



TRU-TURF

R52-11TC GOLF ROLLER MANUAL

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Separate Engine Owners Manual Included



Please read and understand before operating machine.

1. Pre-check all nuts, bolts, grub screws for tightness prior to operating machine.
2. Understand the operating procedures and the controls before operating.
3. Use the machine to roll **18-36 greens** then **check** that all nuts, bolts etc. are tight. If loose and the Loctite seal has been broken, treat item as per Loctite instructions, reseal, then tighten securely.
4. **Loose transmission and drive roller sprockets will cause damage to shafts and keyways. Ensure they are correctly tightened at all times.**
5. **Change the transmission oil after 50 hours of operation, then as per the servicing schedule.**

We use and recommend Penrite Synthetic 5 SAE 5W-60. Available through our dealer network.

U.S.A. customers contact your dealer or visit www.truturf.com to find your nearest dealer.

Australian customers call 07 5594 7199.

International customers contact your dealer or visit www.truturf.com to find your nearest dealer.

Congratulations on your investment in the R52-11TC Golf Green Roller and your move to smoother, faster, more consistent putting Greens. The following operation and maintenance manual has been prepared for use with the R52-11TC Golf Green Roller. It is intended as a guide and supplemental updates to the manual may take place at a future date, without prior notice.

This machine is engineered to be simple to operate and easy to maintain. If you have any questions or concerns that this manual does not address, please feel free to contact your distributor.

Distributor Information

Name: _____

Address: _____

Telephone: _____

Fax: _____

Email: _____

Machine Information

Model. **R52-11TC Golf Green Roller**

Serial No. _____

Engine No. _____

Transmission No. _____

Purchase Date No. _____

Safety Information

Safety is of the utmost importance when operating turf equipment.

To ensure safe operation of the R52-11TC Golf Greens Roller, please follow the following safety guidelines.

- Always make a pre-operation inspection before you start the engine. If this procedure is not carried out damage to property or personnel may occur.
- Keep children, pets and inexperienced personnel away from the machine. This machine should only be operated by trained and skilled personnel - check with your supervisor if you are unsure.
- Know how to stop the engine when in motion. Read and understand engine manufacturers manual, as supplied.
- Never permit inexperienced operators to use the machine. This machine requires certain knowledge and expertise to operate it; you must be a trained person to use this machine. Unskilled persons can harm themselves and others if they operate this machine.
- Do not use in enclosed areas unless well ventilated. Carbon monoxide gases are dangerous if inhaled, it can cause death; use the machine outdoors.
- When transporting the roller, make sure the trailer lock down mechanism is secure to prevent premature release of the catch. If the trailer catch is not correctly engaged while towing and releases accidentally, the front of the roller can drop and dig into the ground, causing the machine to move dangerously in any direction causing bodily injury. When carrying out maintenance ensure the catch is engaged correctly; if it is not the trailer arm could fly up making contact with a person(s) causing serious injury.

- When engine is running, always keep hands and loose clothing away from rotating shafts, chains and sprockets in the transmission area. If hair, clothing or loose objects become entangled on a rotating shaft serious bodily injury could occur. Stop engine before opening safety cover fitted to the transmission area.

- Never ride on the machine when machine is being towed.

Operator, remember it is your responsibility to be aware of your surroundings. To avoid accidents, think safe and operate safe.

Universal Conditions:

Tru-Turf Pty. Ltd. will either repair or replace any item or part of a Tru-Turf Pty. Ltd. Golf Greens Roller that is defective in workmanship or material for a period of **thirty six (36)** months from the date of delivery of the new product to the original end user. These items will be repaired or replaced free of charge and freight free.

Products Protected By This Warranty:

This Warranty relates to the following products manufactured by Tru-Turf Pty. Ltd. :-

GR11000C; RS48-11C; RS48-11D; R52-11T, R52-11TC and R52-ELT Golf Greens Rollers.

TR66 Triplex roll 'n' spike mower attachment heads and brackets; SR72 Sports ground roller.

MT5000-1, MT5000-2 and MT5000-3 Totes are covered for a period of twelve (12) months.

Parts Warranted By Suppliers To Tru-Turf:

Specific component parts supplied to Tru-Turf Pty. Ltd. are covered by that supplier's Warranty. These parts include Eaton Transmission, Honda Engines and Kohler Engines.

