Programming Lift and Speed Limits

MCFA Document: 000013-14C
Issue Date: 6/9/2014

Model And Serial Number(s):

EC22N2-EC30LN2

ATB30-00011-up ATB31-30001-up
ATB30-50001-up ATB31-50001-up
ATB31-00011-up ATB32-00011-up

Programming Lift and Speed Limits

Subject:

Programming lift and speed limits.

Cause:

Some dealers may not know how to program lift or speed limits.

Resolution:

Use the following instructions to program lift or speed limits.

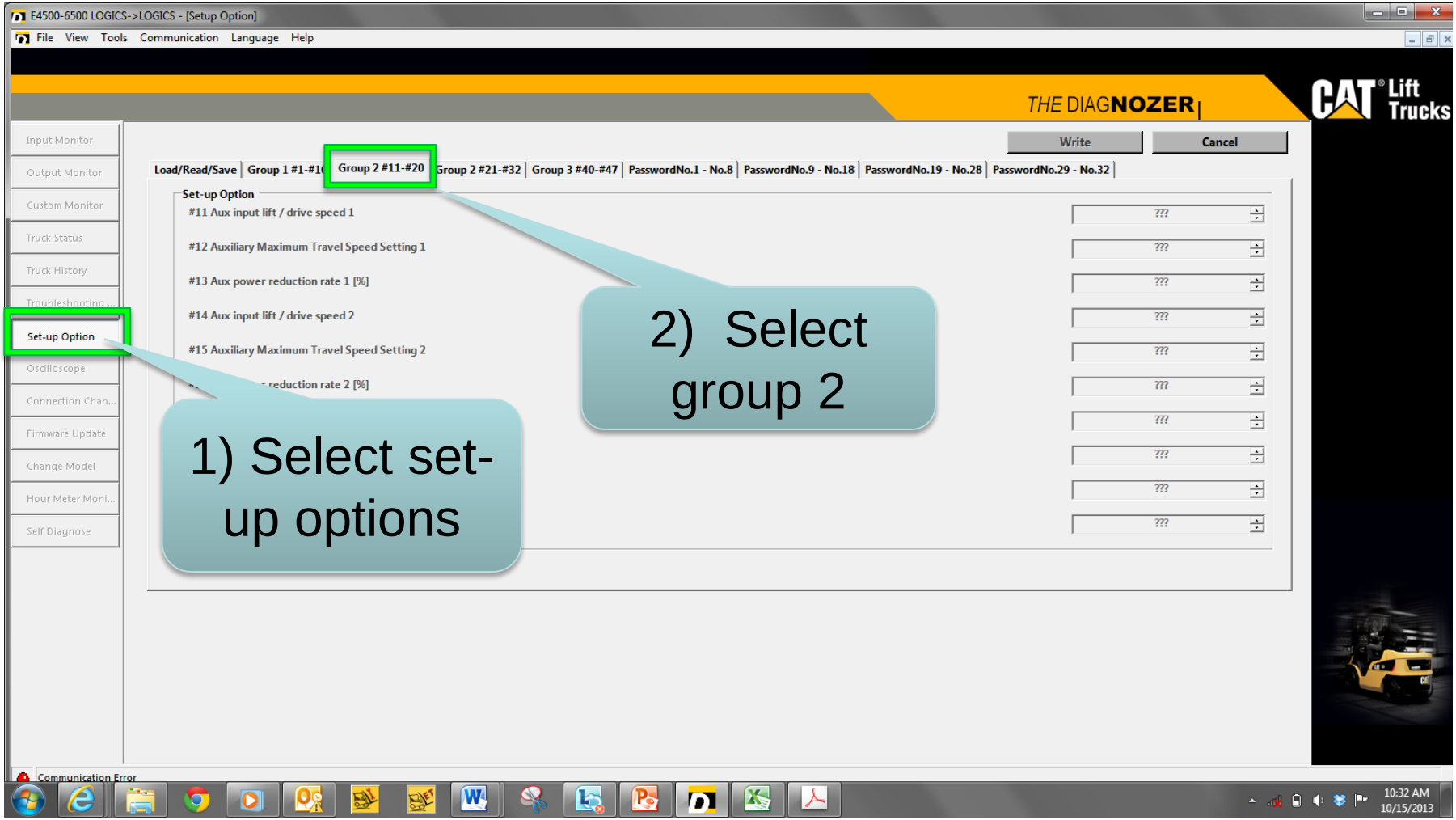
