*CLASS 1,4,5 SERVICE BULLETIN*

Nissan Forklift Corporation



240 North Prospect Street; Marengo, IL 60152

*DEPARTMENT*

Important Meter Panel Information

SB 2007-271 POLICY

Date: January 26, 2007

To: All Dealer Principals All Service Managers

From: Customer Satisfaction Department - Technical Publications

Subject: Platinum II 1F1/1F2 Cushion Models Meter Panel Instructions

Applied Models: All Platinum II Series 1F1/1F2 Cushion Models Effective Date: January 2007

*SATISFACTION*

Attached to this bulletin are important Meter Panel instructions for your Service department to use as new 1F1/1F2 units arrive at the dealerships.

CD's, along with Operator, Parts, and Service manuals, will be sent in the next few days to all dealer locations.

If you have any questions regarding this bulletin please contact Kelly Geishert; 815-568-2123 or Shane Hauser; 815-568-2117 in the Service department, or Wayne Wilde; 815-568-2140 or Rick Grossert; 815-568-2532 in the Training department.

Sincerely,

Nissan Forklift Corporation

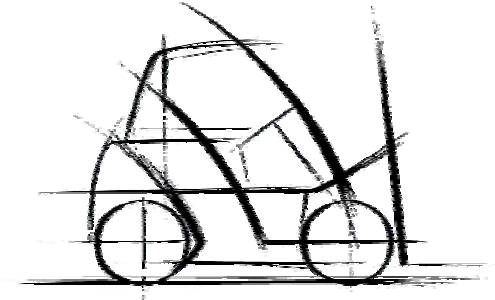
Wayne Wilde Sr.

*CUSTOMER*

Director, Training and Technical Publications Attachment

The information provided in this bulletin is not to be construed as a basis for any claims against NFC, unless otherwise stated.

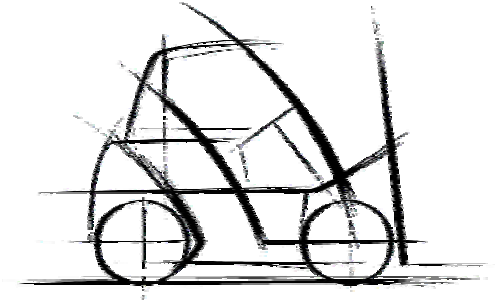
Phone Number: (815) 568-0061 Fax Number: (815) 568-0186



**Platinum II**

**Meter Panel Operation**

###### January 2007



**Agenda**

Y Warning Display

Y Operation

Y Screen navigation for:

Y Operator

Y Manager

Y Service Tech

Y2

## Warning Display GAS/LPG/DUAL

YMIL (Check Engine) Warning

YGlow plug lamp

YDiesel Yonly

YOil Pressure Warning

YCharge Warning

YParking Brake Warning

YSeat Belt Warning

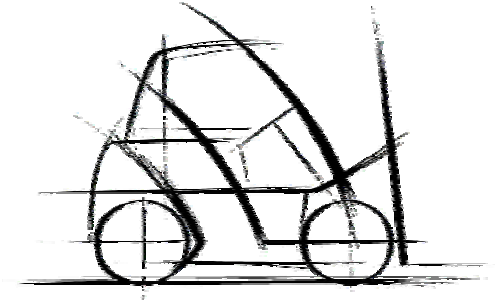
YMulti Purpose warning

Y**LCD**

YShift direction, YWater temp YFuel level YClock

Y**PUSH SWITCH**

YUse for select Yof display, Ychange the Ysetting value



Y3

Combination Meter Indicators

Multipurpose Warning (STD for all trucks) Turns on when LCD has a warning.

Check Engine Warning (STD for DUAL & LPG) When engine (ECM) has code.

Glow Warning (STD for DIESEL truck)

When IGN-SW is turned on, this warning is on Till pre-heat is complete

Oil pressure Warning (STD for all trucks) When engine oil pressure is low, this warning Will turn on.

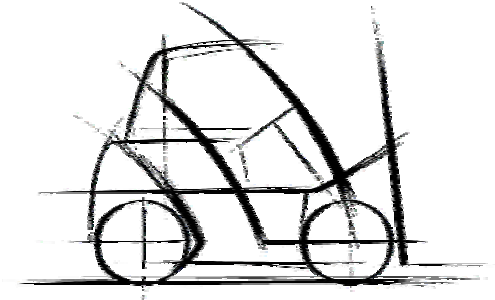
Charge Warning (STD for all trucks)

When charge system is troubled, this lamp is on.

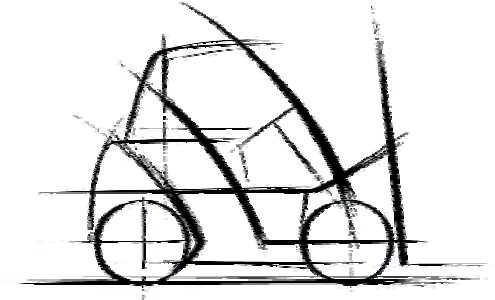
Parking brake Warning (STD for all trucks) When parking lever switch is on, warning is on.

Seat-belt Warning (STD for all Trucks)

When seat-belt is not buckled, this warning is on.



