



Technical Service Bulletin

Technical Service Bulletin: TSB210055

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New Fuel Rail, High Pressure Injector Supply Lines, Fuel Supply Line, Fuel Supply Line Braces, and Pressure Relief Valve

New Fuel Rail, High Pressure Injector Supply Lines, Fuel Supply Line, Fuel Supply Line Braces, and Pressure Relief Valve

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- ISC CM2150
- ISC CM2250
- ISC CM2350
- ISC CM850
- ISL9 CM2250
- ISL9 CM2350 L101
- ISL9 CM2350 L111
- L9 CM2350 L116B
- L9 CM2350 L119B
- L9 CM2350 L120C
- L9 CM2350 L123B
- L9 CM2350 L129C
- QSC8.3 CM2250
- QSL9 CM2350 L102
- QSL9 CM2350 L118
- QSL9 M CM2250 L106

Description of Change

A new fuel rail is available along with new high-pressure injector supply lines, fuel supply line, and fuel supply line braces. The new fuel rail is **not** compatible with the existing high-pressure injector supply lines.

Service Instructions

- If existing fuel rail has malfunctioned, replace with the new fuel rail.
 - New high-pressure injector supply lines **must** be used with the new fuel rail.
 - New fuel supply line and new fuel supply line brace **must** be used with the new fuel rail. Replace the existing brace with **only** one corresponding new brace part number. See Table 1.
- If the existing high-pressure injector supply line has malfunctioned, replace with new high-pressure injector supply line.
 - Do **not** replace the fuel rail.
- If the existing fuel supply line has malfunctioned, replace with new fuel supply line.
 - Do **not** replace the fuel rail.

Service Parts Availability

Service parts are available. See Table 1 for part numbers.

Table 1, Service Parts

Part Description	Existing Part Number	Obsolete	Superseded	Quantity	New Part Number	Injector Supply Number
Fuel Rail	4307377	Yes	Yes	1	5594271	-
Brace, Tube	4989442	No	No	1	5482141	-
	4989322	No	No	1	5482142	-
Tube, Injector Fuel Supply	5336420, 4937931	Yes	Yes	1	5481953	1
	5333472, 4937932, 5285790	Yes	Yes	1	5525525	2
	5292964, 5266056	Yes	Yes	1	5481947	3
	5333473, 4937934	Yes	Yes	1	5481951	4
	5292969, 4937935	Yes	Yes	1	5481949	5
	5292967, 4936196	Yes	Yes	1	5481948	6
	5333474, 4980581, 5285791	Yes	Yes	1	5525526	-

Table 1, Service Parts						
Part Description	Existing Part Number	Obsolete	Superseded	Quantity	New Part Number	Injector Supply Number
Valve, Pressure Relief	5462312	No	No	1	4307376	-

Fuel rail with electronic pressure relief valve (first used for L9 CM2350 L126B) - does **not** utilize crush washers. See Table 2 for additional information.

Table 2, Part Compatibility and Part Identification					
Fuel Rail Part Number	Fuel Rail Identification	Pressure Relief Valve	High Pressure End Fitting (Injector Number 1)	Fuel Rail Pressure Sensor	Comments
4307377	See Figure 3	<ul style="list-style-type: none"> Part Number 4307376 Seal Washer : Yes 	<ul style="list-style-type: none"> Part Number 4954312 Seal Washer : Yes 	<ul style="list-style-type: none"> Part Number 2897581 Seal Washer : No 	<ul style="list-style-type: none"> Use crush washer, Part Number 4984382, for the end fitting and pressure relief valve. Reference Procedure 006-061 in Section 6.

Table 2, Part Compatibility and Part Identification					
Fuel Rail Part Number	Fuel Rail Identification	Pressure Relief Valve	High Pressure End Fitting (Injector Number 1)	Fuel Rail Pressure Sensor	Comments
5594271	See Figure 2	<ul style="list-style-type: none"> • Part Number 4307376 • Type: Mechanical • Seal Washer : Yes 	<ul style="list-style-type: none"> • Part Number 4954312 • Seal Washer : Yes 	<ul style="list-style-type: none"> • Part Number 2897581 • Seal Washer : No 	<ul style="list-style-type: none"> • Use crush washer, Part Number 4984382, for the end fitting and pressure relief valve. • Reference Procedure 006-061 in Section 6.

Table 2, Part Compatibility and Part Identification

Fuel Rail Part Number	Fuel Rail Identification	Pressure Relief Valve	High Pressure End Fitting (Injector Number 1)	Fuel Rail Pressure Sensor	Comments
5653906 (5653980 for hybrid applications)	See Figure 1	<ul style="list-style-type: none"> • Part Number 5491245 • Type: Electric Pressure Relief Valve • Seal Washer : No 	<ul style="list-style-type: none"> • Part Number: 4954312 • Seal Washer : No 	<ul style="list-style-type: none"> • Part Number 2897581 • Seal Washer : No 	<ul style="list-style-type: none"> • Do not install a crush washer when servicing this rail. • Reference Procedure 006-061 in Section 6.