Programming Lift and Speed Limits

- Refer to Service Manual and Operation and Maintenance Manual (OMM) for safety guidelines prior to working on equipment.

- Make all repairs with the lift truck parked on a level, hard surface. Block the lift truck so it does not roll while working on or under the lift truck.

- Ensure enforcement of company policy for proper lockout/tag out procedure.

Programming Lift and Speed Limits



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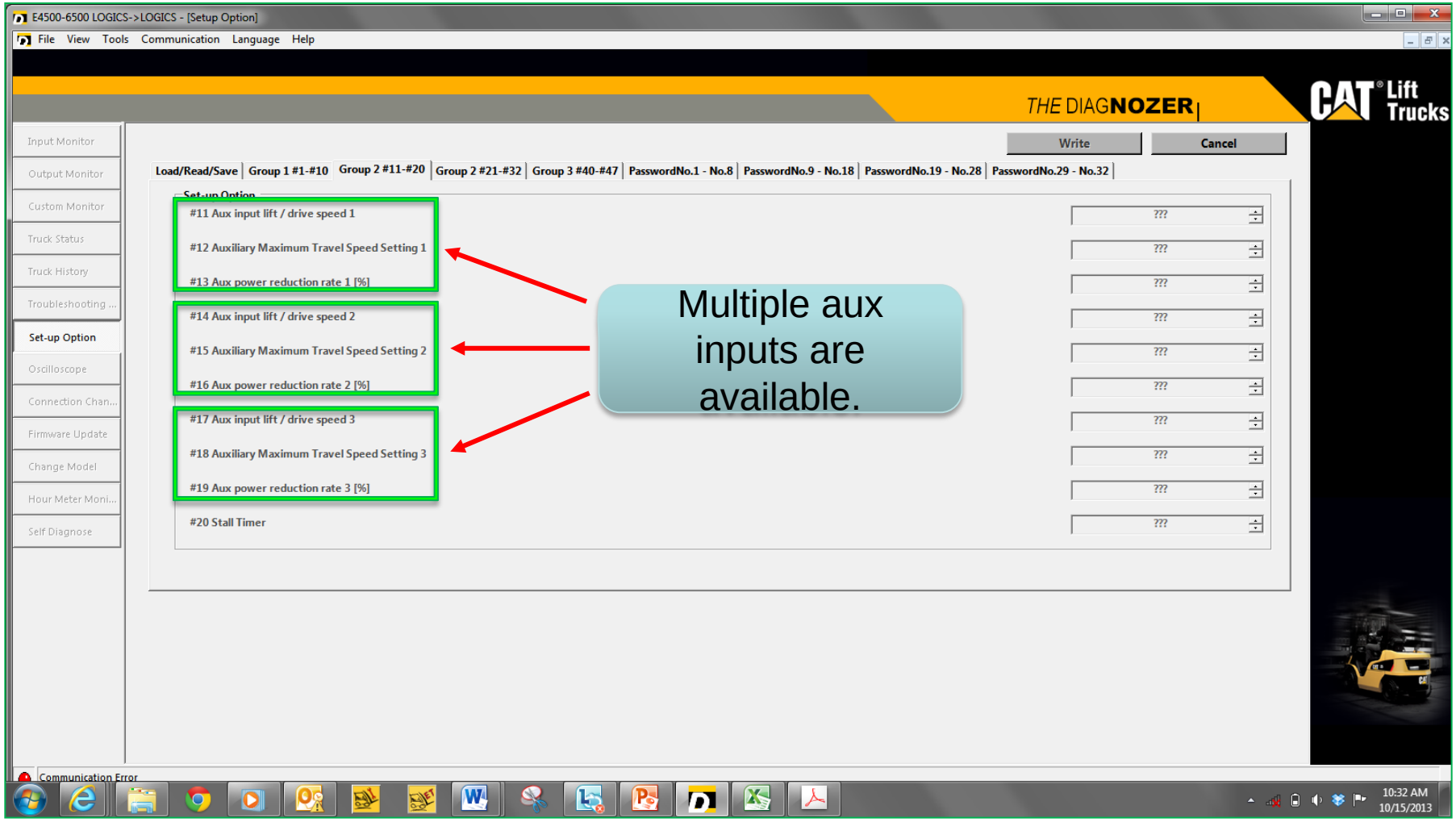

