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1. ALARM CHECK

1. Step on the acceleration after key .If forward and backward both

not to move. Advice according to following.

<table>
<tr><td rowspan="2">Led no Flash .</td><td rowspan="2">Check chopper's EPROM port volt</td><td>Yes V.</td><td colspan="3">Logic failure</td></tr>
<tr><td>No V.</td><td colspan="3">Check-up fuse and key if failure. Wiring key to D1 if in gear</td></tr>
<tr><td rowspan="6">Flash one.</td><td rowspan="4">Check chopper control-port voltage output whether or not.</td><td>No V.</td><td colspan="3">Logic failure.</td></tr>
<tr><td rowspan="3">Yes volt</td><td rowspan="2">Check acceleration pin unless has volt.</td><td>Yes</td><td>Keep up check chopper's output if it is ok.</td></tr>
<tr><td>No</td><td>Check conned line to the control and the acceleration.</td></tr>
<tr><td rowspan="2">Check chopper control port volt.</td><td>Yes</td><td>If the control's output is ok.</td></tr>
<tr><td>No</td><td>Check seat-switch or hand-switch</td></tr>
<tr><td colspan="3" rowspan="2">Inspect NO.15 wire unless has volt to forward and backward contact coil.</td><td>Yes</td><td>If the control's output is ok.</td></tr>
<tr><td>No</td><td>Check NO.15 wire is break or not.</td></tr>
</table>

2.Step on the acceleration after key on. If forward and backward are both not to moving. But LED is coruscated. Then observe the LED time and the code of instrument.

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2、ALARM CODE

COAD	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－006	FORKTRUCK IS WORK	None	None	H0、H1ND、H2B、DUAL-SEM2

Symptom:

Working is ok.

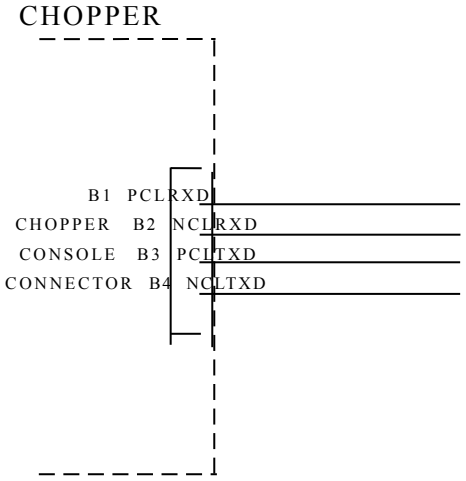
Reason:

a. Turned on the key, working is ok.

b. Inspect: the wire of chopper's pin B (DUAL-SEM is C) and the instrument, and if connection is carve out a way or relax.

c. Instrument is wrong and replacing.

d. Proof the control's parameter again.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－007	STEPPED IS SLOWLY	1	CHOPPER NO CONFIG	H1DN、H2B、DUAL-SEM2 ZAPI.
SYMPTOM: Moving slowly REASON: a. Turn on the key and appear this code. For the setup of the logic is change. b. Inspect: input the right information again.				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－008	LOGIC SELF-DIAGNOSE	1	WATCH DOG	H0、H1DN、H2B
SYMPTOM: No working REASON: a. The test is moving and standby. If slowing the code and you must instead the logic. b. Inspect: logic is wrong and replacing the chopper				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－010	RUNNING IS OK	1	EEPROM DATA KO	H0、H1DN、DUAL-SEM

SYMPTOM:

Running is ok.

REASON:

a. Alarm happens on the area for the EPROM running time. It does not effect the fork-truck moving.

b. Inspect: after opening the key and then closing it immediately. This alarm is disappearing. But notice now the time is setup 0.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－011	NO WORKING	1	EEPROM PAR. KO	H0、H1DN、H2B

SYMPTOM:

No working.

REASON:

a. EPROM memory parameter level is error and the fork-truck is not work.

b. Inspect: after opening the key and then closing it. If the digital-control appears this alarm all the same. Then you should instead the logic. Contrarily indication the alarm is already disappearing. But this time the data of memorizing is already change. So must set over again.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－012	NO WORKING	1	EEPROM CONF. KO	HO、H1DN、H2B
SYMPTOM: No working REASON: a. The data model of memorizing the type of chopper is wrong. b. Inspect: If failure still happens after electro lock is turned off and then on please replace the logic card. If failure code disappears the setting of chopper should be set up again because the ariginal sitting have been replace by wrong data please refer to the handset unit.				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－013	NO WORKING	1	EEPROM KO	H1DN、DUAL-SEM2
SYMPTOM: NO RUNNING REASON: a. The area of memorizing data is wrong so that the fork-truck no work. b. If you close and open the key time after the alarm is all the same being. You must replace the logic unit. On the contrary you must set over again				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－014	RUNNING OK	1	EEPOMM OFF LINE	H2B

SYMPTOM

Running ok

REASON:

a. Fault in the nonvolatile memory that contains data relative to the area for the hour-meter, the alarm stored and the programming parameters.
b. If the alarm persists when the key is switched off and on again, replace the logic.

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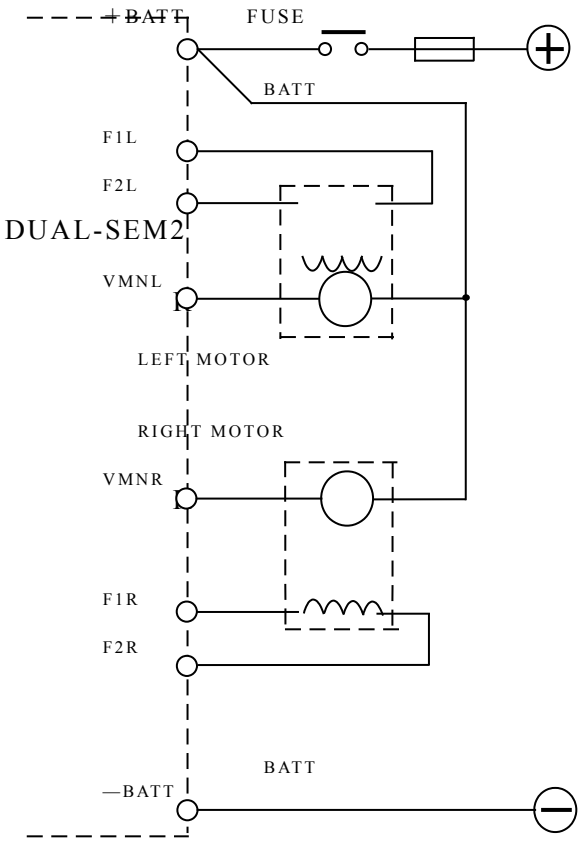
CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
— 015 ， —016	NO WORKING	3	R VMN NOT OK，L VMN NOT OK	DUAL-SEM2

