-------------------------|---|
| Picture tube VS 0060/00 | : 14 inch, in-line slotted, pitch 0.65 mm, dark screen |
| Picture tube VS 0080/00 | : 14 inch, in-line slotted, pitch 0.42 mm, etched, dark screen |
| Deflection | : 90° |

Monitor input signals on Phono type connection socket

| | |
|--|---|
| 1) Composite video signal with negative synchronisation | : (1 V \pm 0.5 Vpp). Impedance: 75 Ohm |
| 2) Audio signal | : (150 mV - 2 Veff). Impedance: 10 kOhm |

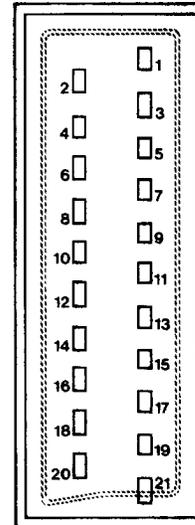
Monitor input socket for RGB signal

| | |
|------------------------|--|
| Euroconnector | : RGB linear (see specification) |
| Resolution VS 0060/00 | : 390 lines in centre, RGB position |
| Resolution VS 0080/00 | : 600 lines in centre, RGB position |
| Characters VS 0060/00 | : > 1600 characters (64 x 25), RGB position |
| Characters VS 0080/00 | : > 2000 characters (80 x 25), RGB position |
| Raster frequency | : 50/60 Hz |
| Line frequency | : 15625 Hz |
| Sound output | : 1 W - 5% distortion |
| Mains voltage | : 230 V \pm 15% |
| Power consumption | : 75 W typ. |
| Dimensions (h x w x d) | : 320 x 350 x 387 mm |
| Weight | : 11 kg |

* This data may be changed without notice.

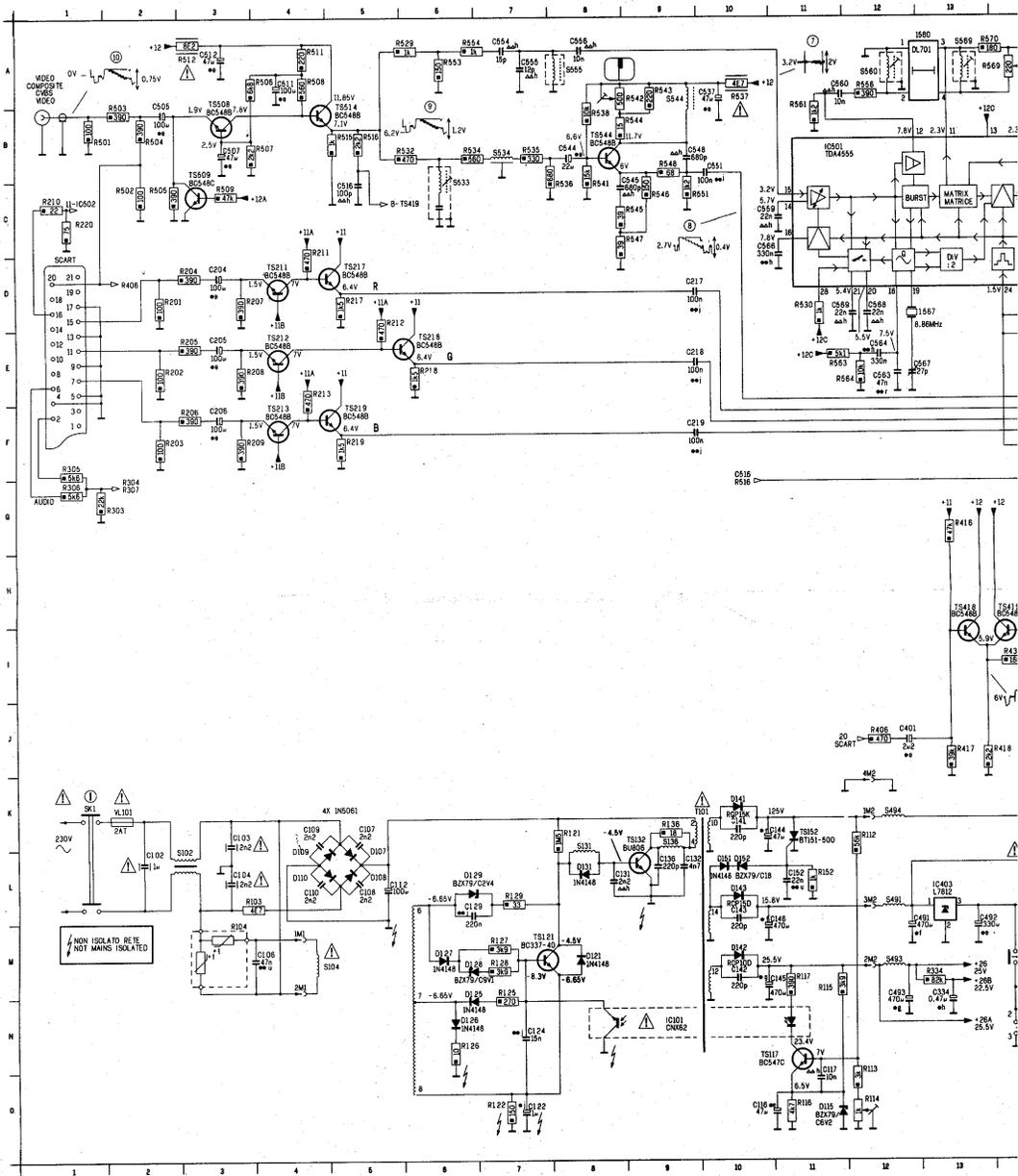
The specification of the Euroconnector is as follows:

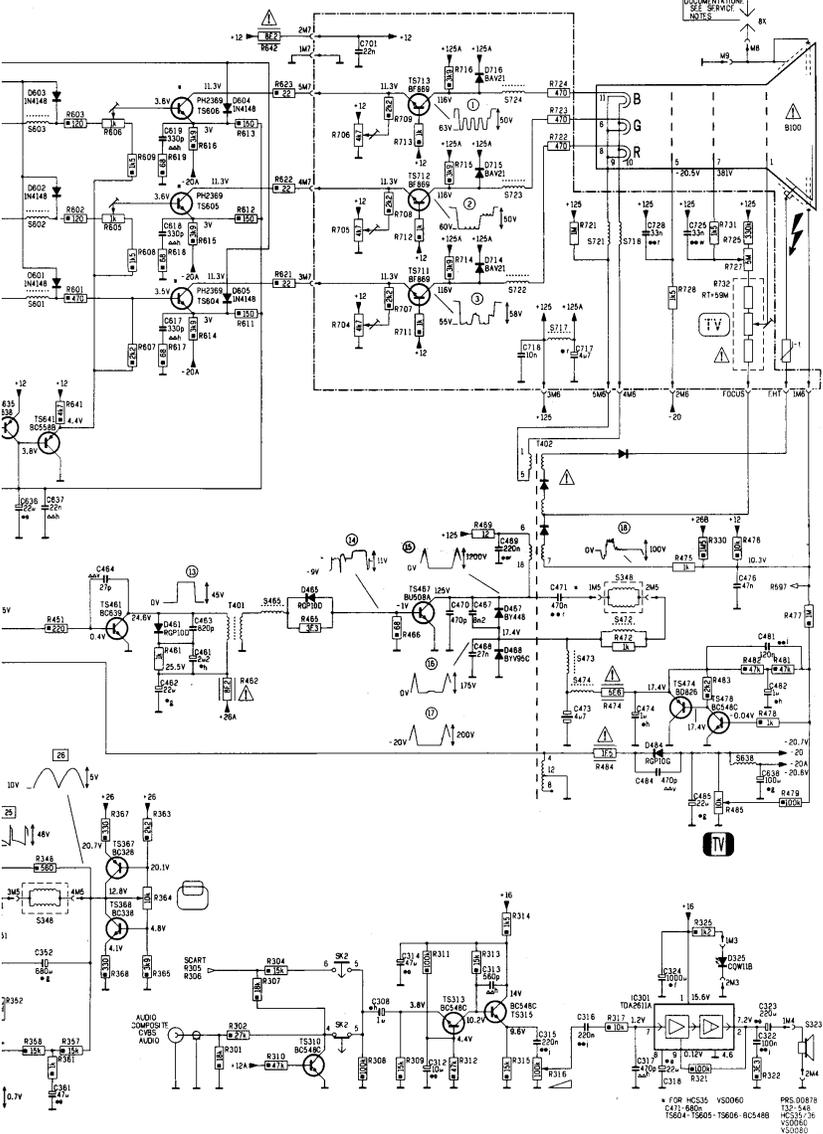
| Pin | | |
|-----|-----------------------------------|--------------------|
| 1 | | |
| 2 | audio input | 0.5 Vrms/ > 10 kΩ |
| 3 | | |
| 4 | earth connection for audio | |
| 5 | earth connection B input | |
| 6 | audio input | 0.5 Vrms/ > 10 kΩ |
| 7 | B input | 0.7 Vpp/75 Ω |
| 8 | | |
| 9 | earth connection G input | |
| 10 | | |
| 11 | G input | 0.7 Vpp/75 Ω |
| 12 | | |
| 13 | earth connection R input | |
| 14 | | |
| 15 | R input | 0.7 Vpp/75 Ω |