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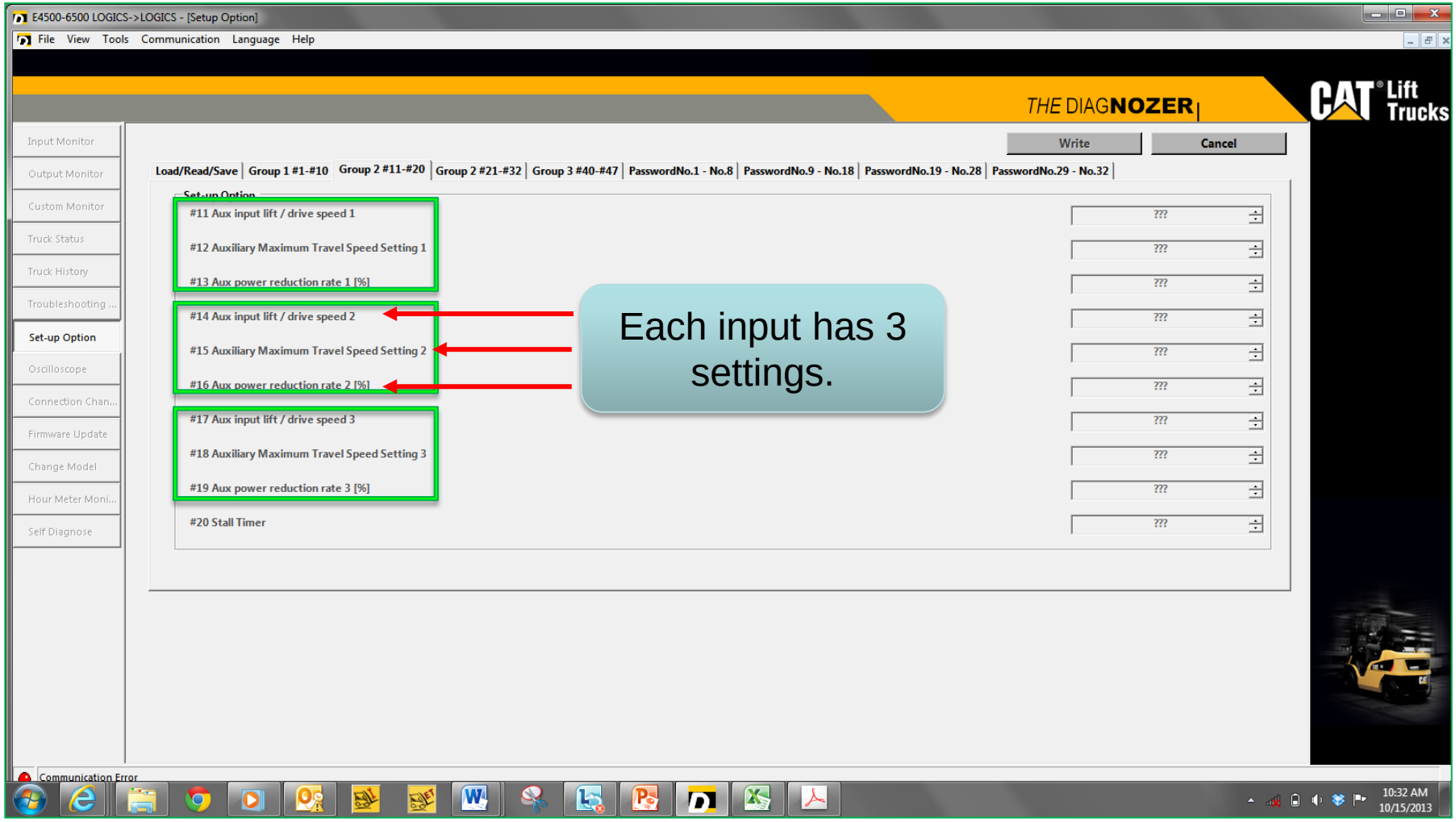

