



TS50<-->AT50 communication

```

+-----+
|      TS-50 <--> AT-50      Communication      |
+-----+
|          as measured/discovered by DF6KR          |
|          No guarantee for whatsoever....          |
+-----+
    
```

```

Communication method:  Serial interface
Transfer rate:         4800 bps
Synchronization:     Start-stop (Asynchronous)
Parity:               None
Signal format:        TTL level (!)
    
```

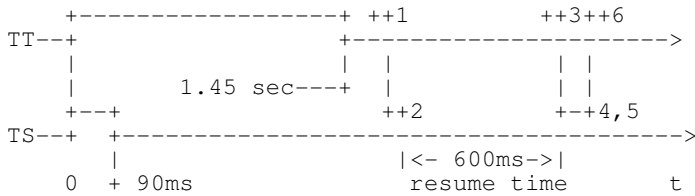
```

          +---+
          +-----+
          |      +---+      |      1:  Ground
          |      1  | 2  | 3  |      2:  TT (TS50<--AT50)TTL!
ACC      | +----+ +----+ +----+ |      3:  TS (TS50-->AT50)TTL!
          |  | 4 | 5  | 6 |  |      4:  N.C.
          | +----+       +----+ |      5:  ATG (signal ground)
          +-----+              6:  +13.8V from TS50
Rear Panel Connector ACC
    
```

Timing:

1. at Power-on:

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Signal:

```

          1          3          6
TT: ;;;;0C;_____0D01;_____0F11;
          2          4          5
TS: _____0C;_____0D01;0F11;_____
    
```

- 1: Power on comm.
- 2: Power on answer
- 3: Auto on request
- 4: Auto resume finished
- 5: ok at50
- 6: ok answer ts50

2. DOWN-UP-Communication

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TT: 0E02;_____0F11;___ - UP from 1.8 to 3.5
TS: _____0E02;0F11;_____
    
```

same:

```

0E04;0E04;0F11;0F11;   UP 3.5 --> 7
0E05;0E05;0F11;0F11;   UP 7    --> 10
0E06;0E06;0F11;0F11;   UP 10   --> 14
0E07;0E07;0F11;0F11;   UP 14   --> 18
0E08;0E08;0F11;0F11;   UP 18   --> 21
0E09;0E09;0F11;0F11;   UP 21   --> 24.5
0E0B;0E0B;0F11;0F11;   UP 24.5 --> 28
0E0C;0E0C;0F11;0F11;   UP 28   --> 29
0E01;0E01;0F11;0F11;   UP 29   --> 1.8
    
```

```
DOWNs
0E0C;0E0C;0F11;0F11;
0E0B;0E0B;0F11;0F11;
.
.
0E01;0E01;0F11;0F11;
```

```
TUNE:          0D03;0D03;0F41;0F41;
AUTO OFF (THRU): 0D00;0D00;
AUTO ON:        0D01;0D01;
tune error:     0d03;0d03;0F83;0F83;
```

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