| 16 | status RGB signal (fast blanking) | 0-0.4 V/1-3 V/75 Ω |
| 17 | earth connection CVBS | |
| 18 | fast blanking earth | |
| 19 | | |
| 20 | CVBS input | 1 Vpp/75 Ω |
| 21 | screening plug | |



General

- If the picture is not as desired, check whether all controls are in the correct position.
- The rear panel should only be removed by a service technician.
- If necessary, clean with a damp sponge. Do not use alcohol, spirits or ammonia.





| | | | | | | | |
|------|------|------|-----|------|------|------|-----|
| 1560 | R13 | D125 | M 6 | R441 | D17 | R728 | L35 |
| 1561 | D13 | D126 | M 6 | R442 | D18 | R731 | L35 |
| 1562 | L 2 | D127 | M 6 | R443 | D19 | R732 | L35 |
| 1563 | R3 | D128 | M 6 | R444 | D20 | R733 | L35 |
| 1564 | L 3 | D129 | M 6 | R445 | D21 | R734 | L35 |
| 1565 | R4 | D130 | M 6 | R446 | D22 | R735 | L35 |
| 1566 | L 4 | D131 | M 6 | R447 | D23 | R736 | L35 |
| 1567 | R5 | D132 | M 6 | R448 | D24 | R737 | L35 |
| 1568 | L 5 | D133 | M 6 | R449 | D25 | R738 | L35 |
| 1569 | R6 | D134 | M 6 | R450 | D26 | R739 | L35 |
| 1570 | L 6 | D135 | M 6 | R451 | D27 | R740 | L35 |
| 1571 | R7 | D136 | M 6 | R452 | D28 | R741 | L35 |
| 1572 | L 7 | D137 | M 6 | R453 | D29 | R742 | L35 |
| 1573 | R8 | D138 | M 6 | R454 | D30 | R743 | L35 |
| 1574 | L 8 | D139 | M 6 | R455 | D31 | R744 | L35 |
| 1575 | R9 | D140 | M 6 | R456 | D32 | R745 | L35 |
| 1576 | L 9 | D141 | M 6 | R457 | D33 | R746 | L35 |
| 1577 | R10 | D142 | M 6 | R458 | D34 | R747 | L35 |
| 1578 | L 10 | D143 | M 6 | R459 | D35 | R748 | L35 |
| 1579 | R11 | D144 | M 6 | R460 | D36 | R749 | L35 |
| 1580 | L 11 | D145 | M 6 | R461 | D37 | R750 | L35 |
| 1581 | R12 | D146 | M 6 | R462 | D38 | R751 | L35 |
| 1582 | L 12 | D147 | M 6 | R463 | D39 | R752 | L35 |
| 1583 | R13 | D148 | M 6 | R464 | D40 | R753 | L35 |