SYMPTOM:

NO RUNNING

REASON:

a. This test is performed at rest, with the main contactor close, and also during operation.
b. At rest if VMN is lower than battery voltage this Alarm is generated Daring operation this Alarm is generated if VMN doesn’t follow the duty cycle of the chopper possible causes.
c. Incorrect motor connection.
d. Frame fault of motor to chassis.
e. Defect in the power unit please replace the chopper.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
— 017 ， —018	NO RUNNING	3	R V FIELD NOT OK，L V FIELD NOT OK	DUAL-SEM2

SYMPTOM:

No working

REASON:

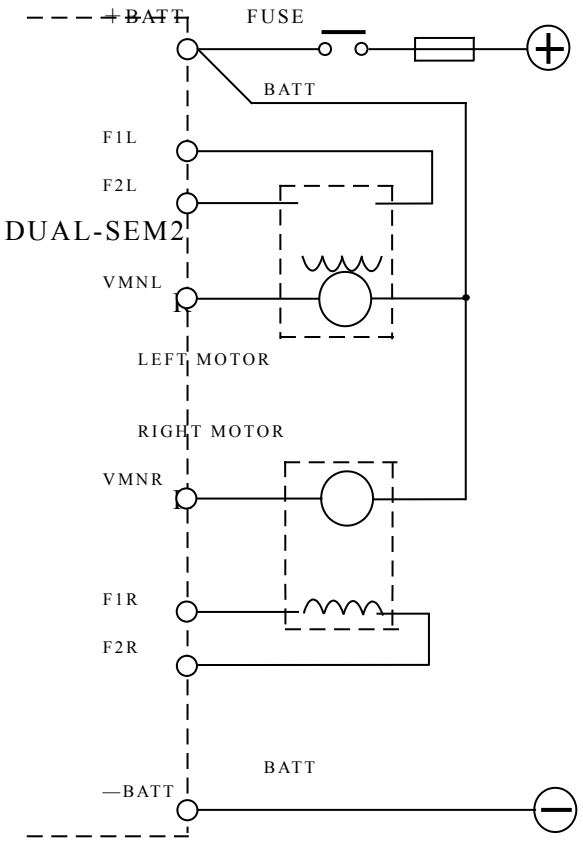
a. This is made at standby with the main contactor open.

b. Inspect: In this condition the voltage on both the connections of field must be to around the 50 percent V BATT. This alarm is generated. If the field voltage is different from this value. Possible causes:

c. Frame fault on the motor to chassis.

d. In correct connection of the field winding to the chopper.

e. Failure of the chopper in the section relative to the field.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
— 020 , —022	RUNNING NOT OK	3	FORW VMN LOW , BACK VMN LOW	H1DN

SYMPTOM

NO WORKING

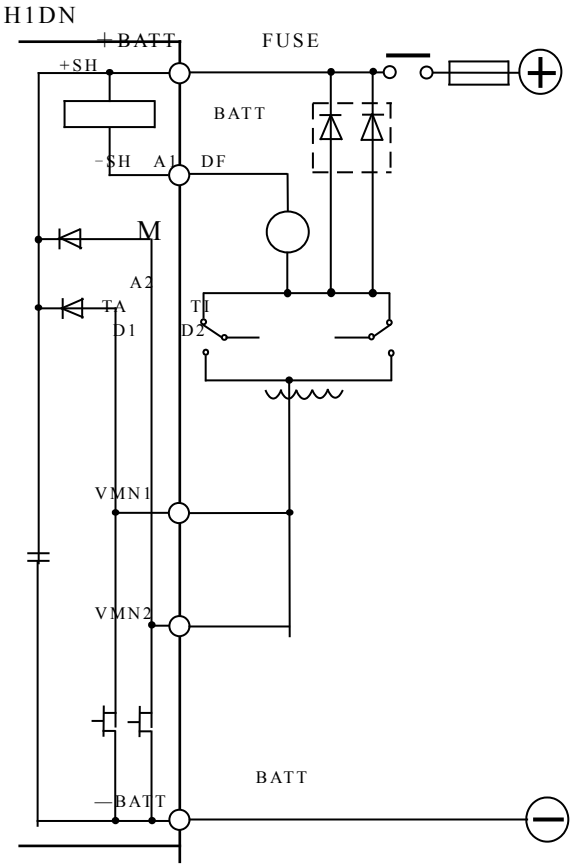
REASON:

a. This test performed at rest. If VMN is lower than 1/3 battery voltage (in gear voltage VMN and -B is lower 80% battery voltage) this alarm is generated. Possible causes:

b. The motor is possible wrong.

c. If the control not output, and please replace the chopper.