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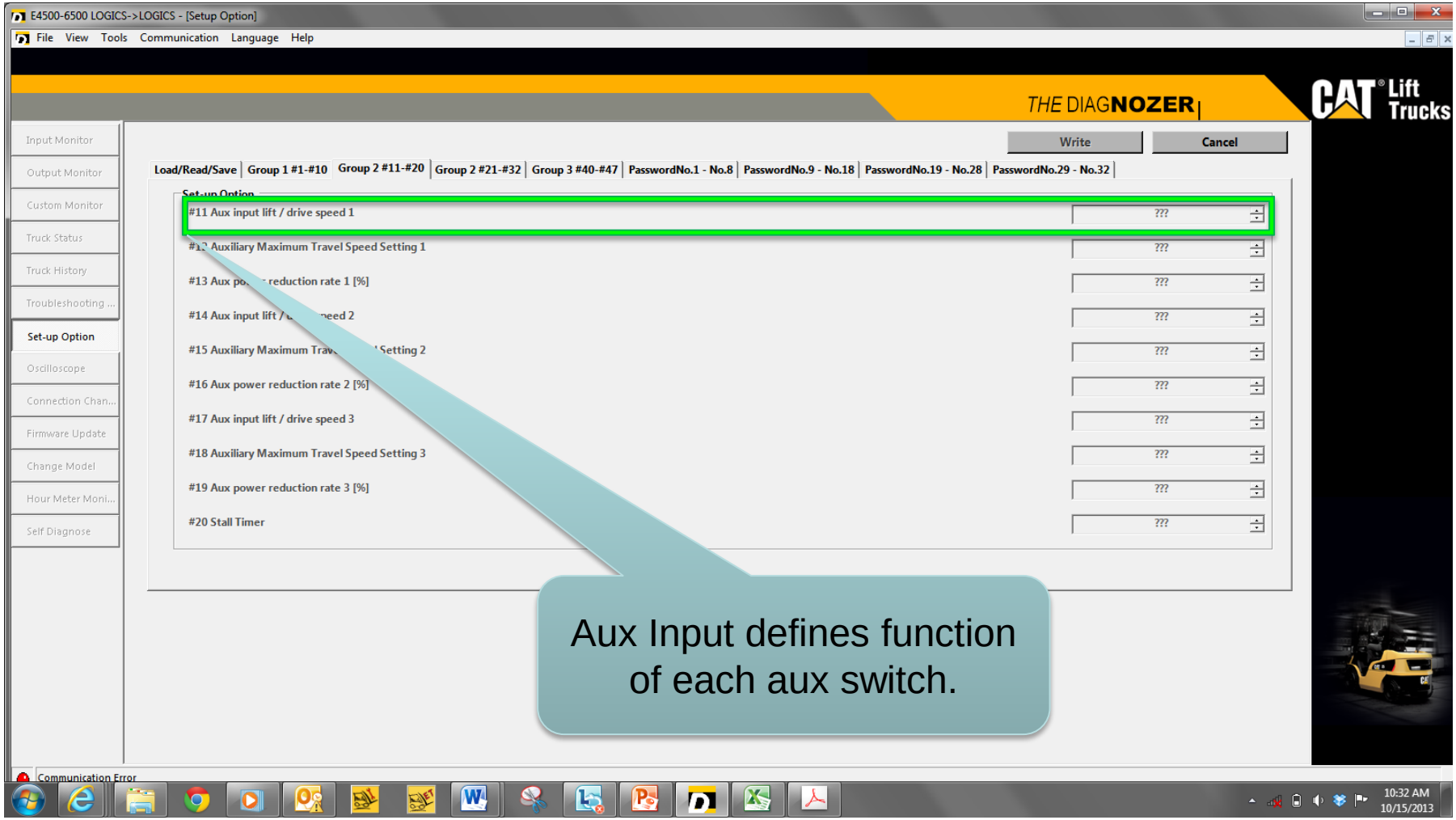