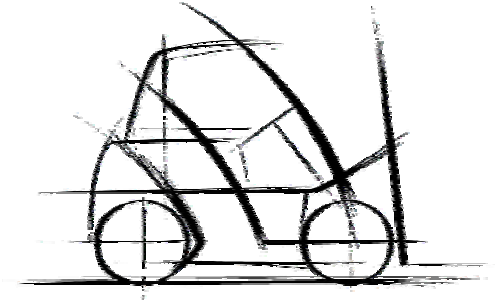
Y4



### Starting Display

##### When the key switch is turned on, NISSAN is indicated on display .

Y5



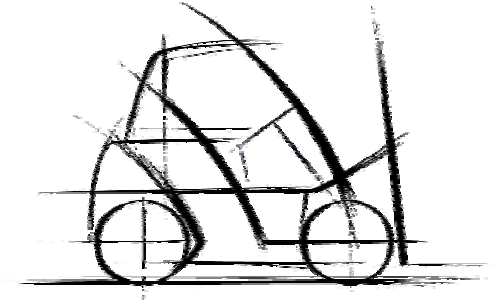
### Normal Display (Clock Shown)

##### After the starting display,the display is changed to normal.

Left : Position indicates shift direction Middle：upper : Coolant temperature Lower : Fuel level

Right ：Clock

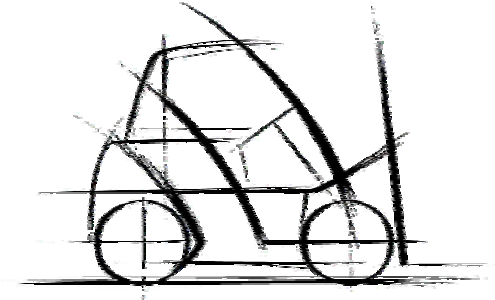
Y6



### Calendar

##### It is possible to change the display from the Normal Display to calendar by using the push-switch.

Y7



### Indication of Hours

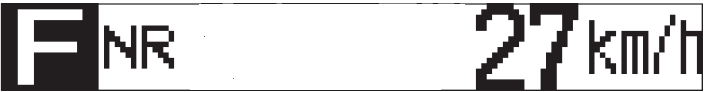
##### It is possible to indicate the Hour-Meter by using push-switch.

Meter has two functions for Hour-Meter.

1. Hours for IGN-ON
2. Hours for Engine-ON

Must be configured in tech mode.

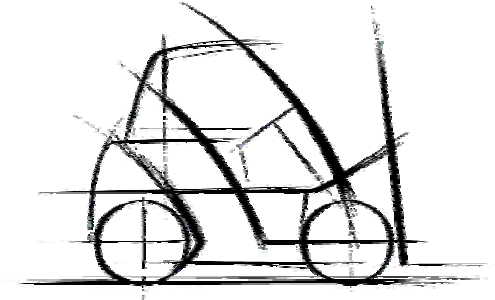
Y8



### Indication of Speed

##### When the speed of truck is over 2MPH , meter indicates speed automatically.

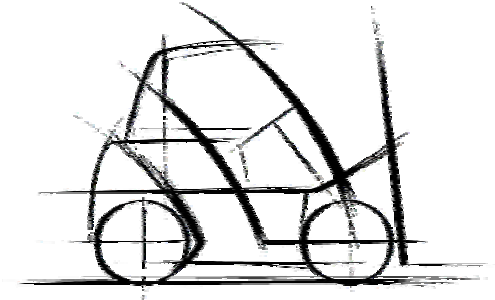
Y9



### Indication of Maintenance Time

##### The meter panel will indicate maintenance when required. This indication is shown 15sec. after IGN-SW is turned on.

Y10



### Indication of Error

##### Error Code (Maximum of 40)

YLanguages available YEnglish YSpanish YFrench YGerman YJapanese

##### If a fault code is in the VCM or ECM, the meter indicates the Error Code.

When the up or down button, is pressed, the panel indicates the cause of error.

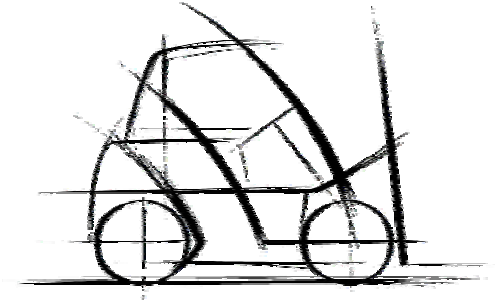
Y11

### Indication of Warning

##### warning

If a warning occurs the display indicates a warning symbol and illuminates the multi-purpose warning .

1. Mast Interlock
2. LPG level / LPG Rack Lock
3. Torque Converter Temp
4. Coolant Level
5. Air Cleaner Clogged
6. Fuel Filter (Diesel Only)



Y12

### LCD Warning Symbols

**Torque converter fluid temp** Turns on when transmission fluid temp is high.

**Radiator Level Warning** Illuminated when the engine coolant is low.

Fuel Filter Warning

(Diesel Only)

Turns on when the fuel filter has become full with water.

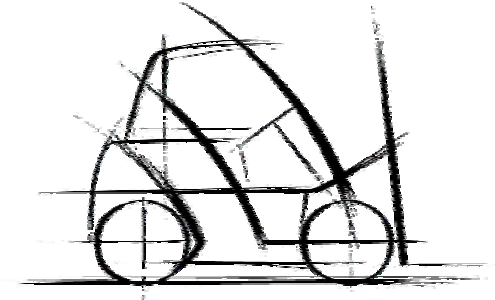
**LPG level warning / LPG Rack Lock**

Illuminates when LPG is low. Also when LPG rack is not securely set.