H1DN



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－030	RUNNING NOT OK	3	VMN LOW	H2B

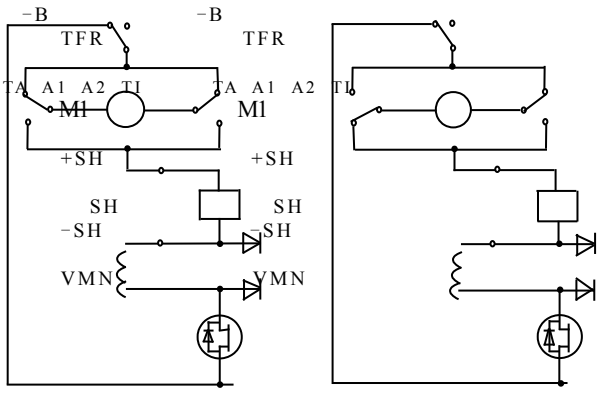
SYMPTOM

NO WORKING

REASON:

a. The test is carried out at standby and in running up to 80% of PWM. If the VMN voltage is lower than 1/3 of the battery voltage, an alarm is shown.

b. Inspect: for finding out the causes follow the diagnosis



CORRECT ERROR

procedure here following. c. At the key on, test1: disconnect the motor cable connected to the battery and then verify if the alarm still present. Result: yes, fault description point: A1. Result: no. Test2: a running contactor is locked in working position, result: yes. Test3: the stuck contact coil is supplied? Result: yes, fault description pointA2. Result: no, fault description point A3. If test2 result: no. Fault description point B1, B2, B3 . d. Running with contactors on running positions. Fault description point: A1. e. As soon as the accelerator pedal is completely released for doing a release braking. Test1: is it present the bypass or weakening contactor? Result: yes. Fault description point: A1. f. A1_ the most probably reason is that it is not stuck or it is too much slow in opening. A2_if the running contactor remains stuck, you can verify: 1, if the wire going from NTA to NT1 is casually in short with a metallic part connector to the	2. Disconnecting the contactor wire always excited from board connector if the contactor is no longer excited, replace the logic board. A3_ A running contactor is stuck on working position, unlock the contactor, it could be possible to replace the contactor. B1_wrong connections of the motor cables. The stator and the armature are crossed. B2_There is a current dispersion in the motor between the stator winding and the armature one otherwise, there are some electric parts of these winging that makes a contact inside the motor. B3_Check that there are not metallic parts inside the contactor board that cause a short towards the negative in the points connected to _SH and +SH. B4_ If there is the bypass contactor check that it is not stuck or it is too much slow in opening.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－031	NO WORKING	8	VMN HIGH	H0、H2B

SYMPTOM

NO WORKING

REASON:

a. Test carried out in standby. If the VMN voltage is greater than 2/3 V. BATT. An alarm is shown.

b. Forward /backward contactor is stuck on working position. Inspect contactor’s touch point is connect or not. And the winding’s line way is correct or error.

c. There is a current dispersion in the motor between the stard or winding and the armature on otherwise, there are some electronic parts of these wining that makes contact inside the motor. Please repair the motor.

d. Short circuit between +BATT and VMN, please check if there are any metallic parts causing short circuit in the contactor board.

e. The motor winding connect error.

f. Logic failure, probably the braking diode are broken, replace the power.

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CODE	OHENOMENON	LIGHT	HANDSET UNIT	TYPE
－033	NO WORKING	3	NO FULL COND	H0、H1DN、H2B

SYMPTOM

No working。

REASON:

a. The test is carried out in full conduction. If in this condition, the VMN is found to be greater than 1/3 V.BATT, the diagnostic circuit is faulty causing a safety risk and this machine operation is in hibitied. If the defect persists, replace the logic.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－037	RUNNING NOT OK	6	CONTACTOR CLOSED	DUAL-SEM2

SYMPTOM

NO WORKING

REASON:

a. This check is made during the initial diagnosis. With the coil of the line contactor denergised the capacitors should not be changed unless there is divert resistor across the power poles. Possible causes.

b. The contactor power poles are welded or slow to open.

c. This alarm could be generated if the line contactor has been opened, but there is a problem with either the field circuit or a problem detected by the safety microprocessor.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－039	NO WORKING	9	BRAKE CON CLOSED	H2B

SYMPTOM

RUNNING NOT OK.

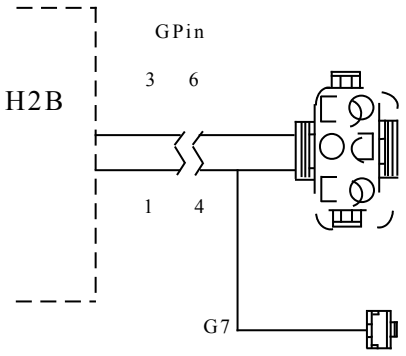
REASON:

a. This test is carried out in the passage from running to initial regenerative braking.

b. If on running contactor closure, the VMN is more than 2/3 V. BATT, an alarm is issued. Possible causes:

c. The normally open contactor of the braking contact is stuck unlock the contact and clean it. If it is too much damaged replace the contactor.

d. The braking contactor remains excited for a defect in the logic board or because the NTFR wire is in short towards the negative.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－040	NO WORKING	8	BRAKE CONT. OPEN	H2B

SYMPTOM

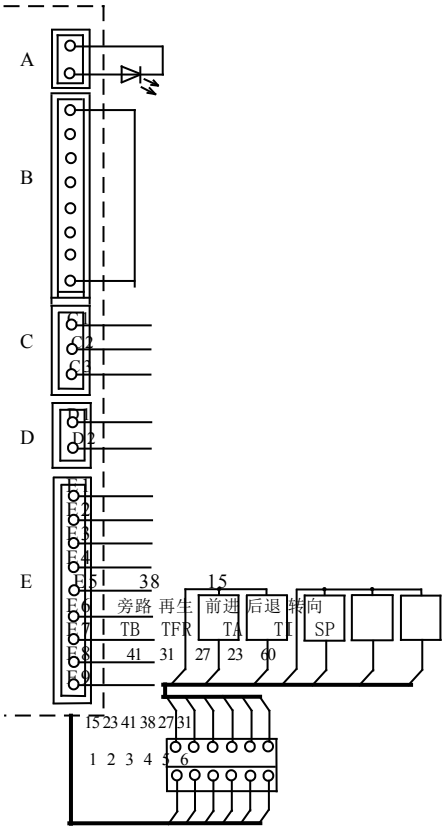
NO WORKING

REASON:

a. Test carried out during the passage to running. After closes, verifying that the VMN goes from less than 1/3 to more than 2/3. if this does not occur, an alarm is shown. And then inspect the fuse.

b. Test: at running request the TFR closes for 0.3sec? result: yes_A1; test: when there's the running request is there a voltage at pin BTFR for a time of 0.3sec? result: yes. Fault result description at point:B2.