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- Use this chart to find the correct value to define the function of the switch that is being installed.

Value	Lift	Travel
0	–	–
1	Stop lift *1 (switch closed)	–
2	–	Speed limit (switch opened)
3	–	Power reduction (switch closed)
4	Stop lift *1 (switch opened)	–
5	–	Speed limit (switch opened)
6	–	Power reduction (switch closed)

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7.3 Details of Setup Options (Group-2)

#11 Auxiliary input for lift and drive speed 1
(Harness pin No. 40)

This setting defines the funct[illegible] of "Auxiliary 1" switch. This value has an effect on #12 and #[illegible] when 2, 3, 5, or 6 is selected.

#12 Auxiliary travel speed limit 1
(Harness pin No. 40)

This setting defines maximum speed wher[illegible]

The setting range is 5 to 18 [km/h]. Effectiv[illegible]

Check the service manual for set-up option # and corresponding pin location on logics connector.

#13 Auxiliary power reduction rate 1
(Harness pin No. 40)

This setting defines traction power reduction when the "Auxiliary 1" switch is closed or opened.

The setting range is 0 to 100 [%]. Effective when the data of #11 is 3 or 6.

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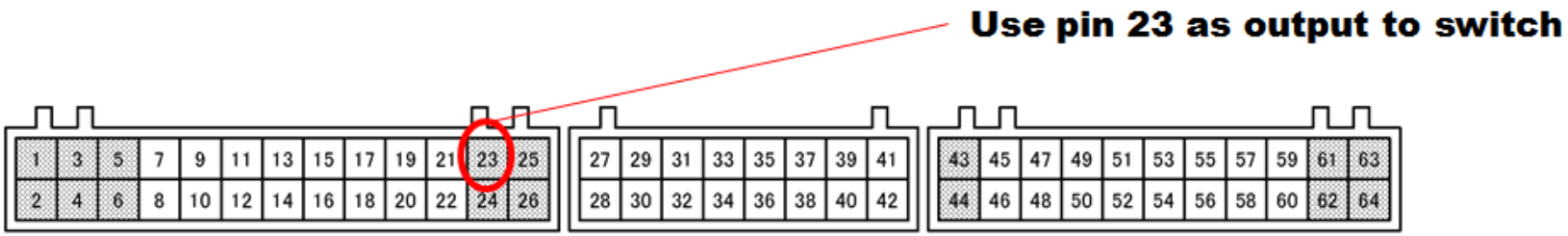

23	GND
24	+5V
25	GND
26	+5V

Logic card pins
0584203540 (small)
0584204610 (large)

MCFA requires wiring limit switches as **normally open / held closed.** Broken wire = limited performance.

