# INSTRUCTIONS for HDI CALIBRATION- STEP ONE

**Line up your X on the Base Long & notch on the Base Code Disk**

1. A successful Step One process MUST be completed before proceeding with Step Two.
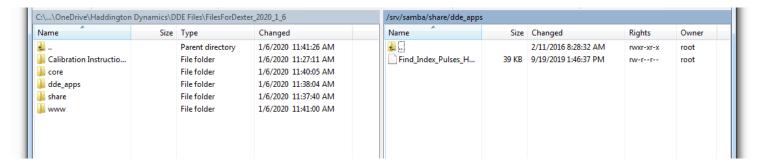
2. reboot Dexter

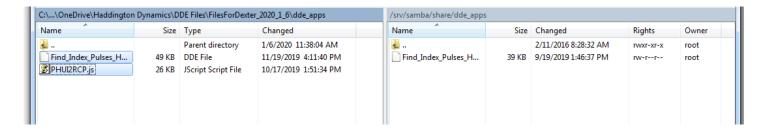Write files to the robot's hard drive using WinSCP. Open WinSCP App



**Host 192.168.1.142     Username: root     Password: klg**

In the left window locate the folder that has the Dexter files that need to be written to the Dexter Hard Drive.

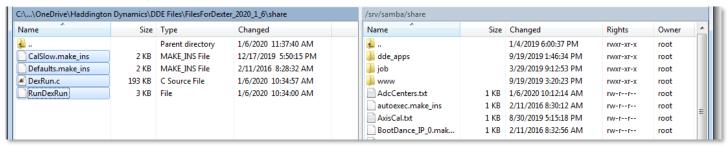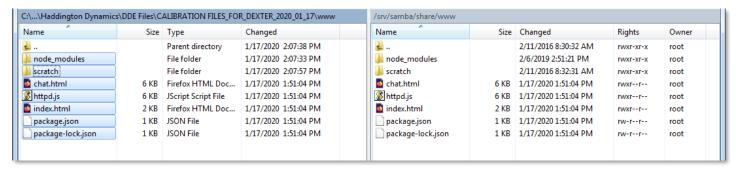In the right window locate Dexter robot's hard drive file folder as shown below.



Open the dde_apps folder on the left and open /srv/samba/share/dde_apps/ folder on the right, Select all files on left, hit F5 and OK
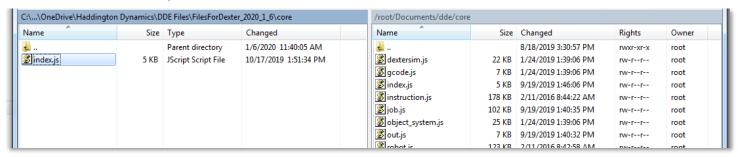
Open the share folder on the left and open srv/samba/share folder on the right.
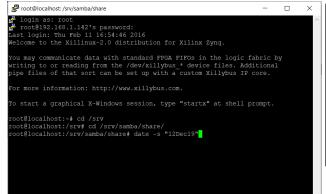Select all files on left, hit F5 and OK

| C:\...\OneDrive\Haddington Dynamics\DDE Files\FilesForDexter_2020_1_6\share | | | | | /srv/samba/share | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Name | Size | Type | Changed | | Name | Size | Changed | Rights | Owner |
| .. | | Parent directory | 1/6/2020 11:37:40 AM | | .. | | 1/4/2019 6:00:37 PM | rwxr-xr-x | root |
| CalSlow.make_ins | 2 KB | MAKE_INS File | 12/17/2019 5:50:15 PM | | dde_apps | | 9/19/2019 1:46:34 PM | rwxr-xr-x | root |
| Defaults.make_ins | 2 KB | MAKE_INS File | 2/11/2016 8:28:32 AM | | job | | 3/29/2019 9:12:53 PM | rwxr-xr-x | root |
| DexRun.c | 193 KB | C Source File | 1/6/2020 10:34:57 AM | | www | | 9/19/2019 3:20:23 PM | rwxr-xr-x | root |
| RunDexRun | 3 KB | File | 1/6/2020 10:34:00 AM | | AdcCenters.txt | 1 KB | 1/6/2020 10:12:14 AM | rw-r--r-- | root |
| | | | | | autoexec.make_ins | 1 KB | 2/11/2016 8:30:12 AM | rw-r--r-- | root |
| | | | | | AxisCal.txt | 1 KB | 8/30/2019 5:15:18 PM | rw-r--r-- | root |
| | | | | | BootDance_IP_0.mak... | 1 KB | 2/11/2016 8:32:56 AM | rw-r--r-- | root |