H2B CHOPPER



result: no. fault result:A4. test: check with an ohmmeter of the TFR coil is interrupted. Result: yes. Fault result description at point :B1.	A1— there is not a good contact on the NA of TFR, clean the contact, if it too much damaged replace the contact. A2—missing the positive cable on the braking contact A3—supply doesn't come up to the contact coil, please check the cabling and connection from the coil to the connector G4 and G6. B1—replace the contactor coil or the complete contactor. B2—contactor mechanically locked, unlock it and replace it.

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
—041	NO WORKING	9	DIR. CON. CLOSED	H2B

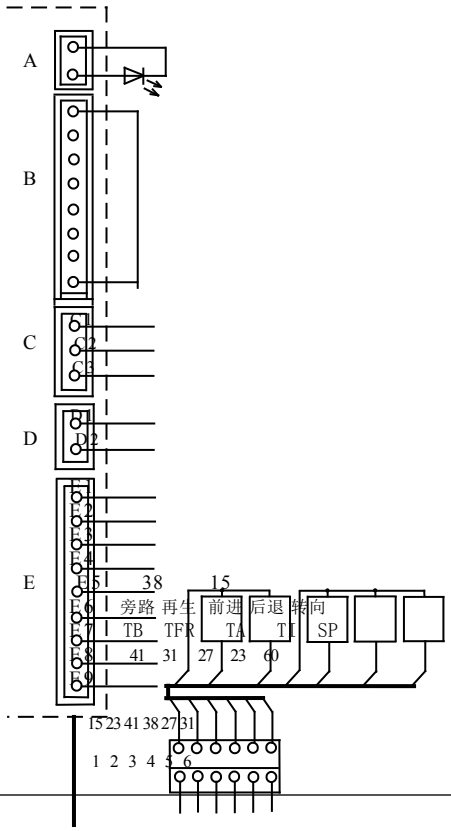
SYMPTOM

NO WORKING.

REASON:

a. Test the VMN voltage carried out during the passage to standby or breaking. Check that the running contactor opens by comparing the consistent status.
b. Running contactor stuck or slow to open.
c. Logic failure.

H2B CHOPPER



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－042	RUNNING NOT OK	8	DIR CONT OPEN	H2B

SYMPTOM:

NO WORKING

REASON:

a. Test carried out running request: running consistent. Possible causes:

b. Phenomenon: condition under which

fault is detected: Only at forward running request. Test: you see forward contactor (TA) closing for 0.3sec. Then opening? Result: yes-A1. Fault description at point: A1, test: when requesting forward running you will find any page at coil contacts for 0.3sec? Result: Yes-A2; No-A3. Only at backward running request. Test: you see backward contactor (T1) closing for 0.3sec, then opening? Result: Yes-A4, test: when requesting backward running you find any voltage at coil contacts for 0.3 sec? Result: Yes-B1, No-B2. At both running request. Test: you see forward or backward contactor (TA or TI) closing for 0.3sec. then opening. Test2: when requesting forward running you find any voltage at TA coil's contacts or at backward contactor coil's contact(BT1) for 0.3 sec? Result: Yes-B4; No-B5.	A1—There is not a good contact either on TA (=forward contactor) ,NA(Normally open) or on TI (= backward contactor), (normally closed). Due to dust, dirt or any particles, which prevent a valid contact. Clean contact by means of compressed air; if necessary remove dirt applying a soft abrasive movement. A2—Forward contactor (TA) is supplied with a correct voltage but it doesn't close. Possible causes: A3—Supply don't come up to TA, please check cabling and connecting from TI coil to connectors PT and NTA. A4—There is not a good contactor either on TI (=backward contactor) NA (normally open) or on TA (= forward contactor) NC (normally closed) due to dust, dirt or any particles which prevent a valid contact clean contacts by means of compressed air. B1—Backward contactor (TI) is supplied with a correct voltage but it doesn't close. B2—Backward contactor (TI) is supplied not voltage. Inspect G1(NO.15) and G2(NO.23) B3—The most probably reason is that the normally
	closed contact of the braking contactor doesn't make a good contact towards the doesn't lean completely for a mechanical defect of the contactor. B4—Backward and forward contactor are supplied with a correct voltage but they don't close; see point B1. B5—Supply don't come up TA and TI. Please check G1 (NO.15) and G5 (NO.27) of TA. Then check G1(NO.15) and (NO.23) of TI.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－049	RUNNING NOT OK	5	I=0 EVER	H0、H1DN、H2B

SYMPTOM

NO WORKING.

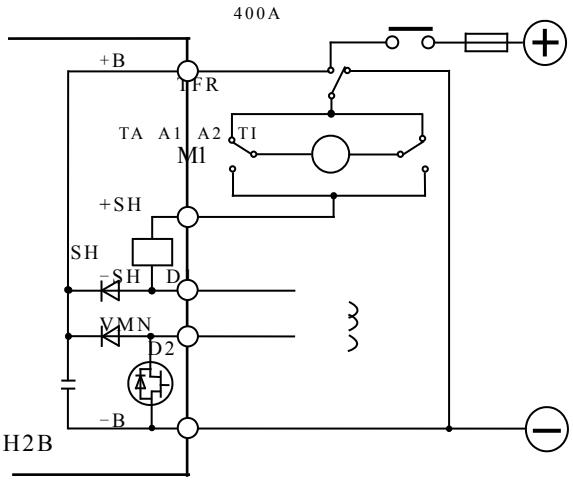
REASON:

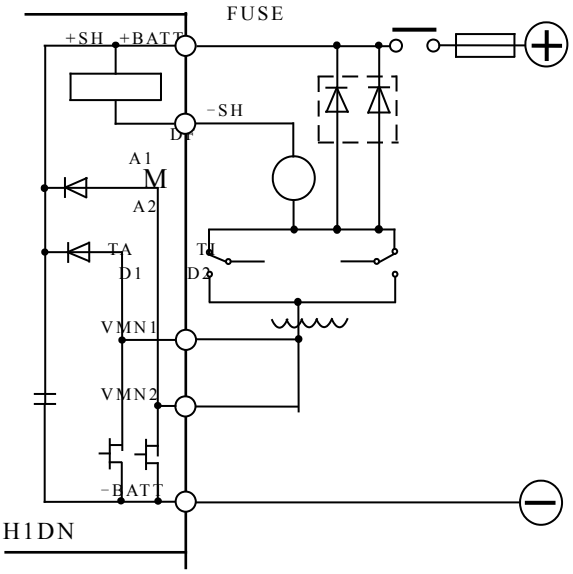
a. Test carried out in running check that the current during running is greater than a minimum value. If not, an alarm is signaled and the machine is shut down. Possible causes:

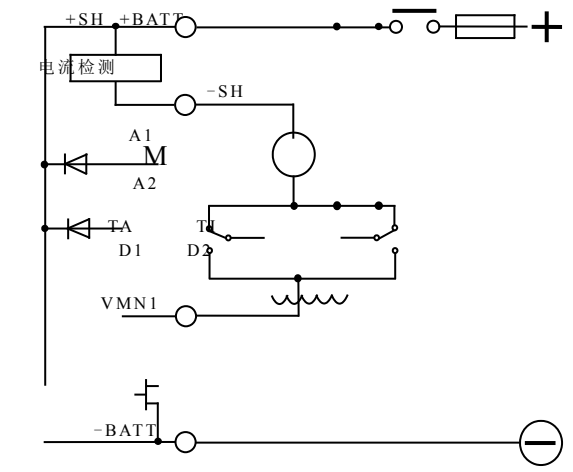
b. The current sensor is faulty replace the power unit.

c. Wrong connections of the motor cables to the power bars SH- and SH+.

d. Wrong of the motor so that a larger than resistance value possible causes: there is a not good connect to brush.







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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－050 －051	NO WORKING	5	RIGHT I=0 EVER , LEFT I=0 EVER	DUAL-SEM2
SYMPTOM NO WORKING. REASON: a. This check is made during travel. If the current is not higher than a present minimum value, this alarm is generated and the machine disabled. Possible causes: b. See STBY I HIGH. Check the motor armature (brush connections)				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－053	NO MOVING	5	STBY I HIGH	H1DN、H2B ZAPI

SYMPTOM

NO WORKING.

REASON:

a. Test carried out in standby. Check that the current is nil. If this is not nil, an alarm is signaled and inhibits machine operation.

b. Pin SH- connects another load or not moving the motor.

c. Current sensor broken and logic failure. First replace the logic and if the defect persists then replace the power unit.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－054 －055	NO MOVING	5	RGT STBY I HIGH，LEFT STBY I HIGH	DUAL-SEM2
SYMPTOM NO WORKING. REASON: a. This test is made during the initial diagnosis and at standby. The test verifies that the current is zero. This alarm disables the machine. Possible causes: b. Defective current sensor. c. Logic failure. First replace the logic, if the fault remains replace the power unit.				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－061	STEPPED IS SLOWLY	7	HIGH TEMPERATURE	DUAL-SEM2
SYMPTOM STEPPED IS SLOWLY. REASON: a. If the temperature of the chopper rises than 77C, this alarm is generated. The chopper current is reduced in proportion to the increase in temperature. At 92C the chopper totally stops. If the temperature of the chopper is less than –10C, this alarm is also generated and the current is reduced by 80%, if this alarm is displayed when the chopper is temperature is the same as ambient or better than zero degrees. b. Check the connection of the temperature sensor. c. The temperature sensor may be				

defective. d. The logic may be defective.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－062	STEPPED IS SLOWLY	7	THERMAL PROTECTION	H0、H1DN、H2B

SYMPTOM

MOVING IS SLOWLY.

REASON:

a. An indication that the controller’s temperature has exceeded 80C (H2B) 76C(H0) 75C(H1DN), and appeared the alarm.

b. The maximum is gradually reduced, reaching 0 at a temperature of 85C(H2B, H1DN), 86C(H0).

c. If the alarm occurs while cold, the most probably reason is the failure of the thermic diagnosis circuit on the power or on the logic board, replace on of the two

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parts or replace the complete controller. d. If the alarm often occurs after short time the machine is working, probably it is due to inadequate heat sink, check the fixing nuts tightening and the correct installation.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－066	STEPPED IS SLOWLY	32	BATTERY LOW	H0、H1ND、H2B、DUAL-SEM2

SYMPTOM RUNNING TO SLOW. REASON a. The battery charge is low. The alarm is signaled only if the “BATTERY CHECK” option has been selected from the serial console (default). When this alarm occurs, the maximum current is reduced to 50%.	

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－070 －071 －072 －073	NO WORKING	5	R FIELD I LOW，L FIELD I LOW，R FIELD HIGH，L FIELD I HIGH	DUAL-SEM2
SYMPTOM NO WORKING. REASON a. Problem detected with the field winding current. Possible causes: b. Failure of the field current sensor. c. Field cables not connected or incorrectly connected. d. Open circuit field winding. e. Failure of the field power unit.				

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－075	RUNNING NOT OK	6	CONTACTOR DRIVER	DUAL-SEM2

SYMPTOM:

NO WORKING.

REASON:

a. The alarms are generated if there is a problem with the main contactor. Possible causes:

b. The coil of the contactor is either short circuit. Open circuit or not connected.

c. The contactor coil drive is short circuit.

d. Defect in the wiring to

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the contact, or logic failure.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－075	RUNNING NOT OK	6	CONTACTOR DRIVER	H1DN

SYMPTOM: NO WORKING. REASON: a. The test is made in both running and standby. The test verifies that the contactor voltage is high of running and standby low. Using handiest unit inspect E3, E8. And running to GND, standby to	

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VCC. If not, possible causes:

b. There is a short circuit between E3 and E8.

c. Due to over loading or short circuit so that the driving enginery is damaged.

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－076	RUNNING NOT OK	6	COIL SHORTED	H2B

SYMPTOM

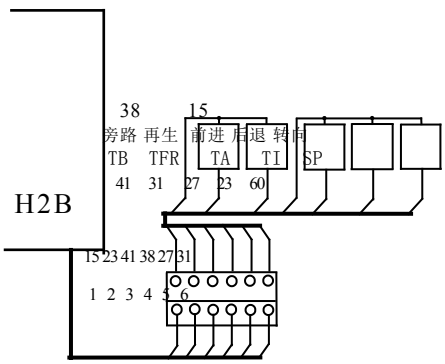
RUNNING NOT OK.

