



CLAY TARGET MACHINES

306XP MIDI CONVERSION INSTRUCTIONS

MEC P/N – 12000525

CAUTION: ANY MEC CLAY TARGET MACHINE MUST BE IN THE DISARMED STATE WITH THE BATTERY DISCONNECTED PRIOR TO MAKING ANY ADJUSTMENTS.

NO.	Description	QTY.	P/N
1	300 MIDI CAROUSEL	1	120000121
2	XP MIDI SOFT FALL PLATE	1	120000490
3	6 STACK MIDI INNER KNIFE EDGE	1	120100098
4	¼" SOCKET CAP COVER	3	120500108
5	CAP SCREW	1	HDW2025
6	FLAT WASHER	5	HDW2100
7	HEX FLANGE NUT	1	HDW9113

Step 1: With machine disarmed, remove the carousel by using a ¾" wrench. Next, remove the washer and the grey carousel spacer.





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Step 2: Remove both nylon nuts from the top plate by using a ½” wrench. Also, remove black Rubber cover and the ¾” nylon nut and washers above the throwing arm.



Step 3: Take top plate off the machine.





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Step 4: Remove inner knife edge by taking off the three nuts using a 7/16" wrench. Install the midi inner knife edge pushing toward the carousel shaft and retighten the three nuts. Knife edge will be set for clay in later step.



Step 5: (optional) Using a 1/2" wrench remove the throwing plates 4 nuts. This will allow you to change the soft fall plate easier than leaving it on the machine. However, you will need to re-set the plate to the throwing arm after removing.

Step 6: Using a 7/16" wrench and a Phillips screwdriver, loosen the nuts on the back rail until adjustments can be made. For midi targets, make sure back rail is pushed towards front rail as the bolt is in a slotted hole





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Step 8: Remove the old soft fall plate and replace with the new plate.

There are washers under the plate so they need to be re-installed under the new plate. Also, there is a “stack” of washer to be placed above the soft fall plate in the location shown. Add the covers for the bolt heads.



Step 9: (If you removed the throwing plate) Re-mount the throwing plate with 4-1/2” nuts. <https://www.youtube.com/watch?v=qPnQpIMGT7E>

Step 10: Secure the top plate to the frame using the two 5/16” nylon nuts, and the 3/4” nylon nut. Place midi carousel onto the machine. Do not put hardware on carousel shaft at this time.





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Step 10: Using a 7/16" wrench and a midi clay, reset the inner and outer knife edges to appropriate width and height. The height should be set so there is about a gap the size of a business card in between the ridge of the clay and the knife edge.

<https://www.youtube.com/watch?v=cBz4NKNj9I4>



Step 11: Reattach carousel in this order. Place carousel on shaft, put on grey spacer, put on silver washer, and then tighten on 3/4" nut. Set carousel tension so you cannot free spin carousel but be sure to not completely tighten carousel to where it locks in place.





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This completes your midi conversion.



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