

PF52 Conveyors

Installation, Operation, & Maintenance Manual /
Priručnik za instalaciju, upute za rad i održavanje



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QC Conveyors

4057 Clough Woods Dr.
Batavia, OH 45103 USA

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+1 (513) 753-6000

mcdonalds.qcconveyors.com

Warnings / Upozorenja



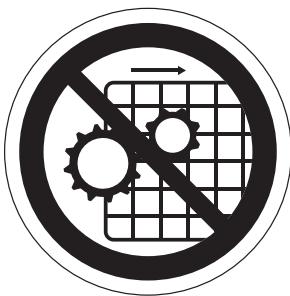
EN When used improperly, the conveyor rollers can pinch or maim.

CR Kada se nepravilno koriste, valjci transportne trake mogu da prikliješte ili osakate



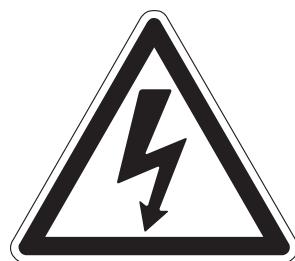
Lock out power before servicing the conveyor.

Isključite i zaključajte napajanje prije servisiranja transportne trake



Do not use with the clear plastic guards removed.

Nemojte koristiti sa uklonjenim štitnicima



Risk of Electrocution and Fire.

Rizik od strujnog udara i požara

DANGER
PASNOST

WARNING
UPOZORENJE

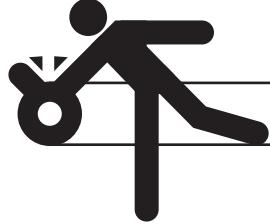
WARNING
UPOZORENJE

WARNING
UPOZORENJE



EN Climbing, sitting, walking, or riding on the conveyor at any time could result in severe injury or death.
KEEP OFF.

CR Penjanje, sjedenje, hodanje ili vožnja na transportnoj traci u bilo kojem trenutku prouzročit će teške ozljede ili smrt



Exposed, moving parts can cause severe injury. DISCONNECT POWER before removing the clear plastic guards.

Izloženi pokretni dijelovi mogu uzrokovati teške ozljede; ISKLJUČITE NAPAJANJE prije uklanjanja štitnika



The equipment may start without warning and can cause severe injury. KEEP AWAY.

Oprema se može pokrenuti bez upozorenja - može uzrokovati teške ozljede. DRŽATI SE DALJE

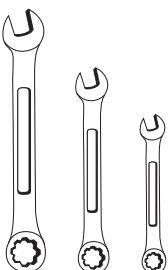


Servicing equipment that is moving or energized can cause severe injury. LOCK OUT POWER prior to performing maintenance.

Servisiranje pokretnе opreme ili opreme pod naponom može uzrokovati teške ozljede ISKLJUČITE I ZAKLJUČAJTE NAPAJANJE

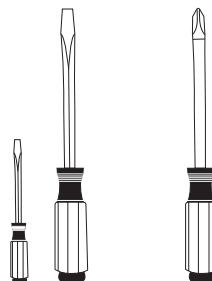
Tools and Supplies / Alati i pribor

► Tools and Supplies / Alati i pribor



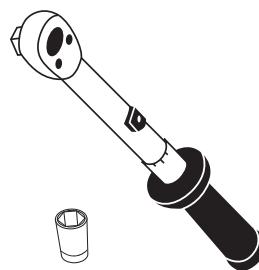
EN Wrench set:
13 mm, 10 mm, and 5.5 mm

CR Set ključeva (13mm, 10mm i 5.5mm)



Screwdrivers:
(1) small flat head, (1) large flat head, (1) large phillips head

Veliki i mali odvijači s ravnom glavom
i veliki križasti odvijači



Torque wrench with an 8 mm
socket (Range 2-8 Nm)

Gedora s nastavkom od 8 mm
(raspon 2-8 Nm)



5 mm metric allen wrench

5 mm metrički imbus



EN Cleaning supplies:
cleaner and towels

CR Sredstva za čišćenje (sredstvo za
čišćenje, ručnici)



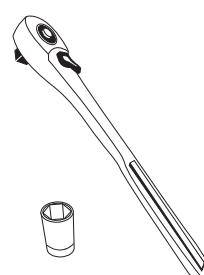
Anti-Seize

Sredstvo protiv prijanjanja



Removable threadlocker

Otklonjivo ljeplilo za osiguranje vijaka



Ratchet with an 8 mm socket

Račna i nasadni ključ od 8 mm

Controller Installation /

Ugradnja upravljača

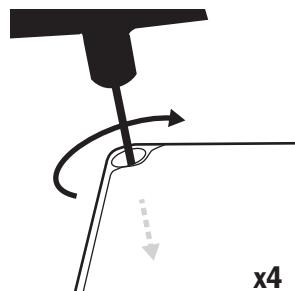
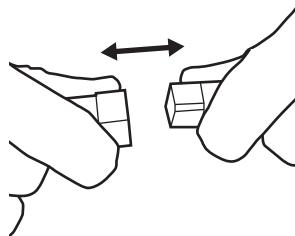
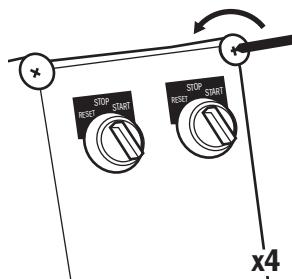
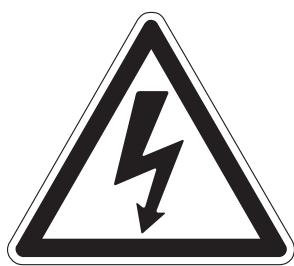
Lock-out power. Emergency stops are not included with control panels or conveyors. Emergency stops are required and must be installed as part of the tables. The circuitry for the emergency stop is integrated into the conveyor's control panel and requires a modular male connector. In addition, the installer must provide a lockable means of power isolation.

Blokade napajanja u slučaju nužde nisu uključene sa pločama ili prijenosnim trakama. E-blokade su obavezne i moraju se ugraditi kao dio stolova. Strujno kolo za E-blokadu integrirano je u kućište upravljača prijenosne trake i zahtijeva modularni muški konektor. Dodatno, instalater mora osigurati sredstvo za izolaciju struje koje može blokirati.

WARNING: Due to the risk of electric shock, maintenance on the control panel should be performed ONLY by service technician's or licensed electrician's.

UPOZORENJE: Zbog opasnosti od strujnog udara, održavanje unutarnje upravljačke ploče treba obavljati SAMO serviser ili licencirani električar.

► Control Panel Install / Ugradnja upravljačke ploče



- EN **1** Ensure the use of a 230V AC, single phase power source.

WARNING

Risk of Electric Shock and Fire.

- CR Osigurajte korištenje 230V AC, 1-fazni izvor napajanja

UPOZORENJE

Rizik od strujnog udara i požara

- 2** Remove the clear cover from control panel.

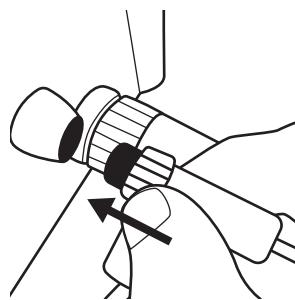
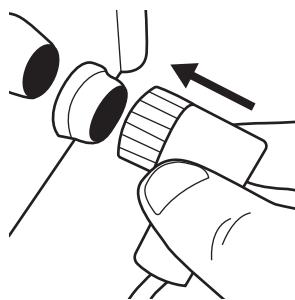
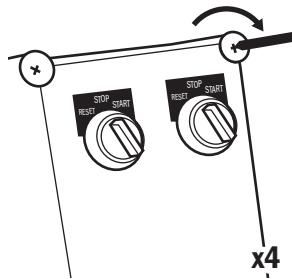
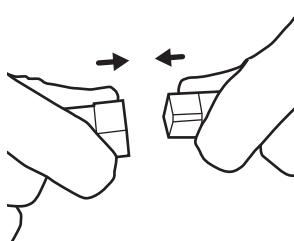
Skinite prozirnu navlaku sa upravljačke ploče

Odvojite konektor prozirnog poklopca i ostavite poklopac na stranu

- 3** Disconnect the clear cover connector and set the cover aside.

- 4** Attach the panel to the table using the 5 mm hex key and the screws located in the panel cover mounting holes.

Pričvrstite ploču na stol pomoću šesterokutnog ključa od 5 mm i vijaka u montažnim otvorima poklopca ploče



- EN **5** Reconnect the clear cover connector.

- CR Ponovno spojite konektor prozirnog poklopca

- 6** Reattach the clear cover to the control panel.

Pričvrstite prozirni poklopac na kontrolnu ploču

- 7** Connect the power cable to the control.

Spojite kabel za napajanje na upravljača

- 8** Connect the emergency stop cable to the control.

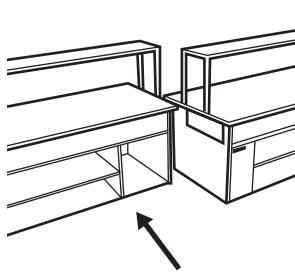
Spojite E-stop kabel na upravljač

Conveyor Installation / Ugradnja pokrete trake

⚠ Lock-out power. Emergency stops are required and must be installed as part of the tables. The circuitry for the emergency stop is integrated into the conveyor's control panel. In addition, the installer must provide a lockable means of power isolation.

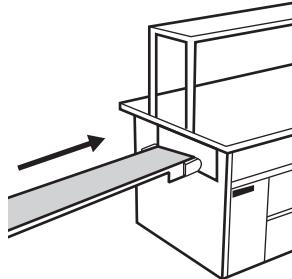
Isključujuće napajanje. E-blokatori su obavezni i moraju se ugraditi kao dijelovi stolova. Sklop za E-stop integriran je u kućište upravljača transportne trake. Dodatno, instalater mora osigurati sredstvo za izolaciju struje koje se može zaključati.

► Install Conveyors In Tables / Ugradnja transportnih traka u stolovima



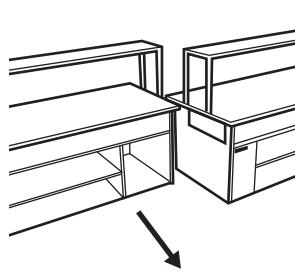
- EN **1** Separate the tables so the service cavity within the ECU table is accessible.

- CR Odvojene stolice tako da je servisna šupljina u ECU stolu dostupna



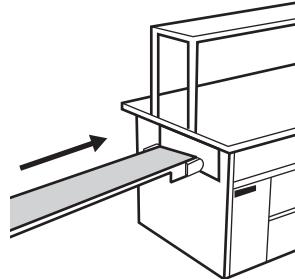
- 2** Slide the ECU conveyor, tail first, into the ECU table.

- Gurnite ECU transporter, počevši sa repom, u ECU stol



- 3** Move the tables back together to allow access to the PREP tables service cavity.

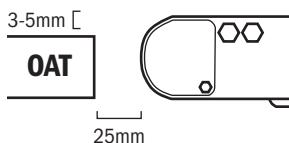
- Pomaknite stolove natrag zajedno kako biste omogućili pristup pripremnoj šupljini



- 4** Slide the PREP conveyor, tail first, into the PREP table.

- Gurnite transportnu traku stola za pripremu, počevši sa repom, u pripremni stol

► Check Conveyor Elevations / Provjerite visine transporterata



- EN **1** Confirm the discharge end of the ECU table conveyor is 3-5 mm above the OAT surface.

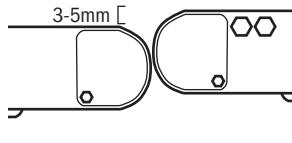
WARNING

- Leave a 25 mm gap between the conveyor and the OAT; a smaller gap creates a pinch hazard.

- CR Potvrdite da je kraj pražnjenja stolne transportne trake ECU 3-5 mm iznad površine OAT-a

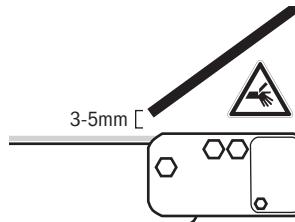
UPOZORENJE

- Ostavite razmak od 25 mm između transportne trake i OAT-a; manji razmak stvara opasnost od uklještenja



- 2** Confirm that the conveyors transition point, at the end of the PREP table, is 3-5 mm above the ECU table. The conveyor bearing housings should be between 0-5 mm apart at transition.

- Potvrdite da su transportne trake na prijelaznom kraju transportne trake za pripremni stol 3-5 mm iznad ECU transporterata; Kućišta ležajeva transporterata trebaju biti međusobno udaljena između 0-5 mm pri prijelazu



- 3** Confirm that the top of the PREP tables' conveyor belt is 3-5 mm below the bottom of the chute.

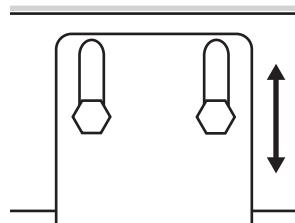
WARNING

- The chute and conveyor create a pinch point; proper guarding must be installed.

- Provjerite je li gornji dio transportne trake PREP stolova 3-5 mm ispod dna žlijeba.

UPOZORENJE

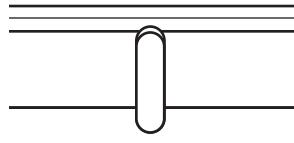
- Žljeb i transporter stvaraju točku stezanja; mora se postaviti odgovarajuća zaštita.



- 4** Make adjustments as needed. The mounting height can be adjusted by loosening the hex head screws with a 10 mm wrench.

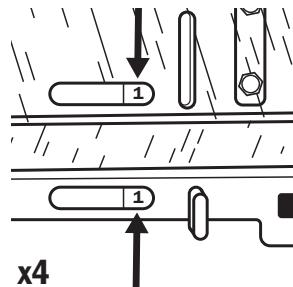
- Po potrebi izvršite prilagodbe. Visina montaže može se podešiti otputštanjem šesterokutnih vijaka ključem od 10 mm.

► Install Guards / Štitnici pri ugradnji



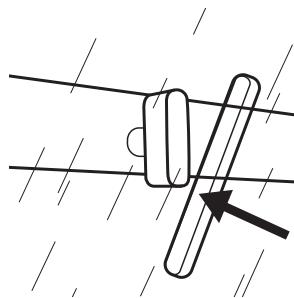
- EN **1** Ensure that all twist nuts are in the vertical position.

- CR Uvjerite se da su sve zavojne matice u okomitoj položaju



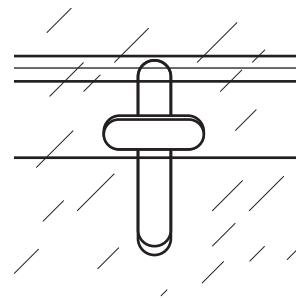
- 2** Match the clear plastic guard numbers with the corresponding numbers on the conveyor (4 clear plastic guards for each conveyor).

Usklajite brojeve štitnika s odgovarajućim brojevima na transportnoj traci (4 štitnika za svaki transporter)



- 3** Install all 4 clear plastic guards over the twist nuts and onto the conveyor.

Ugradite sva 4 štitnika preko zavrtnih matica i na transporter

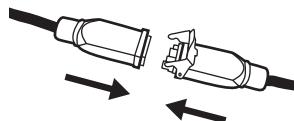


- 4** Twist all of the nuts to the horizontal, locked position.

Zavrnite sve matice u vodoravni, zaključani položaj

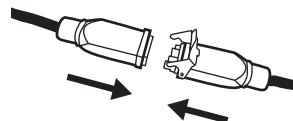
Repeat this procedure for the second conveyor.
Ponovite ovaj postupak za drugu transportnu traku.

► Connecting Conveyors to Controllers / Spajanje transportnih traka na upravljače



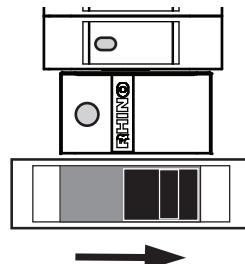
- EN **1** Connect the ECU conveyor to the control panel using the ECU wire connector on the control.

- CR Spojite ECU transportnu traku na upravljačku ploču pomoću konektora žice ECU na upravljaču



- 2** Connect the PREP conveyor to the control panel using the PREP wire connector on the control.

- Spojite PREP transportnu traku na upravljačku ploču pomoću konektora PREP žice na upravljaču



- 3** Remove the plastic cover on control, turn the circuit breaker on, and remove the wire ties from the face plates. Then replace the plastic cover. Turn circuit breaker on, and remove wire ties from face plates. Then replace plastic cover

Skinite plastični poklopac na upravljaču, uključite prekidač i uklonite žičane vezice s prednjih ploča. Zatim zamjenite plastični poklopac



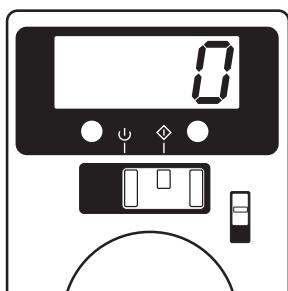
- 4** Turn the control switch on both the PREP and the ECU tables to the <RESET> (//) position and release.

Okrenite upravljački prekidač na PREP i ECU stolnim kontrolerima u položaj za resetiranje i otpustite (//)

Conveyors are now ready for commissioning.
Transportne trake su sada spremne za puštanje u rad.

