

Firmware Update for
Ford
V90.1.4Z
Nov 16th, 2021

This document contains the release notes for the **Ford** Firmware. This release addresses the following family of products:

- Ford V90 ZD120, ZP888

As always, please read the entire set of release notes before applying the download. Unless stated otherwise, the content is applicable to the printer families listed above.

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Existing Functional Features

The following features were available in previous builds.

- ❖ Ford V90.1.4Z Functionality
In additional to V90.1. 3ZP4222, this version added the following features:
 - (1) Just for release.
- ❖ Ford V90.1.3ZP4222 Functionality
In additional to V90.1.3Z, this version added the following features:
 - (2) Enhance darkness for CAG: SP90-005738A.
- ❖ Ford V90.1.3Z Functionality
In additional to V90.1.3ZP3765, this version added the following features:
 - (3) Release P-free FW.
 - (4) Fixed a FW issue(one motor step error if print 2x1 pattern with 3x2 media)
- ❖ Ford V90.1.3ZP3765 Functionality
In additional to V90.1.3ZP3731, this version added the following features:
 - (5) Fixed PRB25634: NP- ZP888 Slight compression was found on printout during PQ test.
 - (6) Fixed BUG25541: Ford 2, extra black line was printed if print the specific image. (Inactive)
- ❖ Ford V90.1.3ZP3731 Functionality
In additional to V90.1.3ZP3699, this version added the following features:
 - (7) Fixed PRB25641: NP- ZP888 Open pixel was found during PQ test.
 - (8) Add one command – “^XA^>>DISABLECONFIGPAGE0^XZ”:
 ^XA^>>DISABLECONFIGPAGE0^XZ : Default setting value, works normal.
 ^XA^>>DISABLECONFIGPAGE1^XZ : Disable print configuration page after FW updated. Setting value.
 ^XA^>>DISABLECONFIGPAGE^XZ : Get the setting value, return 0 or 1.
 Note: This command is only for manufacture using.
- ❖ Ford V90.1.3ZP3699 Functionality
In additional to V90.1.3ZP3680, this version added the following features:
 - (9) Fixed BUG25495: Ford 2 - One more blank label print out on 2"x 1" and 3" x 2" media for config label.
 - (10) Fixed BUG25488: Ford 2, the increased odometer was discarded after upgrade/downgrade.
- ❖ Ford V90.1.3ZP3680 Functionality
In additional to V90.1.2ZP3654, this version added the following features:
 - (11) Fixed BUG25333: Ford2 - Config label missing the split line in 1" length label and easy shift from the edge.
 - (12) Fixed BUG25299: Ford2 - FW P version number of "~HI" and "^HH" is different than "~WC"
- ❖ Ford V90.1.3ZP3654 Functionality
In additional to V90.1.2ZP3465, this version added the following features:
 - (13) The configuration page is adjusted to Ford 2 and adjusted to Ford 2 EMC.
- ❖ Ford V90.1.2ZP3465 Functionality
In additional to V90.1.2ZP3453, this version added the following features:
 - (14) Fixed the logo of the configuration report.
- ❖ Ford V90.1.2ZP3453 Functionality
In additional to V90.1.2ZP3419, this version added the following features:

- (15) Fixed 3OP issue. Issue: If the threshold of the gap sensor is too small, cannot be recovered.
- ❖ Ford V90.1.2ZP3419 Functionality
 - In additional to V90.1.2ZP3397, this version added the following features:
 - (16) Update new version.
- ❖ Ford V90.1.2ZP3397 Functionality
 - In additional to V90.1.2ZP3390, this version added the following features:
 1. Solved bug lists:
 - (17) BUG22368: Ford- Font type is different of "Firmware".
- ❖ Ford V90.1.2ZP3390 Functionality
 - In additional to V90.1.2ZP3376, this version added the following features:
 2. Solved bug lists:
 - (18) BUG22343: Ford-Function is not ready for "Printer LED status and behaviors for Printer need servicing"
 - (19) BUG22368: Ford- Font type is different of "Firmware".
- ❖ Ford V90.1.2ZP3376 Functionality
 - In additional to V90.1.1ZP3360, this version added the following features:
 3. Solved bug lists:
 - (20) BUG22055: Image shift on ZD120 and ZP888 during DVT PH life test&Pre-PVT Media Guide Life Test.
 - (21) BUG22127: Pre-DVT: odometer is not reflecting the value of distance printed.
 - (22) BUG22209: Pre-DVT: printer allows to change model by issuing ^PI command without restriction.
 - (23) BUG22224: Pre-DVT: printer did not feed to next gap upon recovering from error prior continue printing.
 - (24) BUG22290: Ford- Change configuration label content.
 - (25) BUG22293: Ford-Label is printed when printer in pause mode.
 - (26) BUG22295: Ford-Configuration label does not print out after restart in head open condition.
 - (27) BUG22296: Ford-LED not flashing while printer is receiving data.
 - (28) BUG22301: NP-ZD120 The model name is ZP888 not ZD120 in configuration label during Pre-PVT baseline test
 - (29) BUG22302: Ford-LED keep solid green while invalid Firmware downloading.
 - (30) BUG22303: Ford- Print logic is not good while gap not found
 - (31) BUG22314: Ford-Lock up while power on/off multiple times.
 - (32) BUG22320: Ford- Gap cannot find after do ~jc the second time.
 - (33) BUG22326: Ford-Send ~wc multiple times but only print once.
 - (34) BUG22331: Ford-Print part of the label while plug out USB in the middle of printing.
 4. Modified bug lists:
 - (1) Modify ~JC to ~JCGAP
 - (2) Add ~RESET command, this command can set the printer's parameters to default.
- ❖ Ford V90.1.1ZP3360 Functionality
 - In additional to V90.0.8ZP3345, this version added the following features:
 5. Solved bug lists:

- (35) BUG22028: Printer stops printing on ZD120 and ZP888 during DVT PH life test;
- (36) BUG22118: ~WC command does not trigger printer to print configuration page;
- (37) BUG22119: Printer stay in pause mode upon powering up;
- (38) BUG22121: default darkness value is incorrect compare to specification;
- (39) BUG22173: Motor stall when pressing feed key on ZD120 and ZP888 during DVT debug;
- (40) BUG22202: printer still able to go into ready mode even cover is not properly closed;
- (41) BUG22220: printer lock up if feed button was pressed while printer in boot mode;
- (42) BUG22221: printer continue to stay in “printer is not ready” mode after invalid firmware flashing.