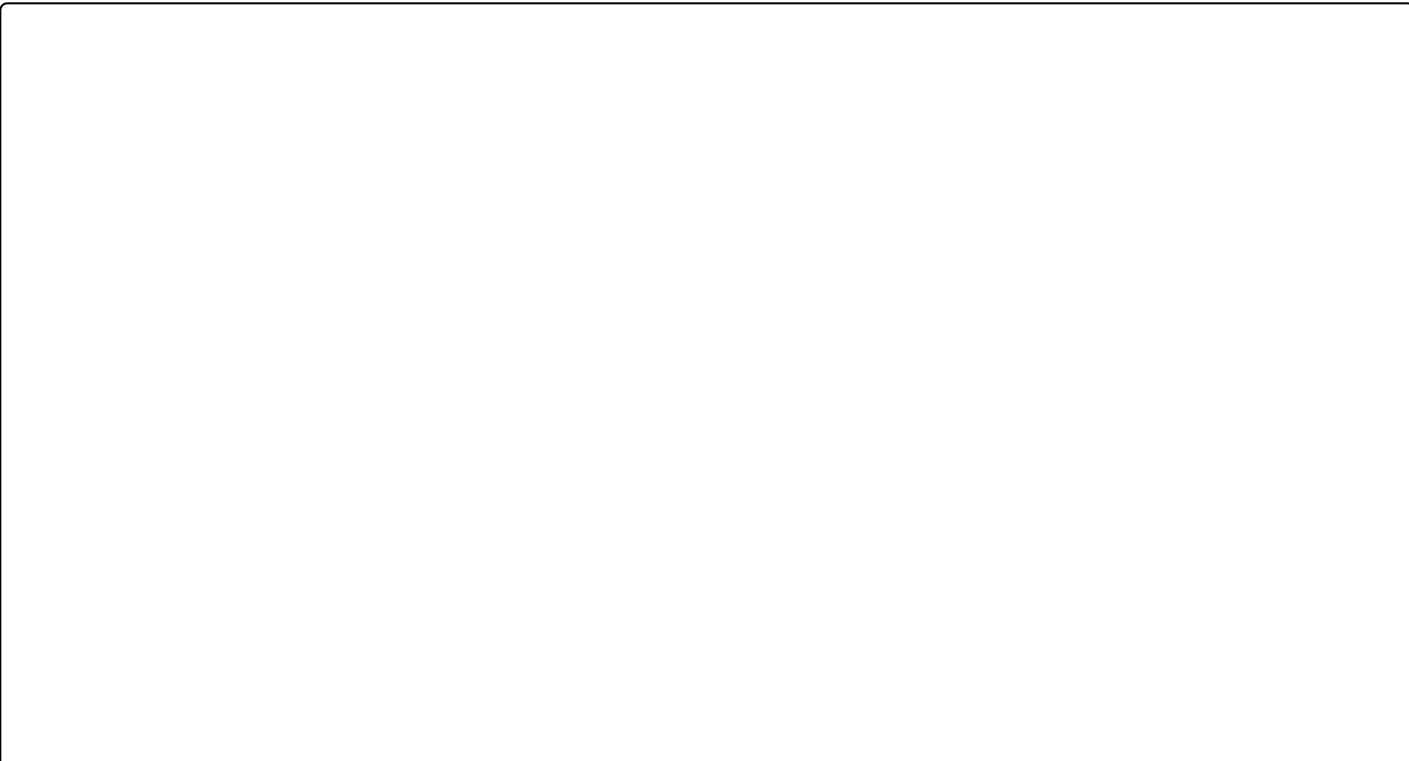




Figure 1, Fuel Rail, Part Number 5653906.

Part Compatibility

- New fuel rail is **only** compatible with new high-pressure injector supply lines, and fuel supply line and fuel supply line braces.
- Existing fuel rail is compatible with either existing or new high-pressure injector supply lines, and fuel supply line and fuel supply line braces.

Part Identification

All parts colors are for illustration purpose **only** and do **not** reflect the actual color of the parts.

1. New fuel rail can be identified by the shape.

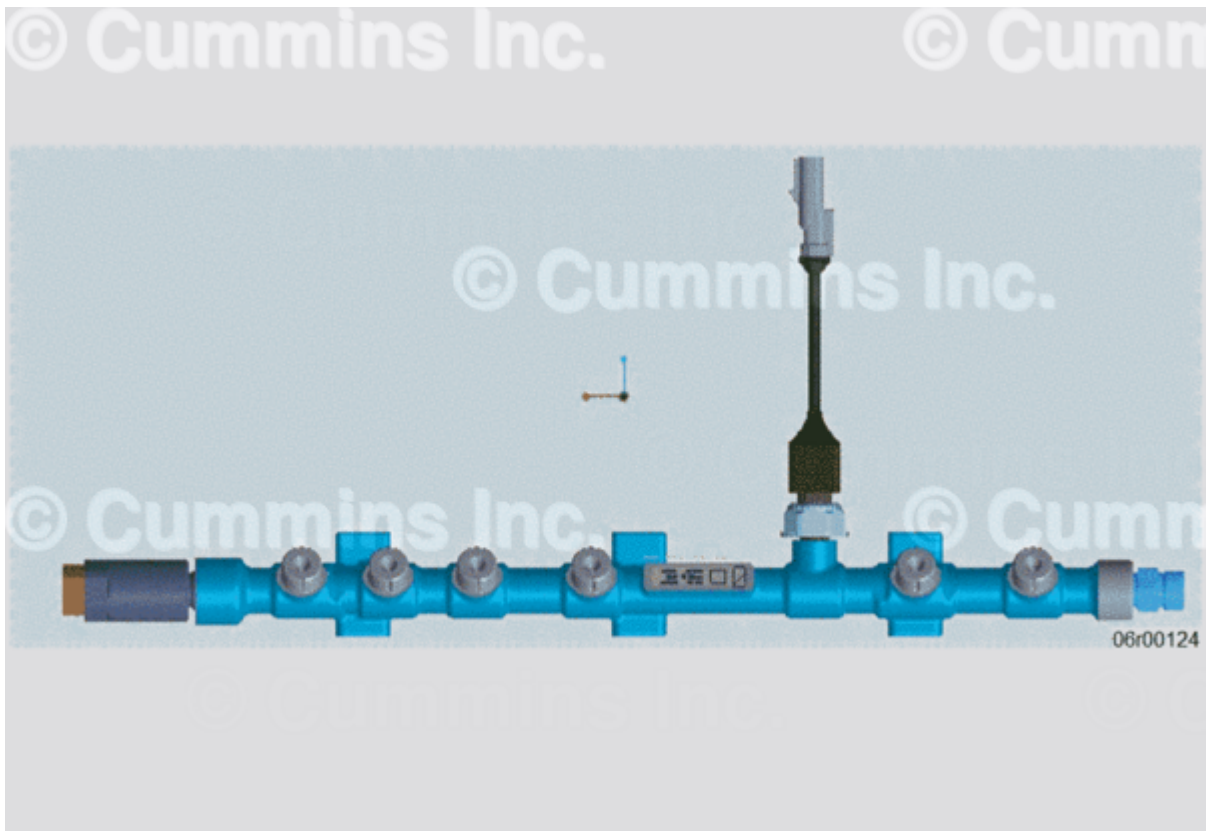


Figure 2, New Fuel Rail.