Commissioning / Puštanje u rad

► Checking Controller / Provjera upravljača



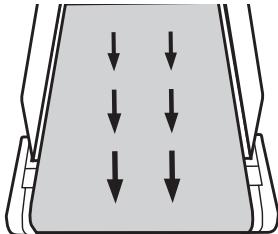
EN **1** Verify the power to the control panel and both controls display "0".

CR Provjerite napajanje ploče i da li obe upravljače očitaju 0



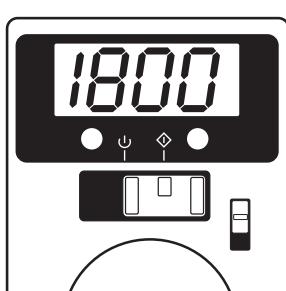
2 Turn the control switch to <START> (\diamond).

Okrenite prekidač upravljača na start



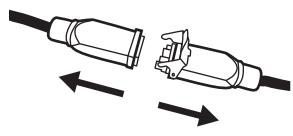
3 Verify the conveyor belt is moving towards the OAT / front of the kitchen.

Provjerite kreće li se traka na transportnoj traci prema OAT / naprijed



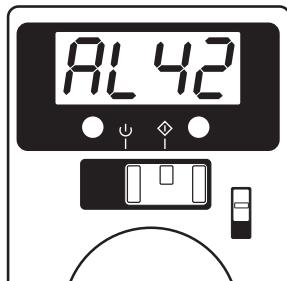
4 The control will read 1800 (factory default) or the speed to which it has been set.

Upravljač će očitati 1800 (tvornički zadano) ili brzinu kuhanje u koju mora biti posla



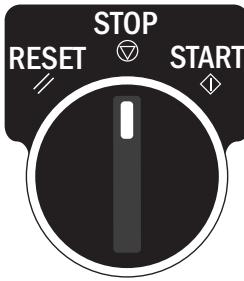
EN **5** Create an error by disconnecting the control cable from the motor.

CR Stvorite pogrešku odspajanjem upravljačkog kabela iz motora



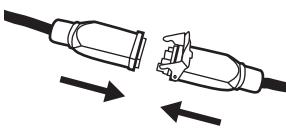
6 Verify the control displays AL42.

Provjerite prikazuje li upravljač AL42



7 Turn the control switch to <STOP> (\ominus).

Okrenite prekidač kontrolera na stop (\ominus)



8 Reconnect the control cable.

Ponovno spojite upravljački kabel

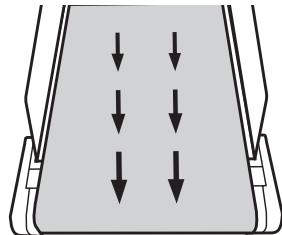
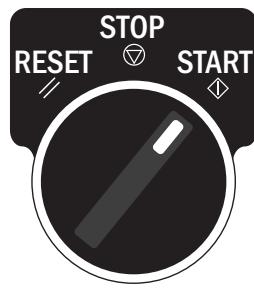
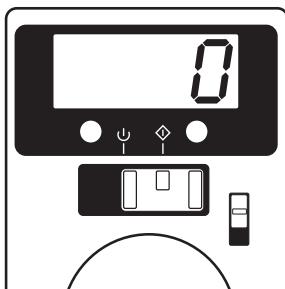
Repeat this procedure for the second conveyor.

Ponovite ovaj postupak za drugu transportnu traku.

If the alarm condition does not clear, refer to the manufacturer's manual for the control.

Ako se alarm ne poništi, pogledajte priručnik proizvođača upravljača

► Checking Controller (continued) / Provjera upravljača (nastavak)



EN **9** Turn the control switch to <RESET> (//) to clear the error.

CR Okrenite kontrolnu sklopku na resetiranje (//) za brisanje pogreške

10 Verify the control displays "0".

Potvrdite da upravljač prikazuje 0

11 Turn the control switch to <START> (◇).

Potvrdite da upravljač prikazuje 0 (◇)

12 Ensure the conveyor belt is running.

Provjerite da li transportna traka radi

If the conveyor does not start, the clear plastic guards may not be making contact with the sensors; or the emergency stop could be activated. Check all of the clear plastic guards for proper placement and verify that all of the twist nuts are in the horizontal, locked position. Also, ensure the emergency stop is deactivated.
Ako se transportna traka ne pokrene, plastični štitnici možda ne dolaze u kontakt sa senzorima ili se mogao E-stop aktivirati. Provjerite jesu li svi štitnici pravilno postavljeni i osigurajte da su sve zavrtene matice u zaključanom (vodoravnom) položaju. Također, provjerite je li E-Stop deaktiviran.

Repeat this procedure for the second conveyor.

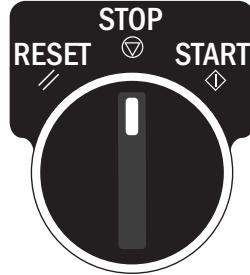
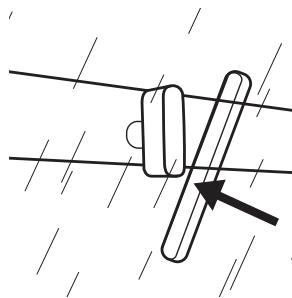
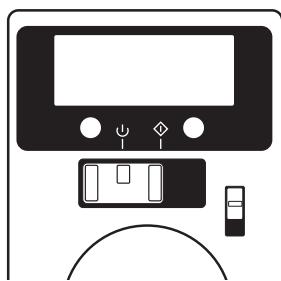
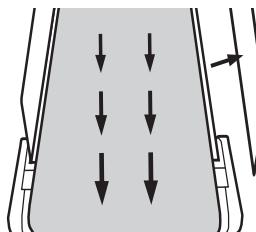
Ponovite ovaj postupak za drugu transportnu traku.

If problems occur, please refer to the “Troubleshooting” section on page 24 of this manual for corrective actions.

Ako se pojave problemi, pogledajte odjeljak Rješavanje problema u ovom priručniku (stranica 24) za korektivne radnje.

► Test Guard Sensors / Provjerite štitne senzore

Each clear plastic guard must be tested individually.
Svaki štitnik mora se pojedinačno ispitati.



- EN** **1** Remove a clear plastic guard while the conveyor is running.

- CR** Dok je pokretna traka u pogonu, uklonite jedan štitnik

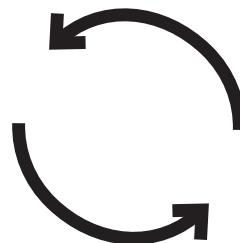
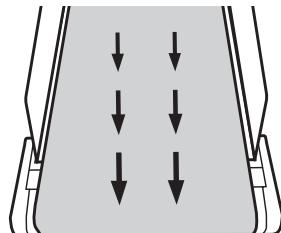
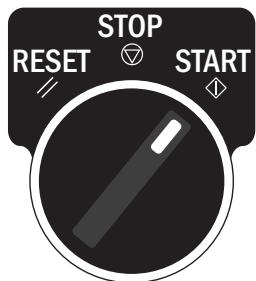
- 2** Ensure the conveyor has stopped and that the power is off to the control panel. If the power remains on or the conveyor continues running, refer to the "Troubleshooting" section of this manual on page 24.

Uvjerite se da se transportna traka zaustavila i da je napajanje isključeno na gornjoj ploči. (Ako je napajanje uključeno ili transportna traka radi, pogledajte odjeljak za rješavanje problema u ovom priručniku)

- 3** Replace the clear plastic guard by sliding it over the twist nuts. Turn the nuts to the horizontal position to lock in place.

- 4** Turn the control switch to <STOP> (▽).

Okrenite upravljač na Stop (▽)



- EN** **5** Turn the control switch to <START> (◇).

- CR** Okrenite kontrolni prekidač na Start (◇)

- 6** Ensure the conveyor is running.

Povjerite radi li transportna traka

- 7** Repeat these steps for each clear plastic guard on the conveyor.

Ponovite korake za svaki štitnik na transportnoj traci

If the conveyor does not start, the clear plastic guards may not be making contact with the sensors; or the emergency stop could be activated. Check all of the clear plastic guards for proper placement and verify that all twist nuts are in the horizontal, locked position. Also, ensure the emergency stop is deactivated. Ako se transportna traka ne pokrene, plastični štitnici možda neće doći u kontakt sa senzorima ili bi se mogao aktivirati E-stop. Provjerite jesu li svi štitnici pravilno postavljeni i osigurajte da su sve zavrtene matice u zaključanom (vodoravnom) položaju. Također, provjerite je li E-Stop deaktiviran.

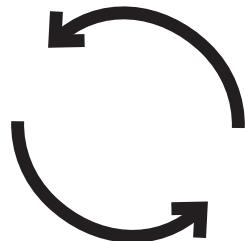
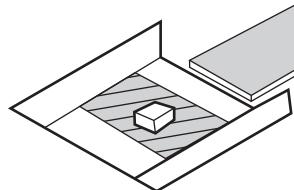
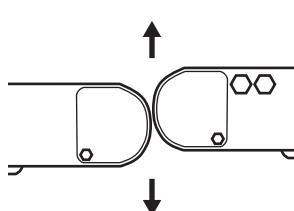
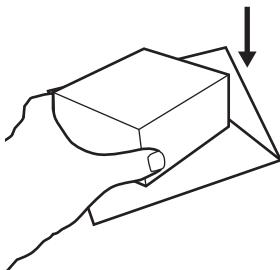
Repeat this procedure for the second conveyor.

Ponovite ovaj postupak za drugu transportnu traku.

If problems occur, please refer to the "Troubleshooting" section on page 24 of this manual for corrective actions.

Ako se pojave problemi, pogledajte odjeljak Rješavanje problema u ovom priručniku (stranica 24) za korektivne radnje.

► Test Transitions & Speed / Testiranje prijelaza i brzine



- EN **1** Start both conveyors and drop a filled sandwich box into the chute of the PREP table.

- CR Pokrenite obje transportne trake i ispuštite napunjenu kutiju za sendvič u žlijeb stola za pripremu

- 2** Adjust the conveyor heights as necessary for optimal transitions.

Podesite visinu transportne trake prema potrebi za optimalne prijelaze

- 3** Adjust the conveyor speed, faster or slower, until the sandwich box lands in the optimal spot on the OAT. (see the "Speed Adjustment" section at the top of page 13)

Podesite brzinu transportne trake brže ili sporije dok kutija za sendvič ne sleti na optimalno mjesto na stolu za sklapanje narudžbe (pogledajte odjeljak Podešavanje brzine)

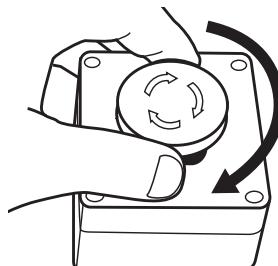
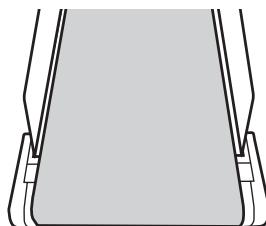
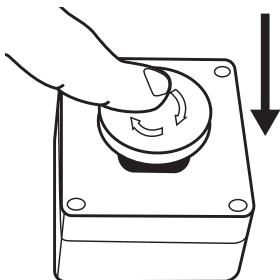
- 4** Test the sandwich box several times; checking the transitions between the chute, conveyors, and the OAT.

Testirajte kutiju za sendvič nekoliko puta, provjeravajući prijelaze između žlijeba, transportne trake i OAT-a

If the test boxes hit underside of table, more adjustments may be needed to the conveyor height.

Ako ispitne kutije udare u donju stranu stola, možda će biti potrebno dodatno podešavanje visine transportne trake.

► Test Emergency Stop / Provjerite Hitno zaustavljanje



- EN **1** While the conveyor is running, press the emergency stop.

- CR Dok je transportna traka u pogonu, pritisnite Hitno zaustavljanje

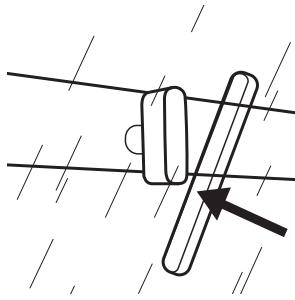
- 2** Ensure that the conveyor stops running.

Utvrđite da transportne trake prestanu raditi

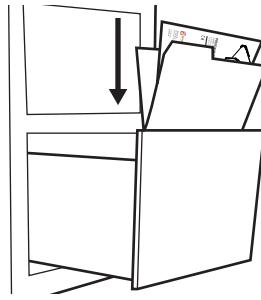
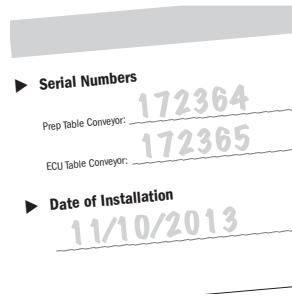
- 3** Reset the emergency stop by twisting the button to the depressed position.

Resetirajte Hitno zaustavljanje okretanjem gumba u pritisnut položaj

► Complete Commissioning / Potpuno puštanje u rado



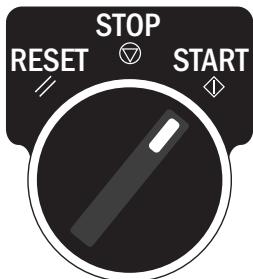
- EN **1** If removed, replace the clear plastic guard(s) by sliding over the twist nuts at the corresponding number on the conveyor. Turn the nuts to the horizontal position to lock in place.
- CR Ako su uklonjeni, zamijenite štitnike klizeći preko zavrtnih matica na odgovarajućim brojčanim pozicijama i uvijanjem matica u vodoravni položaj kako bi se učvrstili



- 2** Record the serial numbers for the emergency panel and all conveyors on the back cover of this manual.
- Zabilježite serijski broj na stražnjoj korici ovog priručnika
- 3** File this manual in the store office for future reference.
- Pohranite ovaj priručnik u ured trgovine za buduću upotrebu

Operation / Pogon

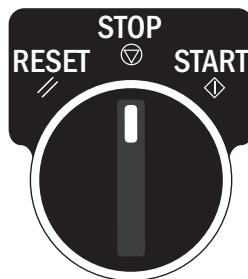
► Starting / Pokretanje



EN **1** Start the conveyor by turning the control switch to <START> (◇).

CR Pokrenite transportnu traku okretanjem prekidača upravljača na Start (◇)

► Stopping / Zaustavljanje



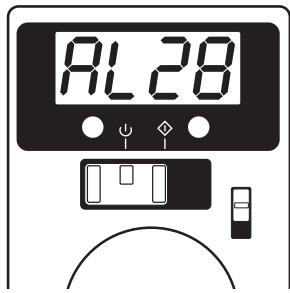
EN **1** Stop the conveyor by turning the control switch to <STOP> (⊖).

CR Zauštavite transportnu traku okretanjem prekidača upravljača na Stop (⊖)

If the conveyor does not start, check that all of the clear plastic guards are in place and that the emergency stops are in the depressed position. If the conveyor still does not start, refer to the "Troubleshooting" section of this manual on page 24.

Ako se transportna traka ne pokrene, provjerite jesu li svi štitnici na mjestu i jesu li tipke za hitno zaustavljanje u pritisnutom položaju. Ako se transportna traka i dalje ne pokreće, provjerite odjeljak za rješavanje problema u ovom priručniku.

► Resetting / Resetiranje



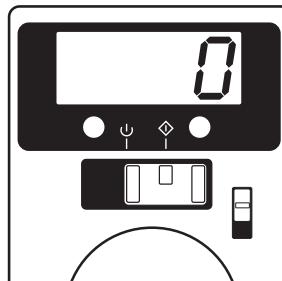
EN **1** If an alarm condition occurs, the control must be reset.

CR Ako dođe do stanja alarma, upravljač se mora resetirati



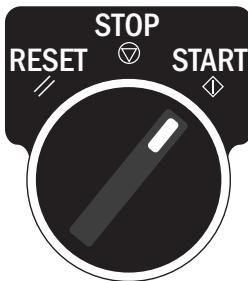
2 Turn the control switch to <RESET> (//) and hold for one second.

Okrenite prekidač upravljača na Reset (//) i držite jednu sekundu



3 If the control displays "0", the alarm has been cleared.

Ako kontroler prikaže "0", alarm je obrisan



4 Start the conveyor by turning the control switch to <START> (◇).

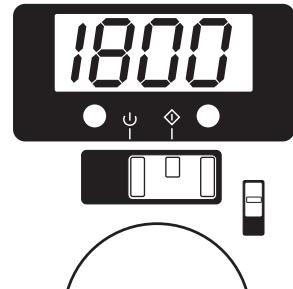
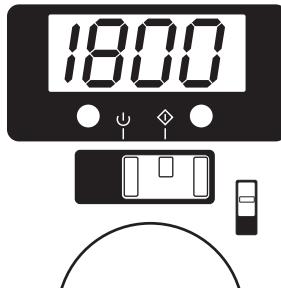
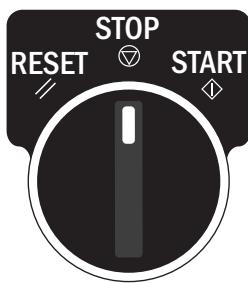
Pokrenite transportnu traku okretanjem prekidača upravljača na Start (◇)

If the alarm condition does not clear, refer to the manufacturer's manual for the controller.
Ako se alarm ne poništi, pogledajte priručnik proizvođača upravljača.

