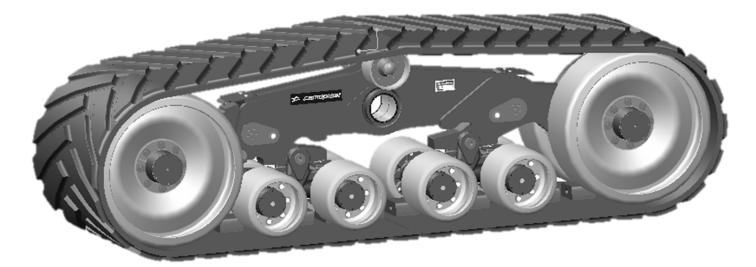
# **OPERATION AND MAINTENANCE MANUAL**

**CPB-515** 

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### 1.0 FORWARD

This manual provides important operation and maintenance instructions to maximize the benefits of the Camoplast Trailed Track System (TTS) and to ensure performance in the field for many years to come.

#### **Literature Information**

This manual was prepared with the latest information available at the time of publication. Read this manual carefully before operating or servicing the undercarriage(s).

The photos, illustrations, and data used in this manual were current at the time of printing, but due to possible production changes, your undercarriage may vary slightly. Camoplast reserves the right make changes to new production undercarriages as necessary without notification.

This document must be considered as an integral part of the rubber track system, it must always be available for reference near the machine, even in the case of sale, and until end of life.

Should the operations and maintenance manual supplied with the track system be damaged or missing, please see your dealer to request another copy and/or contact Camoplast immediately.

#### **Maintenance Intervals**

Use the pulling machine hour meter to determine servicing intervals. Calendar intervals are also shown and can be used instead of hour intervals. Recommended service should always occur on the interval that occurs first.

Under extremely dusty or wet operating conditions more frequent lubrication may be needed.

Perform service on items at multiples of the original requirement. For example, at every annual or 250 hour service interval, also service items listed under monthly or 100 hours, weekly or 50 hours, and daily or 10 hours.

### **Camoplast Product Identification Number**

The track system, PIN plates will display the model and manufacturing date and sequence number on both LH and RH undercarriage system. If a serialized axle is also provided by Camoplast, it will also have a plate installed in the center of the axle.

### 2.0 SAFETY

### 2.1 Important Safety Information

Read and understand this manual, the operation manual for the equipment the undercarriage is mounted to, and the manual for all attachments before operating, servicing or repairing an undercarriage.

Most personal injuries occurring during equipment operation, maintenance, or repair are caused by failure to observe basic safety rules and precautions. In most cases, an injury can be avoided by recognizing hazardous situations before an injury occurs.

A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation and maintenance of this product can be hazardous and may result in injury or death.

Do not perform any lubrication, maintenance or repair on this product, until you have read and understood this Operators manual.

Safety precautions and warnings are provided in this manual. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

Not every possible circumstance that might involve a potential hazard can be anticipated. The warnings in this publication are not all inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by Camoplast is used, you must satisfy yourself that it is safe for you and for others.

You must also make sure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose. The information, specifications, and illustrations in this publication are on the basis of information that was available at time of printing.

### **3.0 GENERAL INFORMATION**

### 3.1 Technical Description

The Camoplast TTS track system allows machines to move on muddy and soft soils which have limited carrying capacity. The wide supporting surface of the track system also reduces soil compaction.

Camoplast track systems are mounted on an axle frame. Certain equipment requires a special axle to be installed prior to track system installation. Please contact your dealer for more information.