REASON:

a. Contactor driver output over load or short circuit with BATT+. Possible causes:

b. Contactor coil shorted or passed the current than 6A.

c. The line of contact pin is shorted with BATT+. The alarm



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phenomenon has happened the over loading, but not the chopper wrong.

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－076	NO WORKING	6	COIL SHORTED	DUAL-SEM2

SYMPTOM:

RUNNING NOT OK

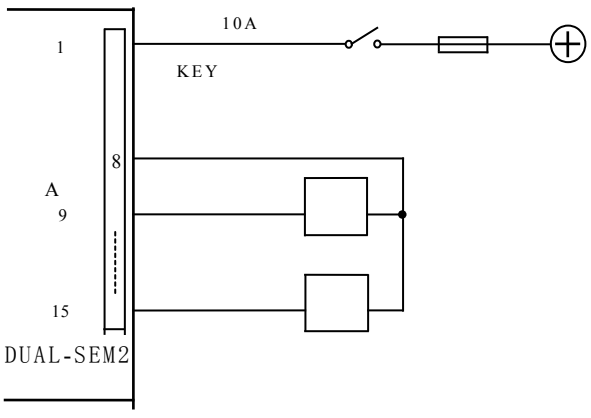
REASON:

a. Contact coil shorted. Possible causes.

b. Contact coil wrong.

c. Connection the coil wrong.

d. Connection the contact wrong or logic.



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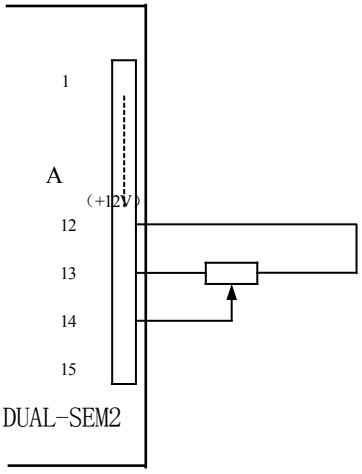
CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－078	RUNNING NOT OK	4	VACC NOT OK	H1DN、H2B、DUAL-SEM2

SYMPTOM

NO WORKING.

REASON:

a. Test the output voltage of acceleration under standby. The alarm is generated if the acceleration output voltage differs more than 2V from the acquired



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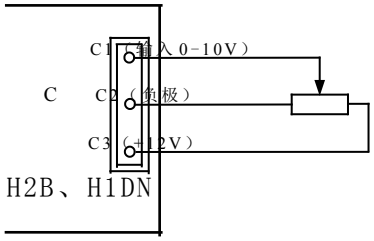
minimum during the PROGRAM VACC; possible causes: b. The track of the potentiometer is not wired correctly. c. The potentiometer itself is defective.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－079	RUNNING NOT OK	2	INCORRECT START	H0、H1ND、H2B、DUAL-SEM2

SYMPTOM: NO WORKING. REASON: a. The alarm generated by an incorrect starting sequence. Possible causes: b. The ENABLE micros-witch sequence has welded or failed. c. Error in the starting sequence	

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from the operator. d. Error in the wiring and replace the logic.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－080	NO WORKING	ALWAYS LIGHT	FORW＋BACK	H0、H1ND、H2B、DUAL-SEM2

SYMPTOM: NO WORKING. REASON: a. This check is made continually. The alarm is generated when forward and reverse directions are requested simultaneously. Possible causes: b. Incorrect wiring. c. Welding or failure of a direction switch.	

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d. Incorrect operation from the operator.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－084	NO WORKING	4	STEER SENSOR KO	DUAL-SEM2

SYMPTOM

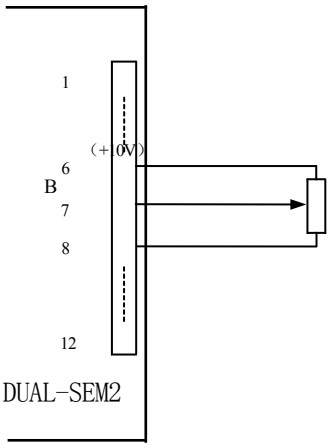
NO WORKING.

REASON.

a. The control microprocessor verifies that the steering signal is in the range stored. Possible causes:

b. Bad end of stroke stored.

c. Error in the steering potentiometer.



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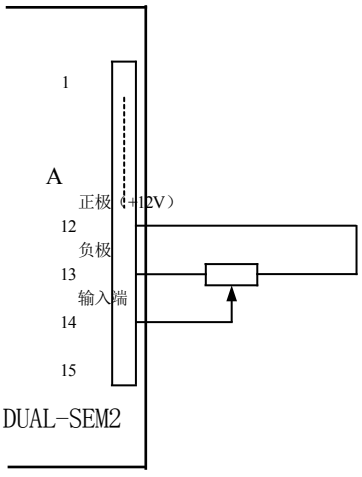
CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－086	NO WORKING	4	PEDAL WIRE KO	DUAL-SEM2

SYMPTOM:

NO WORKING.

REASON:

a. This alarm is generated if potentiometer or wiring fault is detected (NPOT or PPOT are open circuit), then appearing the alarm.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－086	NO WORKING	6	PEDAL WIRE KO	H0

SYMPTOM

NO WORKING.

REASON:

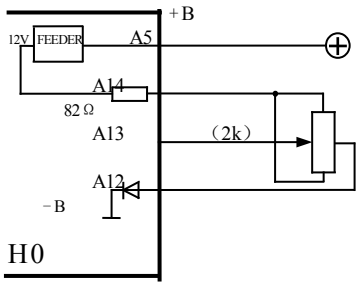
a. On NPOT pin (A12), where potentiometer negative is connected, no voltage is detected, thus indicating that potentiometer is not supplied due 1 of 2 supply wires cut off.

b. Wire toward PPOT (A14) is disconnected.

c. Wire toward NPOT (A12) is disconnected.

d. Potentiometer resistance is cut off.

e. Potentiometer presents a resistance greater than 47 K-ohm.



