Puma 130 / 130CVX Puma 145 / 145CVX Puma 160 / 160CVX Tractors

CALIBRATION BOOKLET

Part Number 84533337



st edition English الالالالة July 2011

HYDRAULIC, PNEUMATIC, ELECTRICAL, ELECTRONIC SYSTEMS	A
ELECTRONIC SYSTEM A.50).A
TECHNICAL DATA	
Control module Configure H-Menu Overview	. 2
FUNCTIONAL DATA	
Control module Fault code index	11
SERVICE	
Control module Armrest controller - H4 - View software revision level	42
Armrest controller - H5 - Switch operation test	44
Armrest controller - H9 - Voltmeter diagnostic	46
Armrest controller - HB - Display stored fault codes	49
Armrest controller - HC - Clear all stored fault codes	52
Armrest controller - HF - View controller hardware information	54
Instrument controller - H3 - Configurations and options	56
Instrument controller - H4 - View software revision level	61
Instrument controller - H5 - Switch operation test	63
Instrument controller - H8 - Clear stored calibration information (EEPROM)	65
Instrument controller - H9 - Voltmeter diagnostic	67
Instrument controller - HB - Display stored fault codes	69
Instrument controller - HC - Clear all stored fault codes	71
Instrument controller - HE - Display frequency inputs	73
Instrument controller - HF - View controller hardware information	75
Universal controller - H1 - Calibration procedures PUMA 130 CVX, PUMA 145 CVX, PUMA 160 CVX	77
Universal controller - H1 - Calibration procedures PUMA 130 Full powershift, PUMA 145 Full powershift, PUMA 160 Full powershift	98
Universal controller - H1 - Calibration procedures 1 PUMA 130 Semi powershift, PUMA 145 Semi powershift, PUMA 160 Semi powershift	25 :
Universal controller - H2 - View stored calibration values	51
Universal controller - H2 - View stored calibration values	58

Universal controller - H2 - View stored calibration values	. 167 1ift
Universal controller - H3 - Configurations and options PUMA 130 CVX, PUMA 145 CVX, PUMA 160 CVX	. 176
Universal controller - H3 - Configurations and options	. 199
Universal controller - H3 - Configurations and options	. 226 1ift
Universal controller - H4 - View software revision level	. 255
Universal controller - H5 - Switch operation test	. 257
Universal controller - H6 - Vehicle information view	. 261
Universal controller - H7 - Vehicle test modes	. 263
Universal controller - H7 - Vehicle test modes	. 268
Universal controller - H7 - Vehicle test modes	. 276 1ift
Universal controller - H8 - Clear stored calibration information (EEPROM)	. 286
Universal controller - H9 - Voltmeter diagnostic	. 288
Universal controller - H9 - Voltmeter diagnostic	. 294
Universal controller - H9 - Voltmeter diagnostic	. 300 1ift
Universal controller - HA - Demonstration mode	. 306
Universal controller - HB - Display stored fault codes	. 308
Universal controller - HC - Clear all stored fault codes	. 311
Universal controller - HE - Display frequency inputs	. 313
Universal controller - HF - View controller hardware information	. 315
Universal controller - HJ - Electronic hydraulic remote control valve number programming	. 317
Steering controller - H1 - Calibration procedures	. 320
Steering controller - H2 - View stored calibration values	. 324
Steering controller - H4 - View software revision level	. 326
Steering controller - H5 - Switch operation test	. 328
Steering controller - H8 - Clear stored calibration information (EEPROM)	. 330
Steering controller - H9 - Voltmeter diagnostic	. 332
Steering controller - HB - Display stored fault codes	. 334
Steering controller - HC - Clear all stored fault codes	. 337
Steering controller - HF - View controller hardware information	. 339
Electronic park lock (EPL) controller - H1 - Calibration procedures	. 341
Electronic park lock (EPL) controller - H2 - View stored calibration values	. 344
Electronic park lock (EPL) controller - H3 - Configurations and options	. 346
Electronic park lock (EPL) controller - H4 - View software revision level	. 349

Electronic park lock (EPL) controller - H5 - Switch operation test	. 351
Electronic park lock (EPL) controller - H8 - Clear stored calibration information (EEPROM)	. 353
Electronic park lock (EPL) controller - H9 - Voltmeter diagnostic	. 355
Electronic park lock (EPL) controller - HB - Display stored fault codes	. 357
Electronic park lock (EPL) controller - HC - Clear all stored fault codes	. 359
Electronic park lock (EPL) controller - HF - View controller hardware information	. 361



HYDRAULIC, PNEUMATIC, ELECTRICAL, ELECTRONIC SYSTEMS - A

ELECTRONIC SYSTEM - 50.A

PUMA 130 CVX , PUMA 130 , PUMA 145 CVX , PUMA 145 , PUMA 160 CVX , PUMA 160 CVX

Control module - Configure H-Menu Overview

ECU Names and Identifiers

Each of the electronic control modules fitted to the vehicle has an associated identifier that is used by the instrument cluster during the H menu diagnostics procedures. Throughout this document the modules are referred to using these identifiers. The following table lists all the modules accessible from the H menu diagnostics, its function and the corresponding identifier used by the instrument cluster.