Camoplast track systems are designed to maximize the performance and productivity of your pull-behind applications with:

- Even weight distribution to easily and safely handle uneven terrain
- Excellent flotation to minimize soil disturbance (40 70% ground pressure reduction vs. tires)
- Maximum reliability to assure you get the job done anytime, anywhere

TTS track systems use Camoplast rubber tracks, specifically designed for pull-behind applications to provide:

- Reduced vibration during transport
- Lower turning resistance
- Minimal soil disturbance
- Long life

The patented undercarriage design incorporates independent movement of the midrollers both front-rear and side-side delivering:

- Even weight distribution, allowing tracks to follow ground contours
- A smooth ride over rough terrain
- Reduced point loads increasing longevity of the undercarriage and implement components

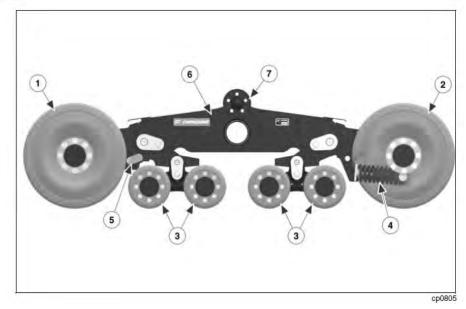
Besides the above listed characteristics, Camoplast rubber track systems introduce other advantages:

- Reduced power absorption on soft soils
- Minimal possibility of rubber track de-tracking from the undercarriage
- Adequate roading speed
- Limited soil damage, soil even during end of field maneuvers
- Reduced risk of self-sinking in the mud in case of slipping

### 3.2 Track System Components

#### Trailed Track System Terminology

- 1. Front Idlers
- 2. Rear Idlers
- 3. Midrollers
- 4. Tensioner
- 5. Alignment Adjustment bolt
- 6. Track Frame
- 7. Top Roller



#### Frame

The main frame consists of a weldment which hangs the front and rear link arms. The front alignment yoke and rear tension link are cast members, allowing for close tolerance machining and structural rigidity.

#### Axles

Front and rear axles are machined from the yoke castings, allowing for dimensional stability and few moving parts. They feature oil bath hubs mounted on tapered bearings and mechanical seals for extreme working conditions. Each hub has its own oil reservoir with access port for maintenance and checking oil levels.

#### **Idlers and Midrollers**

The idlers have the function of guiding the rubber track by acting on the lateral surfaces of the guide lugs. Inner sides of idlers are subject to wear, but can be rotated to extend life.

The midrollers distribute the majority of the machine weight to the ground. They are mounted on pivoting arms connected to the frame reducing vibration and shock loads.

#### **Tensioning system**

The tensioning system is located between the 2 rear idlers. The tension force is provided by a mechanical spring mechanism. Track tension is provided by the spring and does not need adjustment during operation and changing field conditions. Provisions are made to compress the spring allowing for removal of idlers and track assemblies during maintenance and servicing.

#### Rubber track

The rubber tracks are manufactured with high quality rubber and high strength steel cabling inside for superior durability and reliability. The tread layout ensures good flotation, excellent life, and self-cleaning characteristics.

(in.) (in.) (in.) (in.) (in.) Per Pair (lbs)	Flexhaul Models	Track Width (in.)	Wheelbase (in.)	Overall Height (in.)	Overall Length (in.)	Ground Contact - Per Pair (in^2)	Capacity - Per Pair (Ibs)
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#### 3.3 Specifications and Dimensions

25.0					
25.0	67.4	36.1	103.5	3370	70,000
30.0	67.4	36.1	103.5	4044	70,000
36.0	67.4	36.1	103.5	4853	70,000
30.0	100.1	40.3	136.2	6006	80,000
	36.0	36.0 67.4	36.0 67.4 36.1	36.0 67.4 36.1 103.5	36.0 67.4 36.1 103.5 4853

100 Series						
100-3613	36.0	100.1	40.3	136.2	7207	100,000
100-3612	36.0	111.3	40.3	147.4	8014	100,000

### 3.4 Weight Limitations

Camoplast track systems are limited to operating weights as listed in the table below. Do not exceed these weight limitations or track system damage or component failure may result.

