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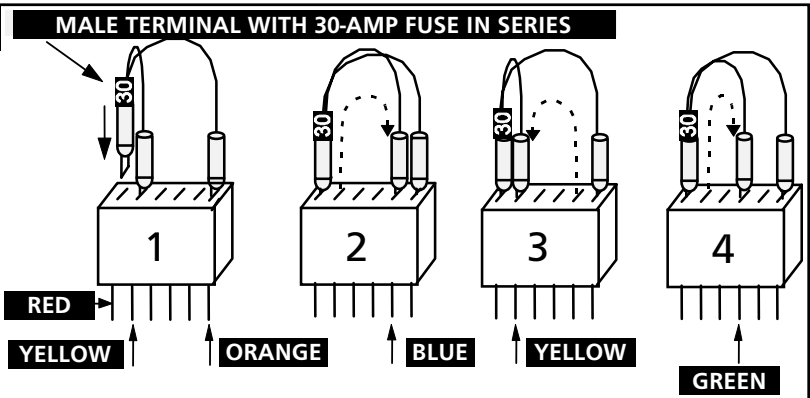


STEP 8

CHECK HARNESS 251

Check connections to Harness 251 by following the four steps below; at each step, check if vehicle circuits react correctly.

- 1) Ignition and Accessories
- Dashboard lights should come on;
  - You should be able to turn on heating system fan.
- 2) Start
- Starter should respond.
- 3) Air-conditioning system (if applicable)
- Air from the air-conditioning system should start to get cold.
- 4) Parking lights
- All 4 parking lights should come on.



NOTES:

If vehicle circuits do not react as described in each step, vehicle may require an additional circuit of the same type.

If vehicle does not start or is difficult to start in Step 2, it may need an additional ignition or start circuit.

STEP 12

ANTITHEFT  
"REMOTE - FREE" MODE

This accessory must go from OFF position to ON position then return to OFF when vehicle ignition circuit is energized in order to disable output that controls cut-out.

This input can be programmed to detect a positive or negative polarity. See programming level 3.

For more details, consult complete Installation Manual (193-126-121).

TACHOMETER MODE

In this mode, LED should flash approximately 4 times per second when engine is idling.

If it flashes faster, increase number of programmed cylinders.

If it flashes slower, reduce number of programmed cylinders.

After reaching appropriate number of cylinders, start engine with remote control. Turn engine over while watching LED. When speed reaches approximately 3,000 rpm, LED should stay lit and remote starter should cut engine.

FAIL TO START CODES

- 1 Stopped by remote control
- 2 Stopped by applying brakes
- 3 Not applicable
- 4 No tach reading (rpm)
- 5 Hood open
- 6 Transmission not in P or N
- 7 Ignition already in "ON" position
- 8 Main switch in "OFF" position
- 9 Run time expired
- 10 Start cycle expired
- 11 Tach signal already present
- 12 Rpm above 3,000
- 13 Rpm too low
- 16 Internal module error

PROGRAMMING

If module is in programming mode, LED flashes same number of times as current programming level, when brakes are applied.

Refer to installation manual "Troubleshooting" section (193-226-121).

STEP 14

PROGRAMMING

Programming is done by levels; use DIP switches 1-3 to select programming level (group).

In each level, all parameters must be programmed in a single programming step, i.e., select DIP switches 4-8 to combine parameters to be programmed.

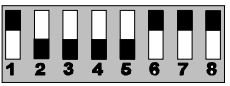
Programming is done as follows.

- Select DIP switches for programming required: DIP switches 1-3 determine programming level, DIP switches 4-8 determine parameters to be programmed.
- Apply brakes (to enter selected parameters in memory).
- Repeat Steps 1 and 2 for each level that requires programming changes.
- When finished, put all DIP switches back to "OFF" position, then apply brakes again.

EXAMPLE 1

Suppose you have to program the module for eight cylinders with a reduced starter cut-off speed and a 3 x 6 second start cycle.

- 1) Place DIP switches in following position.
- Refer to programming level 2.
- DIP switches 1-3 determine programming level (group).
- DIP switches 4-6 determine number of cylinders.
- DIP switch 7 determines starter cut-off speed.
- DIP switch 8 determines start cycle.
- 2) Apply brakes (to enter in memory position of DIP switches).
- 3) When you have finished programming this level, proceed to next programming level or (if programming completed) put all DIP switches back to "OFF" position, then apply brakes again.



