

# HITACHI

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### Quick installation guide

## Hitachi Ultrastar 15K73

### Ultra320 SCSI Hard disk drive

**Model Numbers: 68 Pin Interface:** HUS157373EL3600 HUS157336EL3600  
**80 Pin Interface:** HUS157373EL3800 HUS157336EL3800

#### SPECIFICATIONS

Formatted Capacity*(Gbytes)	73.9 GB	36.9 GB
Bytes per Sector*	512	512
#Cylinders/#Heads/#Disks	40664/10/5	40664/5/3
Maximum LBA*(Hex)	89B88FF	44DC47F
Seektime:Average(Read, Typical)	3.9/4.2	3.9/4.2
Spindle Speed rpm	15037	15037
Interface Type	Ultra 320	Ultra 320
Transfer rate (MB/s)	320.0 max	320.0 max
Operating Temperature (C/F)	5-55°C	5-55°C
Power: 12Vpeak(Typ)/5V peak (Typ) (A)	2.20/1.54	2.20/1.54
Start Time(s)	25	25

#### Handling Precautions

1. *Do not press on the drive.* Hold the drive by the sides only, do not apply any force to the drive during handling or installation.
2. Always handle the drive with care to prevent damage from shock, vibration or electrostatic discharge(ESD). Do not touch the Printed Circuit Board (PCB).
3. *Electrostatic Discharge.* Static electricity can damage the drive. Before handling the drive, touch an unpainted metal surface for a few seconds to drain any static electricity from your body.
4. Keep the original packaging and static-protective bag in case the drive has to be returned.

#### Mounting Orientation

1. Installation horizontal or vertical ( 6 directions)
2. Provide adequate air flow to cool drive
3. Use 4 mounting screws (6x32 UNC). Maximum screw penetration 3.8mm (0.15 in) into drive

#### Cable Specifications:

1. Use interface cables that meet the ANSI SCSI guideline.
2. Cable length:

#### Interface cable (NW, Single-ended mode)

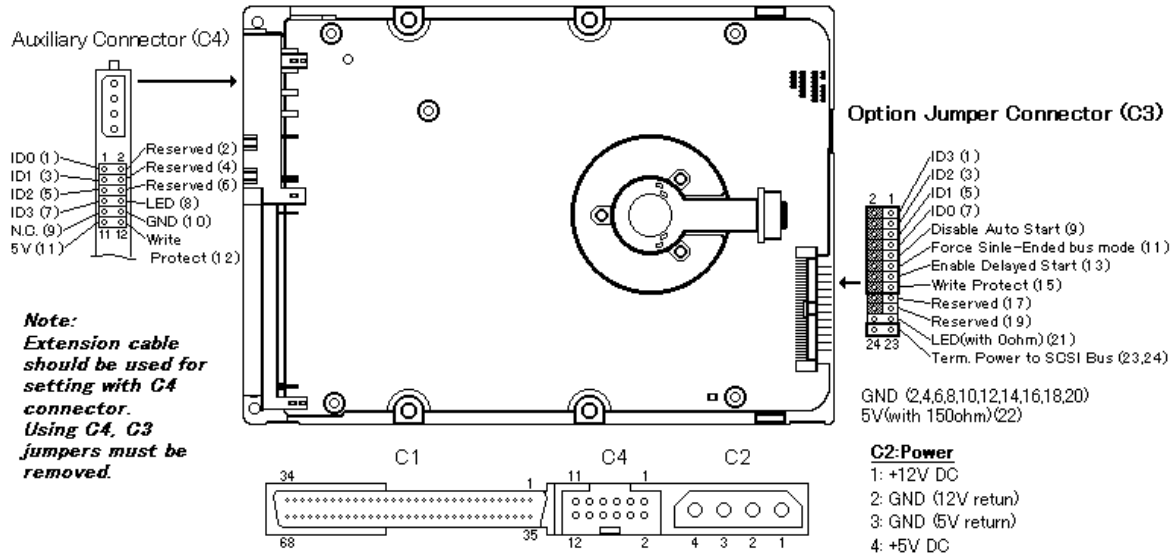
	Cable Type	Maximum cable length		
		Fast-5	Fast-10	Ultra(Fast20)
SCSI Interface	Flat Ribbon or	6m	3m	3m(4 units max.)
	Twisted Pair	(16 units max.)	(16 units max.)	1.5m (8 units max.)
DC power supply	AWG#20	3m		