Series	Total Scale Weight Capacity/set				
Series	Kg	Lbs			
70	31,750	70,000			
80	36,290	80,000			
100	45,360	100,000			



### WARNING

Exceeding maximum weight capacity may result in equipment and property damage, injury, death and void warranty coverage

### 3.5 Transport Limitations

Camoplast track systems are designed for field use and field operational speeds. High speed transport, especially with loaded implements, is not recommended and may result in track damage due to heat. If extended transport is required between operating locations, the following speed and duration limits should be observed:

Operating Condition	Transport Speed (Maximum)	Transport Duration (Maximum)
Empty	15 mph (24 kph)	30 min.
Loaded	10 mph (16 kph)	15 min.



### WARNING

Exceeding speed limitations may result in equipment and property damage, injury, death and void warranty coverage.

If additional distances are required, a 30 minute cool down period is recommended before transport is resumed. Absolute speed and duration levels may vary, depending on system type and ambient conditions. Limitations as listed, help avoid system heat buildup that could cause reduction in track life.

#### 3.6 Operational Guidelines

- Any application differing from the ones prescribed in this manual is to be considered improper and potentially dangerous.
- Correct track tension is required for best performance and track life.
- Camoplast TTS track systems can work in extreme conditions: for operator and machine safety, be sure to know your surroundings.
- Camoplast TTS rubber track systems are free to pivot around the main axle following ground conformation. During transition over uneven ground terrain, check for interferences and move slowly to avoid over oscillating the undercarriage.
- Overall width and height of machine/equipment with Camoplast TTS track systems could differ from the original width and height with tires. Be sure to know actual machine height and width as well as width restrictions prior to operation.
- Cross large ground irregularities with suitable speed reduction and/or proper incidence angle. In particular, when high, sharp bumps are crossed move forward slowly to avoid shocks on the machine.
- Camoplast TTS track systems do not damage standard road-bed constructions. Operators must know and respect road traffic laws.
- Rubber tracks have not been designed for extended use on the road. Camoplast is not responsible for track and system damage resulting for extended road use. Long road periods and/or roading at higher than recommended maximum speeds may cause premature wear or failure of the track or wheels. To reduce damage during roading decrease overall machine weight and decrease machine speed, see "Transport Limitations" section for further information.
- Long runs on side slopes increase the wear on the side of guide lugs and idlers.
- Keep material out of the undercarriage. Inspect undercarriage daily and remove any material as necessary. In some conditions inspect more frequently.
- If a machine becomes stuck, clear away as much material from the undercarriage as possible prior to pulling the machine out.
- Avoid low speed, high torque turns and operation(s) especially when loaded. Avoid spot turning.
- •
- Configure drawbar and hitch correctly during field operation(s).
- Use caution when operating track systems in loose, flowing material. Loose material can become trapped between track and idlers, resulting in track damage.
- Keep material out of the undercarriage. This may require scraping material out of tight places and in some conditions require frequent inspection and cleaning

### 3.7 Track Break-in Procedures

Guide lug wear is reduced when correct break-in procedures are followed. During the break-in period, rolling components undergo a polishing-in process to achieve a smooth steel to rubber interface with the guide lug. Rubber uses dust and dirt as a dry lubricant during break-in and operation to minimize heat and reduce rubber stickiness. New tracks should be exposed to dry and dusty soil conditions as soon as possible. Operation without dust or soil in the system, **especially during high speed roading**, generates high levels of damaging heat. If roading must be done, a dry lubricant such as soil, talc, graphite, oil dry or cat litter should be applied to the guide lugs periodically during roading until field operation resumes.

### NEW SYSTEMS REQUIRING EXTENDED TRANSPORT SHOULD BE CARRIED ON A FLAT BED AND NOT ROADED DO NOT ROAD A NEW SYSTEM WITHOUT FIRST CHECKING ALIGNMENT AND INTRODUCING THE TRACKS TO DIRT OR DRY LUBRICANT

### 4.0 TRACK SYSTEM INSTALLATION

The Camoplast track systems are mounted on an axle frame. Certain equipment requires a special axle to be installed prior to track system installation. Contact your dealer for more information and to determine if the track system can be installed on your implement.