► Speed Change / Promjena brzine

The speed has been pre-programmed to 1800 rpm. This can be changed depending on operational needs once the conveyor is installed. If controller will not change speed, controller may be locked. Refer to Unlocking Controller procedure below.

Brzina je unaprijed programirana na 1800 o/min. To se može promijeniti ovisno o operativnim potrebama nakon što je transportna traka ugrađena. Ako upravljač ne mijenja brzinu, upravljač je možda zaključan. Pogledajte postupak otključavanja upravljača u nastavku.



- EN** **1** Turn the control switch to <STOP> (⊖) and open the plastic cover on the control panel (**do not disconnect**).

CR Okrenite prekidač upravljača da se zaustavi (⊖) i otvorite plastični poklopac na kutiji upravljača (nemojte odspojiti)

- 2** Rotate the dial on the control until the desired speed is displayed.

Okrećite kotačić na upravljaču dok se ne prikaže željena brzina

- 3** Press the dial to set the speed.

Pritisnite kotačić za podešavanje brzine

- 4** Replace the plastic cover on the control panel and turn the control switch to <START> (◇).

Vratite plastični poklopac na kutiju upravljača i okrenite prekidač Start/Stop na Start (◇)

► Unlocking Controller / Otključavanje upravljača

In normal operation the controller should not be locked, but can become locked accidentally.
U normalnom radu upravljač ne bi trebao biti zaključan, ali se može slučajno zaključati.

ñoñ

UnLK

0

- EN** **1** Press 'mode' once to reveal "non" and allow the unlocking procedure.

CR Pritisnite Mode jednom da biste otvorili "non" (ne) i omogućili postupak otključavanja

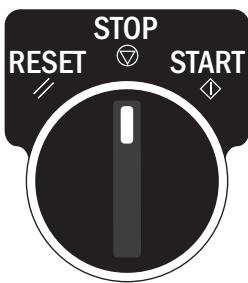
- 2** Hold 'mode' for 5 seconds and wait for the display to flash "UnLK" and return to "non".

Zadržite Mode 5 sekundi i pričekajte da zaslon zatreperi "UnLK" i vrati se na "non"

- 3** Press 'function' to return to operating mode.

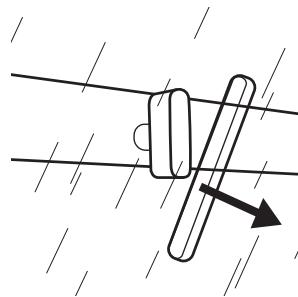
Pritisnite Function za povratak u način rada

► Daily Cleaning / Dnevno čišćenje



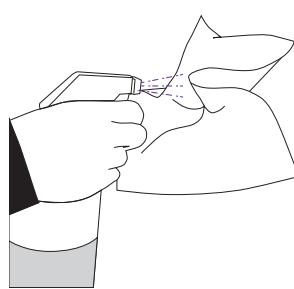
EN **1** <STOP> the conveyor (▽).

CR Zaustavite transportnu traku



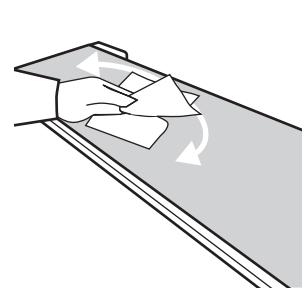
2 Remove the clear plastic guards by twisting the nuts to the vertical position and sliding them off of the conveyor.

Uklonite štitnike uvrtaanjem matica u okomiti položaj i sklizanjem s transportne trake



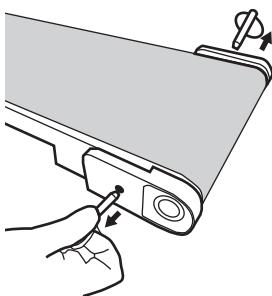
3 Spray the rag with the diluted cleaning solution.

Poprskajte krpnu razrijedjenom otopinom za čišćenje



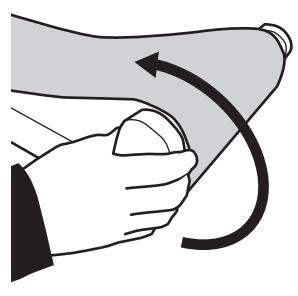
4 Wipe the visible portion of the belt.

Obrišite vidljivi dio remena



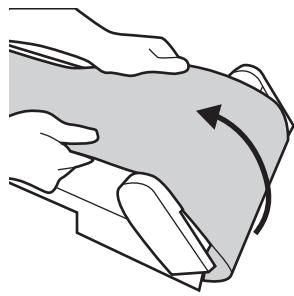
EN **5** Pull the pins from both sides of the conveyor's tail.

CR Povucite igle s obje strane „repa“ transportne trake



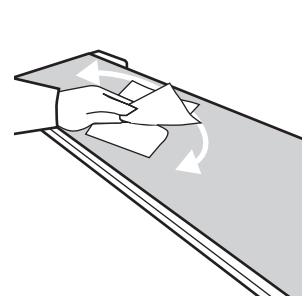
6 Lift the tail pulley.

Podignite repnu remenicu



7 Manually advance the belt to reveal the opposite side.

Ručno pomaknite pojaz kako biste otkrili suprotnu stranu



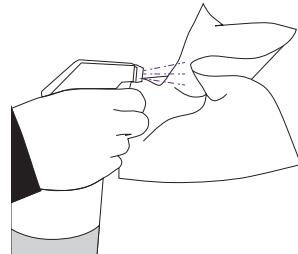
8 Wipe the visible portion of the belt.

Obrišite vidljivi dio pojaza



EN **9** Repeat steps 8 & 9 four times until the entire belt is clean.

CR Ponovite korake 8 i 9 četiri puta dok se cijeli remen ne očisti



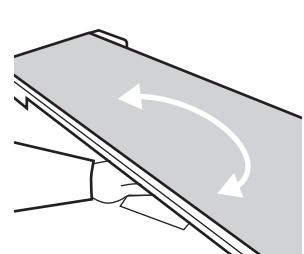
10 Spray the rag with the diluted cleaning solution.

Poprskajte krpnu razrijedjenom otopinom za čišćenje



11 Wipe the entire length of the frame underneath the conveyor belt.

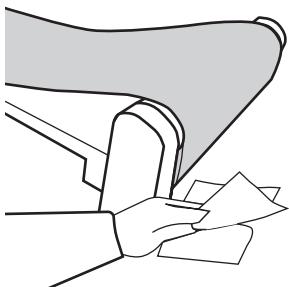
Obrišite cijelu dužinu okvira ispod transportne trake



12 Wipe under the entire length of the conveyor.

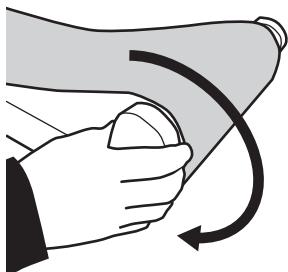
Obrišite ispod cijele dužine transportne trake

► Daily Cleaning (continued) / Dnevno čišćenje (nastavak)



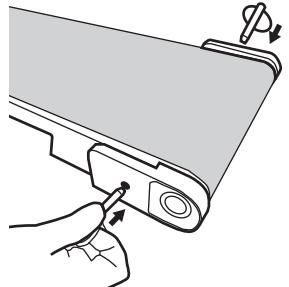
EN **13** Wipe under the tail pulley.

CR Obrinite ispod repne remenice



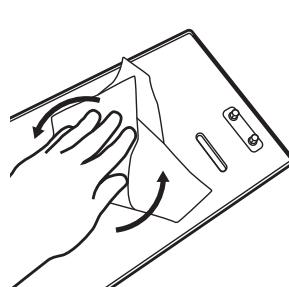
14 Lower the tail pulley into place.

Spustite repnu remenicu na svoje mjesto



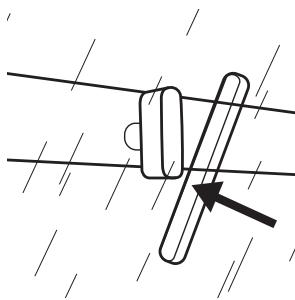
15 Replace both pins in the conveyor's tail pulley.

Zamijenite oba kline u repnoj remenici transportne trake



16 Wipe both sides of each clear plastic guard.

Obrinite obje strane svakog štitnika



EN **17** Replace the clear plastic guards by sliding over the twist nuts at the corresponding numbers on the conveyor. Turn the nuts to the horizontal position to lock in place.

ES Zamijenite štitnike klizeći preko završnih matica na odgovarajućim brojčanim pozicijama i uvijanjem matica u vodoravni položaj da se zaključaju na mjestu



18 <START> the conveyor (▷).

Pokrenite transportnu traku

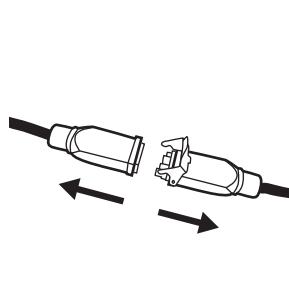
Maintenance / Održavanje

► Beginning Maintenance / Početak održavanja

The following steps must be completed before performing any of the maintenance procedures described in the “Maintenance” section.
Ovi koraci moraju biti dovršeni prije izvođenja bilo kojeg od postupaka održavanja opisanih u odjeljku Održavanje.

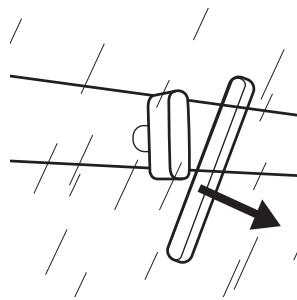
Ensure the power to the conveyor is disengaged by turning the control switch on the control panel to the <OFF> position.
Uvjrite se da je transportna traka isključena prebacivanjem prekidača za uključivanje/isključivanje na upravljaču u položaj isključeno.

 Verify the power is shut off and locked out.
Provjerite je li napajanje isključeno i zaključano.



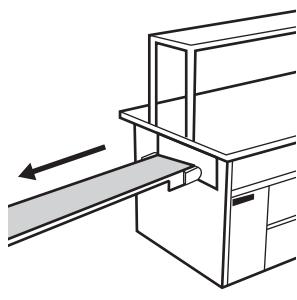
- EN **1** Disconnect the conveyor from the control panel.

- CR Odvojite transportnu traku od upravljačke ploče



- 2** Remove the clear plastic guards by twisting the nuts to the vertical position and sliding off of the conveyor.

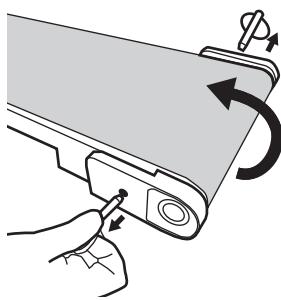
Uklonite štitnike uvrtaanjem matica u okomiti položaj i klizanjem s transportne trake



- 3** Remove from table.
Weight: 70 lbs (32 kg); lift with two people.



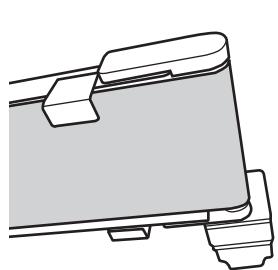
Uklonite sa stola težinu: 70 lbs (32 kg); podignite sa dvije osobe



- 4** Relieve tension on the belt by removing both pins from the tail and rotate the tail up to the disengaged position.

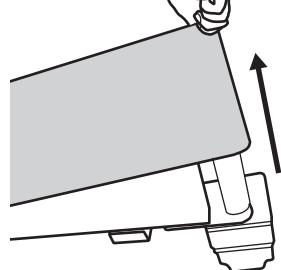
Oslobodite napetost remena uklanjanjem oba klinja s repa i zarođirajte rep do isključenog položaja

► Belt Change / Zamjena remena



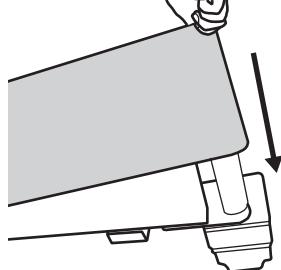
- EN **1** Place the conveyor on its side with the motor down.

- CR Postavite transportnu traku na bok s motorom prema dolje



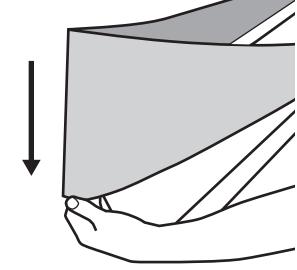
- 2** Slide the old belt off of the conveyor frame.

Skinite stari remen s okvira transportne trake



- 3** Slide the new belt over the drive pulley.

Prevucite novi remen preko pogonske remenice



- 4** Slide the new belt over the tail pulley.

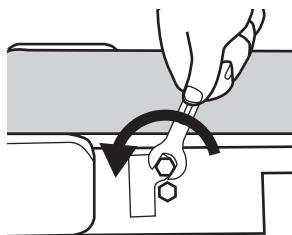
Prevucite novi remen preko repne remenice

To complete the belt change, refer to the “Finalizing Maintenance” section on page 22 of this manual.
Za dovršetak izmjene remena, pogledajte odjeljak Završno održavanje u ovom priručniku. (stranica 22)

► Belt Tensioning / Zatezanje remena

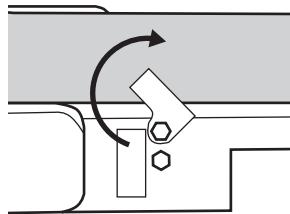
If the belt slips or is stopping, improper tension may be the cause. See steps below for corrective actions.

Ako remen klizi ili se zaustavlja, uzrok može biti nepravilna zategnutost. Pogledajte korake u nastavku za korektivne radnje.



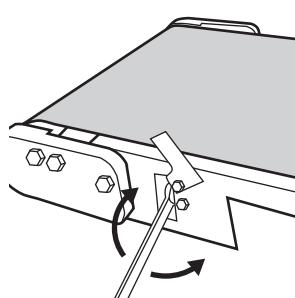
- EN **1** Loosen the upper hex head screw on the tension window cover.

- CR Otpustite gornji šesterokutni vijak na poklopac zateznog prozora



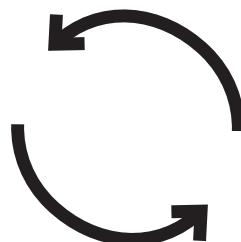
- 2** Rotate the tension window cover to the open position.

- Okrenite Poklopac zateznog prozora u otvoreni položaj



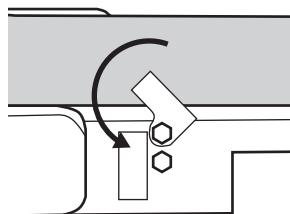
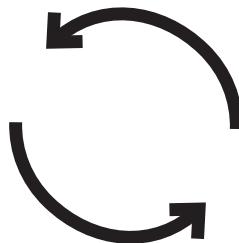
- 3** Rotate the hex head cap screw to add or remove tension on that side of the conveyor with a 10 mm box head wrench.

- Okrenite šesterokutni vijak za dodavanje ili uklanjanje zategnutosti na toj strani transportne trake pomoću ključa od 10 mm



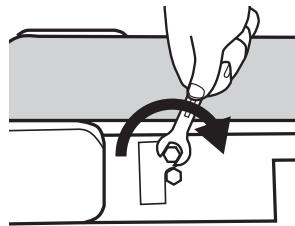
- 4** Repeat the process on the opposite side of the conveyor using the **exact same number of rotations as step 3**.

- Ponovite postupak na suprotnoj strani transportne trake koristeći isti broj rotacija kao u koraku 3



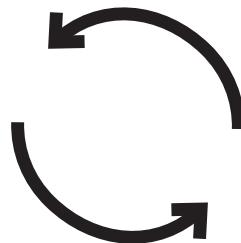
- EN **5** Repeat this process until proper tension is achieved.

- CR Ponavljajte postupak dok se ne postigne odgovarajuća zategnutost



- 6** Rotate the tension window cover into place.

- Zakrenite poklopac zateznog prozora na svoje mjesto



- 7** Tighten the upper hex head screw on the tension window cover.

- Zategnite gornji šesterokutni vijak na poklopac zateznog prozora

- 8** Repeat steps 6 & 7 on the opposite side of the conveyor to ensure both tension window covers are closed.

- Ponovite korake 6 i 7 na suprotnoj strani transportne trake kako biste osigurali da su oba poklopca zateznog prozora zatvorena

Replace the sides and check the tracking if necessary. Refer to the "Belt Tracking" section on pages 18 & 19 of this manual.
Zamijenite stranice i po potrebi provjerite praćenje. Pogledajte odjeljak Praćenje remena u ovom priručniku.