Only Tru-Turf Pty. Ltd. manufactured parts qualify for the the Thirty Six month warranty.

Normal Wear and Tear:

Tru-Turf Pty. Ltd. will not repair or replace parts subject to normal maintenance routines as specified in the products Operator's Manual nor to parts subject to wear and tear during the correct operation of the product. These parts include, but are not limited to, oils, filters, tyres, shafts, bearings, blades, spikers, slicers, brakes, belts, hoses, spark plugs, drive chains, sprockets, drive rollers & smoothing rollers.

Other Items Not Covered By This Warranty:

Tru-Turf Pty. Ltd. will not repair or replace free-of-charge any item that has been damaged by accident, lack of reasonable care and protection or lack of suitable storage. We will not cover parts that have been altered or modified by anyone other than Tru-Turf Pty. Ltd. nor will we cover used parts that are installed in place of failed parts. We will not cover parts that have not been installed correctly by the end user or its agents nor will we cover parts that have not been maintained as per the Operator's Manual. Service calls and overtime-labour rates will not be covered. We will not cover freight costs related to the return of the faulty product to Tru-Turf Pty. Ltd. or its agents. Tru-Turf Pty. Ltd. will not be liable for any consequential loss or damage or costs caused by or incidental to the failure of any new part supplied with the original purchase or any new part supplied as a replacement for any failed part.

Lodging Warranty Claims:

The final purchaser of the new Tru-Turf Pty. Ltd. product must lodge a Warranty Claim with Tru-Turf Pty. Ltd. or its agents. The original purchaser must provide written evidence detailing the product's delivery date to that purchaser and the reasons why the purchaser believes that the product or its part is defective in the categories of faulty material or workmanship. The purchaser is to deliver the faulty product or part to Tru-Turf Pty. Ltd. or its agents at the purchaser's expense. Acceptance or rejection of the Warranty Claim is entirely at the discretion of Tru-Turf Pty. Ltd. or their Suppliers who warrant their own part/s.

Visit www.truturf.com. Fill out the warranty form and return it to warranty@truturf.com

No person or organisation has the authority to modify the terms or conditions or limitations of this Warranty without the written consent of Tru-Turf Pty. Ltd.

Initial Assembly

When you receive the crate, the machine will be broken down into components ready for assembly. If you run into any problems during assembly, please feel free to call your local distributor or agent.

List of Components

QTY	Description
1	Operation, Maintenance and Parts Manual
1	Machine Frame/Body
1	Drivers Seat
2	Armrests
4	$\frac{5}{16}$ " x $\frac{3}{4}$ " UNC Bolts
2	Tires mounted on Wheel Rim
1	Steering Joystick
1	Dampener Strut (attached to main body end)
1	Left-side Trailer Arm
1	Right-side Trailer Arm
2	30mm External Circlips
1	Drawbar Coupling Assembly
2	$\frac{3}{8}$ " x $1\frac{1}{2}$ " UNF 2P Bolts
2	$\frac{3}{8}$ " UNF Nyloc Nuts

Assembly Procedure

Step 1: Mounting the seat to the seat base.

- Use the four $\frac{5}{16}$ " x $\frac{3}{4}$ " UNC bolts to fasten the seat to the seat base.
- Remove armrest screws from the seat, position left and right side armrest, fasten and tighten.

Step 2: Mount the steering joystick to the steering shaft.

- Select the steering joystick.
- Slide the joystick into the slot on the top of the steering shaft, already installed in the steering column directly in front of the foot pedal controls, insert the $\frac{3}{8}$ " bolt into the bottom bolt hole, select a comfortable operating position, joystick forward for extra operating room or back for less, once determined insert the other $\frac{3}{8}$ " bolt into the upper hole and tighten both bolts securely.

Step 3: Attaching the left-hand trailer arm to machine body.

- Locate the trailer arm support axle 30mm in diameter ($1\frac{1}{4}$ ") which extends out on the left side of the machine, remove the circlip from the support axle. Oil machined portion. Slide the left hand side trailer arm, onto the axle, replace the circlip, ensuring the circlip is located in the groove correctly.

Step 4: Attaching dampener strut and right hand trailer arm.