### 4.1 Handling of the Track System

The track systems can be handled by fork lifts lifting the machine from the base or by hoists using textile bands.



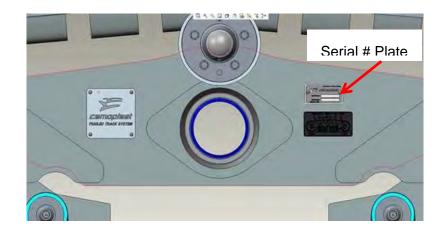
WARNING

Danger of crushing. Use suitable lifting devices (capacity at least 9000 lbs (4100Kg)), wear safety equipment and observe the safety rules.

If using a fork lift use for handling operations, be careful not to damage the rubber track. Metal chains or cables are not recommended

### 4.2 Track System Installation

- 1. Clean the implement thoroughly before proceeding with the installation. Removal of dirt and debris makes access to the frame and attaching fasteners easier.
- 2. Move the implement to a hard, level surface to ensure a stable work area to support the implement during the track system installation.



**IMPORTANT:** Locate the identification tags, as shown above, on both undercarriages, and record the model number and <u>serial numbers</u> on warranty certificate for your records.

3. Raise and support implement such that the rear tires are just off the ground.



### IMPORTANT

Safety of the installation depends on the right operation in lifting and supporting the machine. Check the work area thoroughly and work in a level area. Respect safe operating practices, operate in conditions of enough light. Make sure the free spaces of the work area are suitable for the dimensions of the parts to be handled and for the lifting equipment maneuvers. Be careful: risk of injury.

- 4. Remove the tire and rim assemblies.
- 5. Remove the axle and hub assemblies from the implement frame (as required).
- 6. Install track fitment axle. For two axle midroller track systems, make sure the stabilizer brackets on the axle are facing to the front of the implement. Tighten mounting hardware.



### WARNING

Danger of crushing. Use suitable lifting devices (capacity at least 9000 lbs (4100Kg)), wear safety equipment and observe the safety rules.

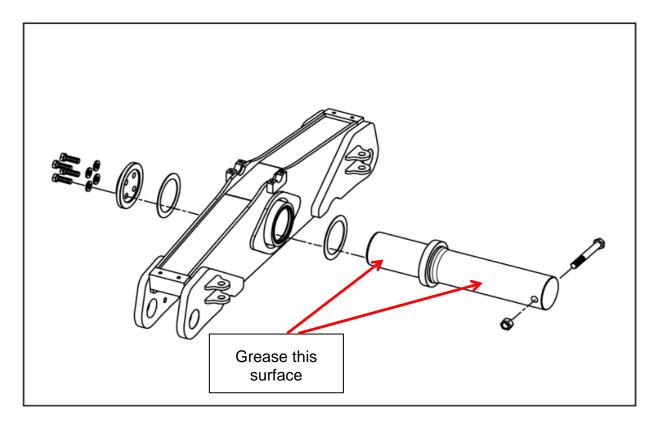
In case of fork lift use for handling operations, be careful not to damage the rubber track. Metal chains or cables are not recommended.



### IMPORTANT

Should a motorized lifting device be used, assistance on ground during operation of handling, coupling and assembly is needed.

Do not stand between lifting device and axle assembly when mounting axles to implement. Be careful: risk of injury.



- Lightly grease machined surface of center pivot pin and insert into the receiver end of the axle. Rotate the pin to align the rear mounting hole in the receiver pin. Install the bolt and locknut provided with the kit. Tighten pin bolt.
- 8. Install the inner thrust washer against the axle pin flange.
- 9. Apply a light amount of grease to the center pivot pin.
- 10. Slide the undercarriage onto the axle pin. NOTE: Care must be exercised to avoid damage to the lip seals on the center bore of the undercarriage assemblies during installation. Using a fork truck, lift the undercarriage assembly onto the center pivot pin.



