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Preventative Maintenance for the Astro SS10 Video Series - Transcript

#1 Safety

So then we're going to be working on an Astro SS -10 for this particular machine you can find specifications in the back. You'll find the serial number 091020MA. The plate also specifies the voltage. This machine is 120 volts 15 amp. Before we work on any hot-melt equipment, it's important to understand safety requirements. Some of the PPE equipment that we'll need will be heat-resistant gloves, safety glasses, hard-toed shoes. And for this machine, depending on the depth that we go into, we may also need a blackout tag out.

#2 Cord Inspection

The next step in our inspection will be to visually inspect the electrical cord. For this machine we have a 120 volt supply. We need to make sure that all the prongs are correct, not damaged, nothing's loose. Something common that you'll find will be that the ground will be missing. If the ground is missing you need to replace the plug.

#3 Manifold Fittings Inspection

Next we're going to be inspecting the manifold fittings. What we're looking for are signs of leakage. This one seems to have a small leak. It doesn't seem to be anything to be concerned about. We're looking for large leaks and any visual damage, maybe cross treading.

#4 Applicator Head Inspection

Next we're going to be looking at the applicator. We're going to do a visual inspection. Make sure there's no leakage. I'm going to look at the nozzle, see if it's damaged. You can see some light damage on this one. It looks like it's still good. We're also going to be looking at the electrical connections. No visible damage. Everything seems to be in order.

#5 Inspect Hoses

Next we're going to be looking at the hose. First step is to make sure that it's up to temperature. It's 325. 326, so we're up to temperature, we're good. We're looking for visible damage on the hose, any cuts, it's wiring. This one's in really good condition.
We're also looking for char. The way to look for char is to dispense and move your hose around. When you move the hose around, it breaks char inside and you'll see it come out. This one seems to be in good condition. When you're inspecting the hose and moving it around for char, make sure that the radius doesn't exceed manufacturer recommendations.

#6 Housing Gasket

Now we're going to inspect the ASU housing gasket. We're looking for any breaks, any signs of damage. This one seems to be good. It's not hard. The purpose of this gasket is to keep the glue inside the tank, prevents over spills from going down towards the electrical components.

#7 Inspect the Pump Seal

Next we're going to be inspecting the pump to tank gasket and the pump already. You'll be able to find an exploded diagram in the SS-10 manual. We'll specify the part number for each item. We're looking for signs of leakage. Seems to be no leakage, the pump gasket, and the O-ring are fine.

#8 Electrical Board

Now we're going to inspect the electrical board. Before we open up the machine, we need to make sure there's no power and we're going to lock and tag out. I'm going to keep this key with me at all times. We're going to use a 5/16 Allen wrench. We're looking for any damaged cables, lose connections. The common thing to look for on this machine is to make sure the ribbon cables are in place. Nothing is loose. No burn marks. It's not dusty.

#9 Internal Gun Inspection

As we are waiting for the unit to heat up, we're going to disconnect the hose. First, we need to make sure that it's disabled. You don't want to disconnect any electrical components while they're enabled. Our hose and our gun are now disconnected. There's going to be three screws on each side. Now we're going to do a visual inspection of our components. Make sure there's no leaks. This is going to be a seal up here and notice that there's no leak in this one. I think it's good. This is your RTD and this is the heater. We've got to make sure these connections are tight before we put it back together. They tend to come loose from moving this around. When you put this back together, it's important to align it properly. You'll find a notch on each side and it'll fit into these, right here. And everything needs to go back together smoothly. If you find any resistance, remove the covers, make sure you're not pinching any of your cables. And we're going to start all the screws before we tighten them. Try not to force it around so you can get to the other side instead. You can change your positioning. Now that all our screws are started, we can tighten them.

#10 Safety Data Sheets

Another important aspect of working with hot melt machines is making sure you have the appropriate SES sheet for the glue that you're working with. For this machine we need the HME 2167 SES sheet. You need to make sure you understand the personal protective equipment requirements and the first aid measures, along with any other requirements for your specific application.

#11 Hopper Screen

Now we're going to inspect the hopper screen, some people call it a rock catcher. The primary purpose of the hopper screen is to keep large items from falling inside the pump and causing major damage. What we're looking for is char, we don't see any char. This one seems to be pretty good so all we're going to do is clean all the glue and remove the char that's on the outer edge of the tank.

#12 Inspecting the Motor

Now we're going to remove the motor. In order to have better access into the motor shaft, we're going to inspect the motor shaft and clean whatever glue has been creeping up into the motor. Then make sure our electrical is locked and tagged out. And remove these two screws. And you have two more screws on this side. With this cover removed we can inspect for signs of leakage. There's no leakage. This is the over temperature thermostat, looks in good condition. When you're assembling this motor, make sure that you don't put too much tension on the wires and looking at the shaft, the retaining ring. This looks to be in good condition, there's no visible damage. We're going to clean all this glue, make sure it doesn't go into the motor. There's a set screw on this side. We're going to make sure it's tight. We're going to remove all this glue and clean any char that's inside the tank. As you can see there's some char in here. We're on the pump edge. I'm going to clear that char before it builds up. I'm going to scrub lightly. You don’t want to remove any of the Teflon coating. Make sure when you're doing this you have proper ventilation. When you're putting the motor back, you need to make sure it aligns with the pump.

#13 Spare Parts

These are some of the spare parts that we have on hand for the SS-10. We have an over-temperature thermostat. We have an RTD. We have another RTD for the gun. Gun heater. This is a retaining ring for the pump shaft and a flow control valve.