- Locate the trailer arm support axle 30 mm in diameter ($1\frac{1}{4}$ ") which extends out on the right side of the

machine, remove the circlip from the axle. Hold the right side trailer arm in the vertical position and slide it part way onto the axle. Locate dampener strut, remove packing from the unattached end.

- Place strut onto locating pin and push completely on, insert washer and cotter pin in place to prevent strut from coming off the shaft.
- If necessary use a soft headed hammer and tap the trailer arm onto the axle until the circlip groove is revealed, fit the circlip, ensuring it is located in the groove correctly.

Step 5: Attaching draw bar to trailer arms.

- Locate the draw bar assembly.
- Gather the ends of the right and left trailer arms.
- Place the draw bar assembly between the trailer arms and align the holes.
- Place one $2\frac{3}{4}$ " x $\frac{3}{8}$ " bolt through each hole, fit $\frac{3}{8}$ " Nyloc nut to each bolt and tighten securely.
- Test to ensure the trailer catch is correctly locking the trailer arms in the down position and the catch locking pin fits correctly when transporting the roller, for safety.

Step 6: Attaching wheels to trailer arms.

- Locate the two wheels for the left and right side trailer arms.
- Check tires for the correct air pressure, approximately 18psi. Do not exceed this pressure. The tires act as the suspension, hence the low P.S.I.

- Remove wheel nuts from both hubs, slide wheels onto hub with air valves facing outwards. Replace wheel nuts and tighten securely.
- Ensure the taper on the nuts, mate into the wheel tapers correctly.

Step 7: Correct dampener strut operation

- When the roller is in the trailing position Carefully hold the draw bar assembly, release the locking catch, gently with a firm grip begin to raise the draw bar, when it has travelled sufficiently the dampener strut will take over and prevent the trailer arms rapidly rotating on it's axle, allowing the roller to lower to the surface gently. This prevents the operator from being injured. When the roller is resting on the ground push the trailer arms back gently, (do not use excessive force) until the trailer arms will travel no further. The dampener strut is designed to hold the trailer arms back behind the operator with the wheels off the ground.

Step 8: Replace engine oil

- A tag is placed on the engine's On/Off switch indicating you must fill the machine with oil prior to operation. Low oil level will cause the engine to stop on steep hills, the engine cut off safety switch is designed this way to protect the engine from damage if low in oil.
- The oil in the engine upon delivery (if not pre-delivered) is to prevent the inside of the engine from corroding, replace it with the correct engine oil, as per the manufacturers specifications.

Step 9: Transmission oil tank breather.

- Unscrew the plastic plug from the top of the tank and replace it with the anti-splash breather supplied. Seal damage and oil leakage will occur if the breather is not installed. If this is not done damage to the seals in the transmission will occur.

Step 10: Lubricate smoothing head pivot bearings.

- There is a grease nipple or zirk located on the three (3) smoothing head centre ball joint swivels. Apply grease to lubricate fittings.
- Apply grease to the upper main bearing that supports and carries the three smoothing heads.

Operation procedures

Pre-operation checks

- Check engine as per Honda manual.
- Ensure steering joystick has no looseness.
- Check that foot pedal depresses under normal foot pressure in both directions and returns to the neutral position. (Similar resistance to a motor vehicle clutch). If this action is not smooth, check the yoke and transmission struts for correct operation.
- Ensure that the draw bar locking catch mechanism is securely locked to the main draw bar and the safety pin is fitted when trailing the roller.
- Check and tighten grub screws fitted to the end bearing lock rings on the rubber coated drive roller bearings on each smoothing head and main support bearing.
- Grease lightly Bearings fitted to Drive Roller and Smoothing Head pivot bearings. Replace plastic caps if fitted.
- Grease rod ends, sparingly.
- Check tire pressure for proper operating pressure (18psi). Do not over inflate.
- Check for oil and fuel leaks - rectify before using machine.
- Lubricate the drive chain with a suitable chain lubricant.

