

**HowToCode7**

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	<i>TITLE :</i> HowToCode7		
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# Chapter 1

## HowToCode7

### 1.1 HowToCode: Kickstart

#### Important Kickstart Differences on Amiga

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There are major differences between the early kickstart machines (Kickstart 1.2) and current releases (Kickstart 3.0/3.1)

Important differences:

Size: Kickstart 1.2 was 256Kb. Kickstart 3.0 is 512Kb

Offsets: \*EVERYTHING\* changes. Do not make any assumptions about any data in rom, for example reset locations, topaz.font data position.

Libraries: Many disk-based libraries under 1.3 are now in ROM, along with disk-validator and other things....

Workbench: Workbench is much improved. Use it.

OS Functions: \*Many\* new OS functions in all libraries. Now much easier to use, and faster. Much faster than under 1.2/1.3

How to check kickstart:

-----

```
move.l    4.w, a6
move.l    LIB_VERSION(a6), d0
```

d0 now contains version number. Compare with the following (all values in decimal)

- |           |  |
|-----------|--|
| V0 to V32 | - Obsolete! No longer supported.           |
| V33       | - Kickstart 1.2                            |
| V34       | - Kickstart 1.3 (1.2 with autoboot for HD) |

- V35                   - Early beta-kickstart 1.4. Obsolete
- V36                   - Obsolete! Early V2.00-V2.03 supplied with Amiga 3000  
                      Amiga 3000 owners should upgrade to at least V37
- V37                   - Kickstart 2.04. Final release version of Kickstart 2
- (V38)                 - Workbench 2.1 (exec.library should not show this  
                      version. All true V38 libraries are disk based)
- V39                   - Kickstart 3.0
- V40                   - Kickstart 3.1 - Currently only in AmigaCD 32

Do NOT compare numbers directly, eg.

```
cmp.w #39,d0
beq   kickstart3
```

Always check for greater or equal... eg.

```
cmp.w #39,d0
bcc   kickstart3      (bcc = BHIS, branch higher or same, unsigned)
```