



QUASAR DIAMANT

OPERATORS FIELD GUIDE

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PRESEASON CHECKLIST

CHECK

- These items should be inspected prior to each harvest season.
- All oils - top off or change as needed.
- All knives - adjust, flip or change as needed.
- General condition of machine - Replace any parts in question with OEM Capello parts only.

ADJUST

- Properly adjust these items to maximize performance during harvest.
- Stripper plates - Stripper plates should have a 1/8" clearance between the blade and plate.
- Gathering Chain - Gathering chains should be adjusted to have 3/4" play when pulled towards the center of the row unit.
- Drive Chains - Drive chains should be checked for proper tension. Proper tension calls for 3/4" sideplay on all drive chains.

LUBRICATE

- Proper lubrication will decrease downtime and efficiency.
- Stalk Roller - 50 hours
- Folding Hinges - 1000 hours
- Fender Augers - 100 hours
- PTO Shafts - 20 hours
- Slip Clutches - 100 hours

NORMAL OPERATION

CHECK

- Auger timing (flighting should be at six and midnight) at the center of the head by the hanger bearing.
- Angle of the head.
- Head sight calibration.
 - Calibrate on flat ground.
 - Recalibrate if angle of head is changed.
- Header speed - Should run between 540-570 rpm measured off the hex shaft.

ADJUST

- Properly adjust these items to maximize performance during harvest.
- Deck plates - Adjust using an average stalk as reference. The spacing should be the same from front to back.
- Ground speed - Ground speed will vary pending conditions. Adjust properly (3-5 mph).

LUBRICATE

- Proper lubrication will decrease downtime and maximize efficiency.
- Stalk Roller - 50 hours
- Folding Hinges - 1000 hours
- Fender Augers - 100 hours
- PTO Shafts - 20 hours
- Slip Clutches - 100 hours
- Use regular corn head grease for all grease points and side covers.

OIL MATRIX

QUASAR

DESCRIPTION	PART NUMBER	OIL QUANTITY	TYPE OF OIL
Row Unit Gearbox	03484600/03484700	3 liters	75W/90 full synthetic
Chopping Unit	03484600	1 liter	75W/90 full synthetic
Auger Drive Gearbox	03467000	2.5 liters	75W/90 full synthetic
Lateral Gearbox	03433500/03463500	1.7-1.8 liters	85W/140 conventional
Intermediate Gearbox	03463400/03463500	10 liters	75W/90 full synthetic
Lexion-Intermediate	03467000/m1-30480	2.5 liters	75W/90 full synthetic

DIAMANT

DESCRIPTION	PART NUMBER	OIL QUANTITY	TYPE OF OIL
Row Unit Gearbox	M1-80179	4.6 Liters	75W/90 full synthetic
Chopping Unit	M1-80180	.5 liters	75W/90 full synthetic
Auger Drive Gearbox	03467000	2.5 liters	75W/90 full synthetic
Intermediate Drive	M3-30041/M3-30025	4 Liters	Duratran Synthetic THF
Intermediate Drive	PMG-000117/PMG-000118	2.3 Liters	Duratran Synthetic THF
Intermediate Drive	PMG-000113	2.3 Liters	Duratran Synthetic THF