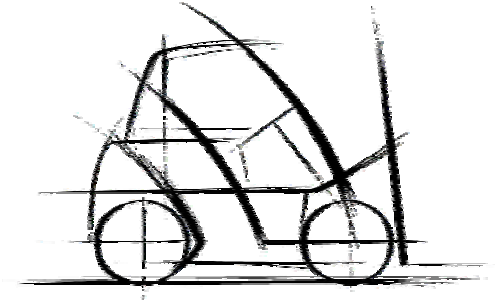
**Air Cleaner Warning**

Turns on when the air cleaner has become clogged.

**Mast Interlock Warning** Illuminates when Ignition switch is on & operator is not seated on the seat.



Y13

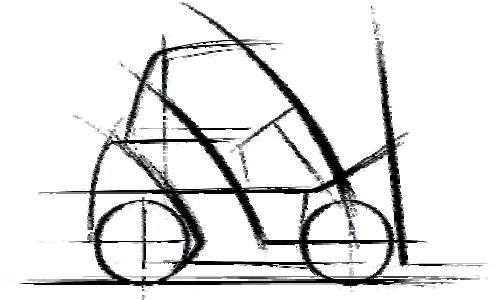


### Fuel and Water Temp

|  |  |  |  |
| --- | --- | --- | --- |
| tem p | | indication | step |
| h igh | | ＋ | 4 |
|  | |  | 3 |
|  |  |
|  |  |  | 2 |
|  |  |  | 1 |
| lo w | |  | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
| f uel | | i ndi cat i on | s t ep |
| f ul l | |  | 5 |
|  |  |  | 4 |
|  |  |  | 3 |
|  |  |  | 2 |
|  |  |  | 1 |
|  | |
| e mpt y | | ＋ | 0 |

Y14



### How to select indication

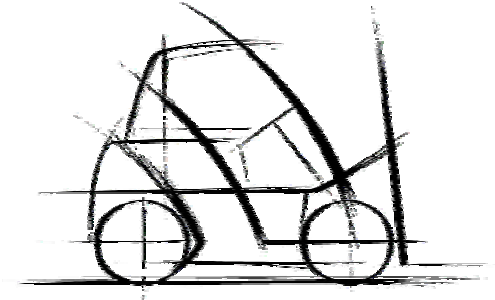
Y**Clock normal display** Y**Calendar**

over 2 mph

Y**Indication of hours**

Y**Indication of speed**

Y15



## How to set clock

**Push and hold after key is turned on**

10:25 12:25

12:25 12:50

Y**16**

How to set calendar

Push an hold after

Key has been turned on

05/02/31

14:25

06/02/31

14:25

06/06/31

14:25

06/06/26

14:25

06/06/26

07:25

06/02/31

14:25

06/06/31

14:25

06/06/26

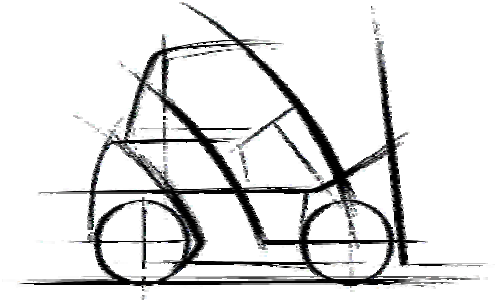
14:25

06/06/26

07:25

06/06/26

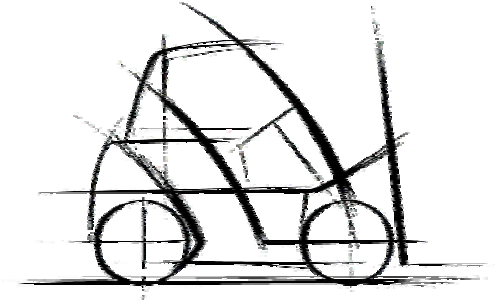
07:45



06/06/26

07:45

Y17



### Operator mode

Y Purpose

Y Prevention of theft

Y Restrict the operator

Y Administration of operator (each operator’s hour meter)

How to enter :

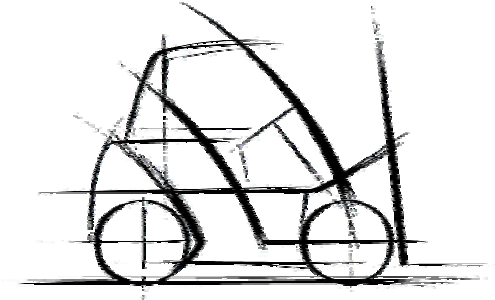
1. KEY ON

2. Select an operator. (A B C D E)

3. Enter password. (A-E each have password)

If the password is entered wrong 3 times, the engine will start but after 3 seconds mast lockout on and Trans to N.

Y18



Operator mode

YThis screen will be displayed when



Ythe key is turned on.

YThe operator can scroll to his letter

YBy using the up/down arrows.

YWhen the correct letter is selected

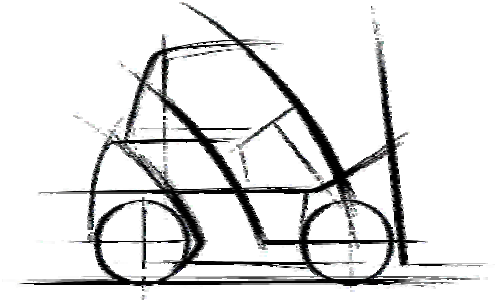
YPress the enter button.

YNow the operator can enter his/her YNumber code by using the up/down keys and hitting enter.

