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Coding Information

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Title: WorkStar / 7600 Extended Cranking Time or Hard Start

Applies To: WorkStar 7600 with D Shaped Fuel Tanks and Davco 382 Fuel Water Separators

DESCRIPTION

Extended Crank Times Before the Engine Starts

SYMPTOMS

- Engine cranks for an extended time before starting (greater than 5 seconds).
- No exhaust smoke while cranking engine
- No Active Fault Codes or Engine Warning Lights

PARTS INFORMATION

Part #	Description	Qty.
Auxiliary Port Already in Use		
3571312C1	Bulk Fuel Line	
3559213C2	FITTING, ELBOW FUEL	1
3578152C1	Fitting, Straight Fuel	1
Auxiliary Port Not in Use		
444625	3/8" Pipe Plug (or Equivalent)	1

3578152C1	FITTING, COMPRESSION FUEL OUTLET 5/8" TUBE	1
Select Correct Tube For Fuel Tank Size		
3555276C2	Fuel Tank Tube 13" Deep Tank	
3566910C2	Fuel Tank Tube 15" Deep Tank	
3555277C2	Fuel Tank Tube 17" Deep Tank	
3555278C2	Fuel Tank Tube 19" Deep Tank	
3559217C2	Fuel Tank Tube 23" Deep Tank	

TROUBLESHOOTING

1. Verify Complaint. At room temperature engine should crank and start in less than 5 seconds

RESOLUTION

1. **Workstar 7600 Equipped with MaxxFORCE 11/13 engine in combination with a Davco 382 Fuel Water Separator Feature Codes 15LKX, 15LK**
 - **Verify that Auxillary fuel port is available.**
 - **If available remove plug from auxillary port (pictured below).**
 - **Install a return tube in auxillary port with the same part number as already used for the fuel tank draw tube (see chart under parts information) Tube can be installed without removing the fuel tank from the unit.**
 - **Remove return fuel line from original position and route to return tube in auxillary port.**
 - **Remove original return fuel line fitting from tank and install a pipe plug in place of fitting.**
 - **Prime and start engine**
 - **Road test unit to remove all air from fuel system.**

Caution: Failure to road test vehicle may result in cranking time greater than 5 seconds





- **Auxillary Port not available.**
 - **Install fuel return line from engine outlet so that it loops to the bottom of the fuel tank and back up to the tank return port creating a pea trap for the return fuel to the tank.**

- **Make sure return line is routed and secured appropriately with no kinks or rubs**
- **Prime and start engine**
- **Road test unit to remove all air from the fuel system**

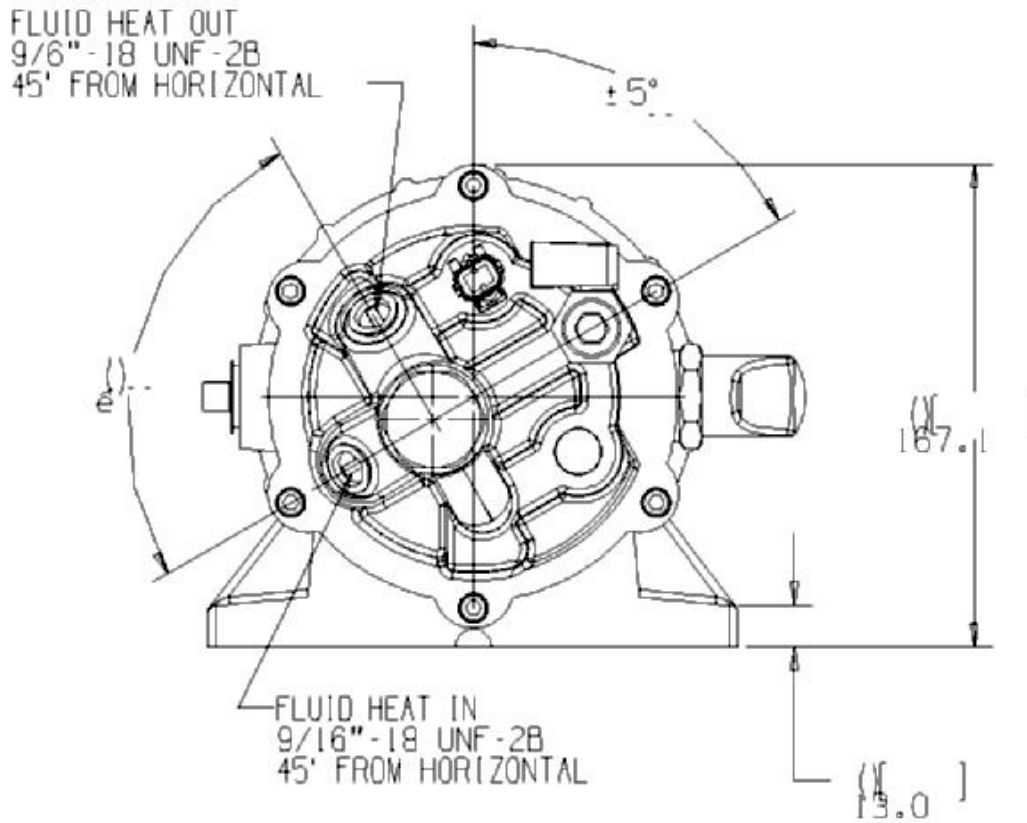
2. Workstar 7600 Equipped with MaxxFORCE 11/13 engine in combination with a Davco

382 Fuel Heated Fuel Water Separator Feature Codes 15LGL, 15LKW, 15LKY and Fuel Cooler 15WCS.

- **Carefully inspect return fuel lines to verify that fuel lines are routed properly.**
 - **Return line from engine must go to the fuel heat inlet at the bottom of the Davco 382 fuel water separator. (Grey lines into bottom of Davco)**
 - **From fuel heat outlet of the Davco 382 to the fuel cooler inlet**
 - **Return from the cooler outlet to the fuel tank.**
 - **Road Test Vehicle to remove all air from the fuel system.**

Caution: Failure to road test vehicle may result in cranking time greater than 5 seconds





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