| 1584 | L 13 | D149 | M 6 | R465 | D41 | R754 | L35 |
| 1585 | R14 | D150 | M 6 | R466 | D42 | R755 | L35 |
| 1586 | L 14 | D151 | M 6 | R467 | D43 | R756 | L35 |
| 1587 | R15 | D152 | M 6 | R468 | D44 | R757 | L35 |
| 1588 | L 15 | D153 | M 6 | R469 | D45 | R758 | L35 |
| 1589 | R16 | D154 | M 6 | R470 | D46 | R759 | L35 |
| 1590 | L 16 | D155 | M 6 | R471 | D47 | R760 | L35 |
| 1591 | R17 | D156 | M 6 | R472 | D48 | R761 | L35 |
| 1592 | L 17 | D157 | M 6 | R473 | D49 | R762 | L35 |
| 1593 | R18 | D158 | M 6 | R474 | D50 | R763 | L35 |
| 1594 | L 18 | D159 | M 6 | R475 | D51 | R764 | L35 |
| 1595 | R19 | D160 | M 6 | R476 | D52 | R765 | L35 |
| 1596 | L 19 | D161 | M 6 | R477 | D53 | R766 | L35 |
| 1597 | R20 | D162 | M 6 | R478 | D54 | R767 | L35 |
| 1598 | L 20 | D163 | M 6 | R479 | D55 | R768 | L35 |
| 1599 | R21 | D164 | M 6 | R480 | D56 | R769 | L35 |
| 1600 | L 21 | D165 | M 6 | R481 | D57 | R770 | L35 |
| 1601 | R22 | D166 | M 6 | R482 | D58 | R771 | L35 |
| 1602 | L 22 | D167 | M 6 | R483 | D59 | R772 | L35 |
| 1603 | R23 | D168 | M 6 | R484 | D60 | R773 | L35 |
| 1604 | L 23 | D169 | M 6 | R485 | D61 | R774 | L35 |
| 1605 | R24 | D170 | M 6 | R486 | D62 | R775 | L35 |
| 1606 | L 24 | D171 | M 6 | R487 | D63 | R776 | L35 |
| 1607 | R25 | D172 | M 6 | R488 | D64 | R777 | L35 |
| 1608 | L 25 | D173 | M 6 | R489 | D65 | R778 | L35 |
| 1609 | R26 | D174 | M 6 | R490 | D66 | R779 | L35 |
| 1610 | L 26 | D175 | M 6 | R491 | D67 | R780 | L35 |
| 1611 | R27 | D176 | M 6 | R492 | D68 | R781 | L35 |
| 1612 | L 27 | D177 | M 6 | R493 | D69 | R782 | L35 |
| 1613 | R28 | D178 | M 6 | R494 | D70 | R783 | L35 |
| 1614 | L 28 | D179 | M 6 | R495 | D71 | R784 | L35 |
| 1615 | R29 | D180 | M 6 | R496 | D72 | R785 | L35 |
| 1616 | L 29 | D181 | M 6 | R497 | D73 | R786 | L35 |
