



# IRONHORSE

## PARTS INCLUDED IN THESE INSTRUCTIONS

## FASTENER INFORMATION

### IRONHORSE® MOTOR REPLACEMENT PARTS INSTALLATION

- Please read this instruction sheet thoroughly before installing these motor parts.
- The contents of this instruction sheet may be changed without prior notice. Please check the AutomationDirect website for the latest version: [www.automationdirect.com](http://www.automationdirect.com)

#### INSTALLATION INSTRUCTIONS



Repairs to be performed by a qualified industrial electrical technician.

Disconnect all power to the motor and lock out the power source before performing any repairs.

#### MOTOR FAN SHROUD REPLACEMENT

- 1) Disconnect power and lock out the power source.
- 2) Remove the existing fan shroud by removing the three (3) or four (4) shroud bolts.
- 3) Align the new fan shroud so that the hole and rubber plug provide access to the motor zerk fitting (if applicable, depending upon motor size).
- 4) Install the new fan shroud.
- 5) Manually turn the motor shaft to check for fan clearance (if possible, depending upon motor size).

#### MOTOR FAN REPLACEMENT

- 1) Disconnect power and lock out the power source.
- 2) Remove the existing fan shroud as described above.
- 3) Use snap-ring pliers to remove the existing fan snap ring from the motor shaft.
- 4) Use a gear puller to pull the fan off of the motor shaft. Put the grips of the puller into the slots near the center of the fan. DO NOT PRY THE FAN OFF WITH OTHER HAND TOOLS.
- 5) Install the new fan and snap ring.
- 6) Re-install the fan shroud as described above.

#### JUNCTION BOX REPLACEMENT

- 1) Disconnect power and lock out the power source.
- 2) Remove the existing junction box cover and gasket.
- 3) Disconnect the motor wiring.
- 4) Remove the existing junction box base and gasket.
- 5) Install the new junction box base and gasket.
- 6) Reconnect the motor wiring.
- 7) Install the new junction box cover and gasket.

IronHorse MTCP2 Premium Efficiency Motor Replacement Parts				
Part	Part #	Motor Frame	Motor Type	Includes
Fan	MTAP2-FAN-140	143, 145	MTCP2 Premium Efficiency T-frame and TC-frame	fan, snap ring 
	MTAP2-FAN-180	182, 184		
	MTAP2-FAN-210	213, 215 (4 & 6 pole) (1200 & 1800 rpm)		
	MTAP2-FAN-210-2	213, 215 (2-pole) (3600 rpm)		
	MTAP2-FAN-250	254, 256 (4 & 6 pole) (1200 & 1800 rpm)		
	MTAP2-FAN-250-2	254, 256 (2-pole) (3600 rpm)		
	MTAP2-FAN-280	284, 286		
	MTAP2-FAN-320	324, 326		
	MTAP2-FAN-360	364, 365		
	MTAP2-FAN-400	405		
	MTAP2-FAN-440	444, 445, 447		
MTAP2-FAN-449	449 (250hp)			
MTAP2-FAN-449-1	449 (300hp)			
Fan Shroud	MTAP2-SHROUD-140	143, 145	MTCP2 Premium Efficiency T-frame and TC-frame	shroud, bolts & washers, rubber plug* *rubber plug not required for all models 
	MTAP2-SHROUD-180	182, 184		
	MTAP2-SHROUD-210	213, 215		
	MTAP2-SHROUD-250	254, 256		
	MTAP2-SHROUD-280	284, 286		
	MTAP2-SHROUD-320	324, 326		
	MTAP2-SHROUD-360	364, 365		
	MTAP2-SHROUD-400	405		
	MTAP2-SHROUD-440	444, 445, 447		
MTAP2-SHROUD-449	449			
Junction Box	MTAP2-JBOX-140	143, 145	MTCP2 Premium Efficiency T-frame and TC-frame	gasketed base & cover assembly, base gasket, base bolts 
	MTAP2-JBOX-180	182, 184		
	MTAP2-JBOX-210	213, 215		
	MTAP2-JBOX-250	254, 256		
	MTAP2-JBOX-280	284, 286		
	MTAP2-JBOX-320	324, 326		
	MTAP2-JBOX-360	364, 365		
	MTAP2-JBOX-400	405		
	MTAP2-JBOX-440	444, 445, 447		
MTAP2-JBOX-449	449			

Fastener Information			
Part	Fan Shroud MTAP-SHROUD-xxx	Junction Box MTAP-JBOX-xxx	
		Cover	Base
MTAP2-xxxx-140	(3) M5 x 0.8 x 8 mm	(4) M5 x 0.8 x 14 mm	(4) M5 x 0.8 x 16 mm
MTAP2-xxxx-180	(3) M5 x 0.8 x 8 mm	(4) M5 x 0.8 x 16 mm	(4) M5 x 0.8 x 16 mm
MTAP2-xxxx-210(-2)	(3) M5 x 0.8 x 10 mm	(4) M5 x 0.8 x 16 mm	(4) M5 x 0.8 x 16 mm
MTAP2-xxxx-250(-2)	(3) M6 x 1 x 8 mm	(4) M6 x 1 x 20 mm	(4) M6 x 1 x 25 mm
MTAP2-xxxx-280	(4) M6 x 1 x 10 mm	(4) M6 x 1 x 20 mm	(4) M6 x 1 x 25 mm
MTAP2-xxxx-320	(4) M6 x 1 x 10 mm	(4) M8 x 1.25 x 18 mm	(4) M8 x 1.25 x 30 mm
MTAP2-xxxx-360	(4) M8 x 1.25 x 12 mm	(4) M8 x 1.25 x 18 mm	(4) M8 x 1.25 x 30 mm
MTAP2-xxxx-400	(4) M8 x 1.25 x 12 mm	(4) M8 x 1.25 x 22 mm	(4) M8 x 1.25 x 25 mm
MTAP2-xxxx-440	(4) M8 x 1.25 x 12 mm	(4) M8 x 1.25 x 22 mm	(4) M8 x 1.25 x 25 mm
MTAP2-xxxx-449(-1)	(4) M8 x 1.25 x 12 mm	(4) M8 x 1.25 x 22 mm	(4) M8 x 1.25 x 25 mm





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