Y**If enabled by the manager, the operator must enter the correct number code (password).**

Y**Maximum of 5 operators (A-E)**

Y19



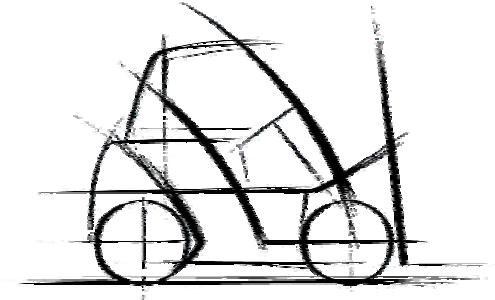
Manager mode

Y To enter the manager mode hold down at the same time for approximately 7 seconds after the key has been turned on.



Y 8653 is the factory installed manager code.

Y20



### Manager mode

Y**Press to enter**

|  |  |  |
| --- | --- | --- |
| A0  **1** | PASS ENTRY  **ENTRY TIME** | OFF  **6h** |
| A0 | PASS A | 1234 |
| 2 | PASS B | 2345 |
| A0 | PASS C | 3456 |
| 3 | PASS D | 4567 |
| A0 | PASS E | 5678 |
| **4** | **PASS (MANAGE)** | **8653** |

Mgr. Can change how often the operator must enter his password per shift.

Above >**ENTRY TIME 6H**< means operator only enters his password every 6 hours.

Manage password can be changed in Tech Mode.

Y21



### Manager mode

YPanel shows Hrs. for each

Y**Operator (A,B,C,D)**

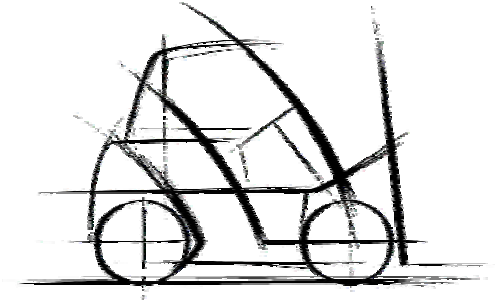
Y**(E) is on the next screen**

Y**Manager can reset**

Y**Hrs. by pressing up / down**

Y**Then enter**

Y22



Password entry for Diagnosis (Tech Mode)

Y**Truck is off**

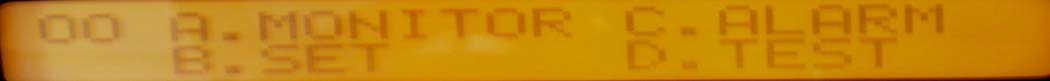
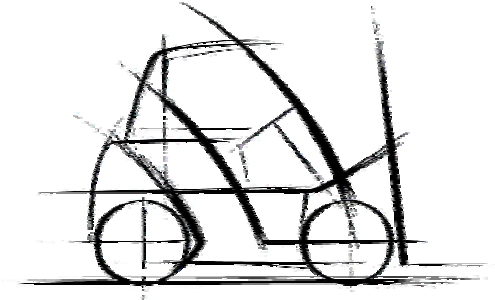


Push while turning KEY ON

YNumbers are entered by using the up/down keys and then pressing enter.

# YEnter 0312

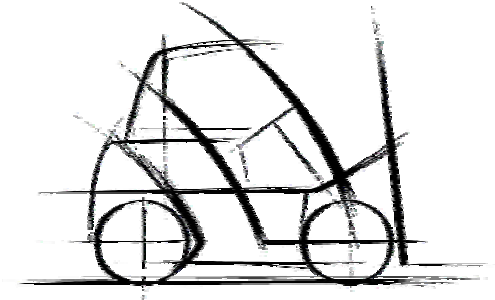
Y23



### Diagnosis screen

YNavigation tip: To go back a screen, Ypress both up/down buttons at the same time.