| 1617 | R30 | D182 | M 6 | R498 | D74 | R787 | L35 |
| 1618 | L 30 | D183 | M 6 | R499 | D75 | R788 | L35 |
| 1619 | R31 | D184 | M 6 | R500 | D76 | R789 | L35 |
| 1620 | L 31 | D185 | M 6 | R501 | D77 | R790 | L35 |
| 1621 | R32 | D186 | M 6 | R502 | D78 | R791 | L35 |
| 1622 | L 32 | D187 | M 6 | R503 | D79 | R792 | L35 |
| 1623 | R33 | D188 | M 6 | R504 | D80 | R793 | L35 |
| 1624 | L 33 | D189 | M 6 | R505 | D81 | R794 | L35 |
| 1625 | R34 | D190 | M 6 | R506 | D82 | R795 | L35 |
| 1626 | L 34 | D191 | M 6 | R507 | D83 | R796 | L35 |
| 1627 | R35 | D192 | M 6 | R508 | D84 | R797 | L35 |
| 1628 | L 35 | D193 | M 6 | R509 | D85 | R798 | L35 |
| 1629 | R36 | D194 | M 6 | R510 | D86 | R799 | L35 |
| 1630 | L 36 | D195 | M 6 | R511 | D87 | R800 | L35 |
| 1631 | R37 | D196 | M 6 | R512 | D88 | R801 | L35 |
| 1632 | L 37 | D197 | M 6 | R513 | D89 | R802 | L35 |
| 1633 | R38 | D198 | M 6 | R514 | D90 | R803 | L35 |
| 1634 | L 38 | D199 | M 6 | R515 | D91 | R804 | L35 |
| 1635 | R39 | D200 | M 6 | R516 | D92 | R805 | L35 |
| 1636 | L 39 | D201 | M 6 | R517 | D93 | R806 | L35 |
| 1637 | R40 | D202 | M 6 | R518 | D94 | R807 | L35 |
| 1638 | L 40 | D203 | M 6 | R519 | D95 | R808 | L35 |
| 1639 | R41 | D204 | M 6 | R520 | D96 | R809 | L35 |
| 1640 | L 41 | D205 | M 6 | R521 | D97 | R810 | L35 |
| 1641 | R42 | D206 | M 6 | R522 | D98 | R811 | L35 |
| 1642 | L 42 | D207 | M 6 | R523 | D99 | R812 | L35 |
| 1643 | R43 | D208 | M 6 | R524 | D100 | R813 | L35 |
| 1644 | L 43 | D209 | M 6 | R525 | D101 | R814 | L35 |
| 1645 | R44 | D210 | M 6 | R526 | D102 | R815 | L35 |
| 1646 | L 44 | D211 | M 6 | R527 | D103 | R816 | L35 |
| 1647 | R45 | D212 | M 6 | R528 | D104 | R817 | L35 |
| 1648 | L 45 | D213 | M 6 | R529 | D105 | R818 | L35 |
| 1649 | R46 | D214 | M 6 | R530 | D106 | R819 | L35 |