INITIAL SETTINGS

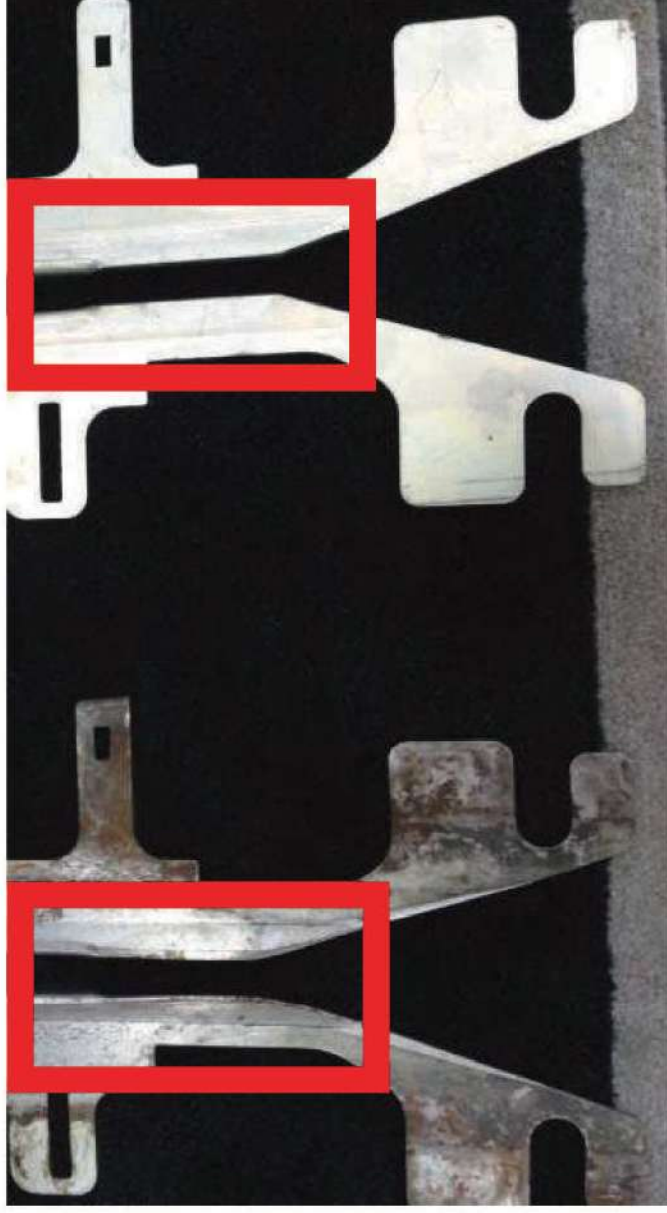
- **Header Angle:**
 - All Capello corn heads should be run at approximately 17 - 21 degrees. Finding the correct angle for your operation will increase efficiency in chopping and processing your crop.
- **Header Speed:**
 - Speed will vary depending on crop conditions. Suggested speed is going to be between 540 - 570 RPMS.
- **Snout Adjustments:**
 - Snout adjustments should be made at the beginning of each harvest season and periodically throughout the season. All snouts should be level with the adjacent snouts. Adjustment can and should be made when harvesting down corn to avoid damage.
- **Deck Plate Settings:**
 - The hydraulic deck plates will need to be adjusted according to the crop conditions. Quasar models have one manual and one hydraulic deck plate. Diamants have dual hydraulic deck plates. For best results, use an average stalk as a reference and adjust as needed from there. If adjusting the Quasar stationary, the spacing should be the same from front to back.
- **Gathering Chains:**
 - The gathering chains should be staggered. DO NOT operate the machine with the chain fingers tip to tip. Doing so will result in feeding issues. Gathering chains should be properly tensioned (3/4 inch side play).
- **Head Sight Calibration:**
 - You should calibrate your head sight each time you change the angle of the head for best results. Calibrate the head sight by following the directions found in your head sight manual. It is important that you calibrate head

DECK PLATES

10,000 ACRES



NEW



The Deck plate will start to show signs of wear in the boxed in areas shown above. When the cold roll edges begin to thin, it is time to change out your deck plates.

STALK CHOPPER KNIVES

2000 ACRES



Chopper knives should be flipped about every 1000 acres (conditions pending). Each blade is reversible and should be flipped when the blade becomes dull as seen in the photo above. Failure to do so will result in increase power consumption and poor chopping quality.