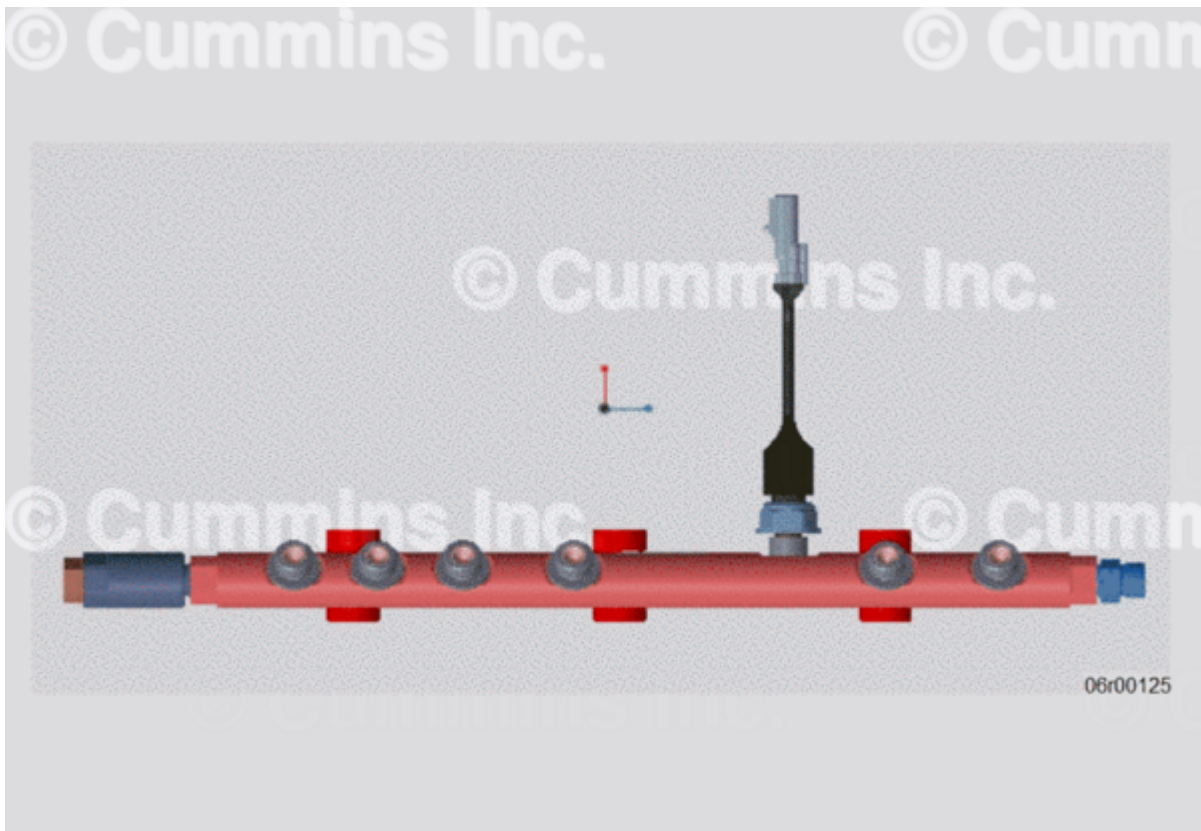


Figure 3, Existing Fuel Rail.

2. High pressure injector supply lines can be identified by the shape.

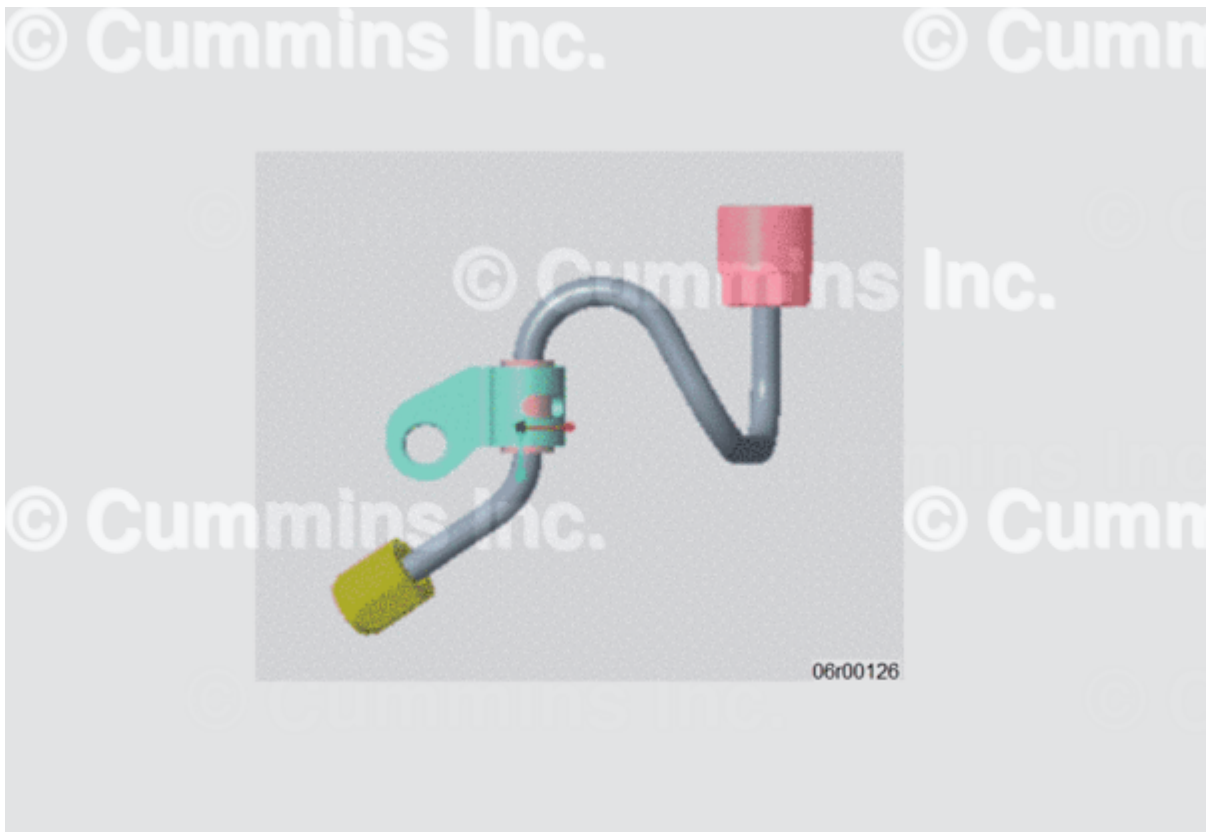


Figure 4, New High-Pressure Injector Supply Line, Part Number 5481953 (Injector 1).

