

TECHNICAL

FACTORY DIRECTED MODIFICATION

ENG 24-01 | CODE: National | DATE: February 5, 2024

DETAIL

On some FX751V, FX801V, FX850V, FX921V and FX1000V models, there is a possibility that the 21066-0785 voltage regulator will fail prematurely. This failure may result in high temperatures within the voltage regulator. These high temperatures could raise the risk of fire.

KAWASAKI ACTION

Kawasaki initiated a Factory Directed Modification (FDM) campaign to replace the 21066-0785 voltage regulator on all eligible units according to the “Required Action in Field” section of this FDM.

ELIGIBILITY

Units within the engine model, specification, and serial number ranges listed in “Eligible Engines Table,” are eligible for the FDM. If the engine model and specification code is not listed, disregard this FDM.

Engine eligibility can also be confirmed by going to [KawasakiPowerWarranty.com](https://www.kawasaki-powerwarranty.com), logging into the Kawasaki dealer warranty website and entering your engine serial number in the Open Service Campaign box.

Eligible Engine Table		
Model Number	Specification Number	Engine Serial Number Range
FX751V	LS00	FX751VA76686 - FX751VA77769
	MS00	FX751VA77914 - FX751VA73505
	MS07	FX751VA76614 - FX751VA77501
	NS07	FX751VA78706 - FX751VA82665
FX801V	LS00	FX801VC22760 - FX801VC31703
	MS00	FX801VC35884 - FX801VC84221
	MS04	FX801VC22556 - FX801VD07353
	NS04	FX801VC37718 - FX801VD01983
	PS04	FX801VD04601 - FX801VD08181
	JS07	FX801VC22412 - FX801VC22507
	KS07	FX801VC52610 - FX801VC63050
	KS08	FX801VC22508 - FX801VC32963
	LS08	FX801VC33077 - FX801VC41819
	MS08	FX801VC45024 - FX801VD00605

Eligible Engine Table Continued		
Model Number	Specification Number	Engine Serial Number Range
FX801V	HS09	FX801VC24176 - FX801VC32184
	JS09	FX801VC33396 - FX801VC87617
	FS12	FX801VC33024 - FX801VC35258
	GS12	FX801VC47702 - FX801VC91951
	GS13	FX801VC23432 - FX801VC36839
	HS13	FX801VC37541 - FX801VD07689
	ES18	FX801VC24080 - FX801VC36004
	FS18	FX801VC48229 - FX801VD07953
	DS22	FX801VC26264 - FX801VC32172
	ES22	FX801VC37440 - FX801VC90233
	AS27	FX801VC23012 - FX801VC32399
	BS27	FX801VC32964 - FX801VC79145
	AS28	FX801VC85506 - FX801VC85589
	AS29	FX801VD02524 - FX801VD06785

Eligible Engine Table Continued		
Model Number	Specification Number	Engine Serial Number Range
FX850V	LS00	FX850VC06916 - FX850VC13391
	MS00	FX850VC13824 - FX850VC83539
	HS07	FX850VC04818 - FX850VC17489
	JS07	FX850VC18328 - FX850VC49400
	LS10	FX850VC34160 - FX850VC69461
	FS15	FX850VC06256 - FX850VC17585
	GS15	FX850VC23703 - FX850VC83334
	GS18	FX850VC48957 - FX850VC58444
	HS18	FX850VC66502 - FX850VC66561
	GS22	FX850VC15741 - FX850VC22849
	ES24	FX850VC04794 - FX850VC12089
	FS24	FX850VC13812 - FX850VC22909
	GS24	FX850VC25681 - FX850VC43509
	DS25	FX850VC04686 - FX850VC14762
	ES25	FX850VC18292 - FX850VC83716
	DS26	FX850VC04902 - FX850VC12971
	ES26	FX850VC15718 - FX850VC75466
	DS27	FX850VC12402 - FX850VC13415
	ES27	FX850VC30327 - FX850VC76995
	AS34	FX850VC39182 - FX850VC58299
	AS35	FX850VC19455 - FX850VC73994
	AS37	FX850VC81247 - FX850VC81963