Y24



Mode for Diagnosis

**AO 1. VCM 3. MP**

**2. ECM**

**A1 SPEED SEN 0.0km/h**

**01 OIL PRES 0.000MPa**

**A2 ENG.REV 0rpm**

**01 IDLE SW ON**

Y**Navigation:** YUP

YDown YEnter



**A3 PKB SW ON**

**01 BRAKE OIL LOW OFF**

**OO A. MONITOR C. ALARM**

**B. SET D. TEST**

**BO 1. VCM**

**2. MP**

**B1 CONT TYPE MC**

**01 T/M TYPE ATM**

**B2 SER REMIND MANU**

**01 MANU HOUR**

**CO 1. HISTORY**

**2. CLEAR ALL**

**DO CAUTION TO MOVE ! EXE? NO YES**

**NO**

**YES**

**C1 NO ALARM HISTORY**

**C1 02. F-3 XXXXX**

**02 CLEAR? NO YES**

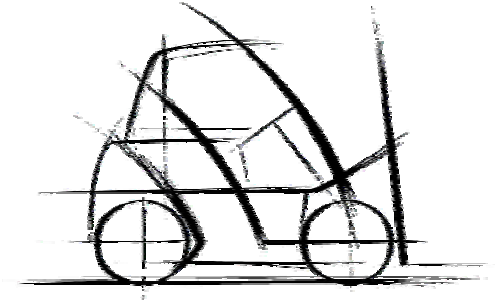
**C2 CLEAR ALL HISTORY**

**01 NO YES**

**D0 1.VCM 3. MP 2.ECM**

Press both Together To go back A screen

Y25



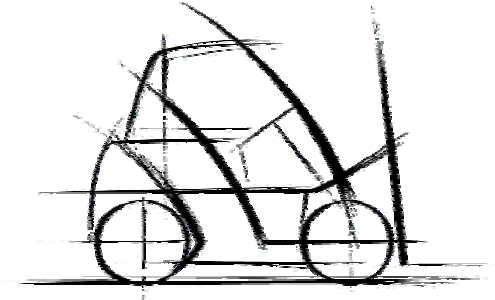
### VCM Input output monitor A1

###### YData lines 11-20 are on

|  |  |  |
| --- | --- | --- |
| A1  1 | SPEED SEN  OIL PRES | 0.0km/h  0.000MPa |
| A1  2 | TILT ANG  WHEEL ANG | 0.0V  0.0V |
| A1  3 | ACCEL SEN  IGN ST SW | 0.00%  OFF |
| A1  4 | MAST HIGH SW  Lift OPE SW | OFF  OFF |
| A1  5 | TILT OPE SW  SPEED LIMIT SW | OFF  ON |
| A1  6 | POWER ECO SW  SEAT SW | OFF  ON |
| A1  7 | SEAT BELT SW  ACCEL SW | ON  OFF |
| A1  8 | TILT STOP SW  COOLANT LOW SW | OFF  OFF |
| A1  9 | AIR CLEANER SW  T/M WARNING SW | OFF  OFF |
| A1  10 | INCHING SW  MFC CHANGE SW | OFF  OFF |

Y**on the next page.**

Y26



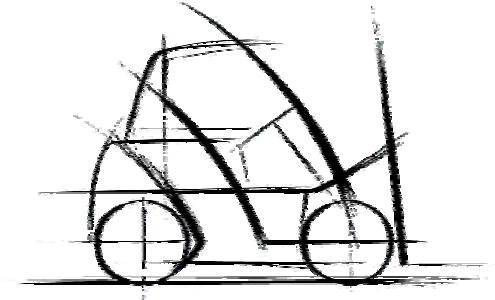
### VCM Input output monitor A1 (cont.)

###### YData lines 21-30 are on

|  |  |  |
| --- | --- | --- |
| A1  11 | AUTO START SW  FC RELAY | OFF  ON |
| A1  12 | AUTO LIGHT RLY  WARN 1 BUZZER | OFF  OFF |
| A1  13 | WARN 2 BUZZER  N-SIGNAL | OFF  ON |
| A1  14 | RESERVE (OUT)  STARTOR RELAY | OFF  OFF |
| A1  15 | ENG.STOP RELAY  GLOW RELAY | ON  OFF |
| A1  16 | T/M SOL (FW)  T/M SOL 2(FW) | OFF  OFF |
| A1  17 | T/M SOL (BW)  T/M SOL | OFF  4mA |
| A1  18 | PS SOL  PS SOL | OFF  4mA |
| A1  19 | T-LOCK SOL  T-LOCK SOL | OFF  0mA |
| A1  20 | L-LOCK SOL  L-LOCK SOL | OFF  0mA |

Y**on the next page.**

Y27



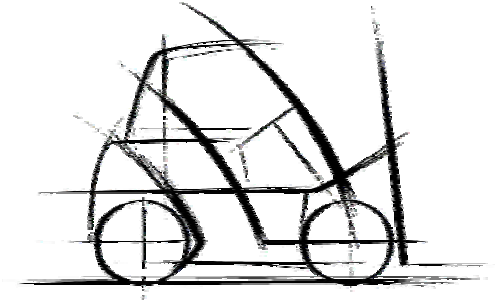
### VCM Input output monitor A1 (cont.)

###### YData lines 31-34 are on

|  |  |  |
| --- | --- | --- |
| A1  21 | ULOADC1 SOL  ULOADCL SOL | OFF  4mA |
| A1  22 | FC SEN(LIFT)  FC LIFT (UP) | 0%  OFF |
| A1  23 | FC LIFT (DN)  FC LIFT | OFF  9mA |
| A1  24 | FC SEN (TILT)  FC TILT (FW) | 0%  OFF |
| A1  25 | FC TILT (BW)  FC TILT | OFF  4mA |
| A1  26 | FC SEN (ATT1)  FC ATT1 (A) | 0%  0FF |
| A1  27 | FC ATT1 (B)  FC ATT1 | OFF  9mA |
| A1  28 | FC SEN (ATT2)  FC ATT2 (A) | 0%  OFF |
| A1  29 | FC ATT2 (B)  FC ATT2 | OFF  9mA |
| A1  30 | FC SEN (ATT3)  FC ATT3 (A) | -99%  OFF |

Y**on the next page.**

Y28

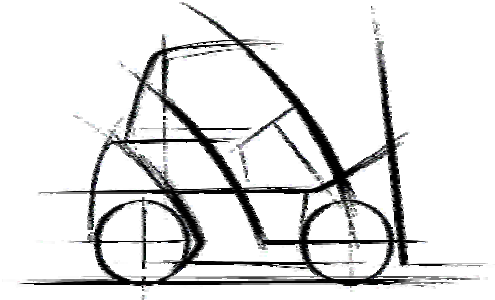


### VCM Input output monitor A1 (cont.)

YTo go back to last menu screen, Ypress both up/down buttons at the same time.

|  |  |  |
| --- | --- | --- |
| A1  31 | FC ATT3 (B)  FC ATT3 | OFF  9mA |
| A1  32 | SHIFT LEVER (F)  SHIFT LEVER (N) | OFF  ON |
| A1  33 | SHIFT LEVER ®  SHIFTLEVER (2F) | OFF  OFF |
| A1  34 | BAT VOL. | 12.3 |