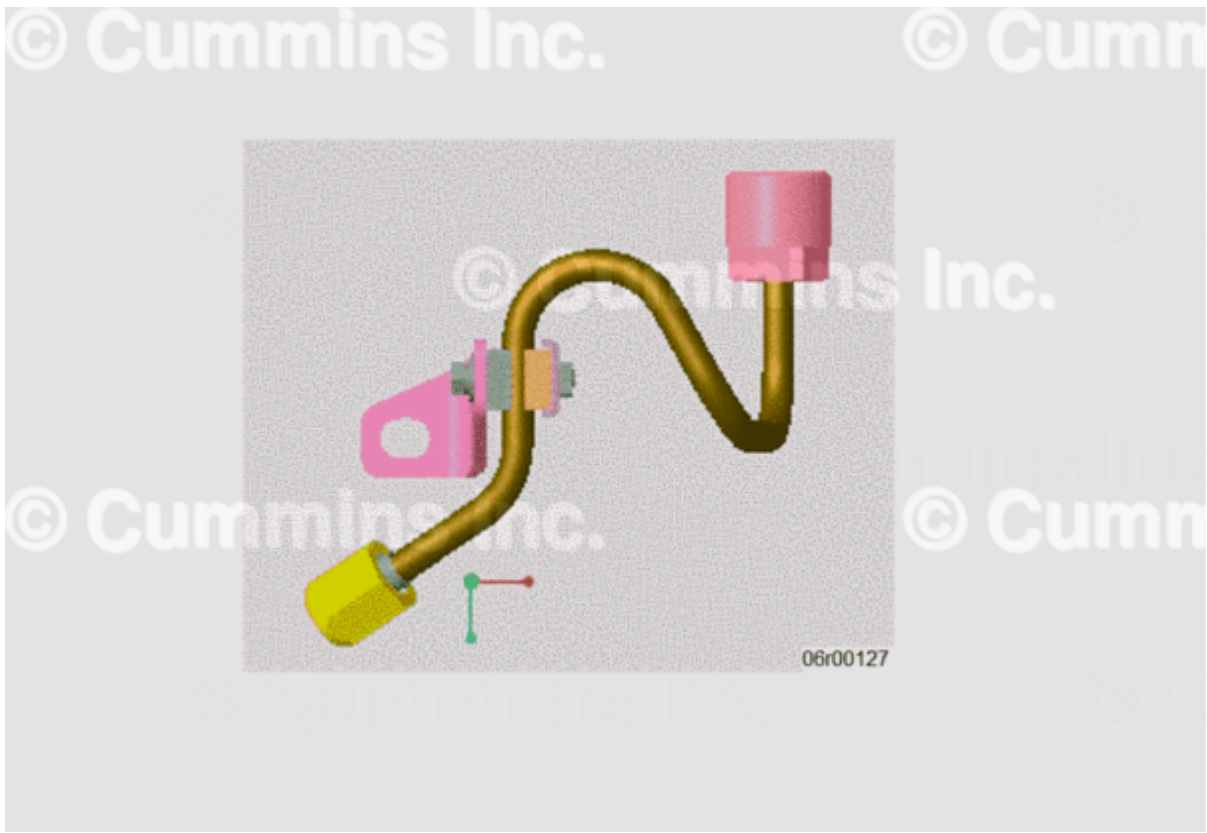


Figure 5, Existing High-Pressure Injector Supply Line, Part Number 4937931 (Injector 1).



Figure 6, New High-Pressure Injector Supply Line, Part Number 55525525 (Injector 2).



Figure 7, Existing High-Pressure Injector Supply Line, Part Number 4937932 (Injector 2).

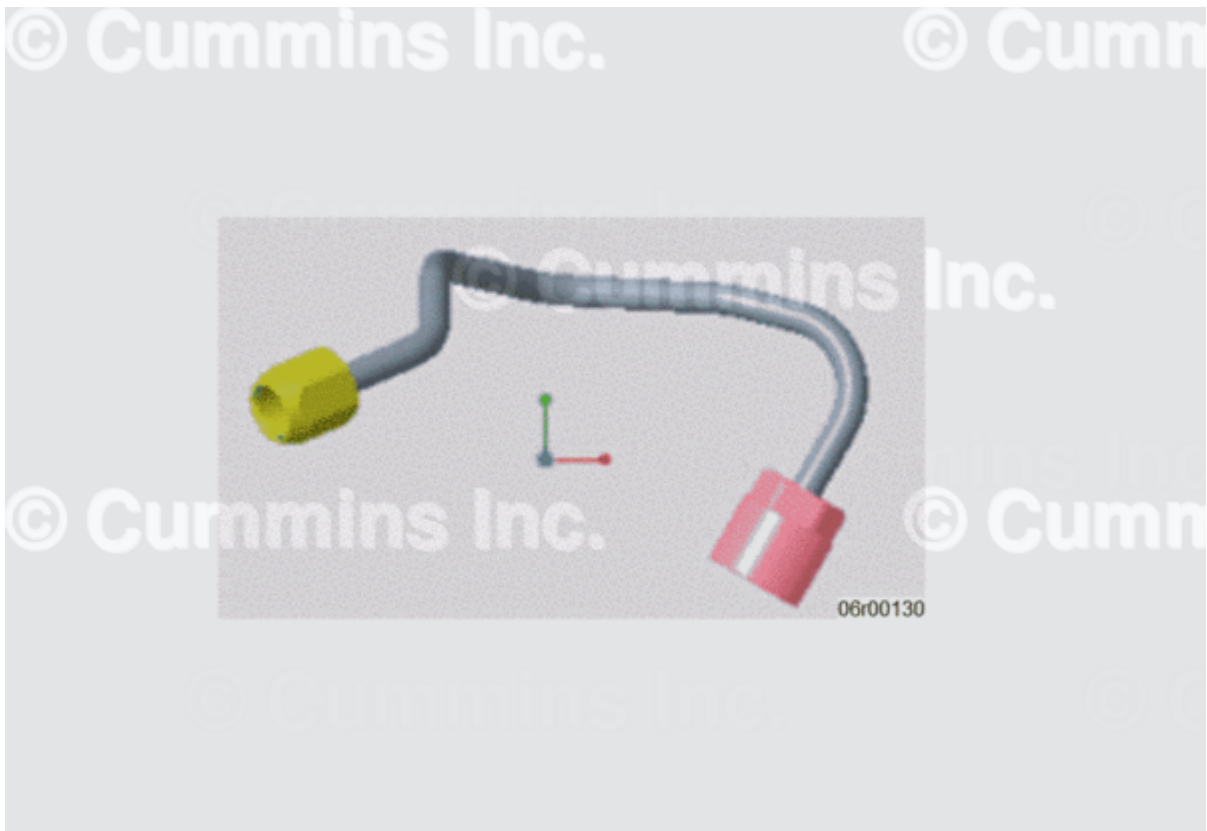


Figure 8, New High-Pressure Injector Supply Line, Part Number 5481947 (Injector 3).

