



## Lubecore Technical Announcement

### New Hand Push-in 6mm Korilla Fittings

Lubecore is pleased to announce the introduction of an updated 6mm fitting for its Korilla systems. The new push-in fittings were designed for easier and quicker installation as they can be manually inserted. This is a continuation of the introduction of hand insertable barbed fittings for all Korilla lining as introduced originally in TCM LCC2019-010 and LCC 2020-001.



Figure 1: Old 20.225 (Left) compared to New 20.225 (Right)

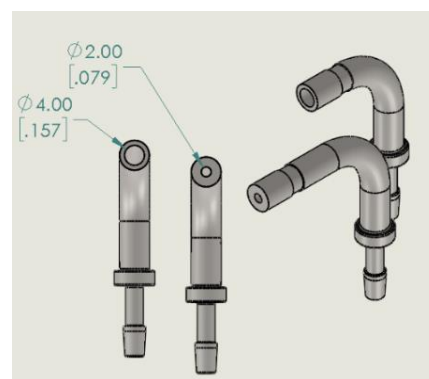


Figure 1: Old 20.225 (Left) compared to New 20.225 (Right)

Other benefits with new push in 6mm Korilla fittings:

- No need for insertion tool
- Ease of in-field use
- Easier to rotate fitting in Korilla lining and improved routing capability
- Time savings from quicker insertion
- Same burst pressure rating as previous fitting maintained
- Improved corrosion resistance

**Note:**




- The use of current fittings and clamps (20.232) is now discontinued.

Parts, tooling and assembly process changes are shown in Table 1, Table 2, and Table 3 respectively.





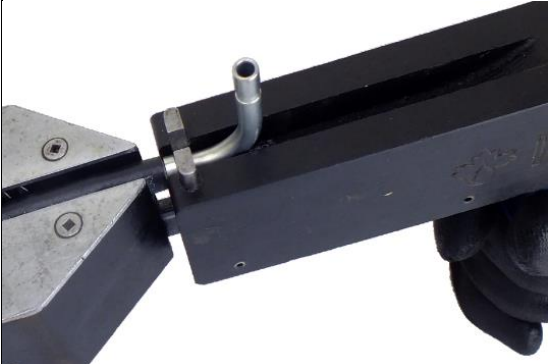


**Table 1: Parts Replacement Table**

Old Part #	Description	New Part #	Description
20.225	<b>6mm Stud 90° claw - double barb</b> 	20.225	<b>6mm Stud 90° claw - single barb</b> 
20.224	<b>6mm Stud 45° claw - double barb</b> 	20.224	<b>6mm Stud 45° claw - single barb</b> 
20.223	<b>6mm Stud Straight claw - double barb</b> 	20.223	<b>6mm Stud Straight claw - single barb</b> 
20.232	<b>SS Clamp 9.5 mm</b> 	20.239	<b>SS Clamp 8.7 mm</b> 

**Table 2: Tooling Change Table**

Old Part#	Description of Current Tooling	New Part#	Description of Hand Push-in 6mm Korilla Fittings Tooling
71.032	<b>Insertion tool</b> 	NA	No longer required
70.114	<b>Clamp crimping tool</b> 	70.114	<b>Clamp crimping tool</b> 

**Table 3: Assembly Process Change Table**

Current Process	Hand Push-in 6mm Korilla Fittings Process
<p>Place hose and fitting in the insertion tool</p> 	<p>Hold hose and fitting</p> 
<p>Repeatedly squeeze the handle for insertion</p> 	<p>Perform insertion</p> 
<p>Remove the assembly once insertion is complete</p> 	<p>Set clamp and perform crimping</p> 
<p>Set clamp between the barbs and perform crimping</p> 	

## Push-in 6mm Korilla Fittings compared to Reusables

Besides the simpler and faster assembly process, the new 6mm Korilla fittings mitigate the risk of restrictions resulting from improper assembly with re-usable hose fittings.

### Risks of improper assembly of re-useables

In situations where the sleeve of the re-useable is installed too far onto the hose, the inserting piece will fold over the inner lining causing a restriction, which results in increased pump pressure and wear, thus negatively affecting the system performance and durability.

Figure 13: Proper Installation  
unrestricted grease path

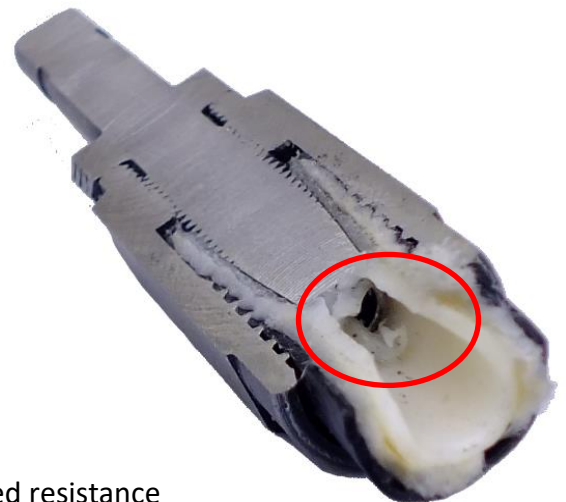


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Figure 14: Improper Installation  
restricted grease path



Figure 15: Cross-section of a  
restricted grease path



Restricted grease path results in:

- Blocked fittings or “pin hole” openings with greatly increased resistance
- Wasted grease going through pressure relief valve
- Associated rework and machinery downtime
- Longer service calls: it can take upwards of 30 - 60 minutes of pumping time before all lines are expanded (max pressure reached) and the restriction is detected
- Negative impact to brand and service image

Reusables work well when correctly installed. Lubecore, however, does not recommend the use of reusables because of the potential for improper installation. It has also been determined that the installation time required for reusable fittings is 3X longer than the new single barbed 6mm fittings. Lubecore’s standard recommendation for the installation of Korilla line is single barbed fittings.