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CODE	PENOMENON	LIGHT	HANDSET UNIT	TYPE
－090	NO WORKING	8	DRIVER 1 KO	H0

SYMPTOM:

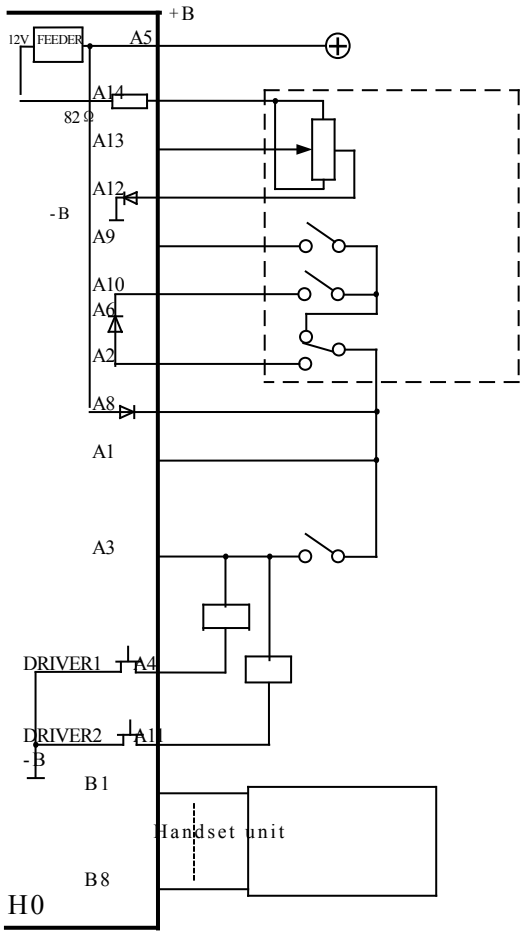
RUNNING NOT OK.

REASON:

a. Indicates that NT1 (A11) connector voltage is not consistent with the expected value; the machine is inhibited possible causes:

b. Either wire toward NT1 connector is disconnected or backward contactor coil is break off.

c. Inside chopper mosfet is shorted; replace chopper.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－091	NO WORKING	8	DRIVER 2 KO	H0

SYMPTOM:

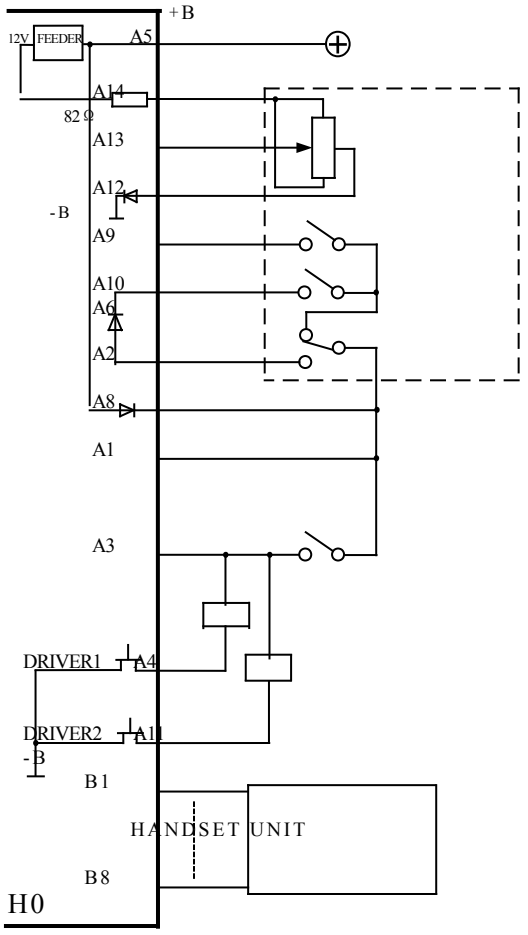
NO WORKING.

REASON:

a. Indicates that NT2 (A4) connector voltage is no consistent with the expected value; the machine is inhibited. Possible causes:

b. Either wire toward NT2 connector is disconnected or forward contactor coil is break off.

c. Inside chopper mosfet is shorted; replace chopper.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－092	NO WORKING	8	DRIVER 1 SIC KO	H0

SYMPTOM:

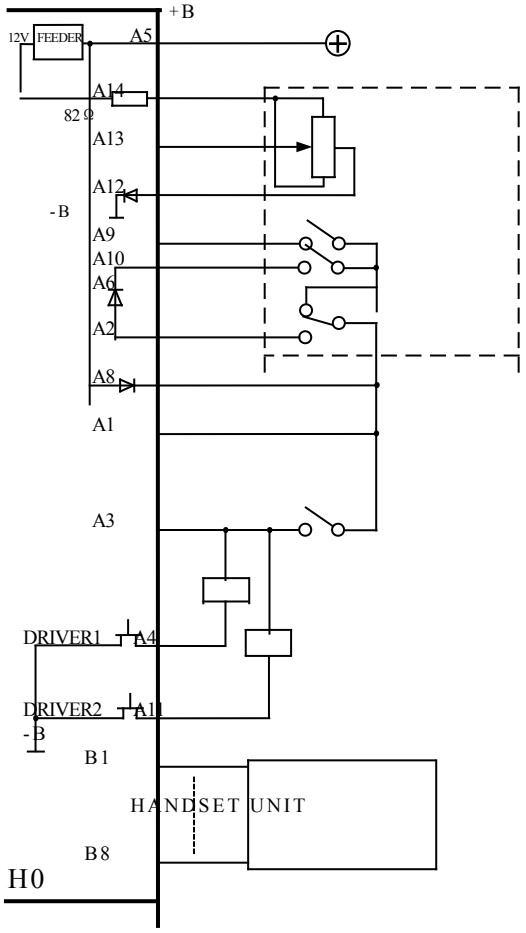
NO WORKING.