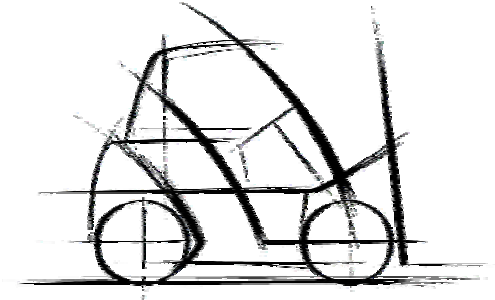
Y29



ECM Input output monitor A2

|  |  |  |
| --- | --- | --- |
| A2  1 | ENG.REV  IDLE SW | 0rpm  ON |
| A2  2 | THROTTLE ANGLE  BAT VOL. | 0%  12240mV |
| A2  3 | ACCEL ANGLE  COOLANT TEMP | 0%  24 C |
| A2  4 | INJPULSE GAS  INJPULSE LPG | 820 us  0us |
| A2  5 | STARTOR SW  NEUTRAL SW | OFF  ON |
| A2  6 | ELEC LOAD SW  BRAKE SW | OFF  OFF |
| A2  7 | AIR-CON SW  A/F ALPHA CLR | OFF  NOT |
| A2  8 | IDLE AIR VOL F  IDLE AIR VOL N | NOT  NOT |
| A2  9 | IGN TIMING ADJ  A/F ALPHA ADJ | NOT  NOT |
| A2  10 | POWER BALANCE  FUEL PRES CLR | NOT  NOT |

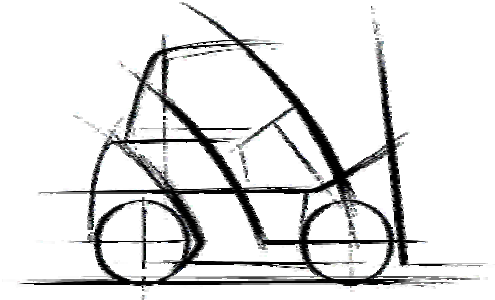
Y30



### ECM Input output monitor A2 (cont.)

|  |  |  |
| --- | --- | --- |
| A2  11 | SELF - DIAG CLR  AIR FLOW | NOT  335mV |
| A2  12 | CHARG EFF GAS  CHARG EFF LPG | 86%  75% |
| A2  13 | A/F ALPHA GAS  A/F ALPHA LPG | 100%  100% |
| A2  14 | CHG FUEL SW1  CHG FUEL SW2 | ON  OFF |
| A2  15 | FUEL CONTROL  MAST HIGH SW1 | LPG  OFF |
| A2  16 | MAST HIGH SW2  O2 SENSOR | OFF  LEAN |
| A2  17 | FUELPUMP RELAY  LPG RELAY | OFF  OFF |
| A2  18 | THROTTLE RELAY  O2 SEN HEATER | ON  OFF |
| A2  19 | OFF ACCEL PO.  IDLE AIR COMP | DONE  DONE |
| A2  20 | CON CONSULT II  IGN.TIMING | OFF  0deg |

Y31



### MP Input output monitor A3

|  |  |  |  |
| --- | --- | --- | --- |
| A3 | 1 | PKB SW  BRAKE OIL LOW | ON  OFF |
| A3 | 2 | ENG. PRES LOW ENG. TEMP | ON 7 C |
| A3 | 3 | FUEL LEVEL TURN SIG (RH) | 83 Ohms OFF |
| A3 | 4 | TURN SIG (LH)  FUEL WARN SW | OFF  OFF |