| 1650 | L 46 | D215 | M 6 | R531 | D107 | R820 | L35 |
| 1651 | R47 | D216 | M 6 | R532 | D108 | R821 | L35 |
| 1652 | L 47 | D217 | M 6 | R533 | D109 | R822 | L35 |
| 1653 | R48 | D218 | M 6 | R534 | D110 | R823 | L35 |
| 1654 | L 48 | D219 | M 6 | R535 | D111 | R824 | L35 |
| 1655 | R49 | D220 | M 6 | R536 | D112 | R825 | L35 |
| 1656 | L 49 | D221 | M 6 | R537 | D113 | R826 | L35 |
| 1657 | R50 | D222 | M 6 | R538 | D114 | R827 | L35 |
| 1658 | L 50 | D223 | M 6 | R539 | D115 | R828 | L35 |
| 1659 | R51 | D224 | M 6 | R540 | D116 | R829 | L35 |
| 1660 | L 51 | D225 | M 6 | R541 | D117 | R830 | L35 |
| 1661 | R52 | D226 | M 6 | R542 | D118 | R831 | L35 |
| 1662 | L 52 | D227 | M 6 | R543 | D119 | R832 | L35 |
| 1663 | R53 | D228 | M 6 | R544 | D120 | R833 | L35 |
| 1664 | L 53 | D229 | M 6 | R545 | D121 | R834 | L35 |
| 1665 | R54 | D230 | M 6 | R546 | D122 | R835 | L35 |
| 1666 | L 54 | D231 | M 6 | R547 | D123 | R836 | L35 |
| 1667 | R55 | D232 | M 6 | R548 | D124 | R837 | L35 |
| 1668 | L 55 | D233 | M 6 | R549 | D125 | R838 | L35 |
| 1669 | R56 | D234 | M 6 | R550 | D126 | R839 | L35 |
| 1670 | L 56 | D235 | M 6 | R551 | D127 | R840 | L35 |
| 1671 | R57 | D236 | M 6 | R552 | D128 | R841 | L35 |
| 1672 | L 57 | D237 | M 6 | R553 | D129 | R842 | L35 |
| 1673 | R58 | D238 | M 6 | R554 | D130 | R843 | L35 |
| 1674 | L 58 | D239 | M 6 | R555 | D131 | R844 | L35 |
| 1675 | R59 | D240 | M 6 | R556 | D132 | R845 | L35 |
| 1676 | L 59 | D241 | M 6 | R557 | D133 | R846 | L35 |
| 1677 | R60 | D242 | M 6 | R558 | D134 | R847 | L35 |
| 1678 | L 60 | D243 | M 6 | R559 | D135 | R848 | L35 |
| 1679 | R61 | D244 | M 6 | R560 | D136 | R849 | L35 |
| 1680 | L 61 | D245 | M 6 | R561 | D137 | R850 | L35 |
| 1681 | R62 | D246 | M 6 | R562 | D138 | R851 | L35 |