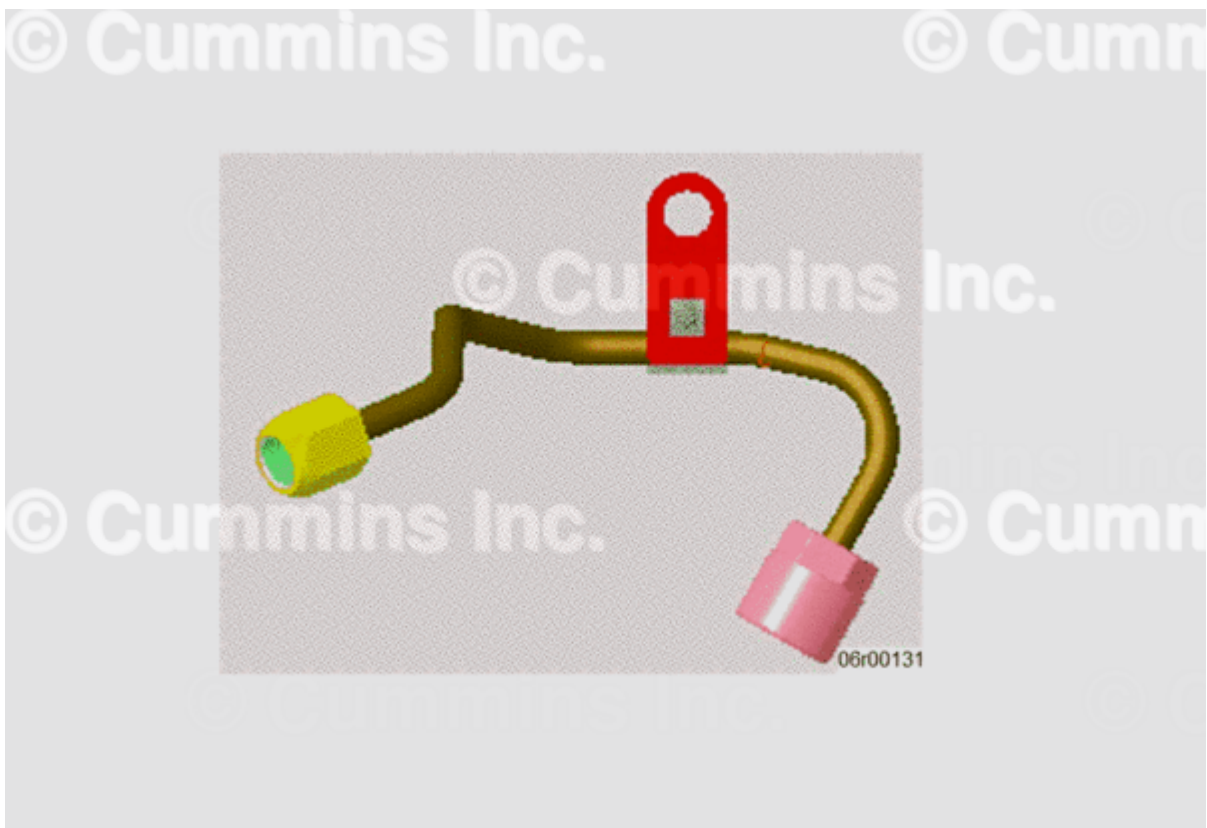


Figure 9, Existing High-Pressure Injector Supply Line, Part Number 5266056 (Injector 3).

