



Parts Manual

PBPL12, PBPL15 Electric Pallet Trucks

PBPL12

2018-10001-19999

2019-10001-19999

2020-10001-19999

2021-10001-19999

PBPL15

2018-10001-19999

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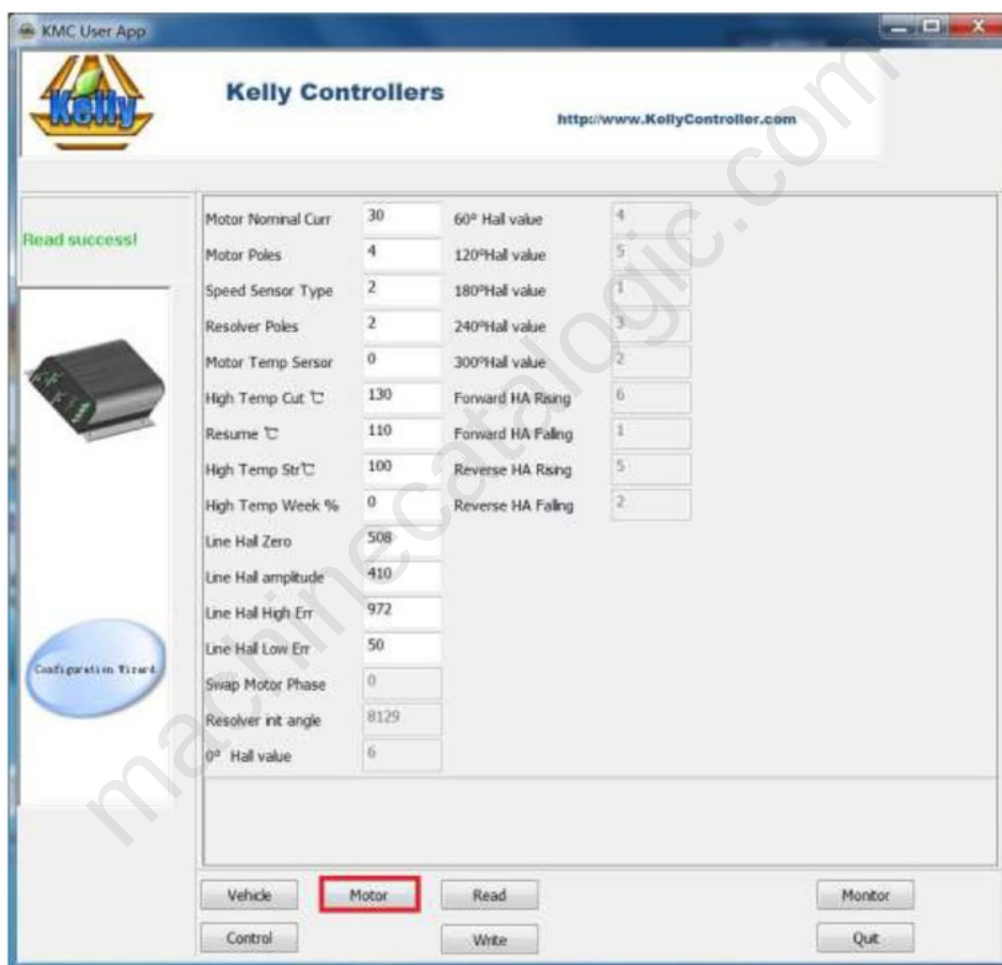
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3.3.1 Controller

3.3.1.4 Diagnostic software and connection cable

Motor



NOTE! It is prohibited to do any software adjustments with a running motor! Be aware that all parameters are free to adjust, but you need knowledge to adjust them. You could harm the motor and cause unsafe driving or lifting behavior! It's strongly recommended not to do any adjustments of the motor settings. They are pre-adjusted by the manufacturer!

3.3.1 Controller

3.3.1.3 Controller LED fault code list

Fault position	Red flashing light	Fault name	Analysis
ERR0		Identifying fault	The controller identifying angle fails; please identify again.
ERR1		Over voltage	1. The battery voltage is higher than max. working voltage of the controller; please check the battery voltage.
ERR2		Low voltage	1. Check the battery voltage. 2. Lower than the min. working voltage of the controller. 3. Charge the battery when necessary.
ERR3		Retain	
ERR4		Locked-rotor	No rotate speed feedback after the controller outputs for 2 seconds; probably due to problems with angle sensor or phase line.
ERR5		Fault voltage	1. Check whether the battery voltage and the control voltage is correct or not; maybe the control voltage is too low. 2. Check the load of 5V voltage. Maybe the 5V voltage is overloaded. Incorrect connecting wire of the outer machines may make the load voltage too high. 3. Controller is damaged; please contact us.
ERR6		Over temperature fault	1. The temperature of the controller exceeds 100°C, and to protect the controller it stops output. 2. The controller needs to be closed till the temperature lowers. When the temperature of the controller is below 80°C, it will start working again.
ERR7		Pedal fault during start up	1. When open the controller and the pedal has valid area signal, this fault occurs (the default is valid between the range of 20%-80%. For example, 0-5V pedal is actually 1V equals to 1%, 4V equals to 100%). Through the configuration procedure, reset the valid range for pedal, or set the pedal safety switch. 2. If start up by treading on the pedal, the fault will disappear by re-start up, or releasing the pedal. 3. If it is "Hall" pedal, please mark the correct pedal type by the customer marking software.
ERR8		Retain	
ERR9		A restoration inside the controller	1. Controller restoration after over-current, battery voltage too high or too low. Occasional occurrences are not a cause for concern.
ERR10		Short circuit or open circuit of 1-4V Hall accelerator pedal when the controller starts up	1. Check the accelerator pedal is short/open circuited or not. 2. After the fault is removed, start the controller again and the fault warning will disappear.
ERR11		HALL sensor fault	1. Angle sensor type error. The customer needs to set the correct type by the marking software. 2. Fault connecting wire of the angle sensor. 3. Angle sensor damaged or occur occasionally.
ERR14		Over temperature of the motor	1. The motor temperature sensor exceeds the highest temperature, the output will stop till the motor temperature lowers to the recovery temperature, and then start again. 2. Change the over-temperature of the motor by the marking software.
ERR15		Current sensor fault	1. The current sensor inside the controller is damaged.

3.3.2 Lithium battery

3.3.2.3 Lithium Battery Precautions



Please protect the battery from ingress of water or of any corrosive liquid.



Keep the battery away from open flames and heat as well as flammable and explosive objects.



Failure to do the above may cause the battery to leak, heat up excessively or smoke and increases the risk of fire or explosion.

3.3.6 Charger

3.3.6.1 Charging Battery



Wrong connection. The green LED is off. The charger is out of service for approximately 15 minutes.



The LED is off. Disconnect the charger and let it rest for approximately 15 minutes.

Full Version Available

Mitsubishi PBPL12 Pallet Truck Parts and Service Manual

Mitsubishi PBPL12 Pallet Truck service manual, covers drive unit, hydraulics, controls, and wiring in searchable PDF form. Instant PDF download.

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