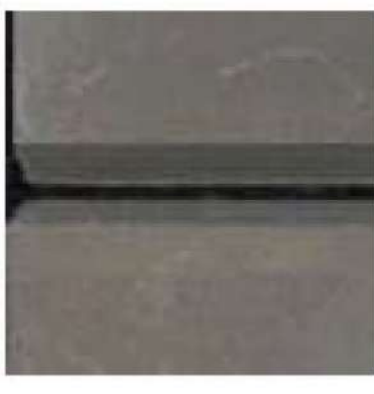
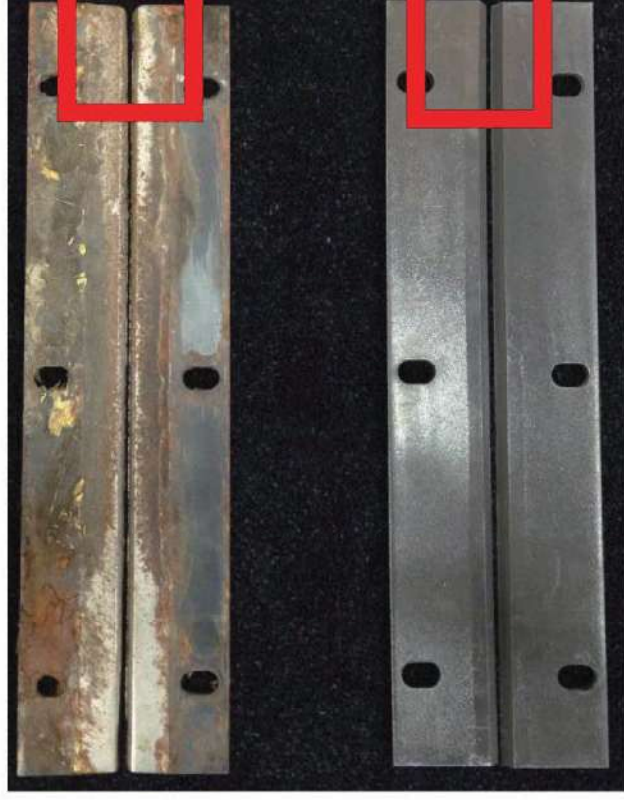
NEW BLADE



STALK ROLLER KNIVES

Stalk roller knives will begin to wear first on the front 1-2-inch space seen below. When these areas start to wear, it is time to flip the knives. All Stalk roller knives are reversible and should be flipped left to right. When complete the bevel of the knife should be facing the ground with a spacing of 1/8 inch or less. The stalk roller knives should be tip to tip without making contact. Make sure to use medium Loctite on all stalk roller bolts.