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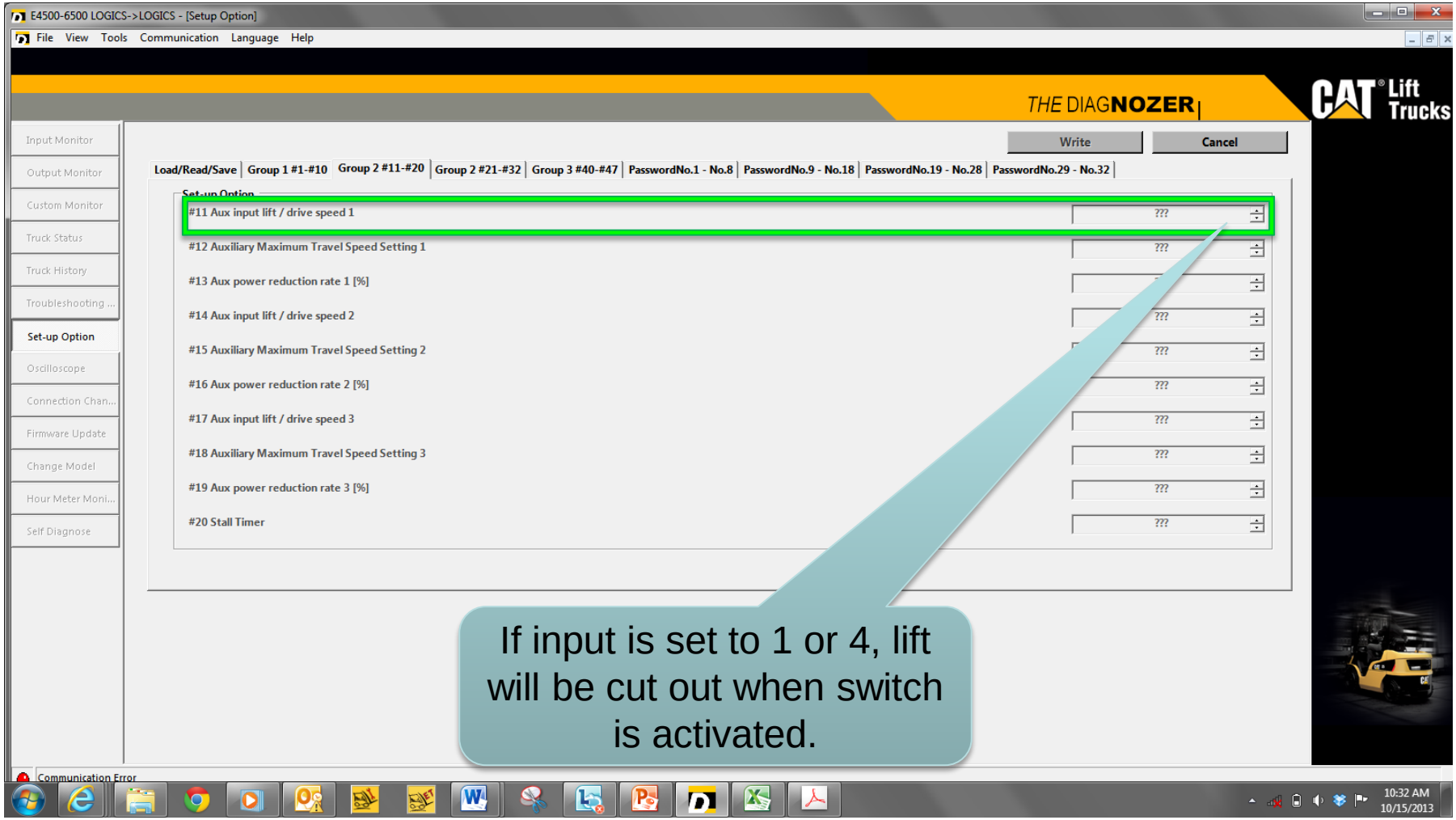