Y32

### How to get to VCM set

**A1 SPEED SEN 0.0km/h**

**01 OIL PRES 0.000MPa**

**AO 1. VCM 3. MP**

**2. ECM**

**A2 ENG.REV 0rpm**

**01 IDLE SW ON**

**A3 PKB SW ON**

**01 BRAKE OIL LOW OFF**

**OO A. MONITOR C. ALARM**

**B. SET D. TEST**

**BO 1. VCM**

**2. MP**

**B1 CONT TYPE MC**

**01 T/M TYPE ATM**

**B2 SER REMIND MANU**

**01 MANU HOUR**

**CO 1. HISTORY**

**2. CLEAR ALL**

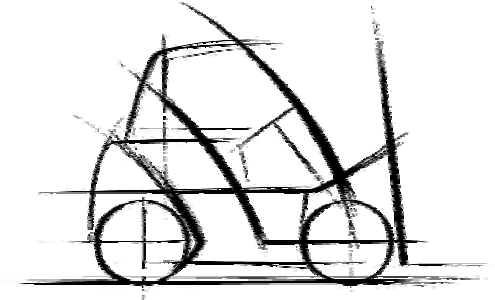
**NO**

**YES**

**C1 NO ALARM HISTORY**

**C1 02. F-3 XXXXX**

**02 CLEAR? NO YES**



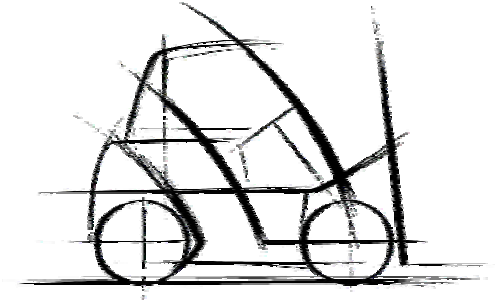
**DO CAUTION TO MOVE ! EXE? NO YES**

**C2 CLEAR ALL HISTORY**

**01 NO YES**

**D0 1.VCM 3. MP 2.ECM**

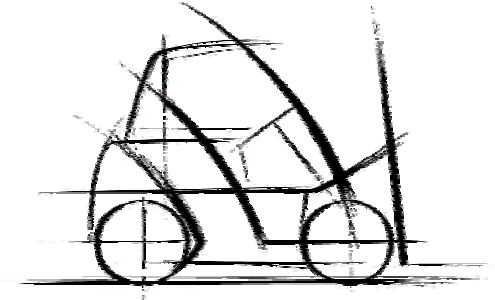
Y33



### VCM Set B1

|  |
| --- |
| CONTROLLER TYPE |
| TRANSMISSION TYPE |
| ENGINE TYPE |
| LEVER LIMIT SWITCH |
| VALVE UNIT |
| LOAD CAPACITY |
| ECM CONTROLLER |
| DCM CONTROLLER |
| MAXIMUM SPEED CONTROL |
| TILT AUTO STOP |
| POWER ECONOMY CONTROL |
| AUTO STOP/AUTO START |
| LOAD METER |
| SPEED ALARM |
| LOAD ALARM |
| AUTO LIGHT CONTROL |
| CYLINDER DIAMETER |
| GEAR RATIO |
| ALARM SPEED SETTING 1 |
| ALARM SPEED SETTING 2 |

Y34

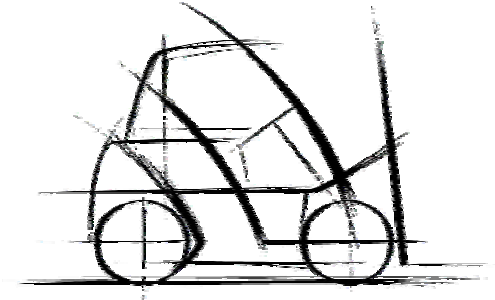


VCM Set B1 (cont.)

Y35



|  |
| --- |
| ALARM LOAD SETTING |
| VEHICLE SPEED LIMIT (EXTERNAL) SETTING |
| VEHICLE SPEED LIMIT (INTERNAL) SETTING |
| TIRE ANGLE SENSOR NEUTRAL VALVE |
| TILT ANGLE SENSOR NEUTRAL VALVE |
| TIRE LOAD PRESSURE |
| AUTO LIGHT ON |
| AUTO LIGHT HYSTERESIS |
| SPEED DISPLAY |
| LOAD DISPLAY |
| CHASSIS NO. |
| SEAT SWITCH |
| SEAT BELT SWITCH |
| SOFTWARE VERSION |
| LPG HOUR CONTROL |
| BATTERY VOLTAGE |
| LANGUAGE |



### MP Set B2

|  |
| --- |
| SERVICE REMIND |
| REMIND MANUAL |
| REMING-HOUR |
| REMIND-DATE |
| HOUR METER IGNITION |
| HOUR METER ENGINE |
| HOUR METER INDICATE |
| PASSWORD (MANAGER) |
| SOFTWARE VERSION |

Y36

### Alarm History/Clearing

**A1 SPEED SEN 0.0km/h**

**01 OIL PRES 0.000MPa**

**AO 1. VCM 3. MP**

**2. ECM**

**A2 ENG.REV 0rpm**

**01 IDLE SW ON**

**A3 PKB SW ON**

**01 BRAKE OIL LOW OFF**

**OO A. MONITOR C. ALARM**

**B. SET D. TEST**

**BO 1. VCM**

**2. MP**

**B1 CONT TYPE MC**

**01 T/M TYPE ATM**

**B2 SER REMIND MANU**

**01 MANU HOUR**

**CO 1. HISTORY**

**2. CLEAR ALL**

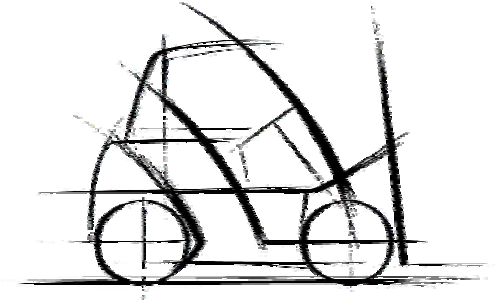
**NO**

**YES**

**C1 NO ALARM HISTORY**

**C1 02. F-3 XXXXX**

**02 CLEAR? NO YES**



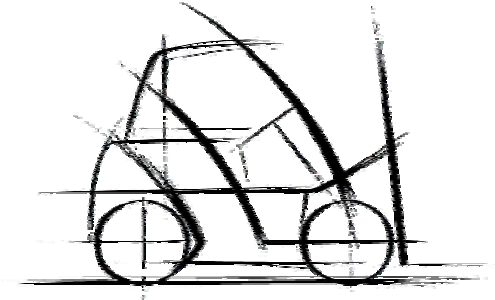
**DO CAUTION TO MOVE ! EXE? NO YES**

**C2 CLEAR ALL HISTORY**

**01 NO YES**

**D0 1.VCM 3. MP 2.ECM**

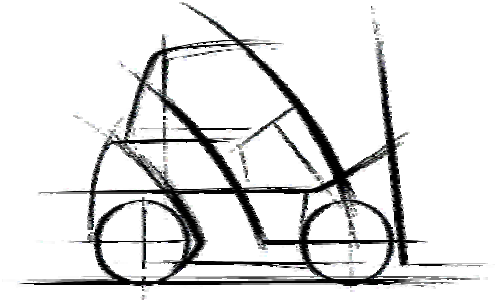
Y37



### Alarm History/Clearing

All codes can be viewed and cleared in this section.