2000 ACRES



NEW KNIVES

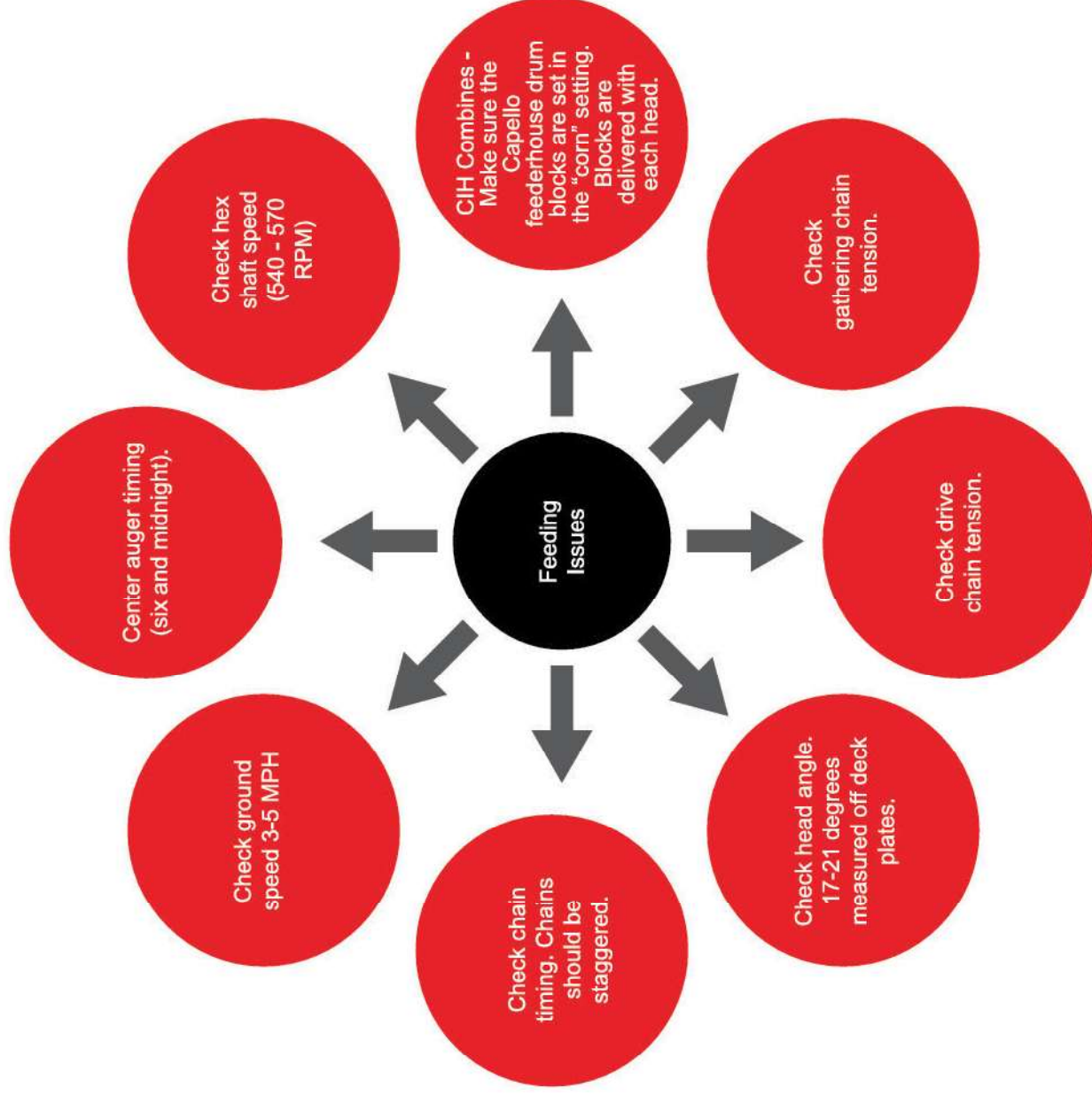
GATHERING CHAINS



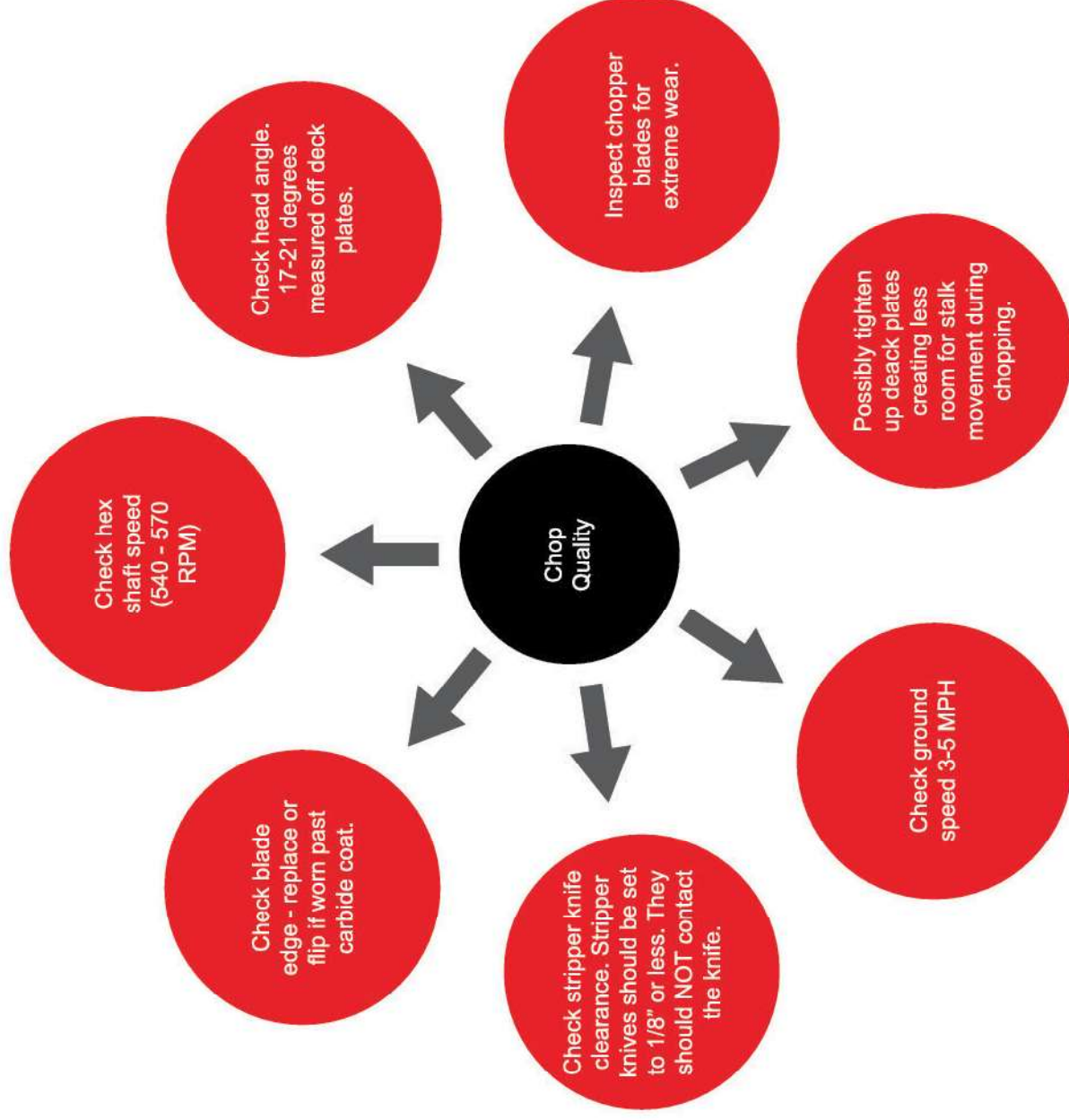
Gathering chains should be changed out when the tension spring is completely compressed and no longer has any adjustment left. To check chains, you can hold the chain directly in front of you and look for the ARC as seen in the photo above. Generally, Capello chains should last for 5,000 - 10,000 acres depending on crop and ground conditions.