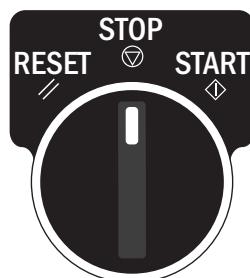
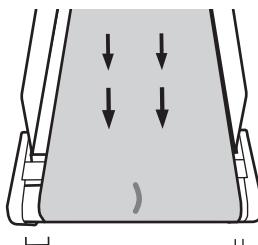
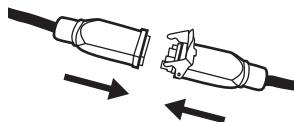
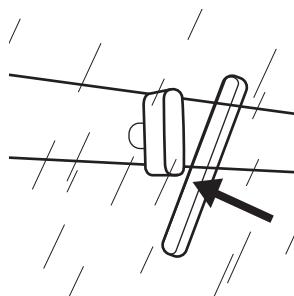
► Belt Tracking / Praćenje remena

Tracking requires access to both sides of conveyor. It is necessary to remove conveyor from table to properly track belt.

Praćenje zahtijeva pristup objema stranama transportne trake. Potrebno je ukloniti transportnu traku sa stola kako bi se propisno vodila traka.

If belt is squeaking or riding too far to one side of conveyor, improper tracking may be the cause. See steps below for corrective actions.

Ako remen škripi ili ide predaleko na jednu stranu transportne trake, uzrok može biti nepravilna veza. Pogledajte korake u nastavku za korektivne radnje.



- EN** **1** Replace the clear plastic guards by sliding them over the twist nuts at the corresponding numbers on the conveyor. Turn the nuts to the horizontal position to lock in place.

- CR** Zamijenite štitnike klizeći preko zavrtnih matica na odgovarajućim brojčanim pozicijama i uvijanjem matica u vodoravni položaj da se zaključaju na mjestu

- 2** Reconnect the conveyor to the control panel.

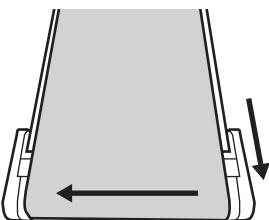
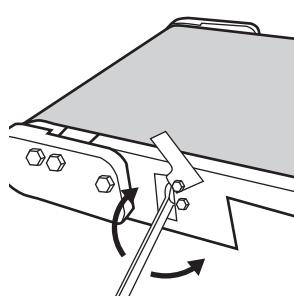
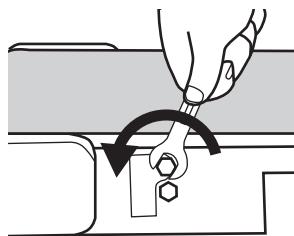
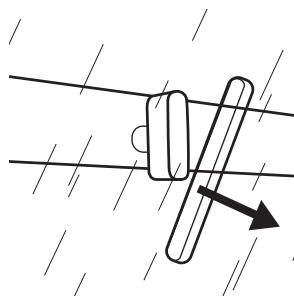
Ponovo spojite transportne trake na upravljačku ploču

- 3** Run the conveyor by turning the control switch to <START> and make observations. A belt is mistracked when it rides closer to one side or there is bulging at the center of the belt.

Pokrenite transportnu traku okretanjem upravljačkog prekidača za pokretanje i promatranje. Remen se promašuje kada se vozi bliže jednoj strani ili postoji ispuštenje u sredini remena

- 4** To start tracking the belt, <STOP> (⊖) the conveyor.

Za početak praćenja trake, zaustavite transportnu traku



- EN** **5** Remove the clear plastic guards by twisting the nuts to the vertical position and sliding off of the conveyor.

- CR** Uklonite štitnike uvrtaanjem matica u okomiti položaj i klizanjem s transportne trake

- 6** Loosen the upper hex head screw on the tension window cover and rotate up.

Otpustite gornji šesterokutni vijak na poklopcu zateznog prozora i zakrenite prema gore

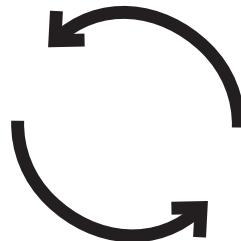
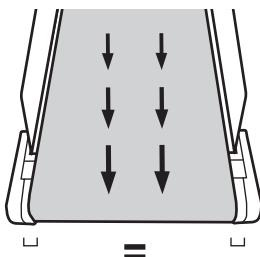
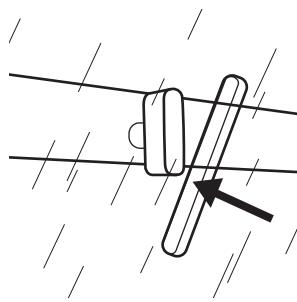
- 7** Add or remove tension to one side of the belt by turning the tensioning screw a 1/4 turn at a time.

Dodajte ili uklonite zategnutost na jednoj strani remena okretanjem zateznog vijka za 1/4 okreta odjednom

- 8** The belt will move away from the side with the greatest tension.

Remen će se odmaknuti sa strane s najvećom zategnutošću

► Belt Tracking (continued) / Praćenje remena (nastavak)



EN **9** Replace the clear plastic guards by sliding over the twist nuts at the corresponding numbers on the conveyor. Turn the nuts to the horizontal position to lock in place.

CR Zamjenite štitnike klizeći preko zavrtnih matica na odgovarajućim brojčanim pozicijama i uvijanjem matica u vodoravni položaj da se zaključaju na mjestu

10 <START> the conveyor (\diamond).

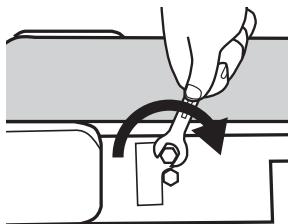
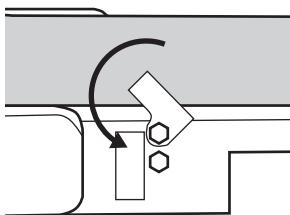
Pokrenite transportnu traku

11 Correct tracking is achieved when some of the tail pulley is visible on both sides of the belt.

Ispравно praćenje se postiže kada je dio repne remenice vidljiv s obje strane remena

12 Repeat this process until proper tracking is achieved.

Ponavljajte postupak dok se ne postigne ispravno praćenje



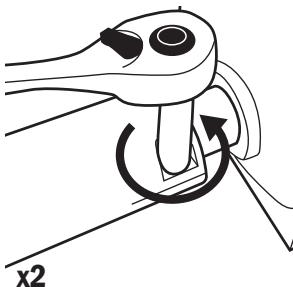
EN **13** Once proper tracking is achieved, ensure the conveyor is stopped and rotate the tension window cover into place.

CR Kada se postigne ispravno praćenje, provjerite je li transportna traka zaustavljena i zakrenite poklopac zateznog prozora na mjesto

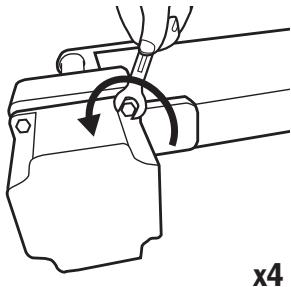
14 Tighten the upper hex head screw on the tension window cover.

Zategnite gornji šesterokutni vijak na zateznom poklopcu prozora

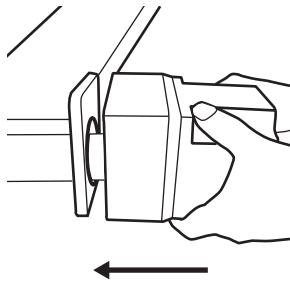
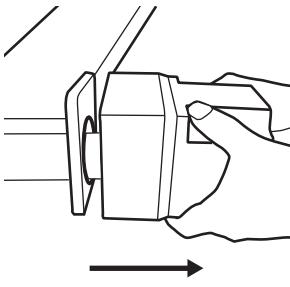
► Gearmotor Change / Promjena motora zupčanika



x2



x4



- EN **1** Use an 8 mm socket to loosen and remove the two hex clamping screws that hold the drive pulley to the gearmotor.

- CR Otpustite i uklonite dva šesterokutna stezna vijka koji drže pogonsku remenicu na motor zupčanika pomoću račne od 8 mm

- 2** With a 13 mm wrench, loosen and remove the four hex head bolts holding the gearmotor to the mounting plate.

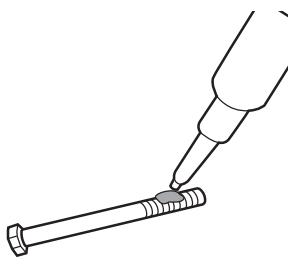
Otpustite i uklonite četiri šesterokutna vijka koji drže motor zupčanika na montažnoj ploči pomoći ključa od 13 mm

- 3** Slide the gearmotor out of the drive pulley and the mounting plate.

Izvucite motor zupčanika iz pogonske remenice i montažne ploče

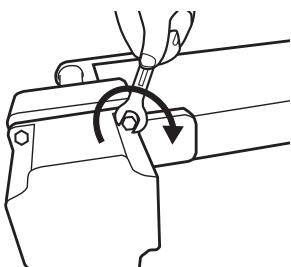
- 4** Apply anti-seize to the motors shaft and slide through the motor mounting bracket into the pulley.

Nanесите средство против загријавања на осовину мотора и пронесите кроз носач мотора у ременицу

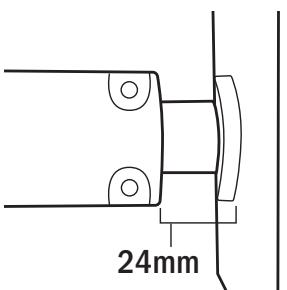


- EN **5** Apply removable threadlocker to the motor mounting screws.

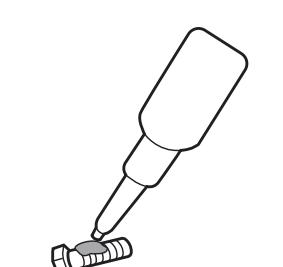
- CR Stavite sredstvo za osiguranje vijka na pričvršne vijke motora



x4



24mm



- 6** Insert and tighten the four motor mounting screws with a 13 mm wrench.

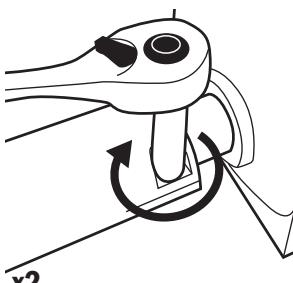
- 7** Ensure the gap between the motor and the pulley is 24 mm.

Umetnите i zategnite četiri pričvršna vijka motora pomoći ključa od 13 mm

Provjerite je li razmak između motora i remenice 24 mm

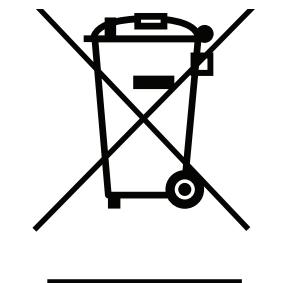
- 8** Apply removable thread-locker to the pulley clamping screws.

Stavite sredstvo za osiguranje vijka na stezne vijke remenice



- EN **9** Insert and tighten both of the pulley clamping screws using an 8 mm socket.

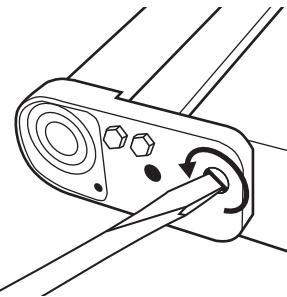
- CR Umetnите i zategnite oba stezna vijka remenice pomoći utora od 8 mm



- 10** Dispose of the gearmotor in compliance with WEEE or return to QC Conveyors for disposal.

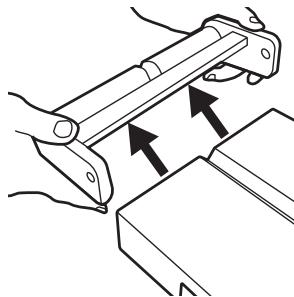
Odložite motor zupčanika u sklad s WEEE ili ga vratite u QC transportne trake na odlaganje

► Tail Assembly Replacement / Zamjena repnog dijela



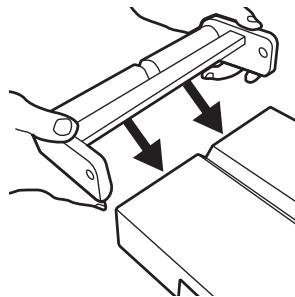
EN **1** Remove the shoulder bolts from both sides of the tail assembly.

CR Zamijenite vijke za ramena s obje strane repnog dijela



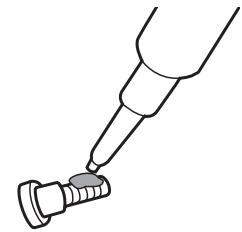
2 Lift the tail assembly off of the conveyor.

Podignite repni dio s transportne trake



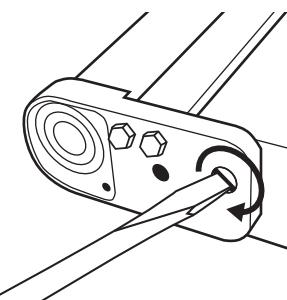
3 Replace with the new tail assembly.

Zamijenite novim repnim dijelom



4 Apply removable threadlocker to both shoulder bolts.

Nanесите уклонјиво средство за осигуранje вијака на оба рамена вијка

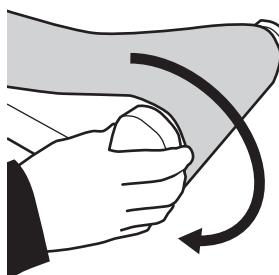


EN **5** Replace and tighten the shoulder bolts on both sides of the tail assembly.

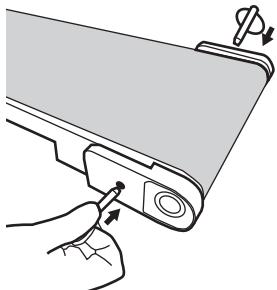
CR Zamijenite i zategnite vijke za ramena na obje strane repnog sklopa

► Finalizing Maintenance / Završno održavanje

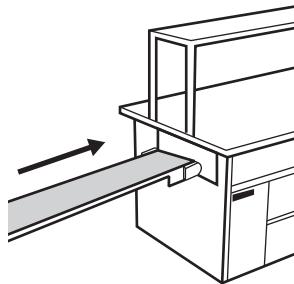
The following steps must be completed after performing any of the maintenance procedures described in the “Maintenance” section on pages 16 - 21.
T Ovi koraci moraju biti dovršeni nakon izvođenja bilo kojeg od postupaka održavanja opisanih u odjeljku Održavanje.



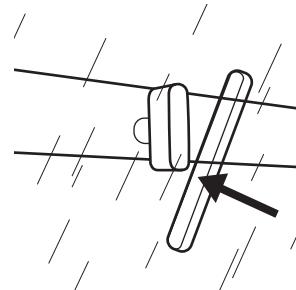
- EN **1** Center the belt on the tail and rotate it down into the operating position.



- 2** Insert both pins into the tail.



- 3** Slide the conveyor into the table.



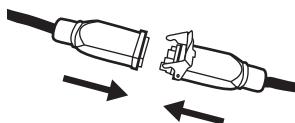
- 4** Replace the clear plastic guards by sliding over the twist nuts at the corresponding numbers on the conveyor. Turn the nuts to the horizontal position to lock in place.

Zamijenite štitnike klizeći preko zavrnih matica na odgovarajućim brojčanim pozicijama i uvijanjem matica u vodoravni položaj da se zaključaju na mjestu

CR Centrirajte remen na rep i zarotirajte prema dolje u radni položaj

Umetnite obje igle u rep

Gurnite transportnu traku u stol



- EN **5** Reconnect the conveyor to the control panel.

ES Ponovno spojite transportnu traku na upravljačku ploču

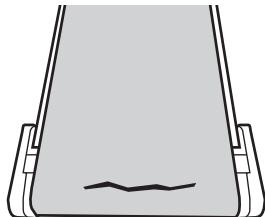
After the “Finalizing Maintenance” steps are completed and power is restored, all of the control LEDs should be lit and green. If the LEDs are not lit and green, refer to the “Control LEDs” portion of the “Troubleshooting” section of this manual on page 24.

Nakon dovršetka koraka održavanja i vraćanja napajanja, sve LED diode upravljača trebaju biti upaljene i zelene. Ako LED diode nisu upaljene i zelene, pogledajte odjeljke LED diode upravljača i Rješavanje problema u ovom priručniku.

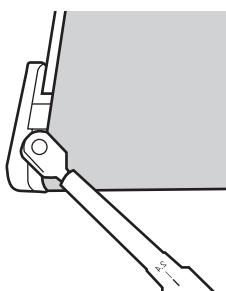
Maintenance Checklist /

Kontrolna lista održavanja

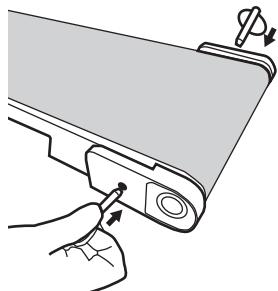
The following items should be checked each time maintenance is performed on the conveyors.
Sljedeće stavke treba provjeravati svaki put kada se izvodi održavanje na transportnim trakama.



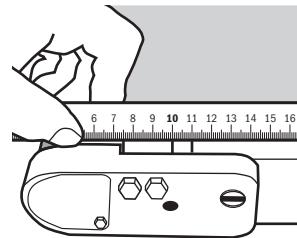
- EN Inspect the belt for cracks or tears; if observed, replace the belt. To replace the belt, refer to the **"Belt Change"** section on page 16 of this manual.