Standard operation procedures

- Inspect and check that the roller is serviceable prior to departing from workshop.
- Use a suitable towing vehicle to move roller from green to green.
- Maximum recommended towing speed would be equal to a motorized golf buggy. Approximately 4mph/7kph. Towing at excess speed or across rough terrain may cause damage to the machine and trailer.
- When approaching the green do not tow the roller onto the green to set up, put the roller on the fringe of the green. Put trailer in the up position, start up the roller and drive it onto the green.
- Greens can be rolled in any direction; take care to ensure there are no crease lines produced on the surface.
- It is recommended that you place the smoothing head rollers on the high side of the green when rolling. This increases the weight on the rubber drive roller and gives better traction, it also reduces slipping or spinning of the drive roller on the green, depending also on the operators ability. Whilst becoming familiar with the roller, set the throttle at about $\frac{1}{2}$ - $\frac{3}{4}$ speed. Press the left or right foot pedal down gently but not suddenly. Be smooth with your action, hold in this position until nearing the edge of the green, then take your foot gently off the pedal, the roller will come to a stop. Rest your other foot on the opposite pedal and gently apply the pressure to the pedal. It then starts to move the roller in the opposite direction. Once again be gentle with the pedal, but not sudden. By using the left and right pedal in this manner, will ensure there is no damage to the green and less wear and tear on the equipment and operator.

- The correct procedure for rolling the green is:
 - (a) Select the correct direction to roll the green, remember this roller can roll the greens in all directions.
 - (b) Start on one side of the green and work your way across the green in a zigzag fashion, slightly overlapping each lap you roll: this makes sure you miss no part of the green and all of the green is rolled. Avoid coming back across the green to roll missed areas if possible. You should be able to complete the rolling of 18 greens in the same time or quicker than by mowing using a triplex mower.
- When rolling of the green is completed, move the roller onto the fringe, stop the engine, lock the trailer into the trailing position, connect it to the towing vehicle then move off to the next green to be rolled. Do not put the trailer down into the towing position on the green; damage may occur to the green from the roller tires and body.
- Remember turn off the fuel cock whilst towing the roller.

Park brake

- To engage, push parking lever forward until it will travel no further, the lever operates on a over cam principal, when it is fully engaged the lever will remain in this position with the brake applied. To dis-engage the park brake, pull the lever up and back. The lever will remain in the off position until re-applied. Do not operate the roller with the emergency brake engaged, damage to the drive roller rubber coating will occur.
- Ensure the park brake is released prior to operating the roller, if not irreparable damage to the rubber on the drive roller will occur.

Points to remember

- Make sure the roller is serviceable before rolling.
- Start rolling from the fringe of the green.
- Smooth operation on the foot pedals.
- Pick a point on the other side of the green to roll to.
- Do not look at the green close to the roller; it makes it difficult to steer the roller straight; look well ahead.
- Use 1/2 throttle until you are proficient at operating the roller.
- Once you choose your rolling line hold the joystick steady, correcting direction gently as required.
- Move the steering joystick a little at a time to change direction; excessive movement of the joystick makes it difficult to maintain a straight line.
- Roll in straight lines.
- Do not leave the engine running with the roller parked on the green; the engine vibration will cause roller depression marks on the green.
- Move off the green when rolling is complete before putting the trailer in the down position.
- When rolling steep greens and the engine stops, check engine oil level. The engine is fitted with a safety switch; when the engine oil level is low the engine will stop.

Maintenance

- Stop engine before performing any maintenance.
- Service the Honda engine according to the manufacturers maintenance schedule.

Transmission (pump, Eaton 11)

- Initially, change the oil at 50 hours running time, then;
- Change oil every 500 hours or annually, whichever occurs first.
- Change hydraulic oil filter every 500 hours or annually, whichever occurs first.
- Only use the manufacturer's recommended replacement oil filter .
- When fitting the filter, follow the instructions supplied with the filter. This will ensure that the filter remains tight and that no leaks occur.
- Check all hard line oil pipes for rubbing, excessive vibration, leaks and tightness on a regular basis.
- Check transmission oil level on oil tank sight glass. Oil level should remain at a minimum of 25mm (1") and at a maximum of 40mm (1.5") from the top of the tank.
- Oil Capacity including filter is 6 liters or 5.3 U.S. quarts. For the ultimate performance we use and recommend the Penrite synthetic 5 SAE 5W-60 transmission oil. (Part No. R5226)

Storing

- It is important to store this roller in the towing position. This ensures the trailer strut is in the closed position, protecting the shaft from corrosion, then failure and also the weight is taken off the roller bearings.

