

| Letter | Upper | | Lower |
|--------|--------------|---|-------|
| A | 0x41 | a | 0x61 |
| B | 0x42 | b | 0x62 |
| C | 0x43 | c | 0x63 |
| D | 0x44 | d | 0x64 |
| E | 0x45 | e | 0x65 |
| F | 0x46 | f | 0x66 |
| G | 0x47 | g | 0x67 |
| H | 0x48 | h | 0x68 |
| I | 0x49 | i | 0x69 |
| J | 0x4A | j | 0x6A |
| K | 0x4B | k | 0x6B |
| L | 0x4C | l | 0x6C |
| M | 0x4D | m | 0x6D |
| N | 0x4E | n | 0x6E |
| O | 0x4F | o | 0x6F |
| P | 0x50 | p | 0x70 |
| Q | 0x51 | q | 0x71 |
| R | 0x52 | r | 0x72 |
| S | 0x53 | s | 0x73 |
| T | 0x54 | t | 0x74 |
| U | 0x55 | u | 0x75 |
| V | 0x56 | v | 0x76 |
| W | 0x57 | w | 0x77 |
| X | 0x58 | x | 0x78 |
| Y | 0x59 | y | 0x79 |
| Z | 0x5A | z | 0x7A |
| | | | |
| 0 | 0x30 | | |
| 1 | 0x31 | | |
| 2 | 0x32 | | |
| 3 | 0x33 | | |
| 4 | 0x34 | | |
| 5 | 0x35 | | |
| 6 | 0x36 | | |
| 7 | 0x37 | | |
| 8 | 0x38 | | |
| 9 | 0x39 | | |
| | | | |
| EOL | 0x60 0x09 | | |

| | | | |
|-----|------|--|--|
| " " | 0xA0 | | |
| "." | 0x2E | | |

| | | | |
|-----------------------------------|---|-------------|--|
| Temp = (byte 6) / 20-40 (Decimal) | | Hour Minute | 3 set |
| | | | ERROR! parse timeval = (hours >> 4) * 1000 + (hours & 0x0F) * 100 + (minutes >> 4) * 10 + (minutes & 0x0F) |
| SC1 | 1 | 1 | Change input |
| SC1 | 1 | 2 | Scan forward |
| SC1 | 1 | 3 | Scan backward |
| SC1 | 1 | 6 | Vol up |
| SC1 | 1 | 7 | Vol down |
| SC1 | 1 | 0A | Menu |
| SC1 | 1 | 1A | Phone |
| SC1 | 1 | 22 | Arrow up |
| SC1 | 1 | 23 | Arrow down |
| SC1 | 1 | 28 | OK |
| SC1 | 1 | 2B | Mult |
| SC1 | 1 | 0 | Button |
| | | | 00 midnight |
| | | | 10 1 o'clock |
| | | | 50 5 |
| | | | 60 6 |
| | | | 70 7 |
| | | | 80 8 |
| | | | 90 9 |
| | | | A0 10 |
| | | | B0 11 |

<http://cs.wikipedia.org/wiki/Volkswagen>

OC2 ESP? ABS?
1A0 320

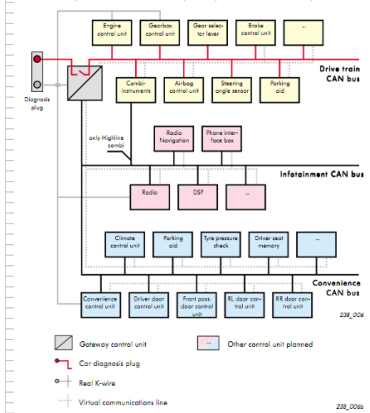
480 fuel? Fuel level?

