VxMark - WorkPlan

VX~00~30000

Jesse DeWald (JD) Nov 12, 2024

General Instructions

- Fasteners are tightened ½ turn past finger tight
- Thread locking fasteners must be used in all locations
- Zip ties must be trimmed
- Connectors must be hot glued or strain relieved

VX~01~30006

(card reader addition)

☐ Remove 13 screws (12 large, 1 small) from the underside and separate the two halves of the BMD	
☐ Disconnect 4 cables	
☐ Power	
☐ Speaker	
□ USB	
☐ Ground	
☐ Remove 5 screws from printer tray and detach	
□ Discard screws, set infeed aside	
☐ Remove 2 screws from bar code reader and detach	
☐ Discard screws	
☐ Unclip ferrite bead	
☐ Disconnect cable and set bar code reader + cable into storage	
☐ Detach USB hub PCBA	
☐ Four screws + standoff (retain these)	
Unclip ferrite beads but do not disconnect cables	
☐ Disconnect Scanner power connector	
☐ Solder 5 pin header to USB1 footprint	
☐ QC solder job	
☐ Replace PCBA	

	Reclip ferrite beads
	Reattach scanner power connector
	Replace printer tray
	☐ Use 5x M3x8L BHCS
	Install VX~02-30010 to PCBA on USB3 (vacated barcode reader header)
	Wrap through ferrite bead used for barcode reader
	☐ Hot glue connector in place
	☐ Add a cable tie mount near casing seam
	☐ zip tie cable in place
	Remove keypad bumper
	☐ Discard four screws
	Epoxy card reader cover (VX~02-30005)to new keypad cable tray (VX~02-30002)
	Install cable VX~02-30007 to card reader HID~OMNIKEY-R31210375-1
	Snap card reader into card reader mounting bracket VX~02-30006
	Wrap cable around retention features and zip tie in place
	Install card reader + bracket on keypad cable tray
	☐ Use 2x M3x8L BHCS + 2x M3 sealing washers
	Install card reader assembly onto VSAP
	☐ Use 4x M3x6L BHCS + M3 washers
_	Route cable along existing cable tie mounts
	Add cable tie mount near casing seam and zip tie cable in place
VX~	-01~300016
∐ina	o Stiffoning
Hilly	e Stiffening
	Remove both hinge arms
	☐ Remove 2x screws on hood and 2s screws on casing. Discard
	☐ Disconnect and remove LED cable
	Disassemble hinge arms from spring barrel
	☐ Discard 25mm bolt
	Install updated hinge arms (VX~02-30012 and VX~02-30011) to spring barrels
	☐ Use M3x25L BHCS and M3x9L F/F standoff
	☐ Retain oversized delrin washer but replace M3 washer with oversized M3 SS
	washer
	Attach stiffener crossbody (VX~02-30013) to hinge arms
	☐ Use 1x M3x5L FHCS to install mounting brackets (VX~02-30008 and
	VX~02-30009)

Use 4x M3x6L BHCS and M3 oversized SS washers to install stiffener to brackets
☐ Attach stiffener assembly to VSAP
☐ Use 8x M3x6L BHCS + M3 washers to reattach to hood and casing
(optional) use up to 4x M3x10L + M3 washer on stiffener holes to further stiffer
infeed of casing
Finishing Up
☐ QC Card Reader
☐ QC Stiffening
☐ Open and close hood
☐ QC PCBA and Printer Infeed
☐ Reattach 5 connectors
☐ Power
☐ Ground
USB hub
☐ Card Reader
☐ Speaker
☐ Mate two halves of casing
☐ Tighten 13 screws to ½ turn greater than finger tight
☐ Power on
Update controller firmware
☐ Test
Sound
☐ Card reader
☐ Ballots feed
☐ Hood cover alarm
☐ Check BMD for any rattling
☐ Check BMD for any gaps in seams