Service of the drive chain system

- Replacement - Some chains look a like, but they are not, use only the chain and sprockets recommended as per the correct spare parts number. Wrong pitch drive chain fitted will cause excessive sprocket wear and possible drive failure.
- Tensioning the drive chain - No adjustment is required; the chain tension is automatically adjusted.

Lubrication

- Lubricate Drive Chain with Chain Oil, WD40, equivalent (CRC; Penetrene) or a specified chain lubricant each time prior to rolling of the Greens.

Service of smoothing roller bearings

- Whilst the Roller is suspended by the Trailer, check operational smoothness of the bearings fitted to each smoothing roller by rotating the rollers by hand. If bearing tightness, roughness or excessive looseness is detected, replace the faulty bearings.

- If bearings are faulty

(a) Remove the complete smoothing head from the machine, undo the four swivel mount bolts on upper body and steering rod, wheel the roller away until the total head is exposed to work on.

(b) Remove roller shaft bolts from end plates, remove rollers from the heads.

(c) Fit new bearings, replace rollers into the heads, lubricate shaft bolts with an anti seize compound before installing them. Tighten securely and ensure rollers rotate freely when fully tightened.

or

If the rollers are a sealed type remove the roller and replace with a complete new roller.

(d) If the rods are removed or lengths altered ensure they are correctly adjusted so that the three heads are parallel to each other when in the straight ahead position. Adjust if necessary.

Changing engine oil

- Change oil and service as per the manufacturers Servicing Schedule enclosed as a separate insert to this manual.

Changing transmission oil

Ongoing Maintenance, Lubricant and Replacement Schedule (below)

Note. Areas indicated with a * need to be changed when defective or as required. This may be before the recommended replacement schedule. Please replace all parts as necessary.

Description	Pre-Delivery	Pre-Operating	12 Monthly
Check Engine oil	✓	✓	
Check Transmission Oil Level	✓	✓	
Beware of contaminants entering the transmission	✓	✓	
Lubricate drive chain with WD40 or equivalent	✓	✓	
Check Tires Max 18 P.S.I.	✓	✓	
Check Gas	✓	✓	
Check Smoothing Roller Bearing	✓	✓	
Check Drive Roller Bearings	✓	✓	
Check for loose Nuts and Bolts	✓	✓	
Renew Engine Oil	as per manufacturers Handbook		
Renew Transmission Oil - See page 1 for correct oil	every 500hrs or...		✓
Renew Transmission Oil Filter	*		✓
Renew Smoothing Roller Bearings	*		✓
Renew Drive Roller Bearings	*		✓
Renew Chain Tensioner Sprocket Bearings	*		✓
Renew Drive Chain	*		✓
Replace Foot Pedal Struts	*		
Replace Trailer Strut	*		

Fault Finding

Roller will not move one or either way, check

- Chain is okay
- Sprockets are not worn or slipping on the shaft
- Foot control is operating - check all arms are secure
- For Sheared Sprocket Keys
- Rubber coupling broken

Roller will not steer, check

- Woodruff Key is in place and not sheared
- Rod ends are connected to smoothing roller head and the steering arm
- Rod ends are not broken or seized
- Centre swivel bearing on top centre of each smoothing roller head has not seized
- Connecting rod are in place and serviceable

Roller has excessive vibration, check

- Disconnect engine-to- transmission and isolate the drive chain to determine whether the problem is in the engine or in the transmissions
- If engine is at fault contact your nearest engine agent for rectification
- If the transmission is at fault, repair or replace as

necessary, or seek professional advice from a local Eaton Service Center

- Any out of alignment between engine and transmission.
- For damaged engine and transmission couplings

Smoothing rollers seized, check

- Bearings have not seized
- Replace if necessary
- Accumulated dry debris is not locking the smoothing rollers.