- CR Proverite ima li remen pukotina ili je poderan; ako se nađe, zamijenite remen. Za zamjenu remena, pogledajte odjeljak Promjena remena u ovom priručniku. (stranica 16)

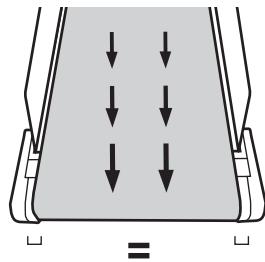


- EN Confirm that both pull pins are inserted into the tail.

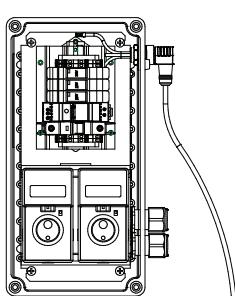


- CR Verify that the gap between the tail spacer and the end of the frame is about 10 mm. To properly tension the belt, refer to the **"Belt Tensioning"** section on page 17 of this manual.

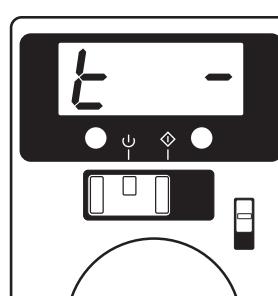
Osigurajte da razmak između repnog odstojnika i kraja okvira bude oko 10 mm. Za pravilno zatezanje remena, pogledajte odjeljak Zatezanje remena u ovom priručniku. (stranica 17)



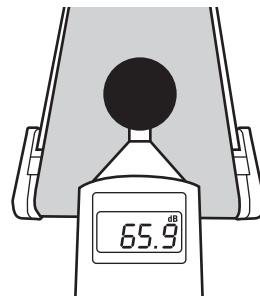
- EN Ensure the belt runs centered on the pulley. If not, the belt needs to be tracked. To track the belt, refer to the **"Belt Tracking"** section on page 19 of this manual.



- CR Osigurajte da remen ide u središtu remenice; ako ne, remen se treba prati. Za praćenje remena, pogledajte odjeljak Praćenje remena u ovom priručniku. (stranica 19)



- EN Visually inspect all of the cable connections inside the control panel to verify they are secure. If not, reconnect/secure them.



- CR Vizualno pregledajte sve žičane veze unutar upravljačke kutije kako biste bili sigurni da su sigurni; ako ne, ponovno ih povežite/osigurajte.

- EN Ensure the motor load is below 60% (press the 'function' key on the control); a number above 60 may indicate a problem with the conveyor.

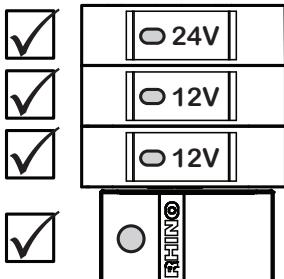
- CR Provjerite je li opterećenje motora ispod 60% (pritisnite funkciju tipku na upravljaču); broj iznad 60 može ukazivati na problem s transportnom trakom.

- CR Provjerite je li razina zvuka ispod 70 dB; očitanje iznad 70 može ukazivati na problem s transportnom trakom.

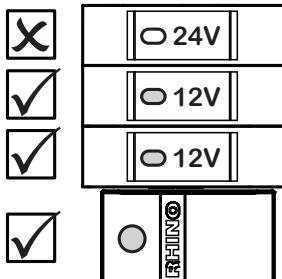
Troubleshooting / Rješavanje problema

► Controller LEDs / LED diode upravljača

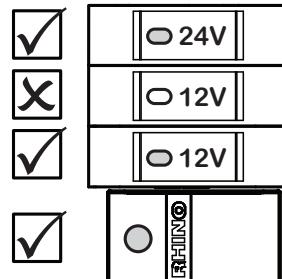
WARNING: Due to the risk of electric shock, maintenance of the control panel should be performed ONLY by service technician's or licensed electrician's.
UPOZORENJE: Zbog opasnosti od strujnog udara, održavanje unutarnje upravljačke ploče treba obavljati SAMO serviser ili licencirani električar.



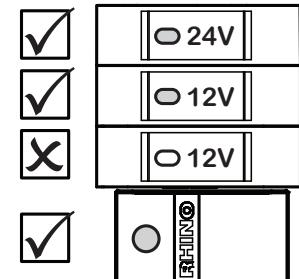
EN The conveyor is ready to start.



The emergency stop is activated.
Reset the emergency stop.



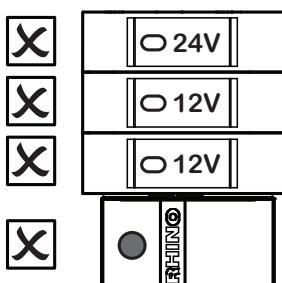
The clear plastic guards on the ECU table are not making contact with the sensors. Check the clear plastic guards.



The clear plastic guards on the PREP table are not making contact with the sensors. Check the clear plastic guards.

Zaštita na ECU transporteru ne zaštita na transportnim trakama stola za pripremu ne ostvaruje kontakt sa senzorima. Provjerite štitnike

CR Pokretna traka je spremna za rad



A line in the power is deactivated.
The circuit breaker may have tripped and needs to be reset.

CR Linija napajanja deaktivirana.
Prekidač se možda aktivirao i treba ga resetirati

The power supply LED is red.
There is a faulty condition and the cables inside of the control panel must be checked.

LED lampica za napajanje je crvena. Postoji kvar i potrebno je provjeriti žice unutar ploče

► Clearing Alarms / Čišćenje alarma

In the event the control displays an alarm code, turn the control switch to <STOP> (⊖), fix the condition per instructions below, disconnect the power, reconnect the power, then turn the control switch to <RESET> (//). If the alarm does not clear, replacement of the control may be required.

U slučaju da upravljač prikaže kod alarma, okrenite prekidač upravljača u položaj Stop (⊖), popravite stanje prema uputama u nastavku, isključite napajanje, ponovno uključite napajanje, a zatim okrenite prekidač upravljača za resetiranje (//). Ako se alarm ne poništi, možda će biti potrebna zamjena upravljača.

AL22

AL25

AL30

AL31

EN The input voltage exceeded 240V by 20%; an electrician must check the power supply voltage.

CR Ulazni napon premašio 240V za 20%; električar mora provjeriti napon napajanja

The input voltage fell below 200V by 20%; an electrician must check the power supply voltage or the wiring of the power cable.

Ulagani napon je pao ispod 200V za 20%; električar mora provjeriti napon napajanja ili ožičenje kabela za napajanje

The conveyor is jammed or experiencing mechanical problem; clear the jam or repair the conveyor.

Transportna traka se zaglavila ili ima mehanički problem; očistiti zastoj ili popraviti transportnu traku

Overspeed error; replace the gearmotor if recurring.

Pogreška prekoračenja brzine; zamijenite motor s reduktrom ako se ponavlja

AL42

AL46

AL20

AL41

EN The motor control cable (smaller connector) or its wiring terminals are improperly connected.

CR Upravljački kabel motora (manji konektor) ili njegovi terminali ožičenja nisu pravilno spojeni

Power interrupted with the control switch in the <START> position (◇).

Napajanje je prekinuto s kontrolnom sklopkom u početnom položaju (◇)

Excessive current through the control; check the cables between the control and the motor for breakage.

Prekomerna struja kroz regulator; provjerite jesu li kabeli između regulatora i motora prekinuti

A read/write error has occurred within the control.

Pogreška čitanja/pisanja unutar kontrolera

AL21

AL28

EN Main circuit overheat.

ES Pregrijavanje glavnog kruga

Open circuit on motor sensor wire; electrician must check wiring.

Prekinuti krug na žici senzora motora; električar mora provjeriti ožičenje

If alarms will not clear, please refer to controller Operating Manual.
Ako se alarni ne ponište, molimo pogledajte Priručnik za rad upravljača.

► Troubleshooting / avanje problema

Symptom / Simptom	Possible Cause / Mogući uzrok	Corrective Action / Korektivna radnja
The conveyor continues to operate with the clear plastic guard(s) removed. Transportna traka nastavlja raditi sa uklonjenim štitnicima	The power supply is wired incorrectly. Napajanje je pogrešno ožičeno	Verify the + is wired to brown and the - current to blue. Provjerite je li + spojen na smeđu, a - na plavu
	The sensor relay is fused closed. Relej senzora zatvoren s osiguračem	Replace 12V relay; check the wiring for a short to make sure the relay doesn't fuse closed again. Zamijenite 12V relej; provjerite kratko ožičenje kako biste bili sigurni da se relej neće ponovno zatvoriti s osiguračem
	A sensor harness is defective. Kabelski svežanj senzora je neispravan	Replace the sensor harnesses (all 4 sensors). Zamijenite kabelski svežanj senzora (sva 4 senzora)
	A sensor relay circuit is wired incorrectly. Krug releja senzora nije ispravno ožičen	Verify the sensor circuit is wired correctly (see Wiring Diagram). Provjerite je li krug senzora ispravno spojen (pogledajte dijagram ožičenja)
DC Control displays AL42 alarm code. DC kontrola prikazuje AL42 alarmni kod alarma	A motor cable is not properly connected between the control and the motor. Žica motora nije pravilno spojena između upravljača i motora	Reconnect or replace the motor cable(s) between the motor and the control. Turn off the control panel to reset the alarm; then turn the control back on to start conveyor(s). Ponovno spojite ili zamijenite kabel(e) motora između motora i kontrolera; isključite upravljačku ploču za resetiranje alarma, a zatim ponovno uključite kontrolu da pokrenete transporter(e)
	The emergency stop is activated. Hitno zaustavljanje je upaljeno	Release the emergency stop; the emergency stop relay LED will be off when activated. Otpustite hitno zaustavljanje (LED releja h.z. će biti isključen kada se aktivira)
	One or more of the clear plastic guard(s) are not properly installed or secured. Jedan ili više prozirnih štitnika transportne trake nisu instalirani ili pravilno pričvršćeni	Install and properly secure all clear conveyor guards (guard relay LED will be on when properly secured). Ugradite i pravilno pričvrstite sve prozirne štitnike transportne trake (LED releja zaštite bit će upaljen kada su pravilno pričvršćeni)
	The circuit breaker inside the control panel is off. Prekidač unutar upravljačke ploče je isključen	Turn on the circuit breaker inside control panel. Uključite prekidač unutar upravljačke ploče
No Power to the DC control. Nema napajanja DC kontrole	The main circuit breaker in the ECU is off. Glavni prekidač u električnoj tablici je isključen	Turn on main circuit breaker inside the ECU. Uključite glavni prekidač unutar električnog stola
	The building circuit breaker is off. Prekidač u zgradi je isključen	Turn on the building circuit breaker. Uključite zaštitni prekidač zgrade
	Sensor/Emergency stop relay circuit is wired incorrectly or has a loose wire connection. Krug releja osjetnika/E-stop nije ispravno ožičen ili je labav spoj žice	Verify sensor - emergency stop circuit is wired correctly (see Wiring Diagram). Provjerite je li krug senzora hitnog zaustavljanja ispravno ožičen (pogledajte dijagram ožičenja)
	The power is disconnected from the control panel. Napajanje je isključeno s ploče	Reconnect the power cable. Ponovno spojite kabel za napajanje
Emergency stop relay LED is not on. LED relej gumba hitnog zaustavljanja ne svijetli	The emergency stop is activated. Hitno zaustavljanje je aktivirano	Release the emergency stop. Otpustite gumb hitnog zaustavljanja
	The emergency stop cable is not connected properly between the emergency stop and the emergency stop circuit. Kabel hitnog zaustavljanja nije pravilno spojen između hitnog zaustavljanja i kruga hitnog zaustavljanja	Connect the emergency stop cable to the emergency stop circuit. Spojite kabel hitnog zaustavljanja na krug hitnog zaustavljanja
	Circuit Breaker inside the control panel is off. Prekidač unutar upravljačke ploče je isključen	Turn on the circuit breaker inside the control panel. Uključite prekidač unutar upravljačke ploče
	The main circuit breaker in the ECU is off. Glavni prekidač u električnoj tablici je isključen	Turn on the main circuit breaker inside the ECU. Uključite glavni prekidač unutar električnog stola
The relay is defective. Relej je neispravan	The emergency stop relay circuit is wired incorrectly or has a loose wire connection. Krug releja hitnog zaustavljanja nije ispravno ožičen ili je labav	Verify sensor- the emergency stop circuit is wired correctly (see Wiring Diagram). Provjerite je li krug senzora hitnog zaustavljanja ispravno spojen spoj žice (pogledajte dijagram ožičenja)
	The relay is defective. Relej je neispravan	Replace the defective relay. Zamijenite neispravni relej

► Troubleshooting (continued) / šavanje problema (nastavak)

Symptom / Simptom	Possible Cause / Mogući uzrok	Corrective Action / Korektivna radnja
The clear plastic guard relay(s) LED light is not on. LED relj zaštite nije uključen	One or more of the clear plastic guards are not properly installed or secured. Jedan ili više prozirnih štitnika transportnih traka nisu instalirani ili pravilno pričvršćeni Sensor cable is not connected to the sensor circuit on one or all conveyors. Kabel senzora nije spojen na krug senzora na jednoj ili svim transportnim trakama	Properly install and secure all clear plastic guards. Ugradite i pravilno pričvrstite sve prozirne štitnike transportnih traka Connect the sensor cable on one or all conveyors. Spojite kabel senzora na jednu ili sve transportne trake
	The circuit breaker inside the control panel is off. Prekidač unutar upravljačke ploče je isključen	Turn on the circuit breaker inside of the control panel. Uključite prekidač unutar upravljačke ploče
	The main circuit breaker in the ECU is off. Glavni prekidač u električnom stolu je isključen	Turn on the main circuit breaker inside the ECU. Uključite glavni prekidač unutar električnog stola
	The sensor relay circuit wired incorrectly or has a loose wire connection. Krug releja senzora je pogrešno ozičen ili labav spoj žice	Verify sensor - emergency stop circuit is wired correctly (see Wiring Diagram). Provjerite je li krug senzora hitnog zaustavljanja ispravno ozičen (pogledajte dijagram ozičenja)
	The relay is defective. Relej je neispravan	Replace the defective relay. Zamijenite neispravan relej
DC control allows the speed to change but the motor doesn't turn on. DC kontrola omogućuje promjenu brzine, ali se motor ne uključuje	The motor cable is not properly connected between the control and the motor. Žica motora nije pravilno spojena između upravljača i motora	Reconnect the motor wire under the DC control. Ponovno spojite žicu motora ispod DC upravljača Re-connect motor wire at the motor Ponovno spojite žicu motora na motor Re-connect motor wire at the cable extension connection Ponovno spojite žicu motora na priključak za produžetak kabela
	The control has been programmed to a fixed speed. Upravljač je programiran na fiksnu brzinu	Re-program controller to allow speed change (see Speed Change). Ponovno programirajte upravljač kako biste omogučili promjenu brzine (pogledajte Promjena brzine)
The conveyor makes a loud noise while operating. Transportna traka stvara jak zvuk tijekom rada	A screw is loose on the pulley or bearing. Otpušteni vijci na remenici ili ležaju	Tighten the screws on the pulley and bearing. Zategnite vijke na remenici i ležaju
The conveyor squeaks when operating. Transportna traka škripi tijekom rada	The belt is mistracked. Remen je pogrešno zategnut	See " Belt Tracking " section. Pogledajte odjeljak Praćenje remena
Belt slips or stops. Pojas klizi ili se zaustavlja	Lubrication between the drive pulley and the belt. Podmazivanje između pogonske remenice i remena Improper tension Nepravilna zategnutost	Clean the drive pulley and the bottom of the belt. Očistite pogonsku remenicu i dno remena See Belt Tension section Pogledajte odjeljak Zategnutost remena
Gearmotor is hot. Motor zpčanika je vruć	This is a normal function of this part. The motor performs up to 150°F under normal operation. Normalna operacija; motor radi do 150°F u normalnim uvjetima	No action required. Nema akcije
The belt is moving in the wrong direction. Remen ide pogrešno u smjeru	The directional switch on the control is in the FWD (forward) position. Smjerni prekidač upravljača je u položaju FWD	Move the directional switch on the control to the REV (reverse) position. Pomaknite prekidač za smjer na upravljaču u položaj REV