EXAMPLE 2

Suppose you have programmed the module as shown in Example 1 and you only want to change start cycle to 1 x 15 seconds.

- 1) Place DIP switches in following position:



DIP switches 1-3 determine programming level (group).

However, DIP switches 4-7 must still be placed in correct position for parameters you do not want to change since they are determined by position of these DIP switches when level is selected.

DIP switch 8 is then placed in "OFF" position to change start cycle to 1 x 15 seconds.

- 2) Apply brakes.
- 3) When you have finished programming this level, proceed to next programming level or put all DIP switches back to "OFF" position, then apply brakes again.

WHITE parameters on BLACK background indicate initial programming (manufacturer).

Switch "ON" Switch "OFF"

LEVEL 1

INSTALLATION MODE (TEMPORARY)	1 2 3 4 5 6 7 8
RESET	1 2 3 4 5 6 7 8
INITIAL PROGRAMMING	1 2 3 4 5 6 7 8
CODE LEARNING OF ADDITIONAL REMOTE CONTROL	1 2 3 4 5 6 7 8
MULTITEST MODE	1 2 3 4 5 6 7 8

LEVEL 2

ENGINE CONFIGURATION (1)

1 CYLINDER	1 2 3 4 5 6 7 8
2 CYLINDERS	1 2 3 4 5 6 7 8
3 - 4 CYLINDERS	1 2 3 4 5 6 7 8
5 - 6 CYLINDERS	1 2 3 4 5 6 7 8
8 CYLINDERS	1 2 3 4 5 6 7 8
10 CYLINDERS	1 2 3 4 5 6 7 8
12 CYLINDERS	1 2 3 4 5 6 7 8
STARTER CUTOFF RPM	1 2 3 4 5 6 7 8
NORMAL	1 2 3 4 5 6 7 8
REDUCED	1 2 3 4 5 6 7 8
CRANKING CYCLE	1 2 3 4 5 6 7 8
1X15 SECONDS	1 2 3 4 5 6 7 8
3X6 SECONDS	1 2 3 4 5 6 7 8

LEVEL 3

ENGINE CONFIGURATION (2)	1 2 3 4 5 6 7 8
GAS	1 2 3 4 5 6 7 8
DIESEL	1 2 3 4 5 6 7 8
2 MIN 4 MIN	1 2 3 4 5 6 7 8
8 MIN 16 MIN	1 2 3 4 5 6 7 8
15 MIN 30 MIN	1 2 3 4 5 6 7 8
20 MIN 40 MIN	1 2 3 4 5 6 7 8
3 SECONDS DELAYED	1 2 3 4 5 6 7 8
CONSTANT	1 2 3 4 5 6 7 8
GLOW PLUGS / ANTI-THEFT DEACTIVATION	1 2 3 4 5 6 7 8

LEVEL 4

ALARM AND UN/LOCK OPTIONS	1 2 3 4 5 6 7 8
DISABLED	1 2 3 4 5 6 7 8
MANUAL	1 2 3 4 5 6 7 8
SEMI-AUTOMATIC	1 2 3 4 5 6 7 8
AUTOMATIC	1 2 3 4 5 6 7 8
30 SECONDS	1 2 3 4 5 6 7 8
60 SECONDS	1 2 3 4 5 6 7 8
1 SECOND (ELECT)	1 2 3 4 5 6 7 8
3 SECONDS (VACUUM)	1 2 3 4 5 6 7 8
DISABLED	1 2 3 4 5 6 7 8
ENABLED	1 2 3 4 5 6 7 8

LEVEL 5

REARMING - RS/STS - SENTINEL	1 2 3 4 5 6 7 8
REARMING	1 2 3 4 5 6 7 8
DISABLED	1 2 3 4 5 6 7 8
ENABLED	1 2 3 4 5 6 7 8
TYPE (1)	1 2 3 4 5 6 7 8
TYPE (2)	1 2 3 4 5 6 7 8
OPERATING MODE	1 2 3 4 5 6 7 8
RS-123/RS-126	1 2 3 4 5 6 7 8
STS-120	1 2 3 4 5 6 7 8
-5° C	1 2 3 4 5 6 7 8
-15° C	1 2 3 4 5 6 7 8
-22° C	1 2 3 4 5 6 7 8
-30° C	1 2 3 4 5 6 7 8