Eligible Engines Table		
Model Number	Specification Number	Engine Serial Number Range
FX921V	JS00	FX921VA83898 - FX921VB18614
	GS04	FX921VA79590 - FX921VA84785
	HS04	FX921VA85482 - FX921VB22946
	GS06	FX921VA79830 - FX921VA84413
	HS06	FX921VA85842 - FX921VB22454
	HS07	FX921VA90138 - FX921VB22118
	CS09	FX921VA79686 - FX921VA85481
	DS09	FX921VA86730 - FX921VB22610
	ES11	FX921VA79542 - FX921VA94505
	DS15	FX921VA80634 - FX921VA84581
	BS18	FX921VA83430 - FX921VA84833
	CS18	FX921VA88314 - FX921VB19298
	AS22	FX921VA79962 - FX921VB19466
	AS23	FX921VB07107 - FX921VB14570
	JS00	FXT00VA91491 - FXT00VB66650
	CS15	FXT00VA91683 - FXT00VB06369
FXT00V	DS15	FXT00VB07678 - FXT00VB35815
	ES16	FXT00VA95938 - FXT00VB26994
	FS16	FXT00VB31812 - FXT00VB47701
	DS22	FXT00VA91731 - FXT00VB41301
	CS24	FXT00VB10312 - FXT00VB59275
	AS25	FXT00VA91503 - FXT00VB07293
	BS25	FXT00VB08961 - FXT00VB70067
	AS32	FXT00VA92681 - FXT00VB67380
	AS33	FXT00VB04053 - FXT00VB69767
	AS36	FXT00VB67441 - FXT00VB69731

## REQUIRED ACTION IN FIELD

Repair all eligible units, including sold and unsold units in the field and unsold inventory. The repair consist of replacing the 21066-0785 voltage regulator with the 21066-7017 voltage regulator.

### IMPORTANT NOTE

**THIS FDM DOES NOT APPLY TO THE BELOW ENGINES:  
DO NOT INSTALL THE 21066-7017 VOLTAGE REGULATOR ON THE BELOW ENGINES:**

<b>FX751V-_S11</b>	<b>FX801V-_S15 FX801V-_S19 FX801V-_S21 FX801V-_S25</b>	<b>FX850V-_S11 FX850V-_S29 FX850V-_S33</b>	<b>FX921V-_S10 FX921V-_S13 FX921V-_S17 FX921V-_S19 FX921V-_S20</b>	<b>FXT00V-_S12 FXT00V-_S18 FXT00V-_S19 FXT00V-_S28 FXT00V-_S30 FXT00V-_S31</b>
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### NOTE

- Kawasaki has repaired some engines in the eligible engine serial number range prior to delivery. Refer to Steps 1 and 2 in "Repair Procedure" section of this Service Information Bulletin. All further engine shipments from Kawasaki will have the updated parts installed.

## PARTS INFORMATION

Kawasaki will provide the replacement parts for the repair of all eligible engines. Please order online at [KawasakiPower.com](https://www.kawasaki-power.com).

The required parts depend on which engine model the voltage regulator is being replaced on. Refer to the below Part Tables.

FX751V/FX801V/FX850V Part Table		
Kit	Part Name	Quantity
99999-0934	KIT VOLTAGE REGULATOR	1

FX921V/FX1000V Part Table		
Part Number	Part Name	Quantity
21066-7017	REGULATOR-VOLTAGE	1

## REPAIR PROCEDURE

Refer to the appropriate sections of the service manual for information and procedures related to part removal and installation. Service manual is available on [KawasakiPower.com](http://KawasakiPower.com).