### WARNING

Make sure undercarriage is installed with track tensioner assembly (spring) positioned to the rear of implement. DO NOT install the track system with the tensioner positioned to the front of the implement.

- 11. Install outer thrust washer, retaining cap and retainer cap bolts & washers. Torque retainer bolts to 620 N-m +/- 124 N-m (457 ft-lbs +/- 91 ft-lbs)
- 12. Repeat steps 7 through 11 for the other of the axle assembly.
- 13. Remove jack stands and/or supports and lower implement to the ground.
- 14. Install the stabilizer bars (if not required skip to step 15) to a **no pre-load** condition. Some slight play should be present at the rod ends. In special cases, some adjustment to the stabilizer bars may be required to achieve the desired front to rear parallelism dimension
  - a) For 2 axle midroller systems, attach the two, front stabilizer bars to the mounting brackets on the axle and the brackets on undercarriage frame with the hardware provided in the kit.
  - b) For 4 midroller axle track systems, attach the two, front stabilizer bars and two, rear stabilizer bars to the mounting brackets on the axle and the brackets on undercarriage frame with the hardware provided in the kit.

Wheel bolt diameter	Torque (N-m)	Torque (ft-lb)
M16	320 +/- 64	236 +/- 47
M20	620 +/- 124	457 +/- 124

15. Check and re-torque all wheel lug bolts as follows:

### **5.0 SCHEDULED MAINTENANCE**

### 5.1 General information

Three factors: proper use, regular inspections, and maintenance are essential to ensure proper performance and reliability of your Camoplast TTS track system.

It is strongly suggested to respect the recommended maintenance and inspection schedule in this section for best track system life, proper performance, and reduced downtime.

Before any operation, clean all debris and material from the track system and make a general analysis of the machine condition. Pay attention to components subject to wear such as rubber parts: the quick identification of unusual wear, particularly of the track. Identifying and resolving issues early reduces downtime and operating costs.

IMPORTANT
Routine and extra maintenance must be performed by qualified and authorized personnel.
Before starting any kind of operation on the machine, disconnect the transmission, stop the engine, set on the emergency brake, remove the key and allow machine to stop completely and cool.
Make sure that mobile parts with safe fixed positioning are locked and the tools used for maintenance are suitable for the type of service
Camoplast is not responsible for direct or indirect damages occurred to people or things due to tampering, removal or modification of the safety devices, or caused by modifications of the machine without any previous authorization.

### 5.2 Lubricant Table

Use and description	Location	Viscosity grade
Grease for heavy mechanical components	Carrier Axle hubs/bearings and frame pivot joints	NLGI GC-LB
Oil Bath Reservoirs	Idlers and Midroller Hubs and Midroller axle pivots	10W30 Universal Transmission / Hydraulic Oil

### 5.3 Maintenance Schedule

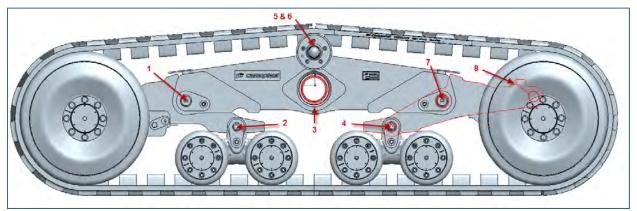
Task	Daily or 10h	Weekly or 50h	Monthly or 100h	Annual or 500hr	5 years or 2000hr
Inspect and clean track system	X				
Inspect track condition	X				
Check track alignment	X				
Inspect for oil leaks on idler, midroller hubs and pivot axles	X				
Grease undercarriage and track system pivot points		X			
Check track tension			X		
Re-torque wheels			X		
Repack carrier roller bearings				Χ	
Replace hub and pivot oil and set wheel bearing rolling torque					X

### 5.4 Daily maintenance or every 10 working hours

- 1. Clean and remove debris from track system. Material build-up on track system components can lead to excessive wear and premature failure.
- 2. Track system inspection. Walk around the machine inspecting each track system and axle assembly. Identifying and resolving issues early is key to improving track system life and decreasing operating expenses. See "Track System Inspection" in the Routine maintenance section for more information.
- 3. Check rubber track alignment daily by inspecting the guide lugs. If excessive wear or chunking of the guide lug is occurring, track alignment may need to be adjusted. For additional information, refer to the "Track Alignment Procedure" section.
- 4. Inspect idler, midroller and midroller pivot axles for leaks. If any are noted, check oil level of the hub to be sure oil is up to the fill hole when on a level surface.