65Dh

time?
6+7
6 bit 8 is on and off in seconds
Lower 6 bits are always up
7 apes from 00 to 1D (0..29)

<http://www.volkswagen-technik.com>

- 1. ASCII char on MFD
- 2. ASCII char on MFD
- 3. ASCII char on MFD
- 4. ASCII char on MFD
- 5. ASCII char on MFD
- 1. ASCII char on MFD



238_008

| Time | ID | DLC | D0/B1 | D1/B2 | D2/B3 | D3/B4 | D4/E | D5/B | D6/B | D7/B8 | Comment |
|--|-----|-----|-------|-------|-------|-------|------|------|------|-------|----------------|
| 0.691 | 681 | 6 | A1 | 04 | 8A | FF | 32 | FF | | | ASCII:2 |
| 1.766 | 680 | 1 | A3 | | | | | | | | ASCII: |
| 1.774 | 681 | 6 | A1 | 04 | 8A | FF | 32 | FF | | | ASCII:2 |
| | | | | | | | | | | | |
| Changing radio stations on the audio page | | | | | | | | | | | |
| 29.316 | 680 | 8 | 23 | 09 | 00 | 60 | 09 | 00 | 00 | 00 | ASCII:# ` |
| 29.327 | 680 | 8 | 24 | 00 | 00 | 6E | 00 | 5B | 00 | 61 | ASCII:\$ n [a |
| 29.338 | 680 | 8 | 25 | 06 | 08 | 00 | 6D | 00 | 00 | 00 | ASCII:% m |
| 29.35 | 680 | 8 | 06 | 61 | 0F | 10 | 00 | 37 | 00 | 1E | ASCII: a 7 |
| 29.36 | 681 | 1 | B7 | | | | | | | | ASCII: |
| 29.37 | 680 | 8 | 27 | 00 | 31 | 30 | 32 | 2E | 33 | 20 | ASCII:' 102.3 |
| 29.381 | 680 | 8 | 28 | 4D | 48 | 7A | 61 | 0A | 00 | 00 | ASCII:(MHza |
| 29.392 | 680 | 8 | 29 | 03 | 00 | 47 | 00 | 46 | 4D | 02 | ASCII:) G FM |
| 29.402 | 680 | 3 | 1A | 32 | 08 | | | | | | ASCII: 2 |
| 29.414 | 681 | 1 | BB | | | | | | | | ASCII: |
| 29.424 | 680 | 1 | A3 | | | | | | | | ASCII: |
| 29.436 | 681 | 6 | A1 | 04 | 8A | FF | 32 | FF | | | ASCII: 2 |
| 29.448 | 681 | 4 | 1D | 27 | 00 | 01 | | | | | ASCII: ' |
| 29.456 | 680 | 1 | BE | | | | | | | | ASCII: |
| 29.555 | 680 | 8 | 2B | 09 | 00 | 60 | 09 | 00 | 00 | 00 | ASCII:+ ` |
| 29.565 | 680 | 8 | 2C | 00 | 00 | 6E | 00 | 5B | 00 | 61 | ASCII:, n [a |
| 29.576 | 680 | 8 | 2D | 06 | 08 | 00 | 6D | 00 | 00 | 00 | ASCII:- m |
| 29.587 | 680 | 8 | 0E | 61 | 0F | 10 | 00 | 37 | 00 | 1E | ASCII: a 7 |
| 29.598 | 681 | 1 | BF | | | | | | | | ASCII: |
| 29.608 | 680 | 8 | 2F | 00 | 31 | 30 | 33 | 2E | 31 | 20 | ASCII:/ 103.1 |
| 29.62 | 680 | 8 | 20 | 4D | 48 | 7A | 61 | 0A | 00 | 00 | ASCII: MHza |
| 29.63 | 680 | 8 | 21 | 03 | 00 | 47 | 00 | 46 | 4D | 02 | ASCII:! G FM |
| 29.642 | 680 | 3 | 12 | 32 | 08 | | | | | | ASCII: 2 |
| 29.652 | 681 | 1 | B3 | | | | | | | | ASCII: |
| 29.685 | 681 | 4 | 1E | 27 | 00 | 01 | | | | | ASCII: ' |
| 29.695 | 680 | 1 | BF | | | | | | | | ASCII: |
| 29.825 | 680 | 8 | 23 | 09 | 00 | 60 | 09 | 00 | 00 | 00 | ASCII:# ` |
| 29.836 | 680 | 8 | 24 | 00 | 00 | 6E | 00 | 5B | 00 | 61 | ASCII:\$ n [a |
| 29.847 | 680 | 8 | 25 | 06 | 08 | 00 | 6D | 00 | 00 | 00 | ASCII:% m |

1. 00010000=Up
00100000=Auto up
01000000=Down
10000000=Auto down

2. 00000001=Up
00000010=Auto up
00000100=Down
00001000=Auto down

3. 0 Off
1 Normal
5 Medium
9 Fast