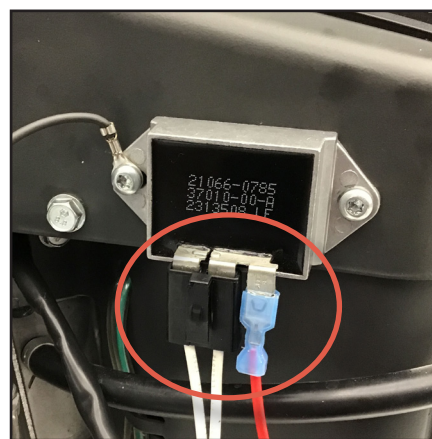
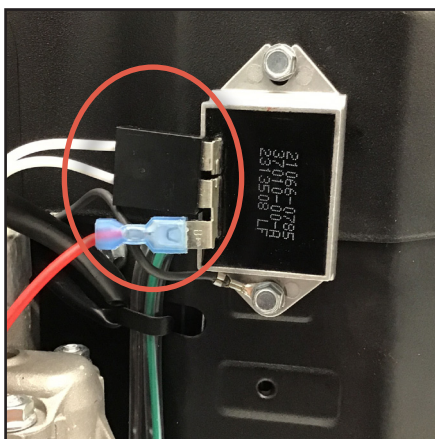
1. Confirm correct engine model, engine specification, and engine serial number by matching them to “Eligible Engines Table” prior to beginning any part replacements.



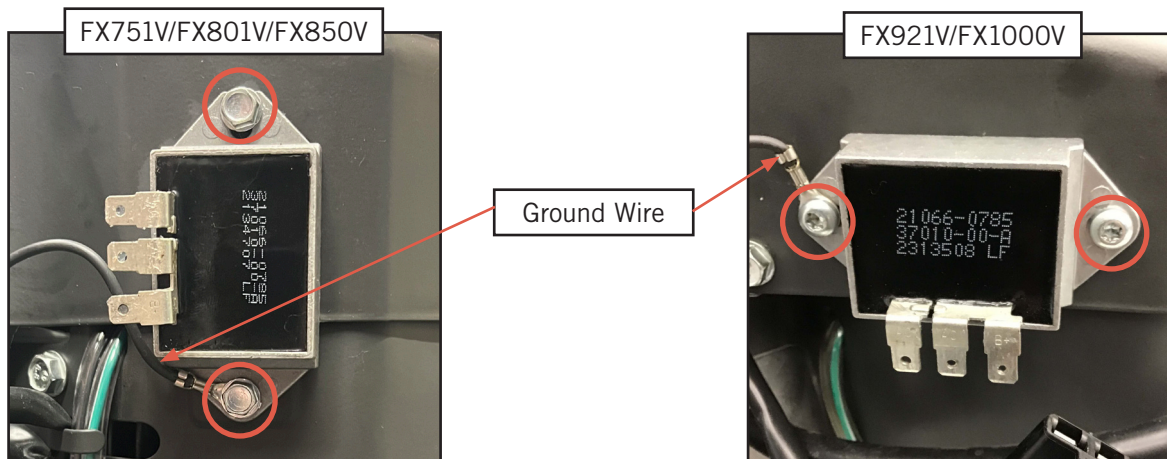
2. Verify the FDM has not been completed by looking for a verification mark “●” on the engine bar-code label as shown below.



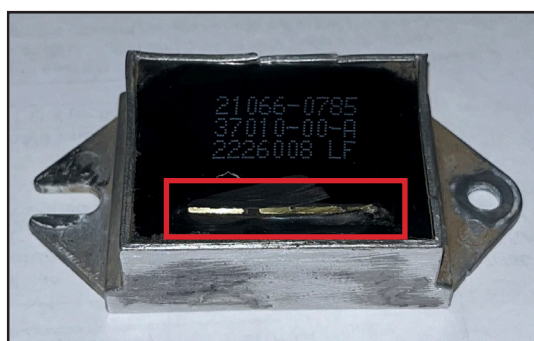
- If bar-code label does have a verification mark “●”, FDM has been completed on the engine. No further action is required.
  - If bar-code label does not have a verification mark “●”, continue to step 3.
3. Disconnect the Negative (-) battery cable.
  4. Disconnect the stator coil lead connector and B+ lead wire connector.



