

## Nibjeppo Can Tool Sequences

Sequences for the 'Ninjeppo CAN Tool' are simple script to interact with CAN network.  
The form of script is quite simple

```
SEQUENCE <name>
....
....
ENDSEQ
```

In order to perform different or repetitive tasks, sequences support LOOP / ENDLOOP and SELECT / CASE / ENDSEL statment

Example 1  
SEQUENCE send one message  
SENDMSG ID=1 DATA=1,2,3  
ENDSEQ

This simple script send a CAN message with ID=1, length=3 and data [1,2,3] on the bus.

Example 2  
SEQUENCE send my mesasges  
SENDMSG ID=1 DATA=1,2,3  
SENDMSG ID=2 DATA=1,2,3  
SENDMSG ID=3 DATA=1,2,3  
SENDMSG ID=4 DATA=1,2,3  
ENDSEQ

This simple script send a sequence of 4 CAN message with ID 1, 2, 3 ,4, length=3 and data [1,2,3]

```
SEQUENCE select case
SELECT
CASE ID=1
CASE ID=2
SENDMSG ID=3 DATA=1,2,3
SENDMSG ID=4 DATA=1,2,3
BREAK
CASE ID=100
SENDMSG ID=103 DATA=1,2,3
SENDMSG ID=104 DATA=1,2,3
BREAK
DEFAULT
SENDMSG ID=203 DATA=1,2,3
SENDMSG ID=204 DATA=1,2,3
ENDSEQ
```

This simple script wait for a CAN message. If the message has ID=1 or ID=2, regardless of payload the tool will send a sequence of two message (ID 2 and ID 3). If the message has ID=100, the tool will send a sequence of two message (ID 103 and ID 104). If the message has another ID script will fall into default condition and the tool will send two message (ID 203, ID 204).

we can run also some loops

```
SEQUENCE my loop
LOOP FOREVER
SENDMSG ID=1
ENDLOP
ENDSEQ
```

this script will send an infinite sequence of message length 0 and ID 1

```
SEQUENCE complex
LOOP FOREVER
SENDMSG ID=1
SELECT 100
CASE ID=2
EXITLOOP
ENDSEL
ENDLOOP
```

this script will send a message with ID=1 every 100ms until it will receive a message with ID=2. In this case it will exit from loop

## Reference Guide

**SEQUENCE** <name>  
Start of a sequence

**SENDMSG** ID=<id> D0=1 D1=2....  
**SENDMSG** ID=<id> DATA=1,2,3,4  
Send a message on the bus

**DELAY** <timeout millisecondi>  
Generic delay

**WAITMSG** ID=<id> [MASK-ID=<mask>] D0=1 D1=2 D3=3  
**WAITMSG** ID=<id> [MASK-ID=<mask>] DATA=1,2,3,4  
Halt script waiting for a message. You can specify also a MASK-ID= in the arguments.

**LOOP** <count> | FOREVER  
Create a loop

**EXITLOOP**

Exit form a loop. Similar to BREAK in C language

**ENDLOOP**

End of loop

**SELECT** [Timeout]

Start a select case branch

**CASE** ID=<id> [MASK-ID=<mask>] D0=1 D1=2 D3=3

**CASE** ID=<id> [MASK-ID=<mask>] DATA=1,2,3,4

Start a branch for selected message. You can specify also a MASK-ID= in the arguments.

**DEFAULT**

Start a branch for other message

**EXPIRED**

Start a branch when timeout expires

**BREAK**

Terminate a branch

**ENDSEL**

End of SELECT statment

**PRINT** <text>

Display text on user interface

**ENDSEQ**

End of sequence