REASON:

a. In indicates a current on driver of contactor connected to NT1 (A11); the machine is inhibited. Possible causes:

b. Short circuit between positive and the wire toward NT1.

c. Contactor coil shorted or coil current up take greater than 5A.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－093	NO WORKING	8	DRIVER 2 SIC KO	H0

SYMPTOM

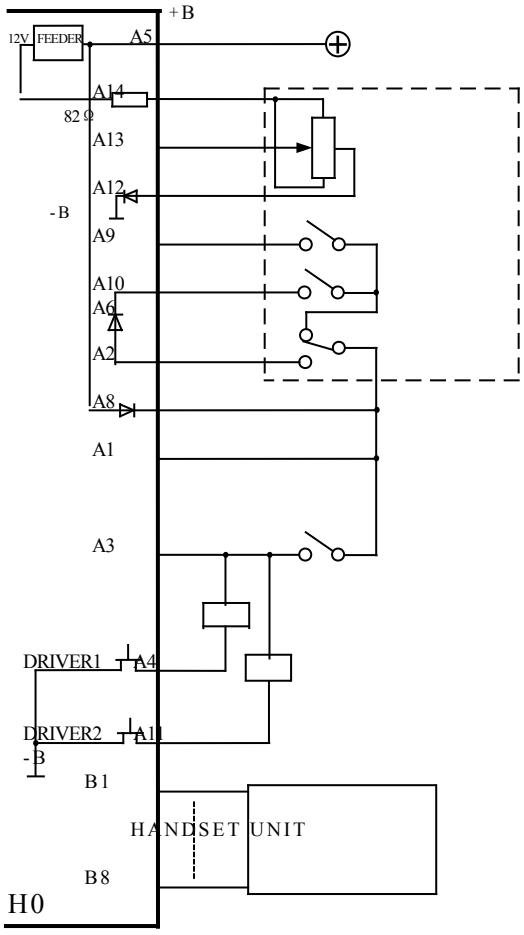
NO WORKING.

REASON:

a. It indicates a current over load on driver of contactor to NT2 (A4); the machine is inhibited, possible causes:

b. Short circuit between positive and the wire toward NT2.

c. Contactor coil shorted or coil current up take greater than 5A.



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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－094	NO WORKING	1	MICRO CHECK KO	DUAL-SEM2

SYMPTOM:

NO WORKING

REASON:

a. During the initialize diagnose, the main microprocessor inspected and fix on the safety microprocessor. If it is error, then appear the alarm, possible causes:
b. Safety microprocessor was failure.
c. Safety microprocessor was in danger, and contactor not working.
d. Logic was fault, advice replace the logic card.

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CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－096	NO WORKING	8	BRAKE DRIVER KO	DUAL-SEM2
SYMPTOM: NO WORKING. REASON: a. It is appear when testing to the electronic brake. Possible causes: b. Driving machine short-circuit. c. Driving machine is wrong. d. The electronic brake coil’s discharge-loop is wrong.				
CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－096	RUNNING NOT OK	9	INVERSION	H0

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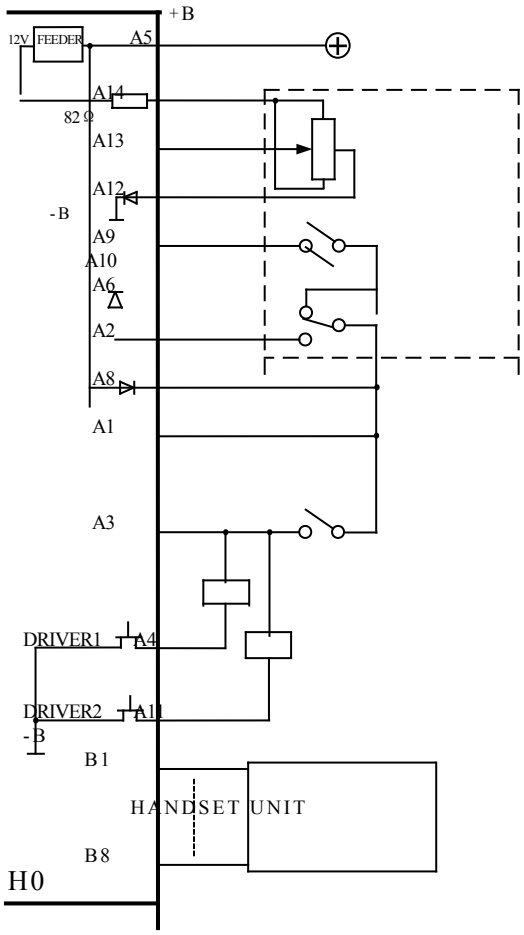
SYMPTOM:

RUNNING NOT OK.

REASON:

a. It indicates that quick inversion key is being pressed at key-start-up possible error.
b. Quick inversion micro switch stuck.
c. Operator action error.
d. Error either in quick inversion micro switch cabling or in programming; this alarm occurs, for example, whenever, following scheme, it's cabled to use IRZ input, while chopper is programmed for IRE or viceversa. See par 4.5 and drawings chapter 6.



CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－097	NO WORKING	9	POSITION HANDLE	H0

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SYMPTOM: NO WORKING. REASON: a. It indicates that tiller was lowered into running position prior to key-start-up. This alarm is not activated if SAFETY SWITCH is programmed FREE. Possible causes: b. Operator error relating to correct sequence and tiller micro switch stuck.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－097	NO WORKING	2	HANDBRAKE	DUAL-SEM2

SYMPTOM RUNNING NOT OK. REASON: a. The alarm phenomenon handle	

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brake is not opened before closed the key. b. Possible causes: the order of operation is wrong or handbrake switch conglutination.	

CODE	PHENOMENON	LIGHT	HANDSET UNIT	TYPE
－098	NO WORKING	NONE	NONE	DUAL-SEM2

SYMPTOM RUNNING NOT OK. REASON: a. Instrument has a EPROM itself to save the hour data. If the chopper has been instead, the hour data will distract to new chopper. So the fork truck's	

maintenance data may not lose for replacing the chopper. And you must operate to following. b. With the key switch open, connect the ZAPI console (mini NOT connected). Close the key switch . set the function “LOAD HM FROM MDI” to ON. this can be found in the HARDWARE SETTING MEU (ZAPI protected menu). In some versions, this function may be called “AUX FUNCTION 1” to ON. c. Open the key switch. Disconnected the ZAPI console. Connect the MDI and then close the key switch. d. Notice: the alarm “-98”, after one minute this alarm will be disappear. And then the fork truck is OK.	

The Alarm Check Handbook Of ZAPI Control

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