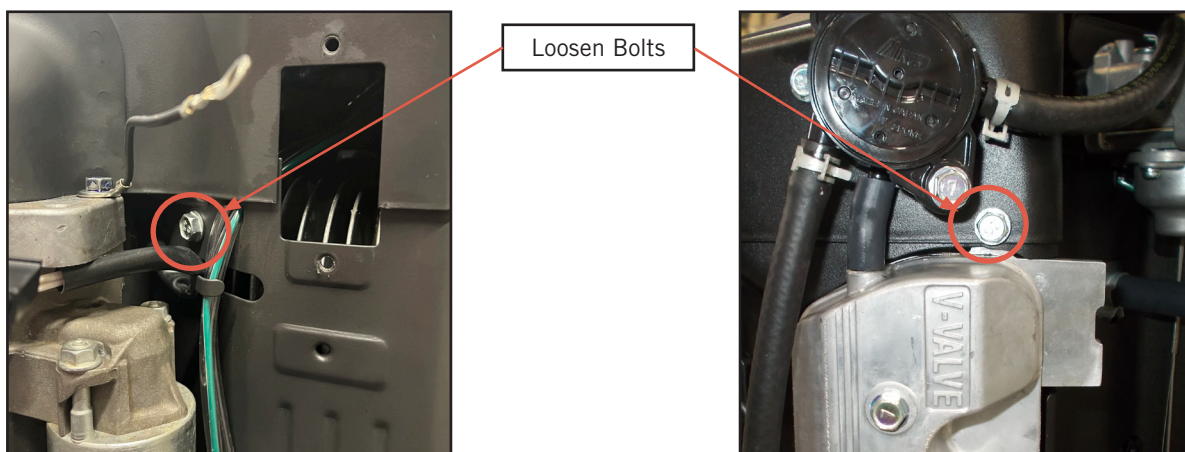
5. Remove 2 voltage regulator mounting screws and ground wire.
- FX751V/FX801V/FX850V: Discard 2 voltage regulator mounting screws.
  - FX921V/FX1000V: Retain 2 voltage regulator mounting screws.



6. Cut the terminals off the 21066-0785 voltage regulator and scrap the voltage regulator.

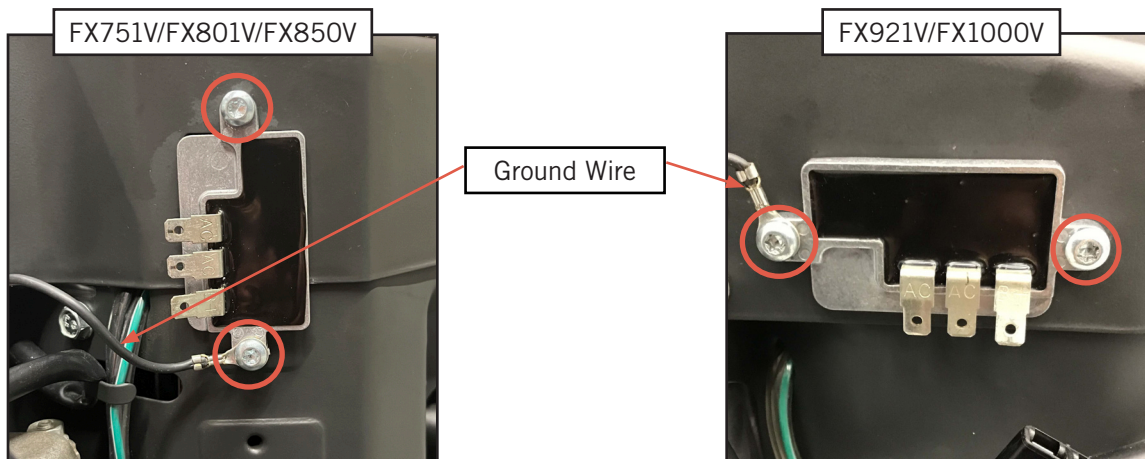


7. For FX751V/FX801V/FX850V engines, loosen (2) #1 cylinder head shroud bolts to allow for proper alignment of voltage regulator lower mounting screw. For FX921V/FX1000V engines, go to Step 8.