Y38



How to get to VCM Active test

**A1 SPEED SEN 0.0km/h**



**01 OIL PRES 0.000MPa**

**AO 1. VCM 3. MP**

**2. ECM**

**A2 ENG.REV 0rpm**

**01 IDLE SW ON**

**A3 PKB SW ON**

**01 BRAKE OIL LOW OFF**

**OO A. MONITOR C. ALARM**

**B. SET D. TEST**

**BO 1. VCM**

**2. MP**

**B1 CONT TYPE MC**

**01 T/M TYPE ATM**

**B2 SER REMIND MANU**

**01 MANU HOUR**

**CO 1. HISTORY**

**2. CLEAR ALL**

**NO**

**YES**

**C1 NO ALARM HISTORY**

**C1 02. F-3 XXXXX**

**02 CLEAR? NO YES**

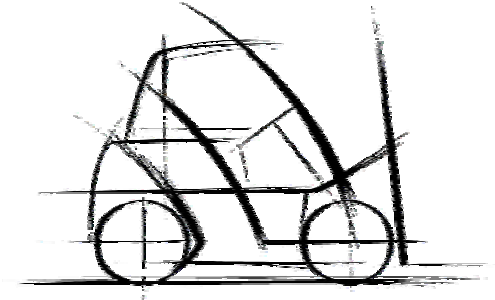
**DO CAUTION TO MOVE ! EXE? NO YES**

**C2 CLEAR ALL HISTORY**

**01 NO YES**

**D0 1.VCM 3. MP 2.ECM**

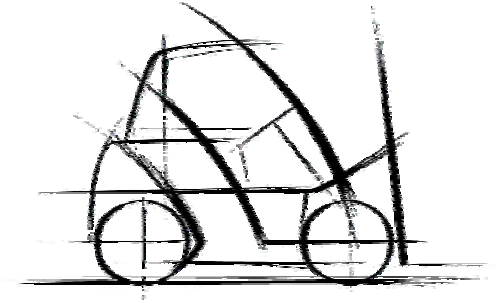
Y39



### VCM Active test D1

Y40

|  |
| --- |
| AUTO LIGHT RELAY |
| WARNING 1 BUZZER |
| WARNING 2 BUZZER |
| NEUTRAL SIGNAL |
| ENGINE STOP RELAY |
| FC RELAY |
| AUXILIARY (OUT1) |
| STARTER RELAY |
| GLOW RELAY |
| UNLOAD/C1 SOLENOID |
| LIFT LOCK SOLENOID |
| TILT LOCK SOLENOID |
| POWER STEERING SOLENOID |
| TRANSMISSION SOLENOID (FORWARD) |

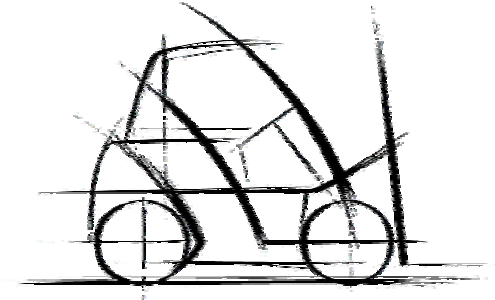


VCM Active test D1 (cont.)

Y41



|  |
| --- |
| TRANSMISSION SOLENOID (REVERSE) |
| TRANSMISSION SOLENOID 2 (FORWARD) |
| FC LIFT (UP) SOLENOID |
| FC LIFT (DOWN) SOLENOID |
| FC TILT (FORWARD) SOLENOID |
| FC TILT BACKWARD) SOLENOID |
| FC ATTACHMENT 1 (A) SOLENOID |
| FC ATTACHMENT 1 (B) SOLENOID |
| FC ATTACHMENT 2 (A) SOLENOID |
| FC ATTACHMENT 2 (B) SOLENOID |
| FC ATTACHMENT 3 (A) SOLENOID |
| FC ATTACHMENT 3 (B) SOLENOID |
| AUXILIARY (D/A1) |
| AUXILIARY (D/A2) |



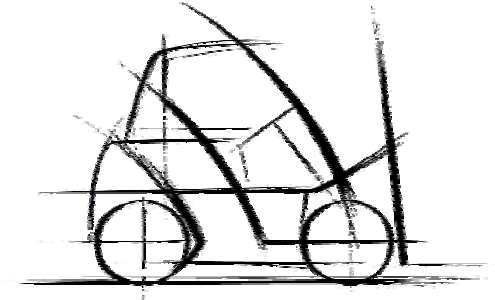
### ECM / MP Active test D2 / D3

|  |
| --- |
| IDLE AIR VOL. LEARN (NORMAL) |
| AIR-FUEL RATIO ADJUSTS |
| LEARNED AIR-FUEL RATIO VALVE |
| CLEAR |
| IGNITION TIMING ADJUSTS |
| SPARK PRESSUR REMOVAL |
| POWER BALANCE |
| SELF-DIAGNOSTIC RESULTS CLEAR |

Y**Turn signal relay off is the**

Y**Only MP test.**

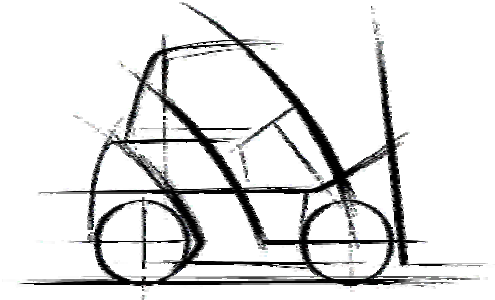
Y42



### Questions ?



Y43



# YExperience the difference.

Y**Thank you**

Y44