### 5.5 Weekly maintenance or every 50 working hours

1. Grease upper carrier hubs, undercarriage and track system pivot points.



- #1 Tandem pin front
- #2 Bogie pin front tandem
- #3 Main central pin
- #4 Bogie pin rear tandem
- #5 Carrier Roller LH (if equipped)
- #6 Carrier Roller RH (if equipped)
- #7 Tandem pins rear
- #8 Tension link pin

### 5.6 Monthly maintenance or every 100 working hours

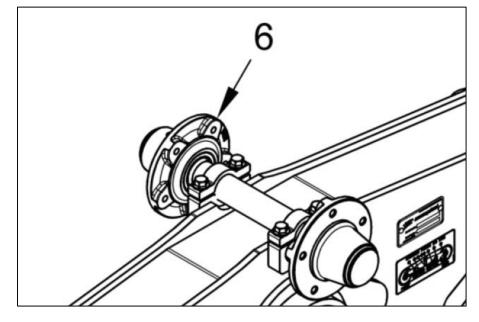
1. Check track tension. Refer to chart below for recommended setting. Refer to "Adjusting track tension" for additional information. No tension adjustment is required if spring module is functioning properly.

TTS Series	Tensioner Type	Spring Setting
70/80/100	Spring	No preload-onset of compression less one turn

2. Verify wheel bolt torque (always torque after wheel removal regardless of hrs.)

Wheel bolt size	Torque (N-m)	Torque (ft-lb)
M16	320 +/- 64	236 +/- 47
M20	620 +/- 124	457 +/- 124

### 5.7 Annual maintenance or every 500 working hours



1. Repack carrier roller wheel bearings (item 6) (if equipped).

Carrier Roller Spanner Nut Size	Torque (N-m)*	Torque (ft-lb)*
N-06	10 +/- 2	7.4 +/- 1.5

\* Spanner nut tool 2P-0022 is available from your Camoplast dealer

#### 5.8 Every 5 years or 2000 working hours

- 1. Drain and replace idler, midroller, and midroller pivot reservoirs.
- 2. Oil level should reach to lower level of fill plug with unit parked on level surface.

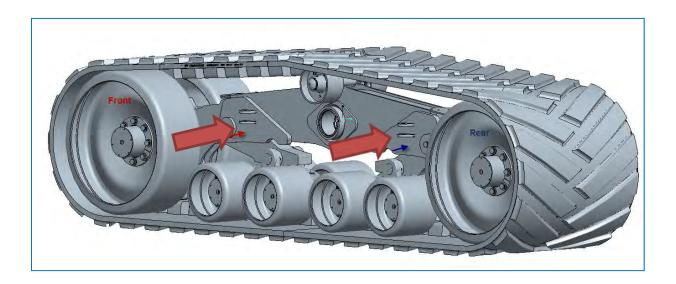
#### 5.9 Off Season Storage

- 1. For optimum life, TTS tracks should be stored indoors, in dry environment with a temperature between 5° and 25° C (40-77F). The tracks should not be exposed to direct sunlight or heat. No petrochemicals and related vapors, no electrical devices producing ozone should be placed in the same area.
- Should it be necessary to disassemble the tracks from the undercarriage, lay them on the ground on one edge avoiding bending radius less than 30 in.(750 mm). Do not lay the rubber components on dirty surfaces contaminated by oil, grease or other chemical products
- 3. Do not paint rubber components.

