Document Name: PDiagram-VP child PI-1	1	Created By: C Kirubakaran

Parameter Diagram **Focus Element** : VP child PI-1 **Context Element** : VP child PI-1

Noise Factor

Noise Factors1

- [x] 7.2.1 Incorrect Coil Sizing
- [x] 2.1.4 Friction between push pin and c-pole
- [x] 7.2.2 Coil wire insulation cannot withstand operating temperatures and the wires short
- [x] 2.1.5 Poor alignment of magnetic parts
- [x] 2.1.7 Side load prevents smooth armature movement
- [x] 4.3.1 Push Pin moves relative to armature
- [x] 2.1.6 Armature/Dimple wear from Armature rubbing (insu?cient hardness/coating)

Noise Factors2

- [x] 4.3.1 Push Pin moves relative to armature
- [x] 2.1.6 Armature/Dimple wear from Armature rubbing (insu?cient hardness/coating)

Noise Factors3

Noise Factors4

Noise Factors5

- [x] 7.2.3 Water in connector shorts pins
- [x] 7.2.2 Coil wire insulation cannot withstand operating temperatures and the wires short

Signal Inputs

Signal Inputs10

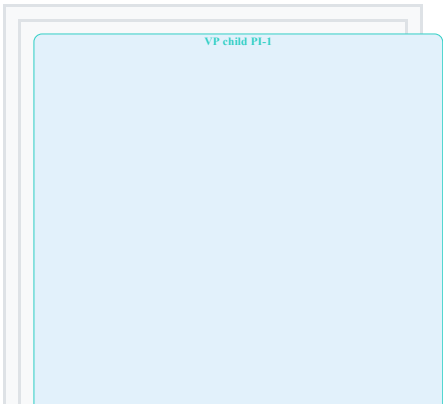
Signal Inputs10
Signal Inputs10
Signal Inputs10.3
Signal Inputs10.4
Signal Inputs10.5

Signal Inputs20

Signal Inputs20.1
Signal Inputs20.2
Signal Inputs20.3
Signal Inputs20.4
Signal Inputs20.5

Signal Inputs30

Signal Inputs20.1
Signal Inputs20.2
Signal Inputs20.3
Signal Inputs20.4
Signal Inputs20.5



Responses (Outputs)

- [ ] 2. Hysteresis
- [x] 10. Mechanical Interface Solenoid Interfaces Properly with Engine Front Cover
- [x] 4. Minimum Stroke >= 5.5 mm

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