LEVEL 6

ACCESSORIES DELAY AND OUTPUT #1	1 2 3 4 5 6 7 8
3 SECONDS	1 2 3 4 5 6 7 8
NO DELAY	1 2 3 4 5 6 7 8
PULSE BEFORE	1 2 3 4 5 6 7 8
PULSE AFTER	1 2 3 4 5 6 7 8
PassKey®	1 2 3 4 5 6 7 8
IGNITION	1 2 3 4 5 6 7 8
PULSE AFTER IGNITION	1 2 3 4 5 6 7 8
STARTING	1 2 3 4 5 6 7 8
PULSE AFTER STARTING	1 2 3 4 5 6 7 8
IGNITION	1 2 3 4 5 6 7 8
ACCESSORIES	1 2 3 4 5 6 7 8
START	1 2 3 4 5 6 7 8
TRUNK	1 2 3 4 5 6 7 8
HORN	1 2 3 4 5 6 7 8
CARBURETOR	1 2 3 4 5 6 7 8
L.E.D. (DIAGNOSTICS)	1 2 3 4 5 6 7 8
UTILITY # 1	1 2 3 4 5 6 7 8
1 SECOND	1 2 3 4 5 6 7 8
1 MINUTE	1 2 3 4 5 6 7 8
8 MINUTES	1 2 3 4 5 6 7 8

LEVEL 7

ANTITHEFT TYPE AND OUTPUT #2	1 2 3 4 5 6 7 8
REMOTE	1 2 3 4 5 6 7 8
REMOTE - FREE	1 2 3 4 5 6 7 8
PULSE BEFORE	1 2 3 4 5 6 7 8
PULSE AFTER	1 2 3 4 5 6 7 8
PassKey®	1 2 3 4 5 6 7 8
IGNITION	1 2 3 4 5 6 7 8
PULSE AFTER IGNITION	1 2 3 4 5 6 7 8
STARTING	1 2 3 4 5 6 7 8
PULSE AFTER STARTING	1 2 3 4 5 6 7 8
IGNITION	1 2 3 4 5 6 7 8
ACCESSORIES	1 2 3 4 5 6 7 8
START	1 2 3 4 5 6 7 8
TRUNK	1 2 3 4 5 6 7 8
HORN	1 2 3 4 5 6 7 8
CARBURETOR	1 2 3 4 5 6 7 8
L.E.D. (DIAGNOSTICS)	1 2 3 4 5 6 7 8
UTILITY # 2	1 2 3 4 5 6 7 8
1 SECOND	1 2 3 4 5 6 7 8
1 MINUTE	1 2 3 4 5 6 7 8
8 MINUTES	1 2 3 4 5 6 7 8

LEVEL 8

OPTION DL-(X) AND OUTPUT #3	1 2 3 4 5 6 7 8
DL-X	1 2 3 4 5 6 7 8
OPTION #1	1 2 3 4 5 6 7 8
OPTION #2	1 2 3 4 5 6 7 8
PULSE BEFORE	1 2 3 4 5 6 7 8
PULSE AFTER	1 2 3 4 5 6 7 8
PassKey®	1 2 3 4 5 6 7 8
IGNITION	1 2 3 4 5 6 7 8
PULSE AFTER IGNITION	1 2 3 4 5 6 7 8
STARTING	1 2 3 4 5 6 7 8
PULSE AFTER STARTING	1 2 3 4 5 6 7 8
IGNITION	1 2 3 4 5 6 7 8
ACCESSORIES	1 2 3 4 5 6 7 8
START	1 2 3 4 5 6 7 8
TRUNK	1 2 3 4 5 6 7 8
HORN	1 2 3 4 5 6 7 8
CARBURETOR	1 2 3 4 5 6 7 8
L.E.D. (DIAGNOSTICS)	1 2 3 4 5 6 7 8
REARM	1 2 3 4 5 6 7 8
UNLOCK	1 2 3 4 5 6 7 8
UNLOCK	1 2 3 4 5 6 7 8