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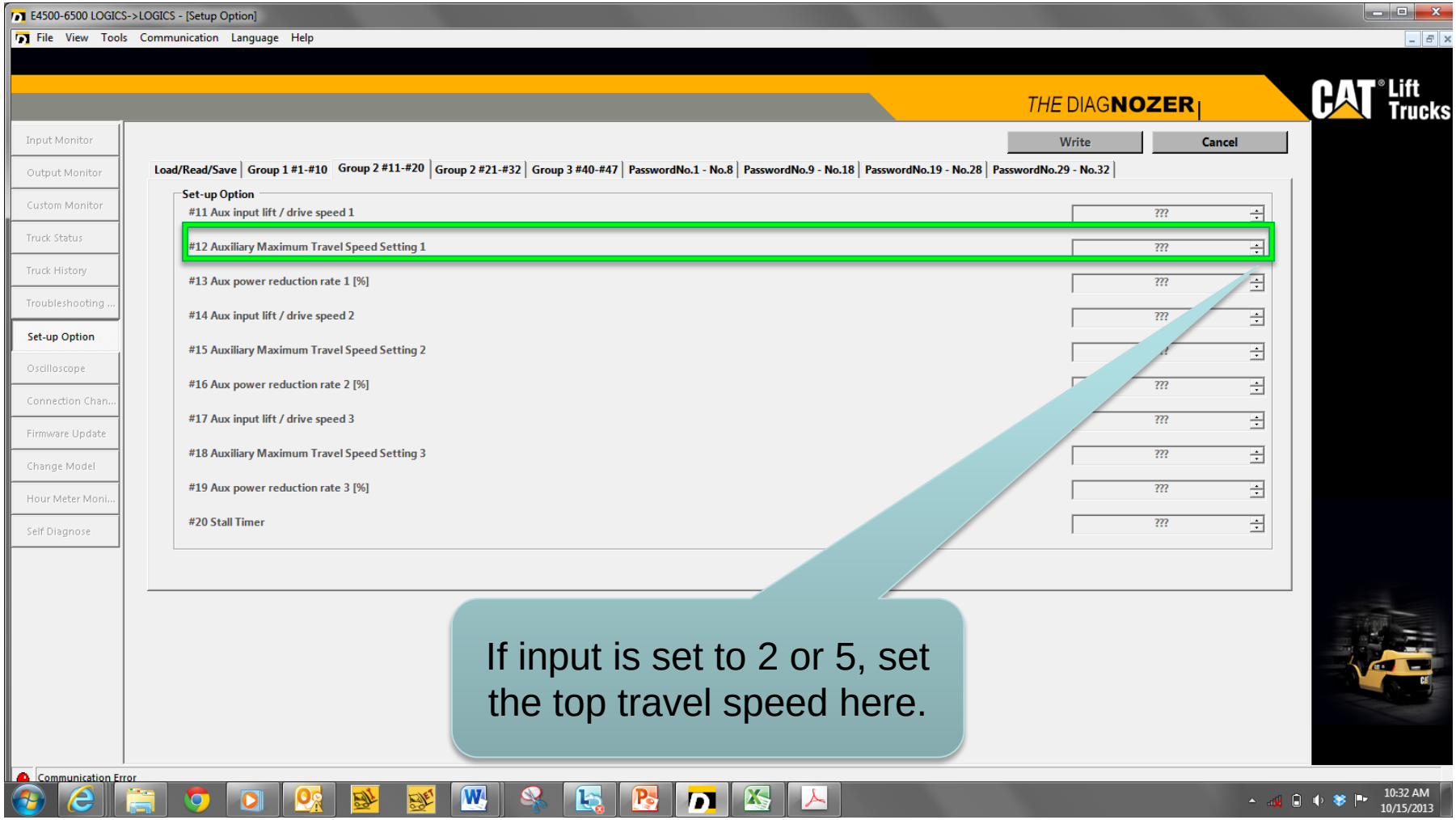