► Recommended Spare Parts List / Lista de partes para repuesto recomendadas

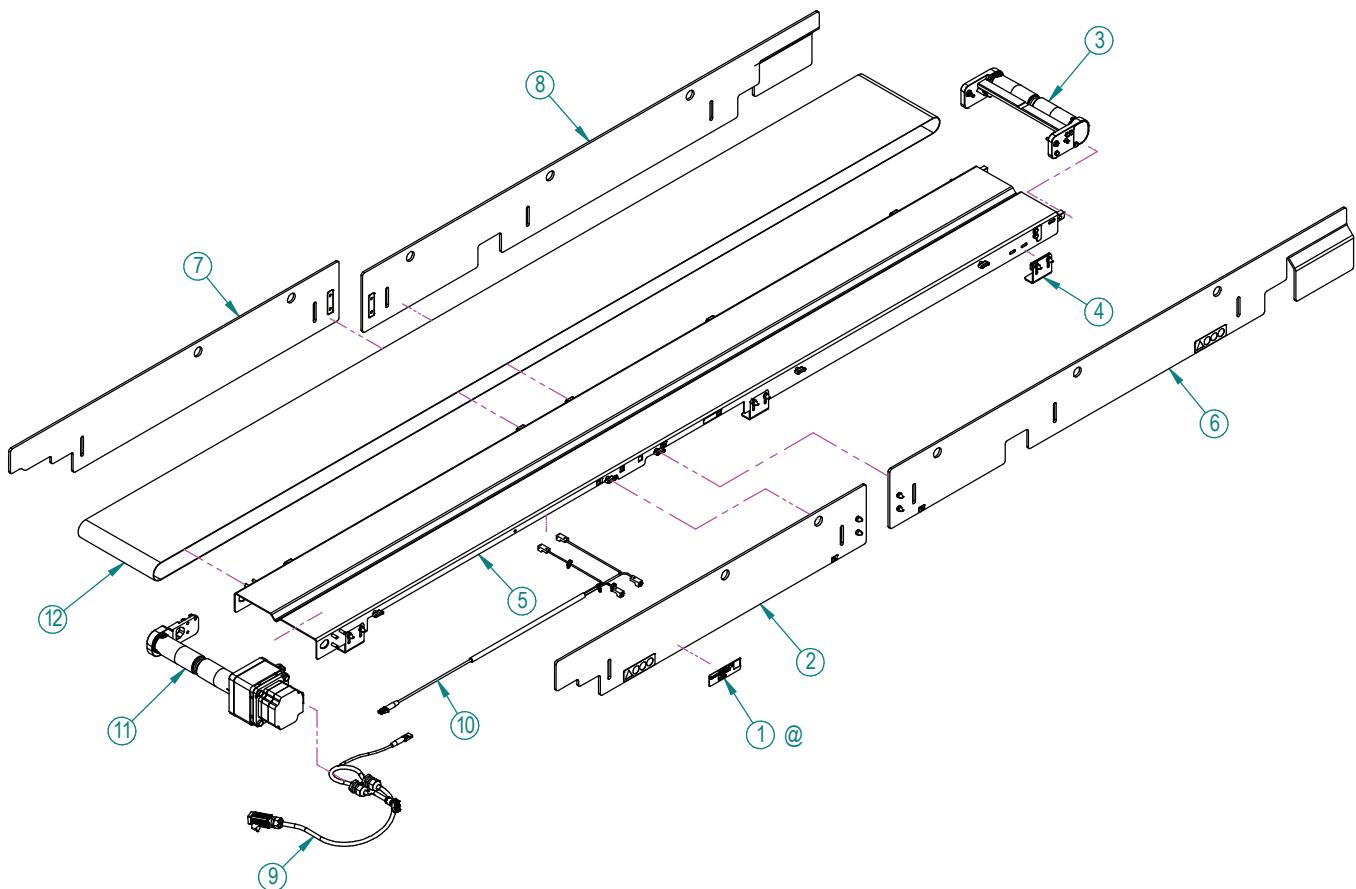
Part #	Description
310112-309730-PS24V	POWER SUPPLY 24VDC ADJUSTABLE
310112-315577-RLY12V-LED	RELAY 12VDC W/ LED, SPDT, 10A, 5 BLADE
310112-315577-RLY24V-LED	RELAY 24VDC W/ LED, SPDT, 10A, 5 BLADE
310112-309730-GDPRP1-ASY	ASSY GUARD 1 PREP TBL INFEED DRV SIDE
310112-309730-GDPRP2-ASY	ASSY GUARD 2 PREP TBL DISCHARGE DRV SIDE
310112-309730-GDPRP3-ASY	ASSY GUARD 3 PREP TBL INFEED FREE SIDE
310112-309730-GDPRP4-ASY	ASSY GUARD 4 PREP TBL DISCHARGE FREE SIDE
310112-309730-GDECU5-ASY	ASSY GUARD 5 ECU INFEED DRIVE SIDE
310112-309730-GDECU6-ASY	ASSY GUARD 6 ECU DISCHARGE DRIVE SIDE
310112-317027-GDECU7-ASY	ASSY GUARD 7 ECU INFEED FREE SIDE
310112-309730-GDECU8-ASY	ASSY GUARD 8 ECU DISCHARGE FREE SIDE
310112-309730-GM200-05	GEARMOTOR 200W BRUSHLESS DC 5:1
310112-290979-DRVBRNG-ASY	ASSY BEARING SPHERICAL 20 mm ID
310112-309730-CTL200-C-ASY	ASSY CONTROLLER 200W 230VAC
310112-315577-PWRCBL90-ASY	ASSY CABLE POWER MALE 3M W/PINS
310112-E-MFLTR	MAINS FILTER
310112-315577-SWITCH-3POS-ASY	3 POSITION SELECTOR SWITCH
PF20-BELT-UVB-250-1920	BELT FDA BLACK V-GUIDED
310112-315577-PSNSR-ASY	ASSY PROXIMITY SENSOR WIRING

* Part numbers refer to 1920 mm long conveyors. For other lengths, parts can be found by visiting qcconfig.com/serial.

* Brojevi dijelova odnose se na transportne trake duljine 1920 mm. Za druge duljine, dijelove možete pronaći na qcconfig.com/serial.

Exploded Views / Shematski prikazi

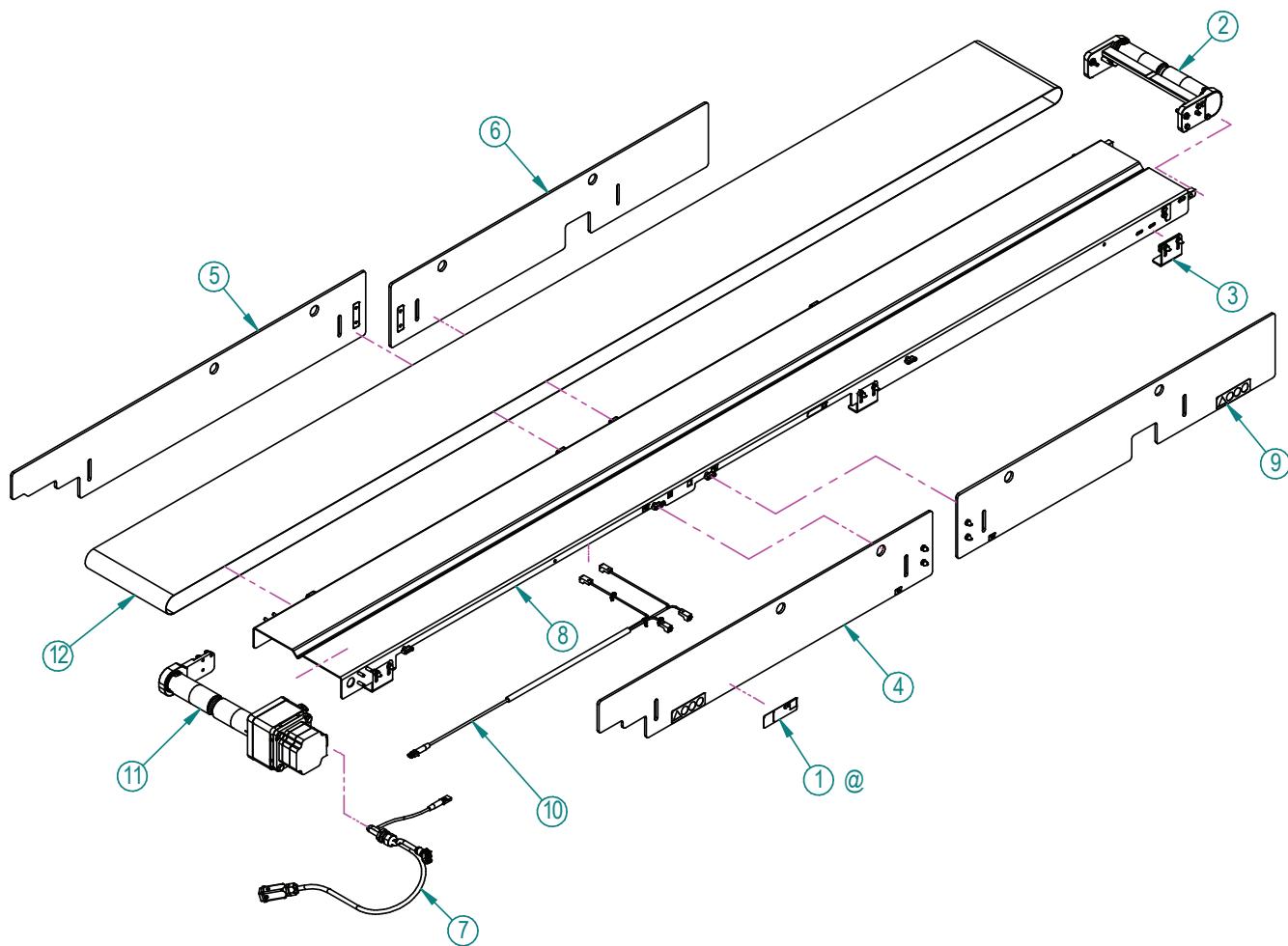
► Prep Conveyor Assembly / Pripremna montaža transportne trake



@ Part not sold separately
Dio se ne prodaje zasebno

#	Description	Part Number
1	LABEL CE SERIAL NUMBER QR CODE	310112-264421-LBLSNCE
2	ASSY GUARD 1 PREP DRIVE END DRIVE SIDE	310112-309730-GDPRP1-ASY
3	ASSY TAIL V-GUIDED	310112-309730-VTLASY
4	ASSY MOUNT ADJ 2-AXIS	310112-315577-MNT3-ASY
5	ASSY PRP FRAME W/TAIL ANCHORS	310112-328247-FRM-PRP-ASY
6	ASSY GUARD 2 PREP TAIL END DRIVE SIDE	310112-328247-GDPRP2-ASY
7	ASSY GUARD 3 PREP DRIVE END FREE SIDE	310112-328247-GDPRP3-ASY
8	ASSY GUARD 4 PREP TAIL END FREE SIDE	310112-328247-GDPRP4-ASY
9	CABLE PF52 PRP CONVEYOR	310112-334418-CBLCNV-PRP
10	ASSY PROXIMITY SENSOR WIRING	310112-334418-PSNSR-ASY
11	ASSY PF52 DRIVER WITH GEARMOTOR	310112-334418-VDRVASY
12	BELT FDA BLACK V-GUIDED	PF20-BELT-UVB-250-2578

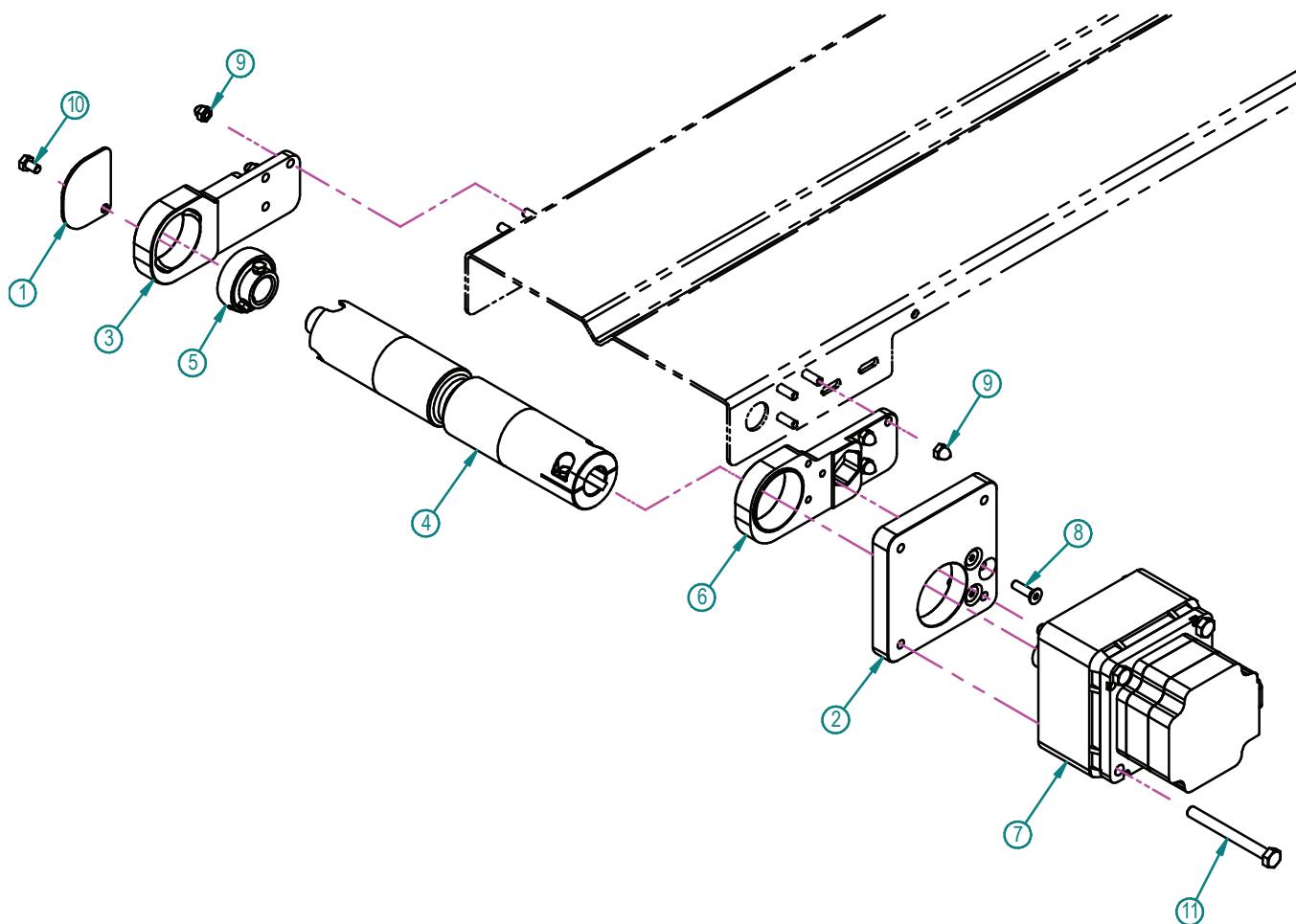
► ECU Conveyor Assembly / ECU sklop transportne trake



@ Part not sold separately
Dio se ne prodaje zasebno

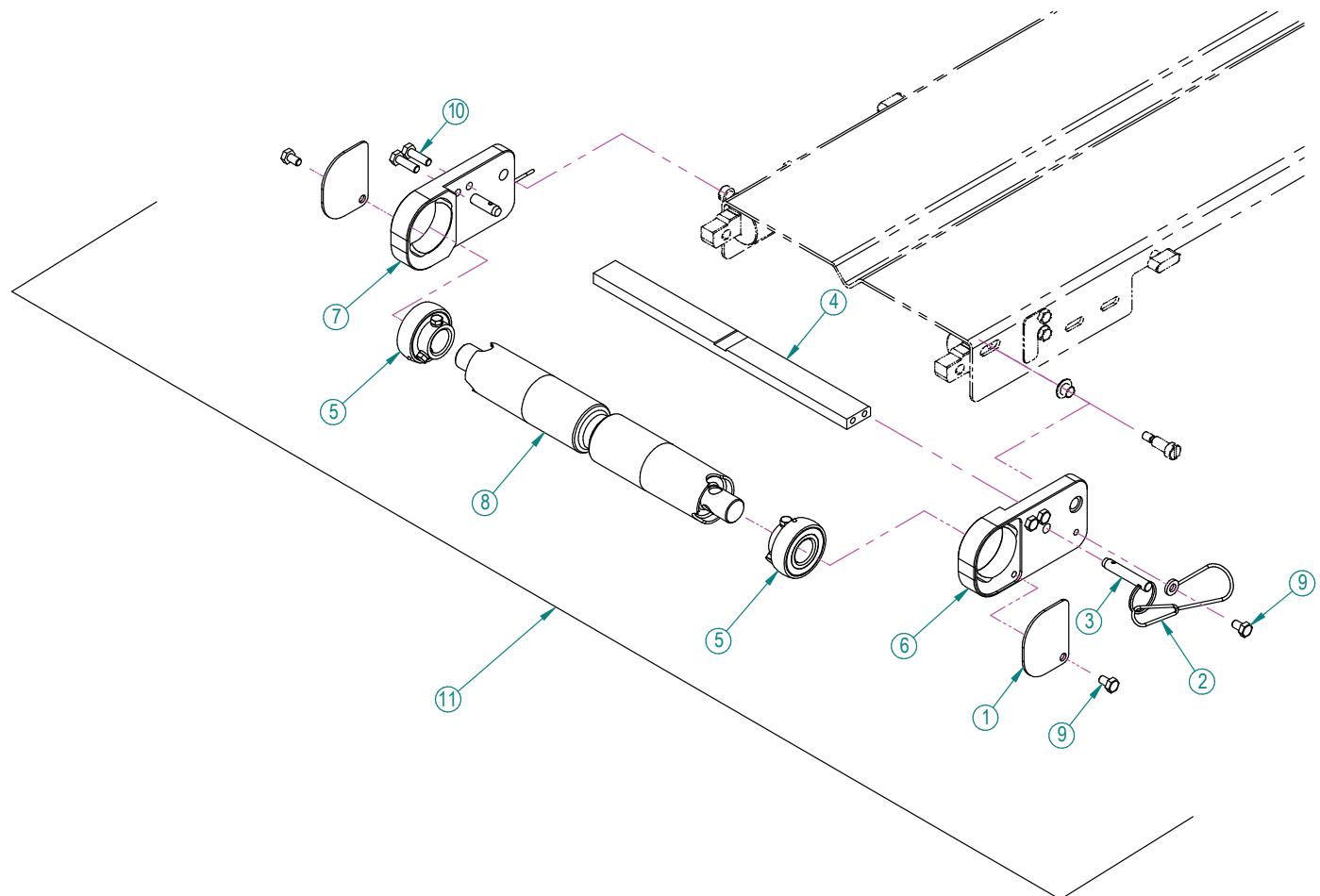
#	Description	Part Number
1	LABEL CE SERIAL NUMBER QR CODE	310112-264421-LBLSNCE
2	ASSY TAIL V-GUIDED	310112-309730-VTLASY
3	ASSY MOUNT ADJ 2-AXIS	310112-315577-MNT3-ASY
4	ASSY GUARD 5 ECU DRIVE END DRIVE SID	310112-328247-GDECU5-ASY
5	ASSY GUARD 7 ECU DRIVE END FREE SIDE	310112-328247-GDECU7-ASY
6	ASSY GUARD 8 ECU TAIL END FREE SIDE	310112-328247-GDECU8-ASY
7	CABLE PF52 ECU CONVEYOR	310112-334418-CBLCNV-ECU
8	ASSY PRP FRAME W/TAIL ANCHORS	310112-334418-FRM-ECU-ASY
9	ASSY GUARD 6 ECU TAIL END DRIVE SIDE	310112-334418-GDECU6-ASY
10	ASSY PROXIMITY SENSOR WIRING	310112-334418-PSNSR-ASY
11	ASSY PF52 DRIVER WITH GEARMOTOR	310112-334418-VDRVASY
12	BELT FDA BLACK V-GUIDED	PF20-BELT-UVB-250-2730

