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 Ford Customer Service Division

Ford Motor Company
 P. O. Box 1904
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October 6, 2020

TO: All U.S. Ford and Lincoln Dealers

SUBJECT: Safety Recall 20S31
 Certain 2014-2017 Model Year F-150 Vehicles Equipped with 3.5L Ecoboost Engines
 Brake Master Cylinder Replacement

AFFECTED VEHICLES

Vehicle	Model Year	Assembly Plant	Build Dates
F-150	2015-2017	Dearborn	October 1, 2014 through August 1, 2016
	2014-2017	Kansas City	September 1, 2014 through August 1, 2016

Affected vehicles are identified in OASIS and FSA VIN Lists.

REASON FOR THIS SAFETY RECALL

In some of the affected vehicles, a seal in the rear of the brake master cylinder may become compromised, allowing brake fluid to leak into the brake booster. If the brake fluid reservoir is depleted below a predetermined level, the driver will be alerted in multiple ways that brake system service is required.

If the brake fluid reservoir continues to be depleted, the driver may experience a change in brake pedal travel and feel, and reduced brake function in the front wheels without affecting brake function in the rear wheels. Reduced brake function in the front wheels can extend stopping distance, increasing the risk of a crash.

SERVICE ACTION

Dealers are to replace the brake master cylinder. If indications of a leak are present between the brake master cylinder and brake booster, dealers are also to replace the brake booster. This service must be performed on all affected vehicles at no charge to the vehicle owner.

OWNER NOTIFICATION MAILING SCHEDULE

Owner letters were mailed the week of June 29, 2020 informing customers that parts were not available in sufficient quantities to repair all vehicles.

Follow-up letters informing owners that parts are now available for their vehicles are expected to start mailing by the week of October 26, 2020. Dealers should repair any affected vehicles that arrive at their dealerships, whether or not the customer has received a letter.

PLEASE NOTE:

Federal law requires dealers to complete this recall service before a new vehicle is delivered to the buyer or lessee. Violation of this requirement by a dealer could result in a civil penalty of up to \$21,000 per vehicle. Correct all vehicles in your new vehicle inventory before delivery.

ATTACHMENTS

- Attachment I: Administrative Information
- Attachment II: Labor Allowances and Parts Ordering Information
- Attachment III: Technical Information
- Owner Notification Letters
- Recall Reimbursement Plan

QUESTIONS & ASSISTANCE

For questions and assistance, contact the Special Service Support Center (SSSC) via the SSSC Web Contact Site. The SSSC Web Contact Site can be accessed through the Professional Technician Society (PTS) website using the SSSC link listed at the bottom of the OASIS VIN report screen or listed under the SSSC tab.

Sincerely,

A handwritten signature in black ink, appearing to read "D.J. Johnson". The signature is written in a cursive style with a large initial "D" and "J".

David J. Johnson

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OASIS ACTIVATION

OASIS was activated on June 9, 2020.

FSA VIN LISTS ACTIVATION

FSA VIN Lists were available through <https://web.fsavinlists.dealerconnection.com> on June 9, 2020. Owner names and addresses will be available by November 10, 2020.

NOTE: Your FSA VIN Lists may contain owner names and addresses obtained from motor vehicle registration records. The use of such motor vehicle registration data for any purpose other than in connection with this recall is a violation of law in several states, provinces, and countries. Accordingly, you must limit the use of this listing to the follow-up necessary to complete this recall.

SOLD VEHICLES

- Ford has not issued instructions to stop selling/delivering or driving used vehicles under this safety recall. Owners should contact their dealer for an appointment to have their vehicles remedied as soon as practicable. Owners can continue to safely drive their vehicles.
- Immediately contact any of your affected customers whose vehicles are not on your VIN list but are identified in OASIS. Give the customer a copy of the Owner Notification Letter (when available) and schedule a service date.
- Correct other affected vehicles identified in OASIS which are brought to your dealership.
- Dealers are to prioritize repairs of customer vehicles over repairs of new and used vehicle inventory.

STOCK VEHICLES

Use OASIS to identify any affected vehicles in your used vehicle inventory.