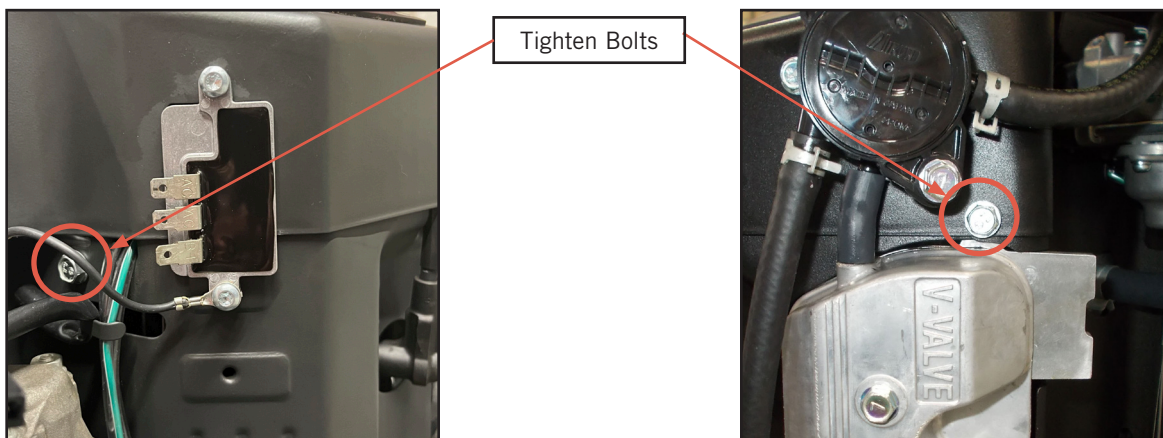




8. For FX751V/FX801V/FX850V engines, use voltage regulator 21066-7017 and (2) 92172-1091 screws from kit 99999-0934.  
For FX921V/FX1000V engines, use voltage regulator 21066-7017 and mounting screws retained in step 5.  
Install voltage regulator with ground wire. Torque voltage regulator mounting screws to 3.5 N-m (0.36 kgf-m, 31 in-lb).



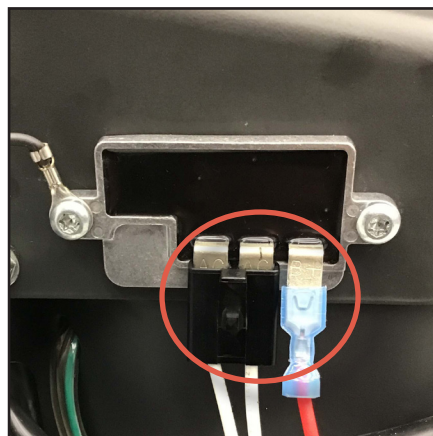
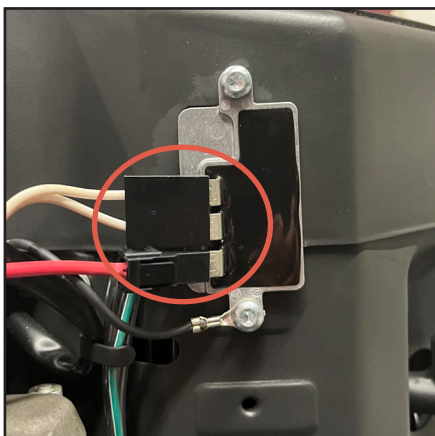
9. For FX801V/850V engines, tighten the (2) loosened #1 cylinder head shroud bolts. Torque shroud bolts to 5.9 N-m (0.60 kgf-m, 52 in-lb).



10. Apply automotive grade dielectric grease to the regulator terminals, then connect the stator coil lead connector and the B+ lead connector.

### IMPORTANT NOTE

Dielectric grease must be applied to new 21066-7017 regulator terminals to ensure proper electrical contact and prevent corrosion.



11. Reconnect the Negative (-) battery cable.v

## REPAIR VERIFICATION

After the update is completed, add a verification mark “●” on the engine bar-code as shown below with a permanent black marker.



## WARRANTY INFORMATION

Model	FX751V, FX801V, FX850V, FX921V, FX1000V
Procedure	Voltage Regulator Replacement
Flat Rate	0.3 hour
Causal Part	Regulator-Voltage
Causal Part No.	21066-0785
Quantity	1
Claim Type	Bulletin