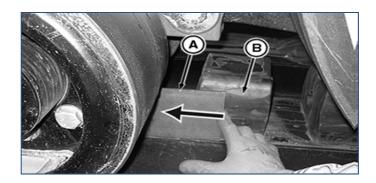
### **6.0 ROUTINE MAINTENANCE**

### 6.1 Check Track Alignment

- 1. Install the stabilizer bars/turnbuckle assemblies to a "no" pre-load condition. Some play should be present at the rod ends. Make sure to unscrew the lock nut on the turnbuckle prior to adjusting the bars to the needed length.
- 2. Once installed, measure the inside distance front and rear on the mainframes as noted below. Undercarriages must be parallel to within 6mm (0.25 in.). A suitable location for measurement is noted by arrows below the turnbuckle eyes in the diagram below.



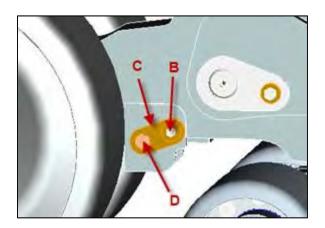
- 3. Prior to checking track alignment the implement should be empty and spring tensioning mechanism with no pre-load.
- 4. Pull the implement on a flat surface for a suitable time frame, allowing the belts to relax and move freely on the undercarriage rollers.
- 5. Drive in a straight line for roughly 200 ft and coast the tractor to a stop. Place the tractor in PARK and apply the emergency brake. Do not apply braking action during this process as sudden stops can affect track position during the alignment process.
- Using a ¼" x 4" x 8" shim (A) slide between the front midroller and guide lugs (B). Bridge guide lugs with the shim maintaining pressure on 2 lugs minimum.



7. If the shim fits freely between the lugs and midroller on both sides of the undercarriage the alignment is correct. It the shim binds and does not fit between the midrollers/guide lugs track adjustment is necessary.

### 6.2 Track Alignment Procedure

- 1. Remove the retainer lock plate cap screws (b) and lock plate (c) from the inboard & outboard sides of the track needing adjustment.
- 2. Loosen cap screw (d) counterclockwise 1-1.5 turns on the side of the undercarriage you want the track to move towards.



- 3. Tighten the special cap screw on the opposite side to specification. (Cap screw torque is 300 N-m (221 ft-lb). Tighten cap screw loosened in step 2 to the same specification. Note: A single full turn is the standard increment during adjustment. Lessen this amount as final adjustment is approached.
- 4. Recheck track alignment and adjust until suitable clearance is obtained on both sides of the guide lugs. Note: Lock plates are reversible for double the index increments. If needed, increase torque on the special cap screw slightly allowing advancement to a suitable lock plate position.
- 5. When alignment is complete reinstall the lock plates and tighten cap screws to their required torque specification of 130 N-m (95 lb-ft).

### 6.3 Track system inspection

### **Track System**

Inspect track system for material build-up on frames and wheels. Clean material from undercarriage.

### **Idlers and midrollers**

Check the general condition of the idlers and midrollers, in particular on inner guide surface of the wheels. Excessive wear in these areas can be caused by track alignment issue, debris ingestion or continuous hillside work.

### Rubber track guide lugs

Guide lugs keep the track on the track system. Proper alignment of the track is essential to improving overall life and decreasing operating costs. If track is misaligned or operating on side slope, guide lug wear or damage may occur. Also guide lug damage may occur if proper break-in procedures are not followed or system is operated outside the maximum speed recommendations listed in this manual. Monitoring guide lugs condition will alert the operator to an issue and generally if corrected early prior to loss of performance or durability.

#### Track carcass

Inspect track surface to remove imbedded stones or debris. This contamination can work its way into the track and damage the steel cable.

Steel wire may come out from the track carcass without affecting the performance of the track. Remove loose wires by cutting them at the rubber surface.

