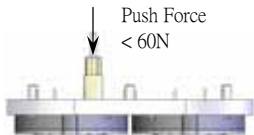
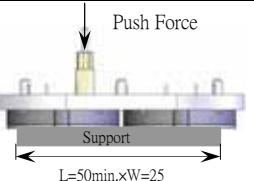
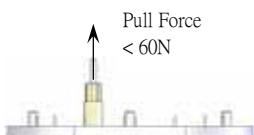
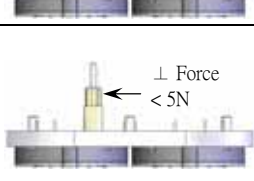
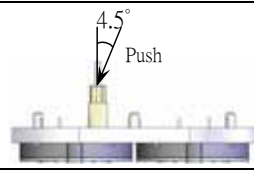
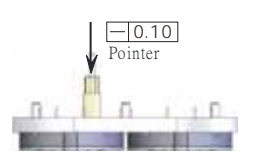
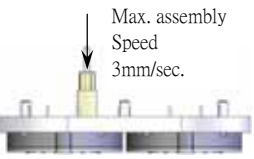
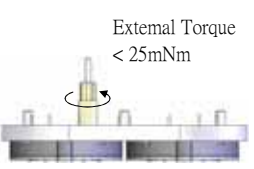
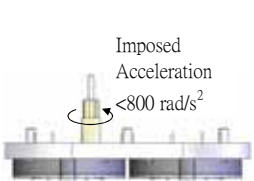
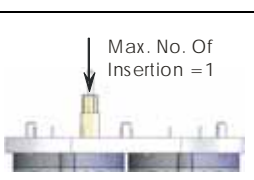


VID28 Precaution of Pointer Assembly 指針裝配要點 --- OUTER SHAFT ONLY 只適外軸用

Internal Shaft Assembly Precaution is referred to the VID29 spec. 內軸指針裝配要點請以VID29指引作參考

Description 描述	Diagram 圖解	Specification 標準		Possible problems when over limit 超标后可能引起的问题	Remarks 备注
		Limit 極限	Unit 單位		
Maximum Push On Force 最大壓力		60 max.	N	Outer shaft deform/ Gear damage/ Abnormal Noise/ Wire damaged/ Wire broken/ 外軸變形\ 齒傷\ 噪音\ 斷線\ 線傷	Proper fixing motor on PCB. Proper supporting during assembly. 电机需正确装上PCB;
Minimum Assembly Support 最小裝配支持		50 min. × 25 min.	mm	Outer shaft deform/ Gear damage/ Abnormal Noise/ Wire damaged/ Wire broken/ 外軸變形\ 齒傷\ 噪音\ 斷線\ 線傷	Concrete base support should be located properly under the base of motor.
Maximum Pull Out Force 最大撥出力		60 max.	N	Outer shaft deform/ Gear damage/ Abnormal Noise 外軸變形\ 齒傷\ 噪音	Repetitive push & pull force should also be avoided. This could weaken or damage the outer shaft structure and gears.
Maximum Perpendicular Force 最大橫向力		5 max.	N	Output shaft deform/ Non-concentric rotation of output shaft 軸彎\ 轉動晃動	Excess perpendicular force should be avoided to bend the shaft. 需避免過大橫向力，防止軸變形。
Maximum Force Inclination 最大力傾斜度		4.5 max.	degree	Output shaft deform / Non-concentric rotation of output shaft 軸彎\ 轉動晃動	Excess inclination of applied force should be avoided to deform the shaft. 施加外力時，需避免外力過大傾斜，防止軸變形。
Maximum Pointer Straightness Deviation 最大指針垂直度偏差		0.10 max.	mm	Output shaft deform / Non-concentric rotation of output shaft. 軸彎\ 轉動晃動	Pointer straightness should be maintained within 0.2mm during assembly. Excess inclination could induce excess perpendicular force and deform the shaft. 當裝配時指針需保持直度0.2mm垂直，過量傾斜會引起過量橫力，引至軸變形。
Maximum Assembly Speed 最高裝配速度		3 max.	mm/sec	Outer shaft deform/ Gear damage/ Abnormal Noise 外軸變形\ 齒傷\ 噪音\ 斷線\ 線傷	Excess assembly speed could induce excess force on gears. 裝配速度太快會令齒輪受力過大。
Maximum External Torque 最大外加扭力		25 max.	mNm	Output shaft deform / Gear damage/ Stopper damage (360 Degree Rotate) 外軸變形\ 齒傷\ 限位受傷	Excess external torque (> 40 mNm) applied on shaft would damage the outer shaft, gears and stopper. 過量外加扭力，外輪、齒輪和限位會被弄傷。
Maximum Imposed Acceleration 最高外加加速率		800 max.	rad/s ²	Gear damage 齒傷	Excessive imposed acceleration would induce excessive force on gears, it must be avoided. 過高外加加速率，能引起齒輪上產生過大應力，必須避免。
Maximum Number of Pointer Insertion 最多指針裝配次數		1 max.	time	Pointer loose out from Outer shaft / Pointer loose out from Outer shaft when temperature changes 指針由外軸脫落/ 指針在溫度改變時由外軸脫落	Repetitive assembly and disassembly pointer would cause outer shaft surface wearing. It induce loose matching between pointer and shaft. 重覆裝配指針於外軸上，會引致外軸表面磨損。這引致指針與外軸配合鬆。