Identifier	Controller Name	Controller Functions		
IG	Enhanced ICU3	Instrument Cluster		
IH	Basic ICU3	Instrument Cluster		
KA	Steering Controller	Steering Control		
LC	Armrest Controller	Armrest Controller		
U1	Universal Controller	Transmission, Electronic Draft Control, Engine, Rear PTO, Front Wheel Drive, Differential Lock, Midmount Electronic Hydraulic Remote Valves, Suspended Front Axle Rear Electronic Hydraulic Remote Valves, Front PTO, Front Hitch		
XA	EPL	Electronic Park Lock		

INTRODUCTION

To gain access to the diagnostic "H" menu mode routine, it is necessary to use the diagnostic test switch, special tool **380000843 (1)** in the tractor diagnostic connector. The main diagnostics connector is located in the cab on the right hand side rear pillar behind the operators seat.



The instrument cluster (ICU3) dot matrix display (1) is located on the right hand 'A' pillar, the dot matrix displays all the "H" menu information.

The "H" menu navigation keys (2) are located on the key pad.



H Menu Navigation Procedure

Connect the special tool **380000843** to the diagnostic connector and turn the key start switch ON.

At key ON the ICU3 will automatically build a list of the controllers connected on the Controller Area Network (CAN), and will store it in the Electrically Erasable Programmable Read Only Memory (EEPROM).

The dot matrix display will show "HH MENU" to indicate that the "H" menu has been activated.



BAIL10CVT592AVA 3

To navigate the "H" menus use the navigation "up" key and "down" key to scroll through the options, and the "menu" key to select the required controller or "H" menu, and the "escape" key to back up a menu level.

(1) "up" key

(2) "down" key

(3) "menu" key

(4) "escape" key



NOTE: Not all H menus will be available on every controller. If a controller does not implement a particular H menu, then it will not be shown when scrolling.

Controller Identifier Code Table

The controller is identified with a two letter code, i.e. IG - Enhanced ICU3.

Identifier	Controller Functions
IG	Enhanced ICU3 Instrument Cluster
IH	Basic ICU3 Instrument Cluster
KA	Fast Steer System
LC	Armrest Controller
OA	Tractor ECU
U1	Transmission, Electronic Draft Control, Rear PTO, Front Wheel Drive, Differential Lock, Midmount Electronic Hydraulic Remote Valves, EngineFront Axle Suspension, Rear Electronic Hydraulic Remote Valves, Front PTO, Front Hitch
XA	Electronic Park Lock

Select the controller that requires diagnostics or configuration.

Depress the "menu" key to show the first controller identifier code in the list.

The up arrow (1) and the down arrow (2) indicate there are other controllers available.

To navigate through the list of controllers use the "up" and "down" key.



If a controller cannot be found on the CAN, a symbol will be displayed to indicate that there is no communication between the ICU3 and the selected controller.



When the required controller is located in the list, depress the menu key (1) to select it.



The display will change to show the "HH menu" select screen.



H Menu Common Features

The "H" menus consist of the following menu codes.

NOTE: Not all the following "H" menus are available for all controllers.

HH	Not Supported
H1	Calibration procedures
H2	View stored calibration values
H3	Configurations and options
H4	View software revision level
H5	Switch operation test
H6	Vehicle information view
H7	Vehicle test modes
H8	Clear stored calibration information
H9	Voltmeter diagnostics
HA	Demonstration mode
HB	Display stored fault codes
HC	Clear all stored fault codes
HE	Display frequency inputs
HF	View controller hardware information
HJ	Electronic hydraulic remote control valve number programming
HK	Rear electronic hydraulic remote control valve diagnostics

Dot Matrix Display Symbols

1. Engine	Ö	8. Front suspension	I I I I I I I I I I I I I I I I I I I
2. Transmission	Q	9. Four wheel drive	€ 0
3. Differential lock		10. Fast steer system	\bigcirc
4. Electronic draft control	0	11. HTS	
5. Front hitch	<u></u> F	12. Engine shutdown	Ø
6. Rear P.T.O. system	ل ک	13. Air brake	
6a. Front P.T.O. system	(¢)F	14. Steering sensor	
7. Rear Electronic remote valves	•=	16. Error code management	\diamondsuit
7a Front electronic remote valves	F •	17. SWCD	

The up and down arrows indicate there are other "H" menus available.

To navigate through the list of "H" menus use the "up" and "down" key.

The downward arrow (1) indicates there is more than one sub-system that uses the same menu (multi-functional "H" menu).

Depress the "menu" key to select the "H" menu required.



The controller selected will be displayed in the top left hand corner of the dot matrix display (1).

The "H" menu will be displayed in the top right hand corner of the dot matrix display (2).



The "H" menu select screen will be displayed if the menu is common to all sub-systems, i.e. H5 - Switch test and H9 - Voltmeter.



If the menu is specific to only one sub-system, the relevant icon will be displayed in the centre of the dot matrix display, i.e. engine icon for HA - Demonstration mode.



BAIL10CVT204AVB

When the sub-system has been selected, the navigation arrows will no longer be displayed.

The top section of the dot matrix display will be used to display the set-ups or values for the selected sub-system.



NOTE: To return to the "H" menu select screen from H1 - Calibrations the keystart needs to be turned OFF. This will store the completed calibrations.

To return back to the "H" menu select screen, depress the "menu" key.

NOTE: To return to the controller select screen, "HH" must be indicated in the top right hand corner of the dot matrix display.

To return back to the controller select screen, depress the "menu" key again.



BAIL10CVT201FVA 14

Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email:

ebooklibonline@outlook.com