### Track tread

Muddy soils usually cause limited wear, while roading long distances can bring about accelerated tread wear. Due to the crown of the road, and deflection in the system, the tread closest to the machine will tend to wear faster than the tread on the outer portion of the track. Adhere to speed and weight limitations published in this document.

### 6.4 Adjusting track tension

Tension is pre-set at the factory and requires no adjustment during operation. Provision is made to detension the track system allowing for removal of the rubber track.

### 6.5 Track Removal

- 1. Place the undercarriage on a level surface and loosen the nuts on the idler wheels. Undercarriage may not need removal from the implement to be worked on.
- 2. Locate the tension module located between the rear idlers. Remove the 2 bolts fastening the rotation lock to the frame. Remove the lock.
- 3. Turn the tension screw clockwise to compress the spring which loosens the track. Turn the screw until it bottoms out on the stop. Do not force the spring past this point.
- 4. Using a suitable lifting device raise the undercarriage until there is clearance between the wheels and track.
- 5. Remove the wheel bolts and torque plate castings. Note: idler wheels weigh 90kg (200lbs) and will roll easily on a firm surface. Place a stop under removed wheels to stop rolling and potential injury.
- 6. Remove the inner idler wheel.
- 7. Using a suitable lifting device, lift the track slightly near the front and rear idlers, pulling slightly away and back from the undercarriage to remove the track. Note: If using a forklift or other steel lifting device, ensure the tines or lifting surface does not have sharp edges or track damage may occur.
- 8. Lift the track up and away from the undercarriage, placing in a suitable location for installation.

### 6.6 Track Installation

- 9. Raise the undercarriage roughly 12 in. from the ground to allow for the lower surface of the belt to slide underneath.
- 10. Lift the track and install on the top carrier rollers. Push the bottom of the track under the midrollers aligning with the front and rear idlers.
- 11. Install the idler wheels removed previously, ensuring the guide lugs are positioned properly between the midrollers and idlers.
- 12. Lower the undercarriage assembly to the ground. Turn the tensioning screw counterclockwise to extend the tensioning spring. The screw should be retracted until there is no preload on the spring. Thread the screw in to the onset of compression and back off ½ turn.
- 13. Install tensioning screw rotation lock and torque retainer bolts to 122 N-m (90 lb-ft).

### 7.0 TROUBLESHOOTING

Problem	Possible cause	Solution	
Uneven tread wear	High amount of roading	Swap tracks side to side	
Splits/opening on the side or top of tread	High amount of roading or overheat of tread	Swap tracks side to side, replace tracks if necessary	
Chunking on guide lug sides	Track not aligned properly	Align track, see "Track Alignment Adjustment"	
	Improper break-in of track	Operate in dry dusty conditions, see "Track Break-in" section.	
	Side slope operation	Contact Dealer	
Breakaway of track guide lugs	Material or workmanship defect	Contract Declar	
	(clean separation)	Contact Dealer	
	Debris/material ingestion into track system. (jagged	Clean material off of drive wheel	
Correct tensioning not possible	Verify position of track detensioning bolt at rear idler assembly	Bolt fully retracted with no preload on spring applied	
High temperature of idler or roller axle hub	Bearing failure	Replace damaged bearing	
	Lack of lubricant	Check oil level in reservoir	
Noise from idler or roller axle hub	Bearing failure	Replace damaged bearing	
Mud/dirt build up on idlers/midrollers	Operation in muddy, wet, or sticky soil types	Clean mud/dirt regularly to prevent track damage.	
System dog tracking or problems with track alignment	Alignment adjustment incorrect. Undercarriages parallelism is out of tolerance	Adjust alignment per procedures. Otherwise, contact your Dealer	

### **8.0 ADDITIONAL INFORMATION**

Additional information on Camoplast track systems, tracks, and our other products may be found at <u>http://www.Camoplastsolideal.com</u>

For any questions or corrections regarding this manual, please email us at <u>Agproductsupport@camoplastsolideal.com</u>

Please include the manual publication number and edition as found in the footer

### 9.0 Warranty Certificate