

16/5/25

# 635 Interlock - Daley

L	AφS	X	X is the locked state
	TZE	IN	-1 is unlocked state
	SφS	X	(there is no sφs instruction)
	SφN	X	wait for it to go away
	TPL	*-1	..
	TRA	L	try again

IN

—

—

—

—

SφS	X	unlock lock.
↓		

# 635 Interlock Saltzer

```

LDA    =1           Get lock value
Loop   ASA    LOCK   Increment + set test
      TZE    IN      If zero, we're in
      SSA    LOCK   failed, subtract our counter
      SBN    LOCK   and wait for lock to go away
      TPL    *-1     ..
      TRA    Loop    Now try again
      ...

```

```

IN    -
      -
      -
      -

```

```

LDA    =1
SSA    LOCK
      -
      -

```

LOCK

-1 means unlocked.