- ❖ Ford V90.0.8ZP3345 Functionality
In additional to V90.0.7ZP3331, this version added the following features:
 6. Solved bug lists:
 - (43) BUG21990: Paper tear position is not correct when feeding paper;
 - (44) BUG22015: Gap detect fail;
 - (45) BUG22022: Gap detect fail when feed paper by pressing the feed button;
 - (46) BUG22024: Short abnormal black line.
- ❖ Ford V90.0.7ZP3331 Functionality
In additional to V90.0.6ZP3312, this version added the following features:
 7. Changed the printing behavior: Move to next Gap after printing. Assuming the maximum label length is 9”, if Gap not found, printer will report “Gap Not Found”.
 8. Solved the light printing during motor ramp up process.
- ❖ Ford V90.0.6ZP3312 Functionality
In additional to V90.0.5ZP3307, this version added the following features:
 9. Fixed the issue that model name cannot be changed.
 10. The firmware can accommodate different print width.
- ❖ Ford V90.0.5ZP3307 Fcuntionality
In additional to V90.00.4ZP3295, this version added the following features:
 11. Fixed one bug releated with “Gap Sensor Intensity” parameter saving.
 12. Updated the USB model string.
- ❖ Ford V90.0.4ZP3295 Functionality
In additional to V90.00.03ZP3291, this version added the following features:
 13. Optimizer gap sensor calibration process.
 14. Adjusted the parameters about the threshold of head open sensor.
- ❖ Fixed other bugs. Ford V90.00.03ZP3291 Functionality
In additional to V90.00.02ZP3287, this version added the following features:
 1. Optimized all commands to send all strings at one time.
 2. Implemented saving parameters when power loss and receiving ~JR and ^PI commands.
 3. Removed some useless modules from project.
 4. Fixed other bugs.
- ❖ Ford V90.00.02ZP3287 Functionality
In additional to V90.00.01ZP0, this version added the following features:
 1. Implement head open sensor - print head open calibration

❖ Ford V90.1.2ZP3453 Functionality

SRS Section Number	Feature Description
6.6	Bring Up
6.19	Print
7	Commands
6.8.2	USB
6.41	Sensors
8	Download
6.30	Print Quality
9	User Interface
6.26	Parameters

New Features Incorporated

The following are new features included in this release:

❖ None

Features Remaining

The following features must still be completed and are NOT included in this release.

Postponed Features

The following features must have been postponed.

- ❖ None

Defects Previously Resolved and Closed

The DVT test team requested that we publish all bugs that were resolved, validated and closed since the original release of firmware.

This section documents those bugs:

None (**This version is for Alpha build. We will list the bugs for later versions when transferring them to DVT team**)

Item Id	Title	Submitter	Fixed in Version
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Defects Previously Resolved but Not Verified

The following defects were resolved previously and must still be verified and closed:

None (**This version is for Alpha build. We will list the bugs for later versions when transferring them to DVT team**)

Item Id	Title	Owner	Fixed in Version
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Defects Resolved in This Release

The following defects were resolved in the current release. Please verify and close the following defects:

None (**This version is for Alpha build. We will list the bugs for later versions when transferring them to DVT team**)

Item Id	Title	Submitter	Fixed in Version
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Unresolved Defects

The following defects are currently unresolved and are targeted for a feature release:

None (**This version is for Alpha build. We will list the bugs for later versions when transferring them to DVT team**)

Item Id	Submit Date/Time	Title	Submitter	Release Priority
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Downloading Latest Code

The latest code for Ford can be found at the following locations:

Miscellaneous Instructions

This section will be filled in as needed.

Historical Reference:

This section lists all previous releases and the associated version number:

November 16 th , 2021	V90.1.4Z
September 2 nd , 2021	V90.1.3ZP4222
November 4 th , 2019	V90.1.3Z
October 17 th , 2019	V90.1.3ZP3765
September 16 th , 2019	V90.1.3ZP3731
August 23 rd , 2019	V90.1.3ZP3699
August 15 th , 2019	V90.1.3ZP3680
July 22 nd , 2019	V90.1.3ZP3654
July 20 th , 2018	V90.1.2ZP3465
June 28 th , 2018	V90.1.2ZP3453
June 8 th , 2018	V90.1.2ZP3419
May 28 th , 2018	V90.1.2ZP3397
May 23 rd , 2018	V90.1.2ZP3390
May 16 th , 2018	V90.1.2ZP3376
April 26 th , 2018	V90.1.1ZP3360
April 2 nd , 2018	V90.0.8ZP3345
March 6 th , 2018	V90.0.7ZP3331
February 13 rd , 2018	V90.0.6ZP3312
February 9 th , 2018	V90.0.5ZP3307
January 19 th , 2018	V90.00.03ZP3291
January 17 th , 2018	V90.00.02ZP3287
January 8 th , 2018	V90.00.01ZP0

DVT Drops:

Distribution List

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