## Interface cable (NW, LVD mode)

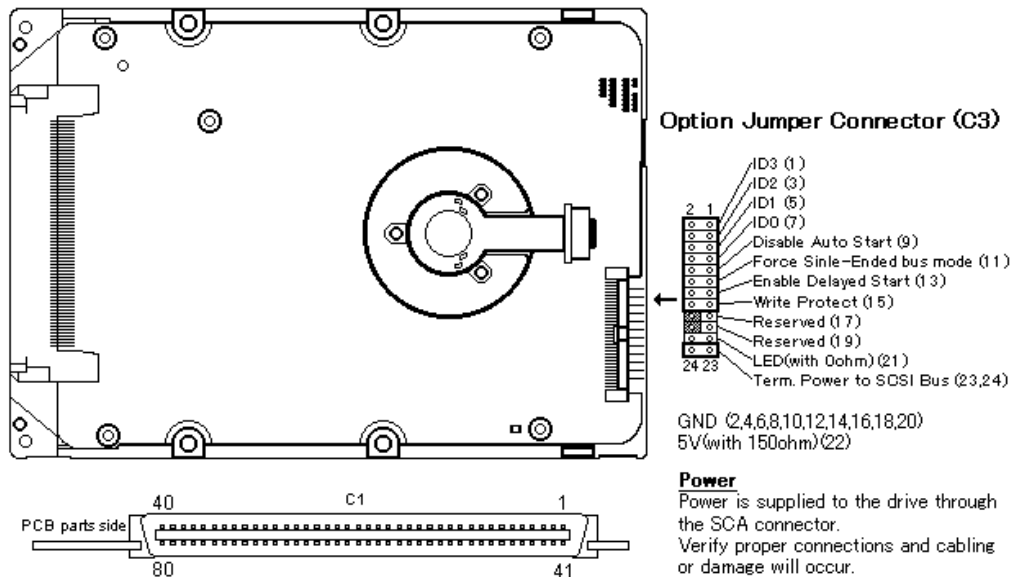
	Cable Type	Maximum cable length
		Ultra2(Fast)-40,Ultra160(Fast-80),Ultra 320(Fast-160)
SCSI Interface	Flat Ribbon or Twisted Pair	12m (16 units max.)
DC power supply	AWG#20	3m

### Connector Layout:

#### Wide LVD 68pin-16bits (NW)



#### SCA-2 LVD 80 pin-16bits (NC)



### Option Jumper Connector C3

Pin	Function	NW		NC		
		Removed	Installed	Function	Removed	Installed
1-2	ID3	*		ID3	*	

3-4	ID2	*		ID2	*	
5-6	ID1	*		ID1	*	
7-8	ID0	*		ID0	*	
9-10	Disable Auto Start	At power on per C3 pins 13-14	Only by SCSI Command	Disable Auto Start	Refer note3 below	Only by SCSI Command
11-12	Force SE bus mode	Single-ended or LVD mode*	Only by SCSI Command	Force SE bus mode	Single-ended or LVD mode*	Only by SCSI Command
13-14	Enable delay start	At power on*	In 10 sec x ID intervals on power on	Enable delay start	At power on*	In 10 sec x ID intervals on power on
15-16	Write Protect	Write Enable*	Write Protected	Write Protect	Write Enable*	Write Protected
17-18	Reserved			Reserved		
19-20	Reserved			Reserved		
21-22	LED(with 0 Ohm)			LED(with 0 Ohm)		
23-24	Term Power	Tempwr not to SCSI Bus*	Tempwr to SCSI bus	Term Power	Tempwr not to SCSI Bus*	Tempwr to SCSI bus

- Indicates Default Settings. **Do not Change the reserved jumper pins! Changing will void warranty!** Spare jumpers C3: 2-4, 6-8, 12-14-16,18-20 for NW model, C3: 18-20 for NC model.. These spare jumpers can be used for another setting.

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