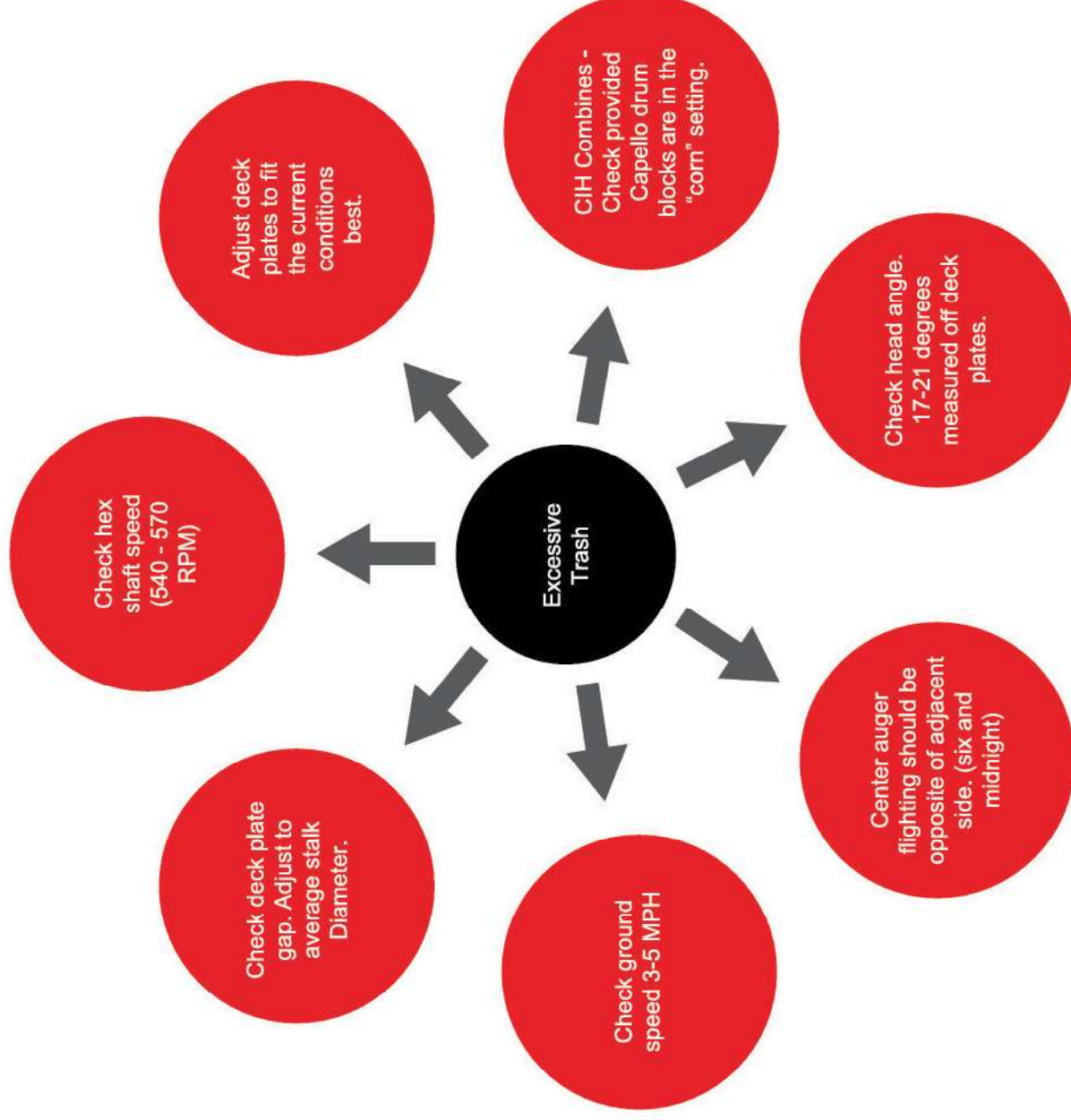
TROUBLE SHOOTING



TROUBLE SHOOTING



TROUBLE SHOOTING



IMPORTANT REMINDER

- **Predelivery Inspection:**
 - Each new machine will arrive with a PDI (predelivery inspection) form. This must be completed and returned to Capello USA before the warranty period can begin.
- **Warranty Registration:**
 - Warranty registration needs to be turned in and dated in accordance with the delivery date of the machine. As soon as the end user takes possession of the machine, the warranty period will begin. Failure to turn in the warranty registration will leave the machine “unprotected” until registration is complete. If the machine is used and a failure occurs prior to the warranty registration submission, those failures will not be covered under warranty.
- Dealer demo heads warranty period will begin once the machine is retailed to an end user. If a failure occurs on the demo unit before it is sold, Capello USA will work with the dealer to assess the situation and process the warranty.

NOTES



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