DVDplay & LasrPlay Programming Cable

The programming cable used with the DVDplay and LasrPlay synchronizers must be custom made. There is no "off the shelf" cable available at shops that have the needed connections for this purpose.

The programming cable consists of a 3 conductor cable 6 feet long (2 meters) connecting a DB-15 female socket connector to a DB-9 female socket connector. There are also 3 jumper wires on the 9 pin connector. This cable connects between the synchronizer and an IBM PC serial port. The basic wiring is:

```
  LasrPlay/DVDplay                               PC/Clone
DB-15 solder cup socket               DB-9 solder cup socket
 ----------------------------------------------------------
       1 - - - - - - - - - - - - - - - - - 5
       2 - - - - - - - - - - - - - - - - - 3
       3 - - - - - - - - - - - - - - - - - 2
                                      Pins 1, 4, 6 and 8
                                      are jumpered together
```
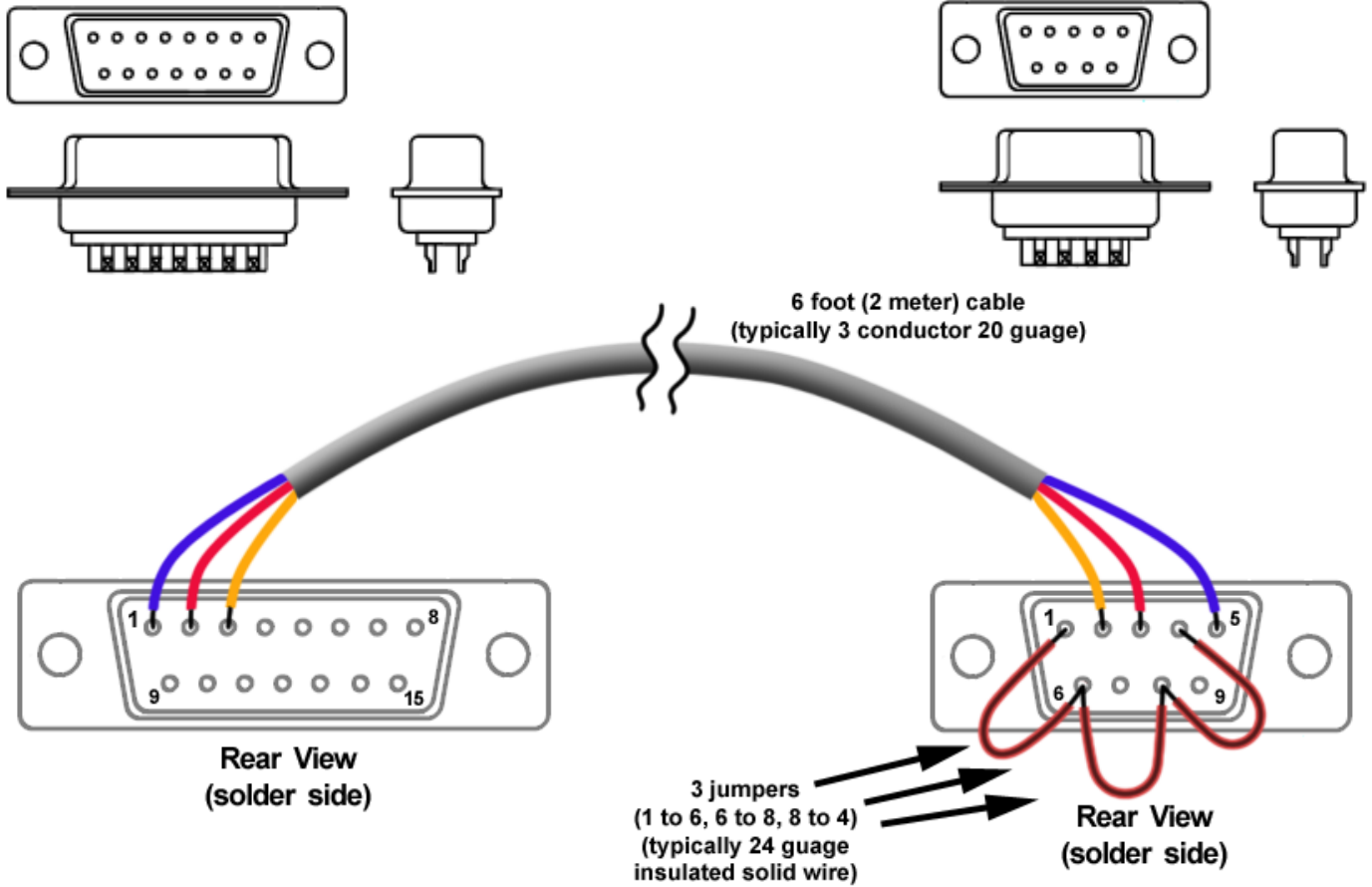
The connectors used are common in the computer industry. The DB-9 socket is used for serial port cables on IBM PC type computers. The DB-15 socket is sometimes used for PC joysticks. Be aware that VGA video connectors also have 15 pins, and use the "D-shell" shape, but they have 3 rows of pins in a smaller shell than the normal DB-15. Those VGA connectors are sometimes called DB-15 Hi Density. You can NOT use that type of connector for the programming cable.

The materials required for the cable are:

```
1x -   6 feet (2 meters)      - 3 conductor jacketed cable, typically 20 guage per wire
3x -   1 inch (2.5cm)         - 24 guage solid conductor insulated wire (for jumpers)
1x-    DB-15 female connector, solder cup pins (also called socket or recepticle)
1x -   DB-9 female connector, solder cup pins (also called socket or recepticle)
1x -   plastic shell (cover) for DB-15
1x -   plastic shell (cover) for DB-9
```

The connectors are available from a number of manufacturers and distributors. The following are not the only choices. They are just examples of parts that can be used:

Part	Manufacturer	Manufacturer's Part Number	Distributor	Distributor's Part Number
DB-15	Norcomp	171-015-202-001	Digikey.com	215F-ND
DB-15	Amp	747909-2	Digikey.com	A2048-ND
DB-9	Norcomp	171-009-202-001	Digikey.com	209F-ND
DB-9	AMP	747905-2	Digikey.com	A2047-ND

6 foot (2 meter) cable
(typically 3 conductor 20 guage)

1   8

9   15

Rear View
(solder side)

1   5

6   9

3 jumpers
(1 to 6, 6 to 8, 8 to 4)
(typically 24 guage
insulated solid wire)

Rear View
(solder side)

View from above

View from above

View from below

With plastic cover

With plastic cover

For questions or additional information, contact Dave Jones Design at the phone number or addresses shown at the top of page one.