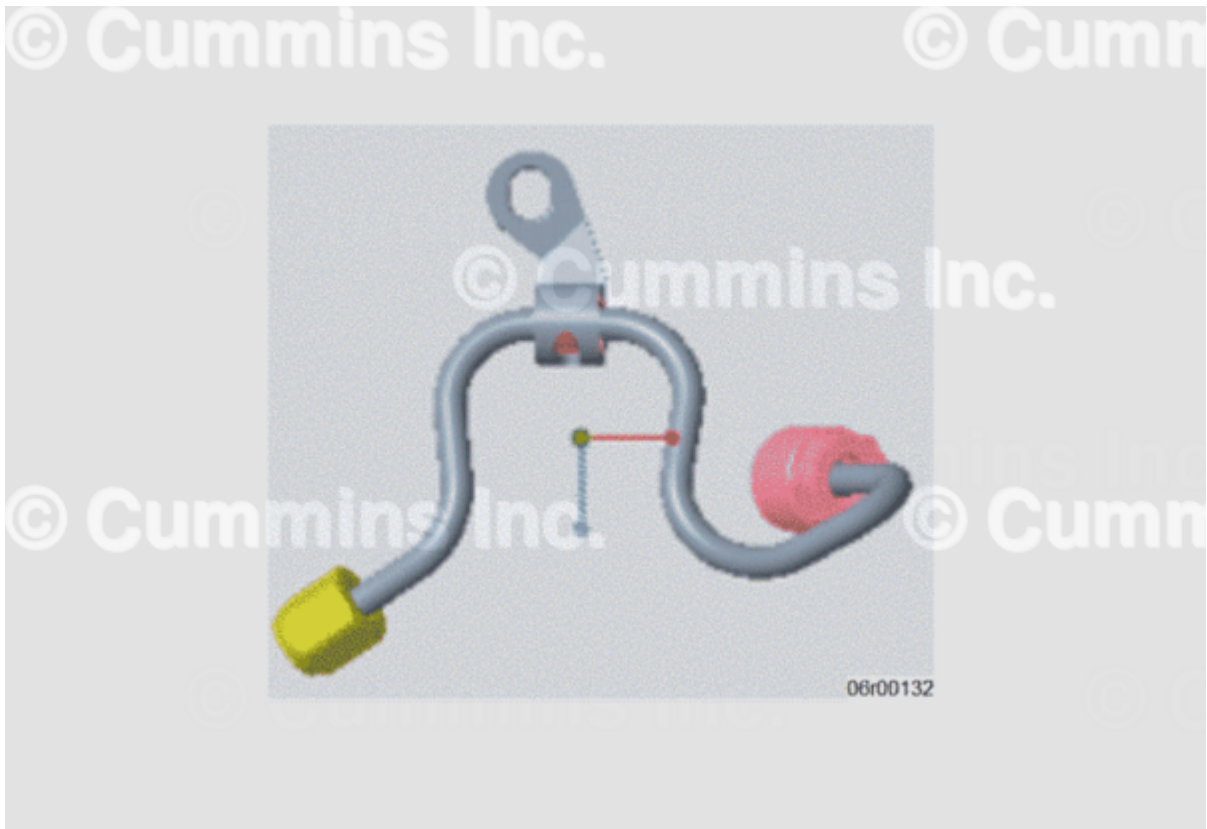


Figure 10, New High-Pressure Injector Supply Line, Part Number 5481951 (Injector 4).

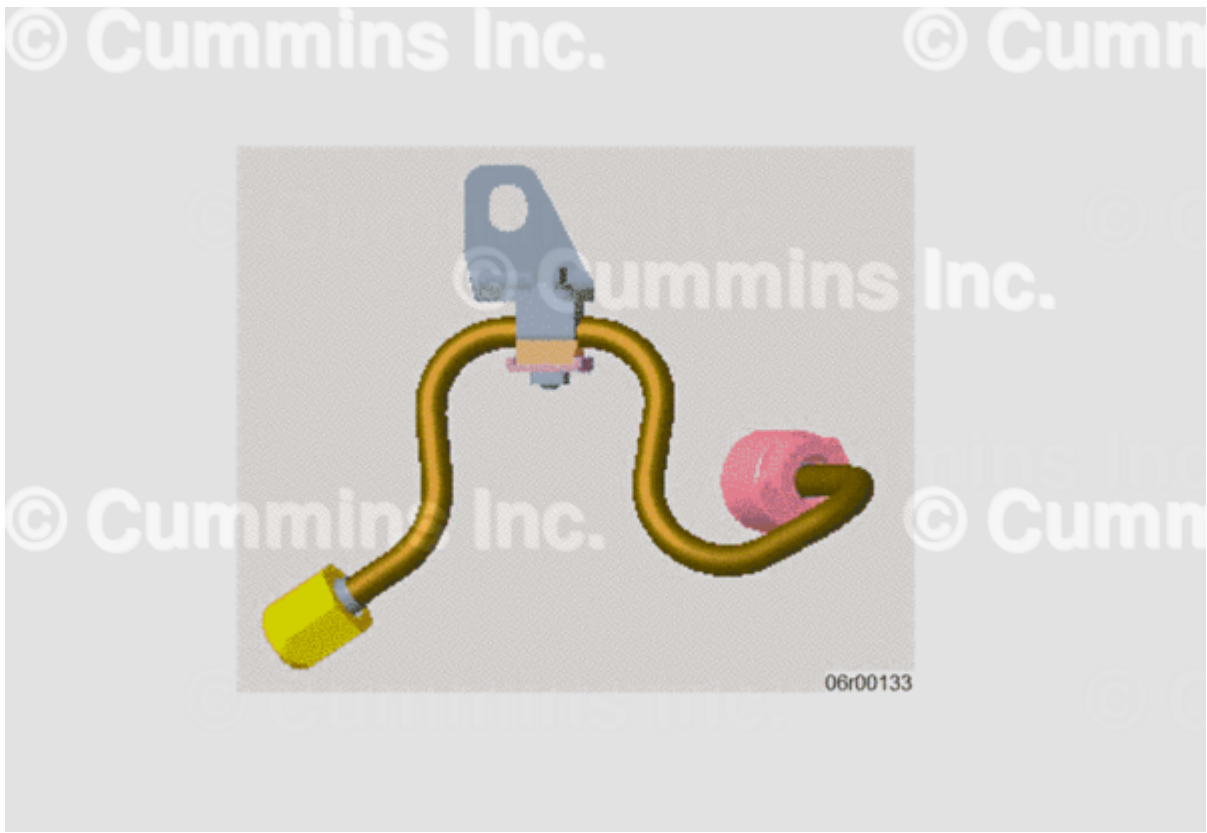


Figure 11, Existing High-Pressure Injector Supply Line, Part Number 4937934 (Injector 4).