► Drive Assembly / Sklop pogona



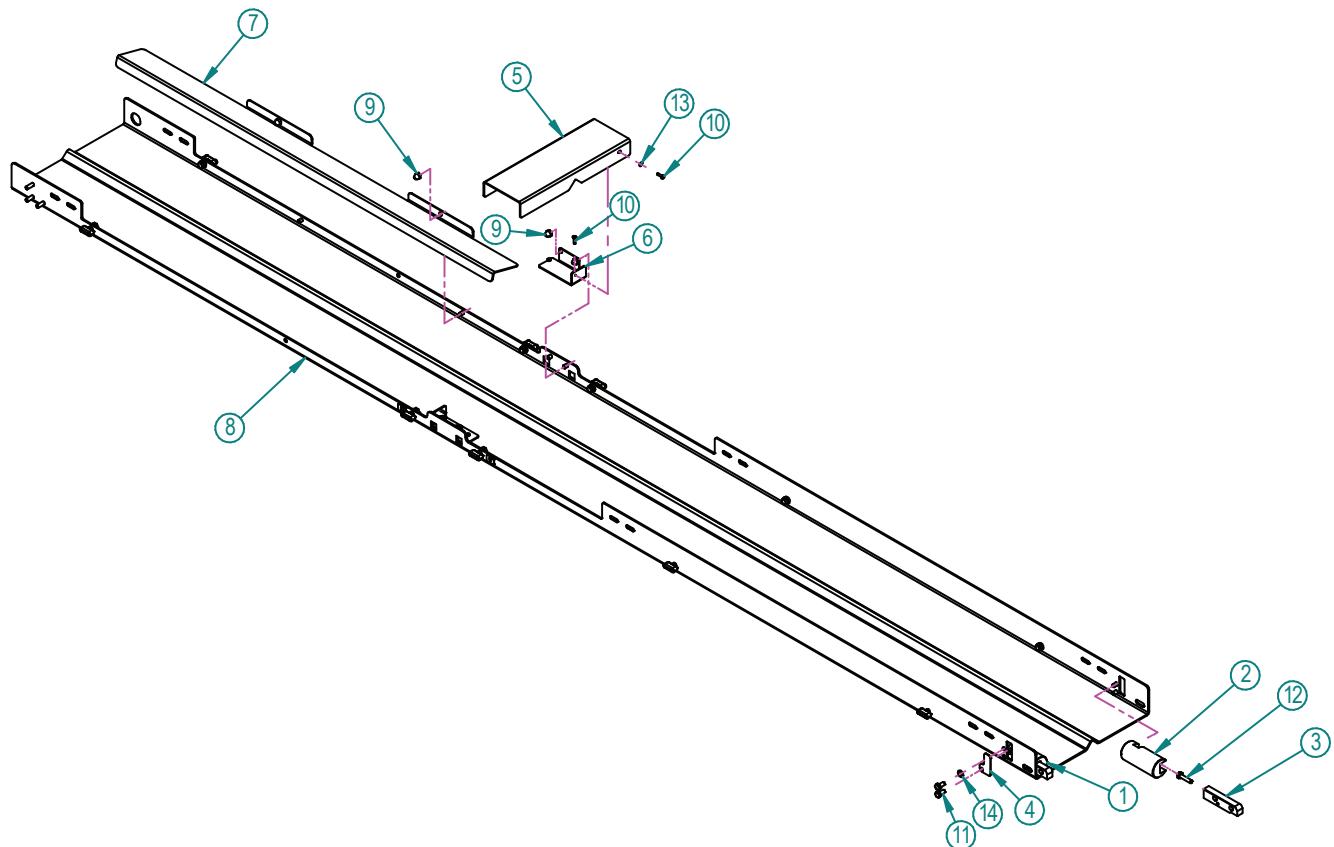
#	Description	Part Number
1	BEARING COVER	310112-264421-BCVR2
2	MOUNT G'MTR SUBPLATE	310112-264421-MTRMNT2
3	BEARING HOUSING DRIVE	310112-290979-BHSNG
4	ASSY DRIVE PULLEY V-GUIDED PF45	310112-290979-DPLYASY-V
5	ASSY BEARING SPHERICAL 20 mm ID	310112-290979-DRVBRNG-ASY
6	BLOCK DRIVE MOUNTING	310112-309730-DRVMTN
7	GEARMOTOR 200W BRUSHLESS DC 5:1	310112-334418-GM200-05
8	SCREW FLAT HEAD CAP M6 X 1 X 22 SS	FHCS-M06X100X022-SS
9	ACORN NUT STAINLESS STEEL M6	HEA-2014-00
10	SCREW HEX HEAD CAP M6 X 1 X 10 SS	HHCS-M06X100X010-SS
11	SCREW HEX HEAD CAP M8 X 1.25 X 80 SS	HHCS-M08X125X080-SS

► Tail Assembly / Repnido



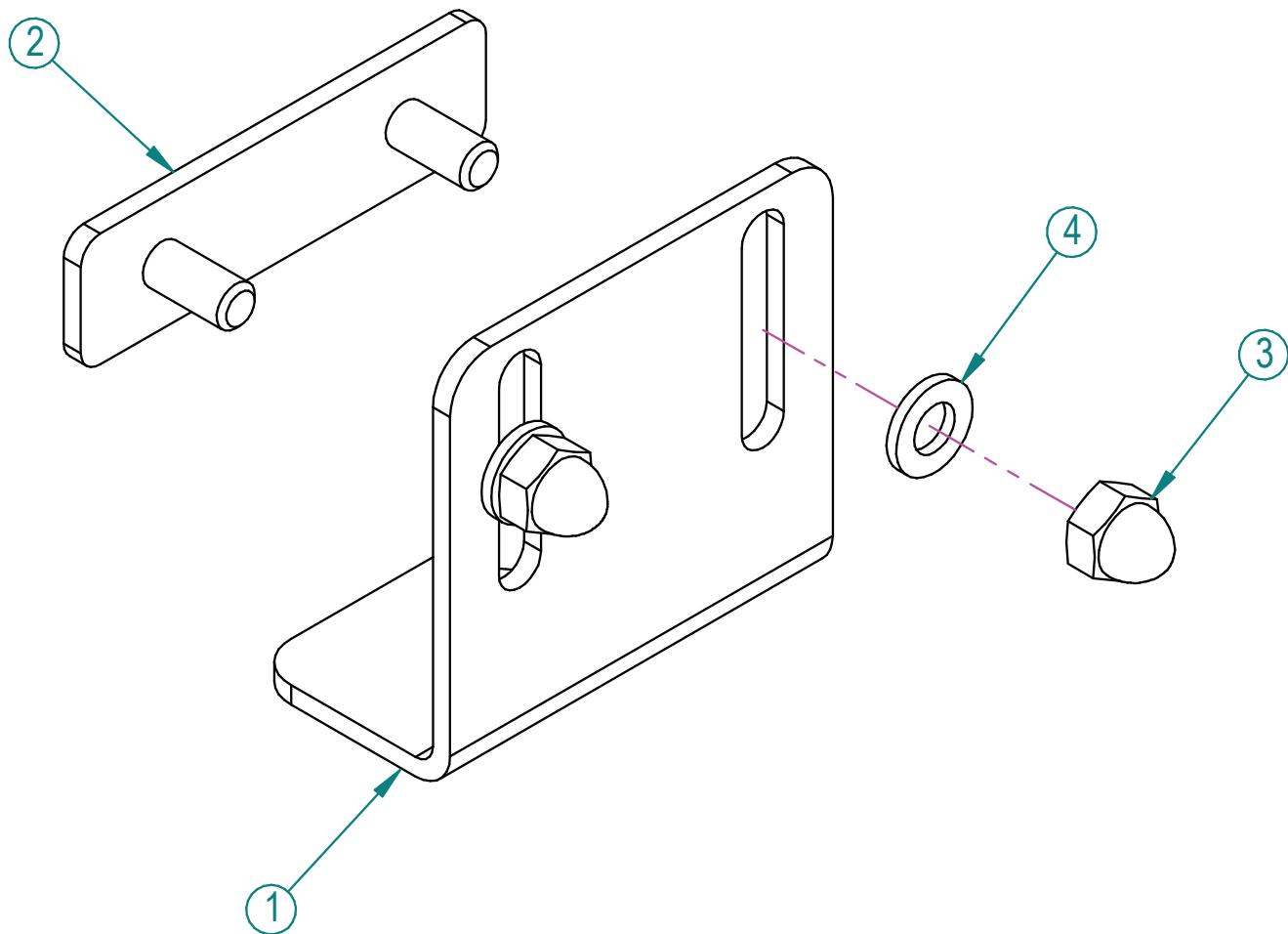
#	Description	Part Number
1	BEARING COVER	310112-264421-BCVR2
2	NYLON LANYARD	310112-264421-LAYRD
3	PIN QUICK RELEASE	310112-264421-PIN3
4	TAIL SPACER	310112-264421-TLSPCR
5	ASSY BEARING SPHERICAL 20 mm ID	310112-290979-DRVBRNG-ASY
6	TAIL BLOCK LH	310112-309730-TLBLKLH
7	TAIL BLOCK RH	310112-309730-TLBLKRH
8	TAIL PULLEY V-GUIDED	310112-309730-VTLPLY
9	SCREW HEX HEAD CAP M6 X 1 X 10 SS	HHCS-M06X100X010-SS
10	SCREW HEX HEAD CAP M6 X 1 X 20 SS	HHCS-M06X100X020-SS
11	ASSY TAIL V-GUIDED	310112-309730-VTLASY

► Frame Assembly / Sklop okvira



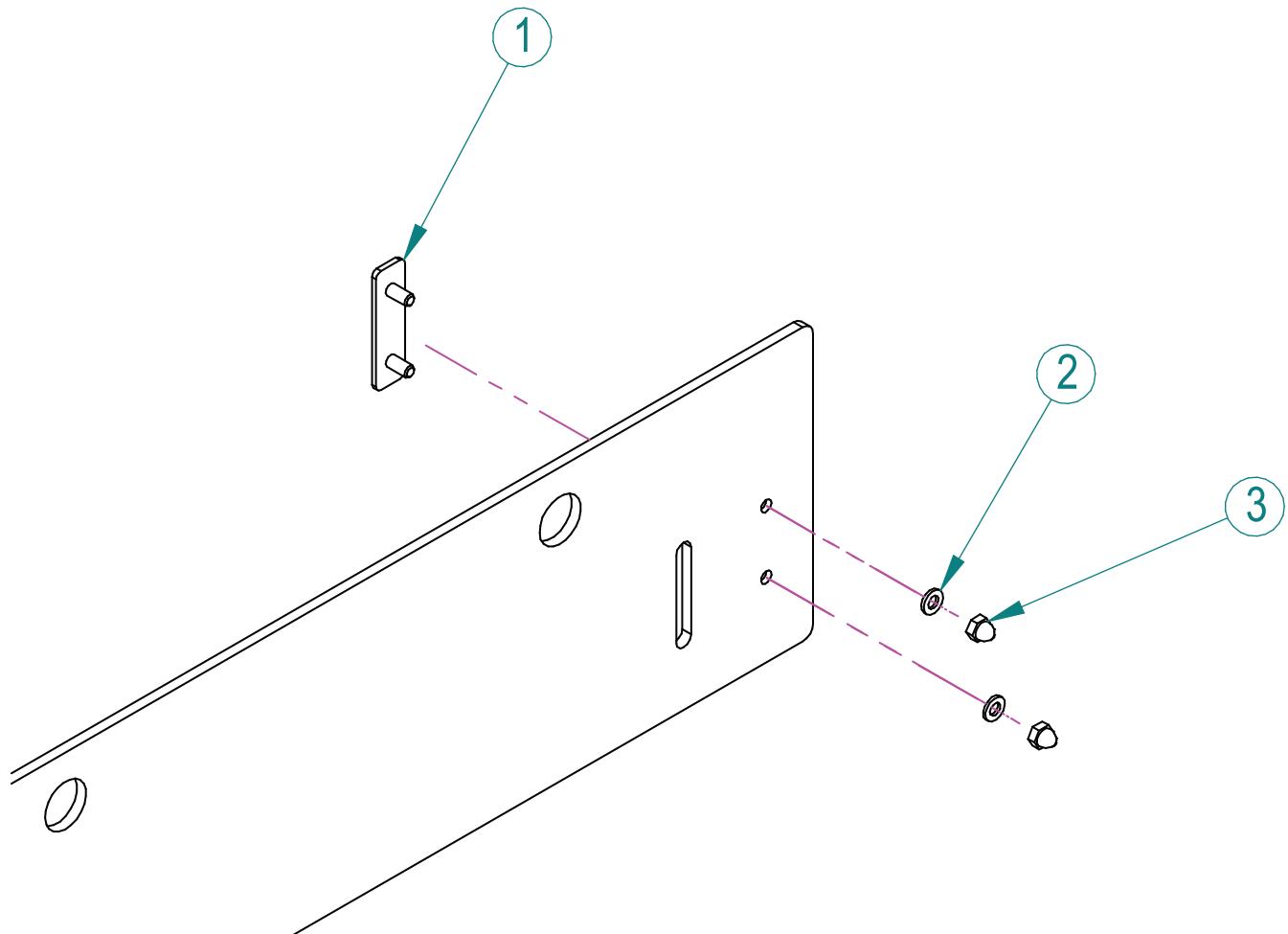
#	Description	Part Number
1	TAIL ANCHOR ROUND LH	310112-264421-TLANCR-LH
2	TAIL ANCHOR ROUND RH	310112-264421-TLANCR-RH
3	BLOCK SLIDER TAIL	310112-264421-TLSLDR
4	COVER TENSIONER WINDOW	310112-264421-WCVR2
5	GUARD SENSOR WIRE	310112-309730-SNSRGD
6	MOUNT SENSOR	310112-309730-SNSRMNT
7	TROUGH WIRE CARRIER	310112-309730-WTRGH
8	ASSY PRP FRAME W/TWIST LOCKS	310112-328247-FRM-PRP
9	ACORN NUT STAINLESS STEEL M6	HEA-2014-00
10	SCREW HEX HEAD CAP M3 X .5 X 12 SS	HHCS-M03X050X012-SS
11	SCREW HEX HEAD CAP M6 X 1 X 12 SS	HHCS-M06X100X012-SS
12	SCREW HEX HEAD CAP M6 X 1 X 25 SS	HHCS-M06X100X025-SS
13	WASHER M3 X 7 MM OD X .5 MM THICK SS	WSHF-M03X070X05-SS
14	WASHER M6 X 12 OD X 1.6 THK SS	WSHF-M06X12X16-SS