Open the www folder on the left and open srv/samba/share/www folder on the right.
Select all files on left, hit F5 and OK

| C:\...\Haddington Dynamics\DDE Files\CALIBRATION FILES_FOR_DEXTER_2020_01_17\www | | | | | /srv/samba/share/www | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Name | Size | Type | Changed | | Name | Size | Changed | Rights | Owner |
| .. | | Parent directory | 1/17/2020 2:07:38 PM | | .. | | 2/11/2016 8:30:32 AM | rwxr-xr-x | root |
| node_modules | | File folder | 1/17/2020 2:07:33 PM | | node_modules | | 2/6/2019 2:51:21 PM | rwxr-xr-x | root |
| scratch | | File folder | 1/17/2020 2:07:57 PM | | scratch | | 2/11/2016 8:32:31 AM | rwxr-xr-x | root |
| chat.html | 6 KB | Firefox HTML Doc... | 1/17/2020 1:51:04 PM | | chat.html | 6 KB | 1/17/2020 1:51:04 PM | rwxr--r-- | root |
| httpd.js | 6 KB | JScript Script File | 1/17/2020 1:51:04 PM | | httpd.js | 6 KB | 1/17/2020 1:51:04 PM | rwxr--r-- | root |
| index.html | 2 KB | Firefox HTML Doc... | 1/17/2020 1:51:04 PM | | index.html | 2 KB | 1/17/2020 1:51:04 PM | rwxr--r-- | root |
| package.json | 1 KB | JSON File | 1/17/2020 1:51:04 PM | | package.json | 1 KB | 1/17/2020 1:51:04 PM | rw-r--r-- | root |
| package-lock.json | 1 KB | JSON File | 1/17/2020 1:51:04 PM | | package-lock.json | 1 KB | 1/17/2020 1:51:04 PM | rw-r--r-- | root |

Open the core folder on the left and open root/documents/dde/core folder on the right.
Select all files on left, hit F5 and OK

| C:\...\OneDrive\Haddington Dynamics\DDE Files\FilesForDexter_2020_1_6\core | | | | | /root/Documents/dde/core | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Name | Size | Type | Changed | | Name | Size | Changed | Rights | Owner |
| .. | | Parent directory | 1/6/2020 11:40:05 AM | | .. | | 8/18/2019 3:30:57 PM | rwxr-xr-x | root |
| index.js | 5 KB | JScript Script File | 10/17/2019 1:51:34 PM | | dextersim.js | 22 KB | 1/24/2019 1:39:06 PM | rw-r--r-- | root |
| | | | | | gcode.js | 7 KB | 1/24/2019 1:39:06 PM | rw-r--r-- | root |
| | | | | | index.js | 5 KB | 9/19/2019 1:46:06 PM | rw-r--r-- | root |
| | | | | | instruction.js | 178 KB | 2/11/2016 8:44:22 AM | rw-r--r-- | root |
| | | | | | job.js | 102 KB | 9/19/2019 1:40:35 PM | rw-r--r-- | root |
| | | | | | object_system.js | 25 KB | 1/24/2019 1:39:06 PM | rw-r--r-- | root |
| | | | | | out.js | 7 KB | 9/19/2019 1:40:32 PM | rw-r--r-- | root |
| | | | | | robot.js | 123 KB | 2/11/2016 8:42:58 AM | rw-r--r-- | root |

# Step Two is Almost COMPLETE – Power cycle Dexter

Follow the steps below to modify the time on the new Dexter. Start the PuTTY App

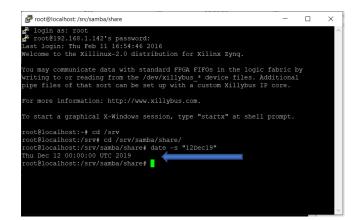
PuTTY

The login is root      the password is klg

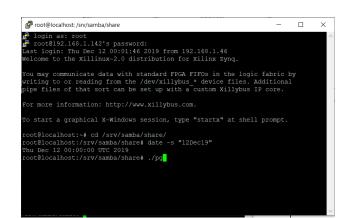At root@localhost:~# type cd /srv/samba/share/

Hit Enter
At root@localhost:/srv/samba/share# Type date -s "12Dec19"
Hit Enter

(Enter today's date in this format)



When you see the screen show the updated time to the left, this process is finished.



At root@localhost:/srv/samba/share#

Type ./pg

Hit Enter

(It may take a minute)

After a minute or so you will see the rest of this printout as shown.



To update the serial number

At root@localhost:/srv/samba/share#

Type nano Defaults.make_ins

Hit Enter



Update the six digit Dexter Serial Number with the new Dexter's unique serial number displayed on the Pivot. Replace the XXXXXX with six digit serial number.

Hit Ctrl+O, then hit enter to save the file, then hit Ctrl+X to exit.

This number is used to set the MAC address and is needed to avoid network collisions between two or more Dexters on the same network.

Power cycle then,

**Proceed to Step Two**