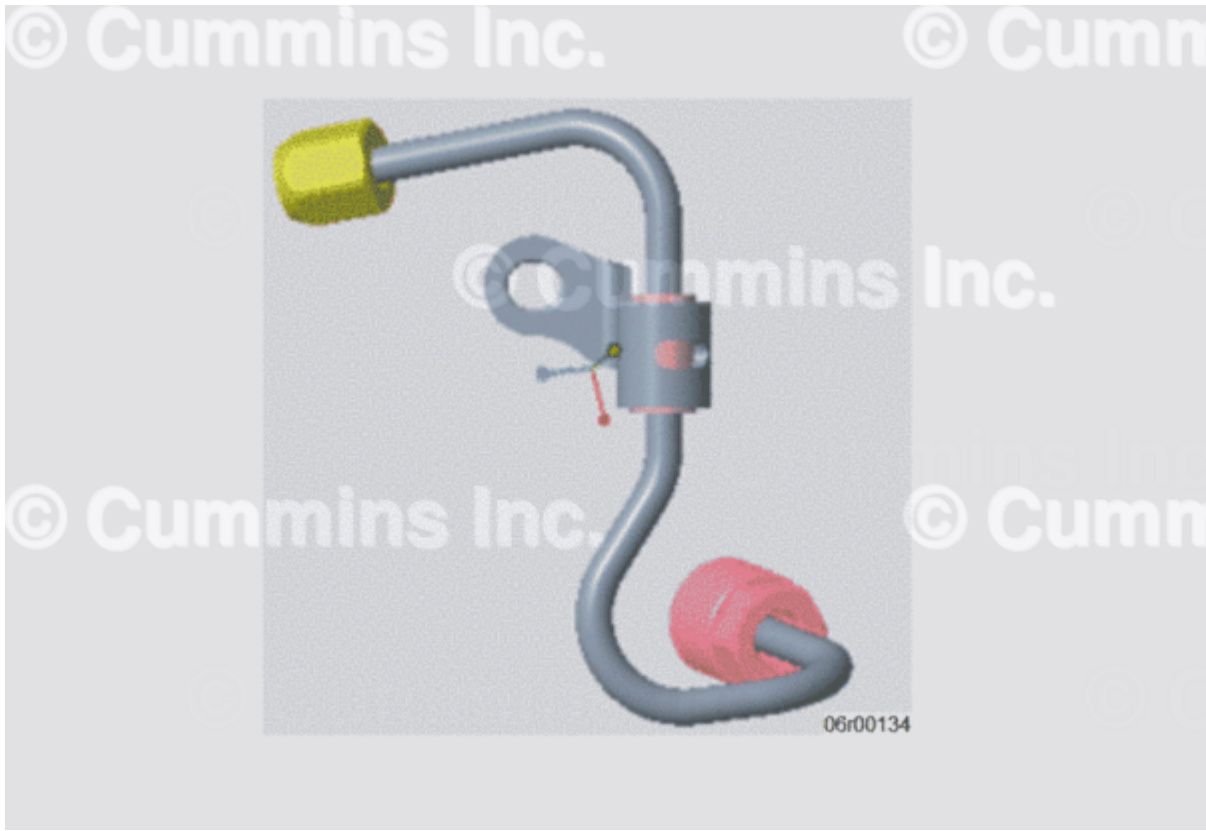


Figure 12, New High-Pressure Injector Supply Line, Part Number 5481949 (Injector 5).



Figure 13, Existing High-Pressure Injector Supply Line, Part Number 4937935 (Injector 5).

Figure 14, New High-Pressure Injector Supply Line, Part Number 5481948 (Injector 6).



Figure 15, Existing High-Pressure Injector Supply Line, Part Number 4936196 (Injector 6).

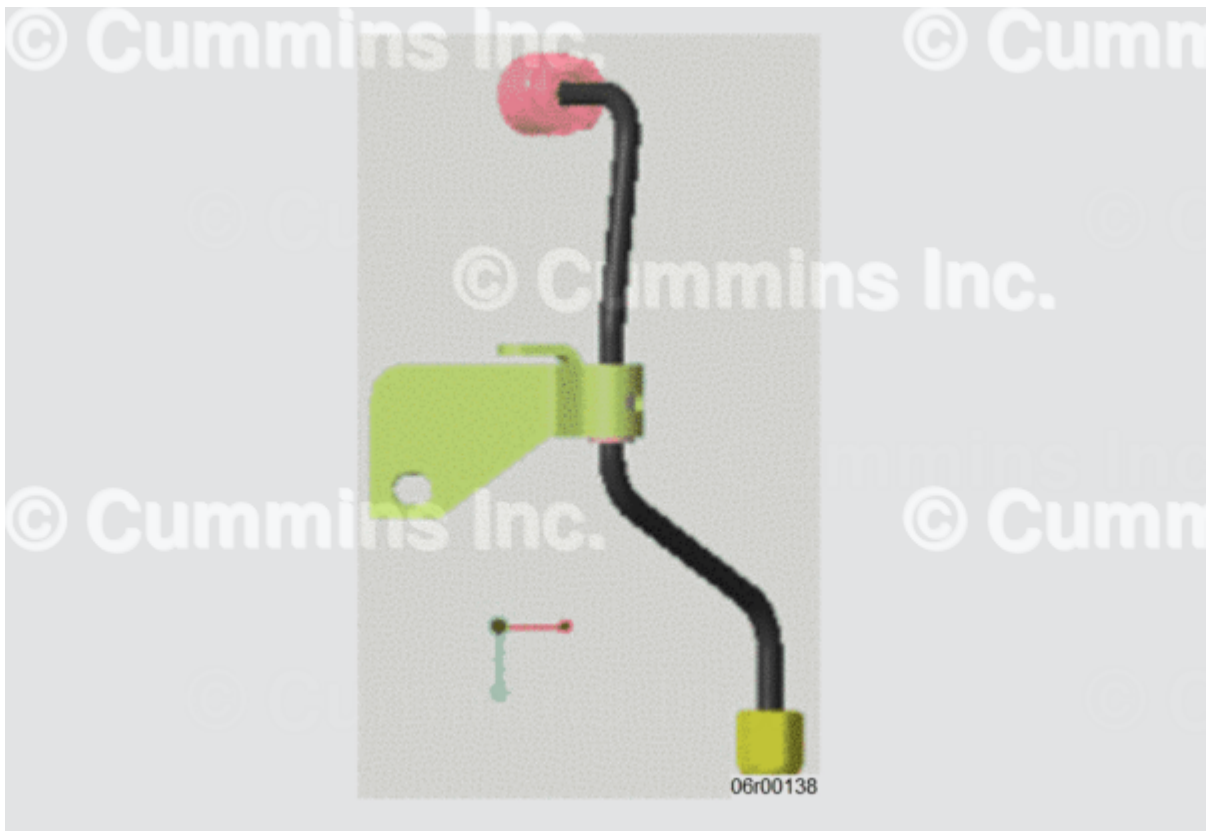


Figure 16, New Fuel Supply Line, Part Number 5525526 (Pump to Rail).