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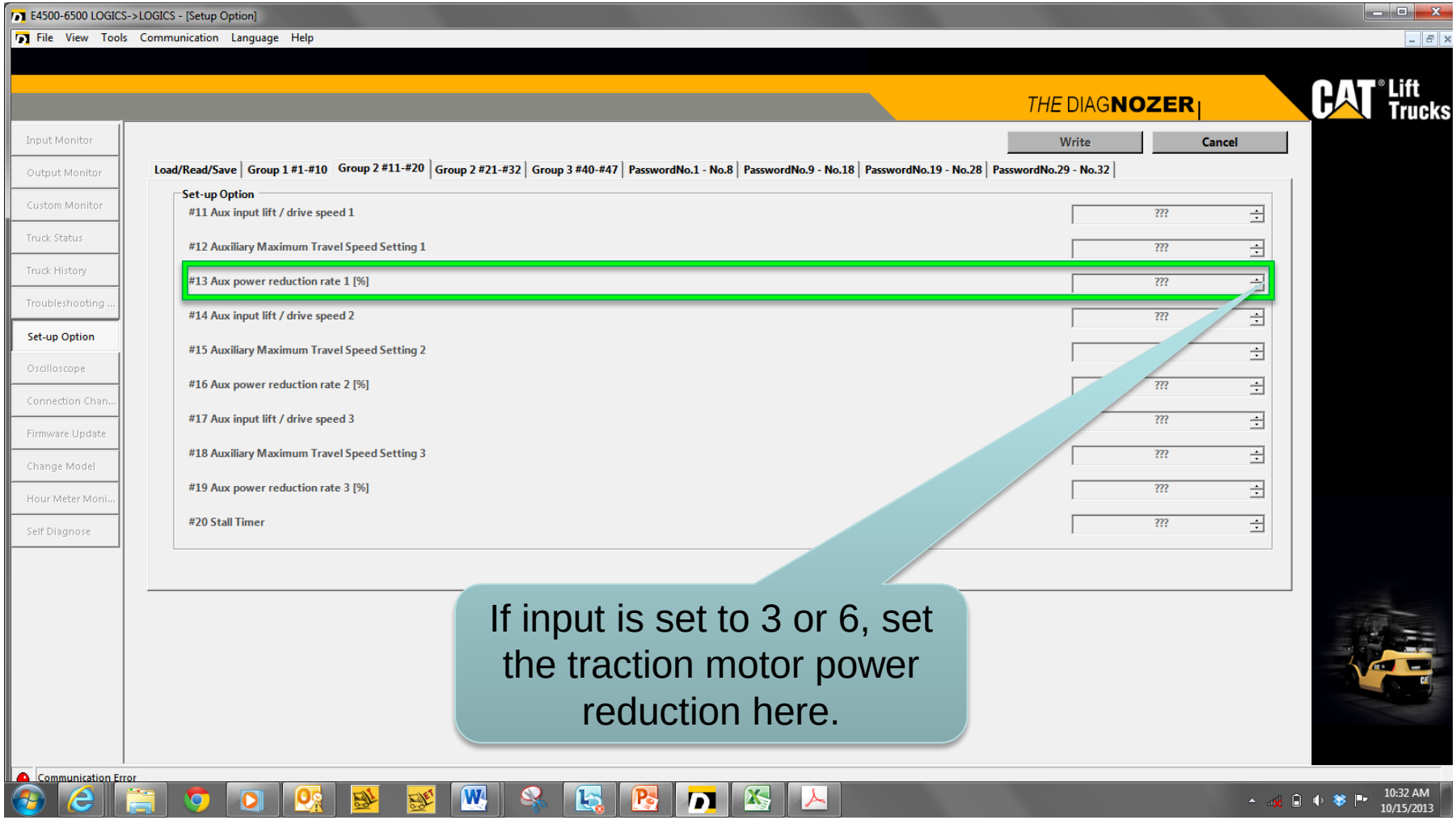

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- Aux power reduction value is adjustable 0-100%.
- Use aux power reduction if more precise control of traction motor is required than what is available in application presets, IE: tires slipping on wet floors.
- Define input as switch open, power reduction.
- Do not install a switch, torque to traction motor will always be limited.