► Mount Assembly / Montažni sklo



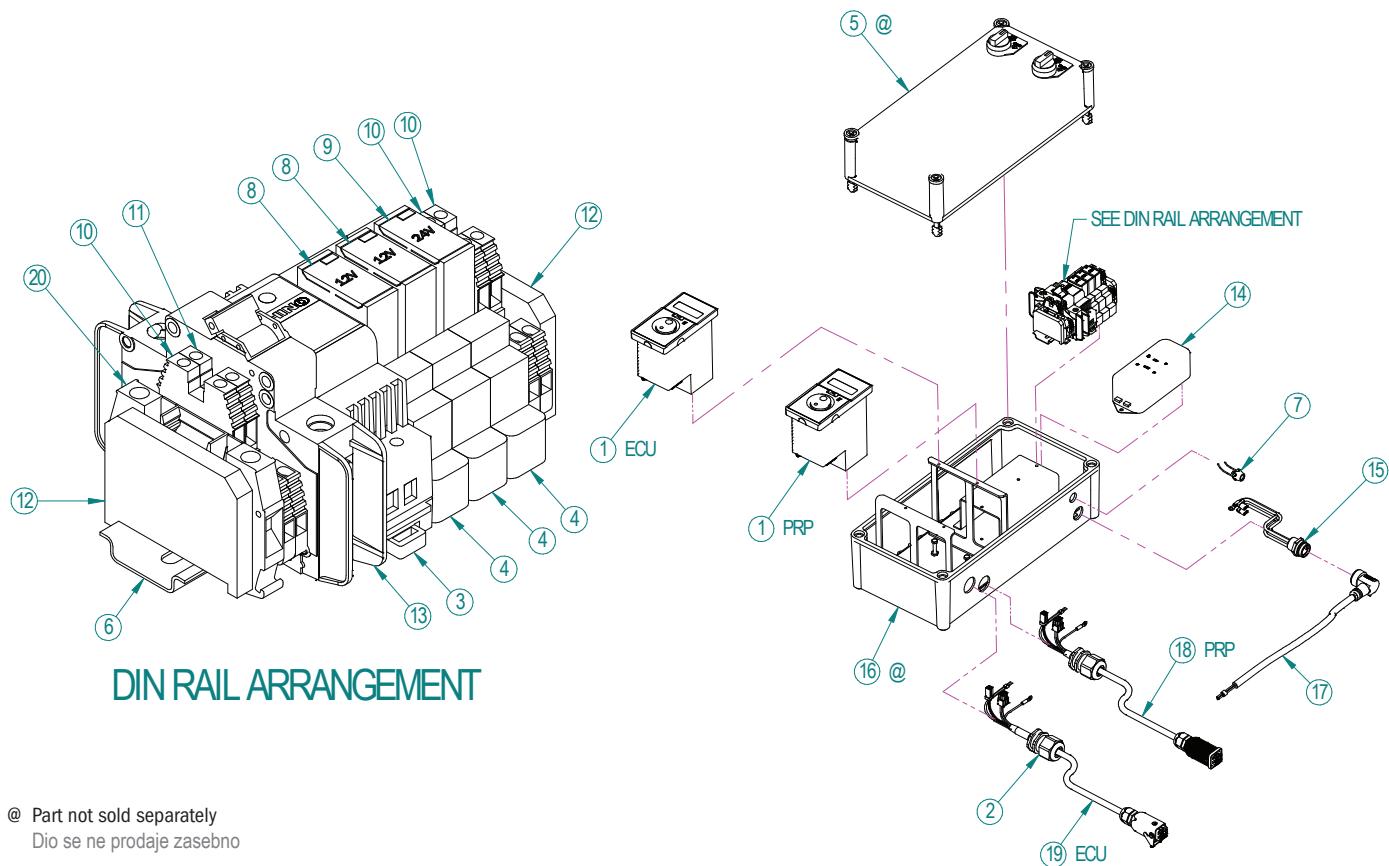
#	Description	Part Number
1	MOUNT 2-AXIS SLOTTED BASE WITH WEARSTRIP	310112-281662-MNT3
2	LOCK PLATE WITH STUDS	310112-290979-MNTLP
3	ACORN NUT STAINLESS STEEL M6	HEA-2014-00
4	WASHER M6 X 12 OD X 1.6 THK SS	WSHF-M06X12X16-SS

► Plastic Guard Assembly / Sklop plastično štitnika



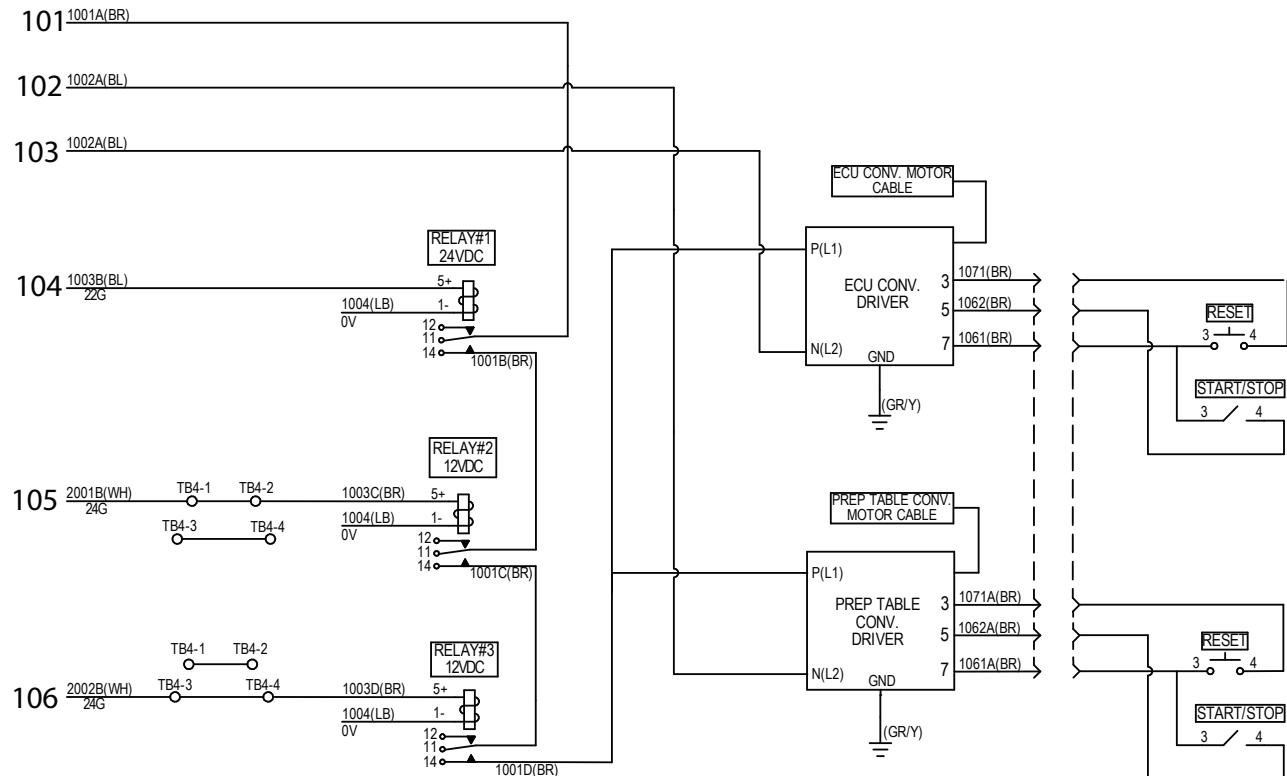
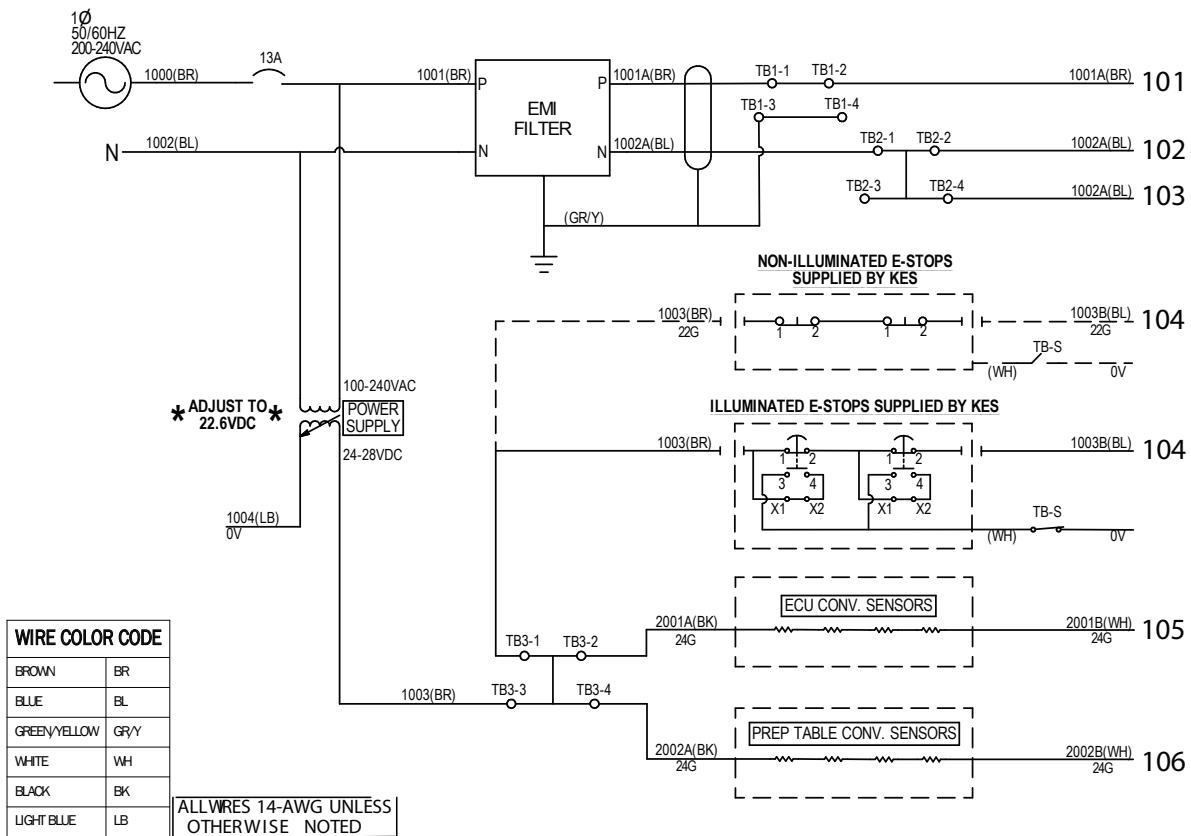
#	Description	Part Number
1	LOCK PLATE WITH STUDS	310112-290979-MNTLP
2	WASHER M6 X 12 OD X 1.6 THK SS	WSHF-M06X12X16-SS
3	ACORN NUT STAINLESS STEEL M6	HEA-2014-00

► Panel Assembly / Sklop panela



#	Description	Part Number
1	ASSY CONTROLLER 200W 230VAC	310112-309730-CTL200-C-ASY
2	ASSY CORD GRIP SPLIT GLAND WITH NUT	310112-309730-HCG-ASY
3	POWER SUPPLY 24VDC ADJUSTABLE	310112-309730-PS24V
4	SOCKET 1 POLE 700-HK SCRWT TERM	310112-309730-SCKT
5	ASSY COVER DUAL DRIVE	310112-315577-CVR-ASY
6	DIN RAIL 5.5"	310112-315577-DRAIL-MED
7	RECEPTACLE M12 FEMALE 4 POLE	310112-315577-M12F4P
8	RELAY 12VDC W/ LED, SPDT, 10A, 5 BLADE	310112-315577-RLY12V-LED
9	RELAY 24VDC W/ LED, SPDT, 10A, 5 BLADE	310112-315577-RLY24V-LED
10	TERMINAL BLOCK-DBL LVL(NOT CONNECTED)	310112-315577-TB-D12
11	TERMINAL BLOCK-DBL LVL (CONNECTED)	310112-315577-TB-D12X
12	TERMINAL BLOCK END CLAMP	310112-315577-TB-END
13	CIRCUIT BREAKER 13 AMP	310112-328127-CB13A
14	EMI MAINS FILTER 12A	310112-328127-MFLTR
15	ASSY POWER RECEPTACLE 15A	310112-328127-PWRCPY-ASY
16	ASSY ENCLOSURE BASE DUAL DRIVE	310112-330486-ENCLBSE-ASY
17	ASSY POWER CABLE RT ANGLE W/FERRULES	310112-330486-PWRCBL90-ASY
18	ASSY CABLE DRIVE-MOD BLK LVR F 1.0M	310112-331561-CBL-DRV-MBPF-10
19	ASSY CABLE DRIVE-MOD TAN LVR F 1.0M	310112-331561-CBL-DRV-MTLF-10
20	TERMINAL BLOCK SWITCHING	310112-334418-TBSWCH

► Wiring Diagram / Dijagram ožičenja



EC Declaration of Conformity

We,

QC Industries, LLC
4057 Clough Woods Dr
Batavia, OH 45103-2587, USA
Phone: +1-513-753-6000

declare under our sole responsibility that the products,

PF Series Conveyor

to which this documentation relates, is in conformity with the following documents:

► Directives

Machinery Directive 2006/42/EC

EN 12100:2010 Safety of Machinery

Complies with the following basic requirement sub-chapters: 1.1.2, 1.1.3, 1.1.5, 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.6, 1.2.7, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.3.6, 1.3.8, 1.3.8.1, 1.4.1, 1.4.2.2, 1.5.4, 1.5.9, 1.5.11, 1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.6.5, 1.7.1.1, 1.7.2, 1.7.3, 1.7.4, 2.1.b, 2.1.c, 2.1.d, 2.1.e, 2.1.2.

To comply with the Machinery Directive, E-Stops must be installed and tested per the installation instructions in the Installation, Operation & Maintenance Manual. The conveyor will not run until E-Stops have been properly installed.

The above-referenced equipment is in conformity with all safety-related clauses of

EN 60204-1:2006+A1:2009 Safety of Machinery - Electrical Equipment of Machines

Electromagnetic Compatibility Directive 2014/30/EU

QC Industries fully complies with the WEEE directive for the disposal of waste electrical and electronic equipment in line with legislation applicable in the EU member states. Components marked with the crossed out wheeled bin symbol should not be discarded as common solid waste and should be recycled in compliance with the WEEE directive or sent back to QC Industries for proper disposal.

► Noise Declaration

When properly installed, the sound produced by these conveyors is less than 70 dB.

► Person authorized to compile the technical file

TUV UD Product Services Ltd UK

Belasis Business Centre

Coxwold Way,

Billingham

Teeside

TS23 4EA

England

Relevant information will be transmitted via e-mail in response to a reasoned request by national authorities. (Regulatory Inquiries Only)

Name	Dave Endres	Company	QC Industries, LLC
Signature		Address	4057 Clough Woods Dr Batavia, OH 45103-2587 USA
Title	President	Date of Declaration	August 1, 2018

EC Izjava o Sukladnosti

Mi,

QC Industries, LLC
4057 Clough Woods Dr
Batavia, OH 45103-2587, USA
Phone: +1-513-753-6000

izjavljujemo pod svojom isključivom odgovornošću da su proizvodi,

Transportne trake serije PF

na koje se ova dokumentacija odnosi, u skladu sa sljedećim dokumentima:

► Direktive

Direktiva o strojevima 2006/42/EC
EN 12100:2010 Sigurnost strojeva

CUsaglašeno sa sljedećim osnovnim zahtjevima potpoglavlja: 1.1.2, 1.1.3, 1.1.5, 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.6, 1.2.7, 1.3.1, 1.3.2, 1.3.3, 1.3.4, 1.3.6, 1.3.8, 1.3.8.1, 1.4.1, 1.4.2.2, 1.5.4, 1.5.9, 1.5.11, 1.6.1, 1.6.2, 1.6.3, 1.6.4, 1.6.5, 1.7.1.1, 1.7.2, 1.7.3, 1.7.4, 2.1.b, 2.1.c, 2.1.d, 2.1.e, 2.1.2.

Kako bi bili u skladu s Direktivom o strojevima, gumbovi Hitnog zaustavljanja moraju biti ugrađena i ispitana prema uputama za instalaciju u Priručniku za instalaciju, rad i održavanje. Transportne trake neće raditi sve dok gumbovi hitnog zaustavljanja nisu pravilno ugrađeni.

Gore navedena oprema u skladu je sa svim sigurnosnim klauzulama
EN 60204-1:2006+A1:2009 Sigurnost strojeva – Električna oprema strojeva Direktiva o elektromagnetskoj kompatibilnosti 2014/30/EU

QC Industries je u potpunosti usklađen s WEEE direktivom za zbrinjavanje otpadne električne i elektroničke opreme u skladu sa zakonima koji se primjenjuju u državama članicama EU. Komponente označene simbolom precrteane kante za otpatke na kotačima ne smiju se odlagati kao uobičajeni čvrsti otpad i trebaju se reciklirati u skladu s WEEE direktivom ili poslati natrag QC Industries-u na pravilno odlaganje.

► Izjava o Buci

Kada su pravilno instalirani, zvuk koji proizvode ove transportne trake je manji od 70 dB.

► Osoba ovlaštena za sastavljanje tehničke dokumentacije

TUV UD Product Services Ltd UK

Belasis Biznis Centar
Coxwold Way,
Billingham
Teeside
TS23 4EA

Relevantne informacije bit će proslijeđene e-poštom kao odgovor na obrazloženi zahtjev nacionalnih tijela. (Samo za upite o propisima)

Ime Dave Endres



Potpis

Titula President

Društvo

QC Industries, LLC

Adresa

4057 Clough Woods Dr
Batavia, OH 45103-2587 USA

Datum izjave

1. August, 2018

Notes / Bilješke

Notes / Bilješke

Notes / Bilješke

Service Record / Servisni Zapis

Date / Datum	Service Performed / Izvršeni Servisa
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- Serial Number / Serijski broj

Service Record / Servisni Zapis

- Serial Number / Serijski broj
