

To: All Distributors
Regional Sales Managers and National Sales Manager

From: Technical Service

Model: Expert Helping Hand Multiplex

Subject: Common Force Feature Outputs

Labrie has equipped your Expert unit with a CAN bus-based multiplex system, which integrates a monitor display, control panel, joystick, and a set of electronic modules. The whole system has been designed to help you operate and diagnose your unit in an efficient and safe manner.

Through the Node 11 monitor display, Labrie's multiplex system informs you of any malfunction that may occur during operation of the truck. However, this display also allows you, as the technician, to perform in depth diagnostics for any fault code experienced. (see Automizer multiplex diagnostic manual 153142.

During steps of the diagnostic process, it may be necessary to perform a "FORCE" for a specific set of function outputs.
Details on how to perform the FORCE function can be found in the appropriate multiplex diagnostic manual.

Below is a quick reference guide listing of common outputs needing to be forced to test a specific function.

Pump On

Node 10 (select output screen) then force on

- Q12 o_PumpRequest_chassis
- Q16 o_PumpPower_relay

Note: For units with electric controlled body valve you will also need to force the **build up coil**

Node 40

- Q40 o_buildup_coil

Packer Extend

On node 40 (Select output screen) then force on

- Q10 o_PackerExtend_coil

Packer Retract

On node 40 (Select output screen) then force on

- Q11 o_PackerRetract_coil

Tailgate Open

On node 40 (Select output screen) then force on

- Q23 o_TailGateOpen_coil

Tailgate Close

On node 40 (Select output screen) then force on

- Q21 o_TailGateClose_coil

Crusher Up

On node 40 (Select output screen) then force on

- Q12 o_CrusherUp_coil

Crusher Down

On node 40 (Select output screen) then force on

- Q13 o_CrusherDown_coil

Raise Body

On node 40 (Select output screen) then force on

- Q30 o_RaiseBody_coil

Lower Body

On node 40 (Select output screen) then force on

- Q32 o_LowerBody_coil

Note, to force any arm function **WITHOUT** use of the deadman, the following outputs will need to be activated on Node 60.

- Q40 o_RightArmlnOut_enable
- Q41 o_RightArmUpDown_enable
- Q43 o_LeftArmlnOut_enable
- Q44 o_LeftArmUpDown_enable

Arm In /Out

On node 60 (Select output screen) then force on

- Q10/12 o_ArmlnOut_coil

(note) arm will only move in regardless of the direction joystick is moved

Arm Up /Down-

On node 60 (Select output screen) then force on

- Q11/13 o_ArmUpDown_coil

- *(note) arm will only move up regardless of the direction joystick is moved*

Grabber Open

On node 60 (Select output screen) then force on

- Q30 o_OpenGripper_coil

Grabber Close

On node 60 (Select output screen) then force on

- Q32 o_CloseGripper_coil

Please contact the LabriePlus Service Department at (800) 231-2771 with any questions or for further information.