DEALER-OPERATED RENTAL VEHICLES

The Fixing America's Surface Transportation (FAST) Act law effective June 2016 prohibits a rental company from selling, renting or leasing vehicles subject to a safety or compliance recall. Please consult your legal counsel for legal advice.

TITLE BRANDED / SALVAGED VEHICLES

Affected title branded and salvaged vehicles are eligible for this recall.

OWNER REFUNDS

- **This safety recall must still be performed, even if the owner has paid for a previous repair. Claiming a refund will not close the recall on the vehicle.**
- Ford Motor Company is offering a refund for owner-paid repairs covered by this recall if the repair was performed prior to the date indicated in the reimbursement plan, which is posted with this bulletin. Owners are directed to seek reimbursement through authorized dealers or, at their option, directly through Ford Motor Company at P.O. Box 6251, Dearborn, MI 48121-6251.
- Dealers are also pre-approved to refund owner-paid emergency repairs that were performed away from an authorized servicing dealer after the end date specified in the reimbursement plan. Non-covered repairs, or those judged by Ford to be excessive, will not be reimbursed.
- Refunds will only be provided for the cost associated with brake master cylinder and brake booster replacement.

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RENTAL VEHICLES

Rental vehicles are not approved for this program.

ADDITIONAL REPAIR (LABOR TIME AND/OR PARTS)

Additional repairs identified as necessary to complete the FSA should be managed as follows:

- For related damage and access time requirements, refer to the Warranty and Policy Manual / Section 6 – Ford & Lincoln Program Policies / General Information & Special Circumstances for FSA's / Related Damage.
- For vehicles within new vehicle bumper-to-bumper warranty coverage, no SSSC approval is required, although related damage must be on a separate repair line with the "Related Damage" radio button checked.
 - Ford vehicles – 3 years or 36,000 miles
- For vehicles outside new vehicle bumper-to-bumper warranty coverage, submit an Approval Request to the SSSC Web Contact Site prior to completing the repair.

CLAIMS PREPARATION AND SUBMISSION

- **Claim Entry:** Enter claims using Dealer Management System (DMS) or One Warranty Solution (OWS) online.
 - When entering claims, select claim type 31: Field Service Action. The FSA number 20S31 is the sub code.
 - For additional claims preparation and submission information, refer to the Recall and Customer Satisfaction Program (CSP) Repairs in the OWS User Guide.
- **Related Damage/Additional labor and/or parts:** Must be claimed as Related Damage on a separate repair line from the FSA with same claim type and sub code as described in Claim Entry above.

IMPORTANT: Click the Related Damage Indicator radio button.

- **Refunds:** Submit refunds on a separate repair line.
 - Program Code: 20S31
 - Misc. Expense: ADMIN
 - Misc. Expense: REFUND
 - Misc. Expense: 0.2 Hrs.
 - Multiple refunds should be submitted on one repair line and the invoice details for each repair should be detailed in the comments section of the claim.

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LABOR ALLOWANCES

Description	Labor Operation	Labor Time
Replace master cylinder (includes bench bleed)	20S31B	0.9 Hours
Replace master cylinder and booster (includes bench bleed)	20S31C	1.4 Hours

PARTS REQUIREMENTS / ORDERING INFORMATION**Brake master cylinder parts table -**

Find correct year and model and order only one (1) brake master cylinder. Follow table for ordering additional parts required for repair.

Year	Model	Part Number	Description	Order Quantity	Claim Quantity
2014 Only	ALL	EL3Z-2140-D	Brake Master Cylinder	1	1
2015-2017		JL3Z-2140-A			
ALL		PM-20	Dot 4 Brake Fluid (3 required / 4 per sell pack)	1	3
		7L1Z-2152-A	Master cylinder to booster O-ring	1	1
	W520212-S440	Master Cylinder Nuts (2 required / 4 per package)	1	2	

Brake booster parts table – Replace booster *ONLY if the master cylinder is leaking* at or in to the booster. Refer to Attachment III before ordering a booster.

Find correct year and model and order the correct booster if the master cylinder is leaking.