| 1682 | L 62 | D247 | M 6 | R563 | D139 | R852 | L35 |
| 1683 | R63 | D248 | M 6 | R564 | D140 | R853 | L35 |
| 1684 | L 63 | D249 | M 6 | R565 | D141 | R854 | L35 |
| 1685 | R64 | D250 | M 6 | R566 | D142 | R855 | L35 |
| 1686 | L 64 | D251 | M 6 | R567 | D143 | R856 | L35 |
| 1687 | R65 | D252 | M 6 | R568 | D144 | R857 | L35 |
| 1688 | L 65 | D253 | M 6 | R569 | D145 | R858 | L35 |
| 1689 | R66 | D254 | M 6 | R570 | D146 | R859 | L35 |
| 1690 | L 66 | D255 | M 6 | R571 | D147 | R860 | L35 |
| 1691 | R67 | D256 | M 6 | R572 | D148 | R861 | L35 |
| 1692 | L 67 | D257 | M 6 | R573 | D149 | R862 | L35 |
| 1693 | R68 | D258 | M 6 | R574 | D150 | R863 | L35 |
| 1694 | L 68 | D259 | M 6 | R575 | D151 | R864 | L35 |
| 1695 | R69 | D260 | M 6 | R576 | D152 | R865 | L35 |
| 1696 | L 69 | D261 | M 6 | R577 | D153 | R866 | L35 |
| 1697 | R70 | D262 | M 6 | R578 | D154 | R867 | L35 |
| 1698 | L 70 | D263 | M 6 | R579 | D155 | R868 | L35 |
| 1699 | R71 | D264 | M 6 | R580 | D156 | R869 | L35 |
| 1700 | L 71 | D265 | M 6 | R581 | D157 | R870 | L35 |
| 1701 | R72 | D266 | M 6 | R582 | D158 | R871 | L35 |
| 1702 | L 72 | D267 | M 6 | R583 | D159 | R872 | L35 |
| 1703 | R73 | D268 | M 6 | R584 | D160 | R873 | L35 |
| 1704 | L 73 | D269 | M 6 | R585 | D161 | R874 | L35 |
| 1705 | R74 | D270 | M 6 | R586 | D162 | R875 | L35 |
| 1706 | L 74 | D271 | M 6 | R587 | D163 | R876 | L35 |
| 1707 | R75 | D272 | M 6 | R588 | D164 | R877 | L35 |
| 1708 | L 75 | D273 | M 6 | R589 | D165 | R878 | L35 |
| 1709 | R76 | D274 | M 6 | R590 | D166 | R879 | L35 |
| 1710 | L 76 | D275 | M 6 | R591 | D167 | R880 | L35 |
| 1711 | R77 | D276 | M 6 | R592 | D168 | R881 | L35 |
| 1712 | L 77 | D277 | M 6 | R593 | D169 | R882 | L35 |
| 1713 | R78 | D278 | M 6 | R594 | D170 | R883 | L35 |
| 1714 | L 78 | D279 | M 6 | R595 | D171 | R884 | |