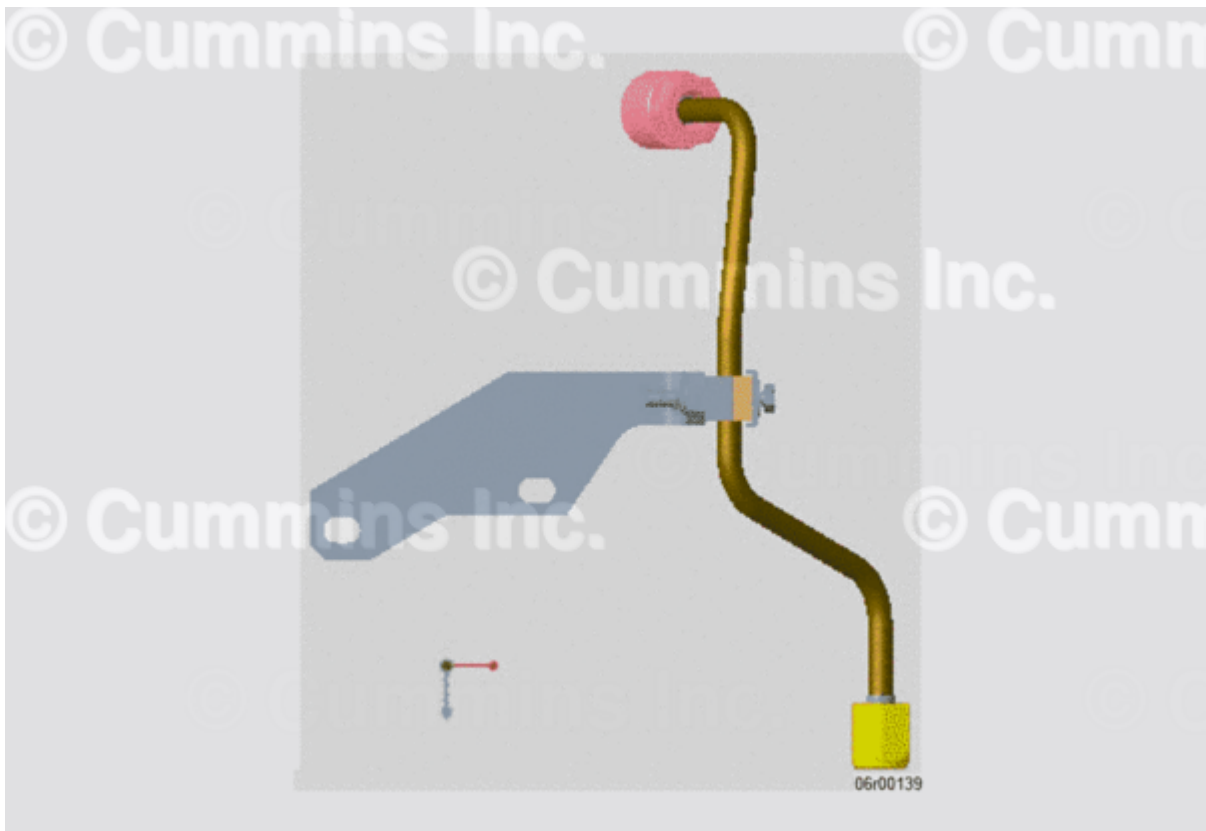


Figure 17, Existing Fuel Supply Line, Part Number 5285791 (Pump to Rail).

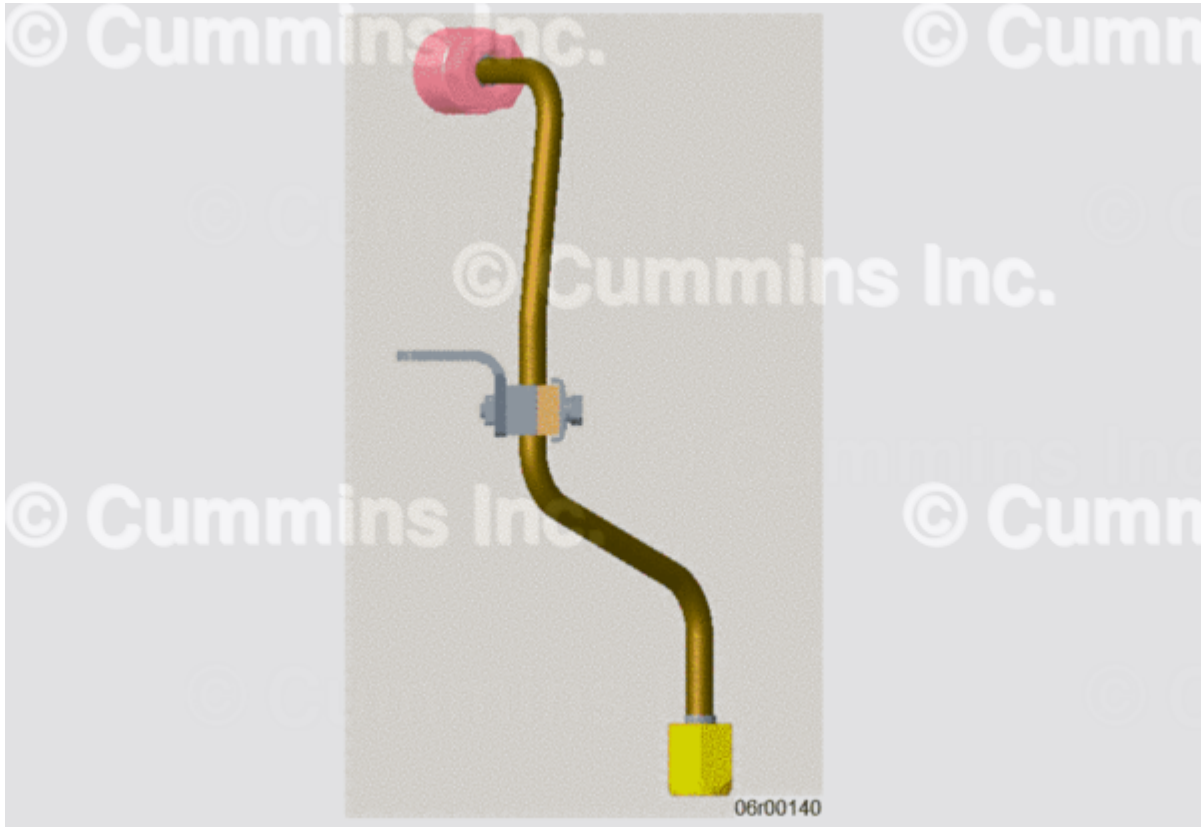


Figure 18, Existing Fuel Supply Line, Part Number 4980581 (Pump to Rail).

Document History

Date	Details
2021-3-4	Module Created
2021-4-29	Updated Product Affected.
2022-5-19	Added statement to: Replace the existing brace with only one corresponding new brace part number. See Table 1.
2022-10-27	Non-Product Problem Solving (PPS)

Last Modified: 03-Nov-2022