Year	Model	Part Number	Description	Order Quantity	Claim Quantity
2014 Only	ALL	DL3Z-2005-E	Brake Booster	1	1
2015-2017	All Less Raptor	HL3Z-2005-G			
2017	Raptor Only	HL3Z-2005-F			
ALL	ALL	3M5Z-2L523-AA	Clevis Pin	1	1

Order your parts through normal order processing channels. To guarantee the shortest delivery time, an emergency order for parts must be placed.

DEALER PRICE

For latest prices, refer to DOES II.

PARTS RETENTION AND RETURN

Follow the provisions of the Warranty and Policy Manual, Section 1 - WARRANTY PARTS RETENTION AND RETURN POLICIES. If a replaced part receives a scrap disposition, the part must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall.

EXCESS STOCK RETURN

Excess stock returned for credit must have been purchased from Ford Customer Service Division in accordance with Policy Procedure Bulletin 4000.

CERTAIN 2014-2017 MODEL YEAR F-150 VEHICLES — BRAKE MASTER CYLINDER REPLACEMENT

SERVICE PROCEDURE

1. Position the vehicle on a hoist. Please follow the Workshop Manual (WSM) procedures in Section 100-02.
2. Remove the master cylinder. Please follow the WSM procedures in Section 206-06.
3. Inspect the rear of the master cylinder and the mounting surface of the brake booster.
Are there signs of leaking brake fluid? Signs of leaking brake fluid may include fluid on the back of the master cylinder or on the mounting surface of the brake booster, and/or peeling paint on the brake booster. See Figure 1.

Yes - Replace the brake booster. Please follow the WSM procedures in Section 206-07, then proceed to Step 4.

No - Proceed to Step 4.

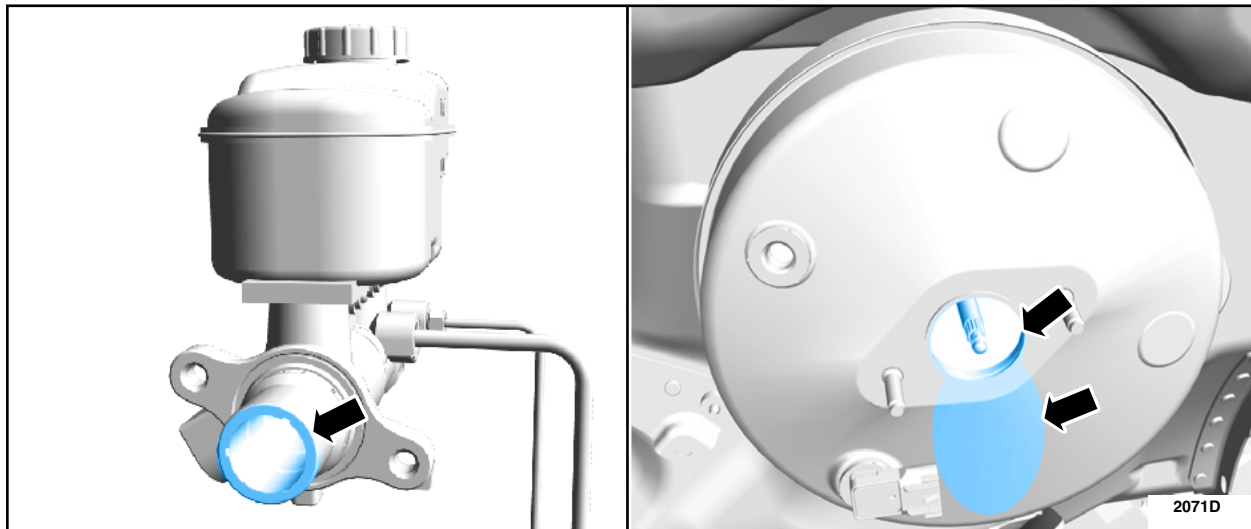


FIGURE 1

4. Install a *new* master cylinder. Please follow the WSM procedures in Section 206-06.

IMPORTANT NOTE: Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall. Unless a part is requested to be returned to Ford, all parts replaced under this FSA must be scrapped in accordance with all applicable local, state and federal environmental protection and hazardous material regulations. Refer to the Parts Retention, Return, & Scrapping section of the FSA dealer bulletin for further information.