Rubber drive roller will not rotate, check

- Roller shaft end bearings have not seized
- Broken chain
- Slipping sprockets
- the Park Brake is not locked on

Towing Position

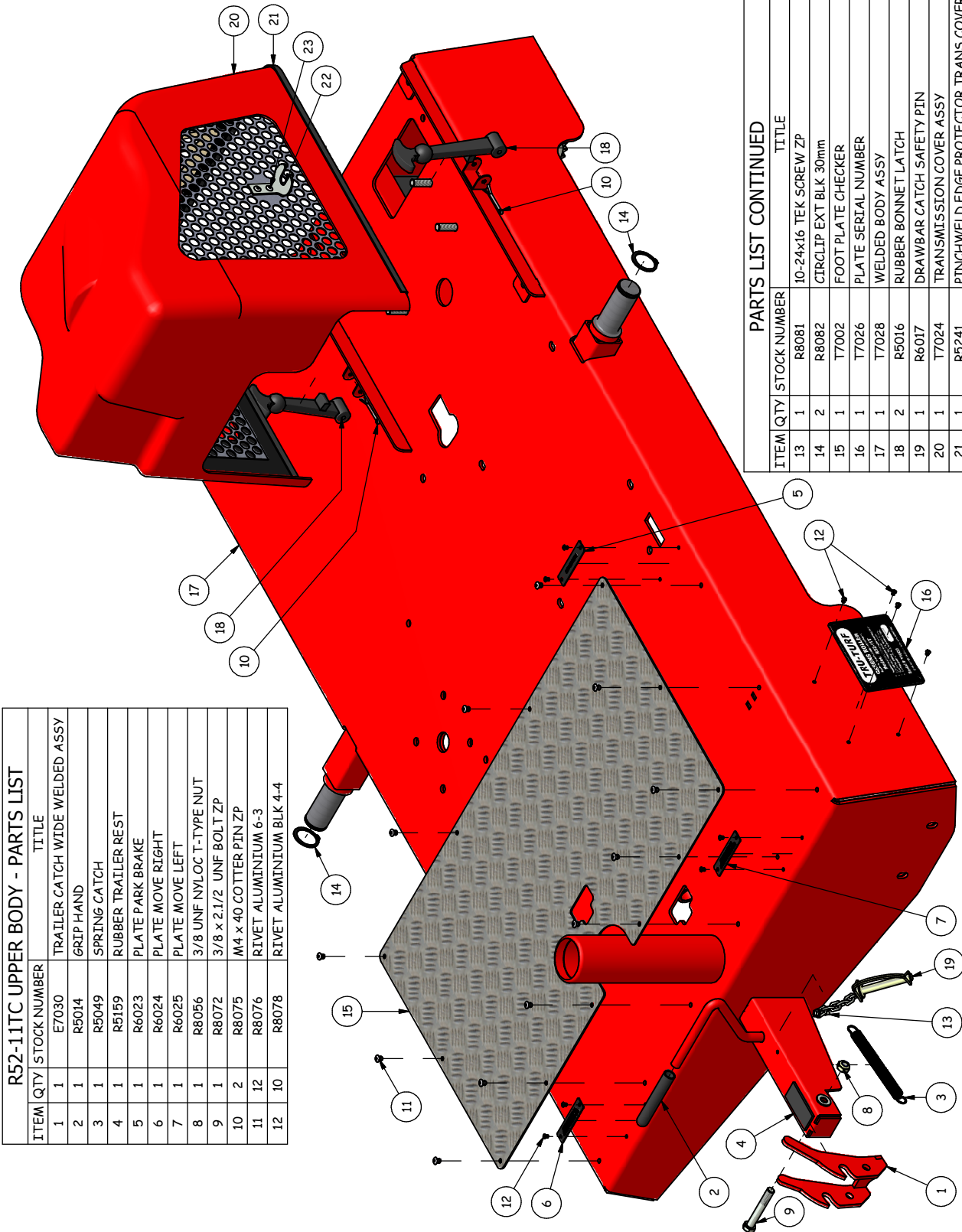


Rolling Position



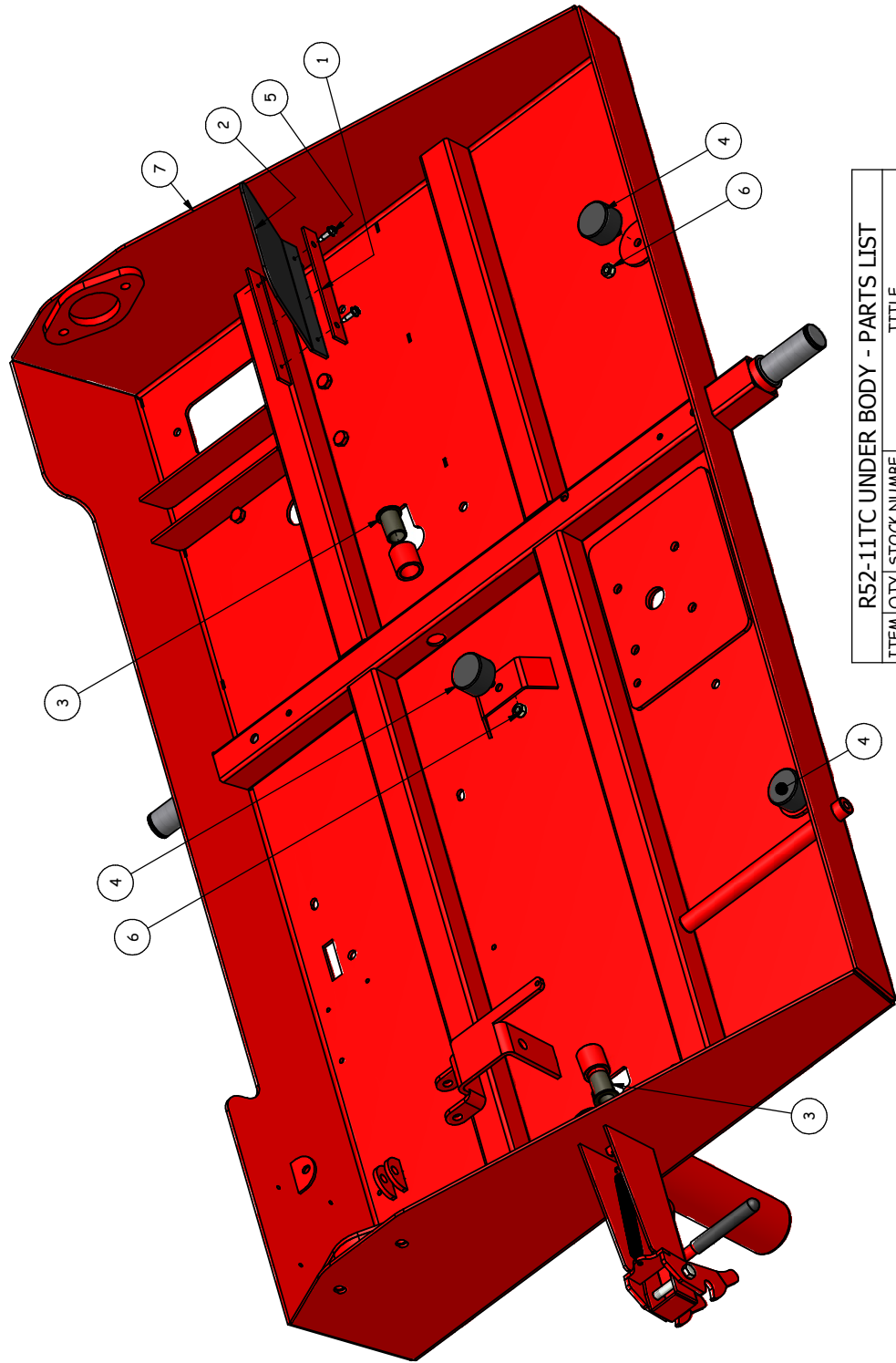
R52-11TC UPPER BODY - PARTS LIST

ITEM	QTY	STOCK NUMBER	TITLE
1	1	E7030	TRAILER CATCH WIDE WELDED ASSY
2	1	R5014	GRIP HAND
3	1	R5049	SPRING CATCH
4	1	R5159	RUBBER TRAILER REST
5	1	R6023	PLATE PARK BRAKE
6	1	R6024	PLATE MOVE RIGHT
7	1	R6025	PLATE MOVE LEFT
8	1	R8056	3/8 UNF NYLOC T-TYPE NUT
9	1	R8072	3/8 x 2.1/2 UNF BOLT ZP
10	2	R8075	M4 x 40 COTTER PIN ZP
11	12	R8076	RIVET ALUMINIUM 6-3
12	10	R8078	RIVET ALUMINIUM BLK 4-4



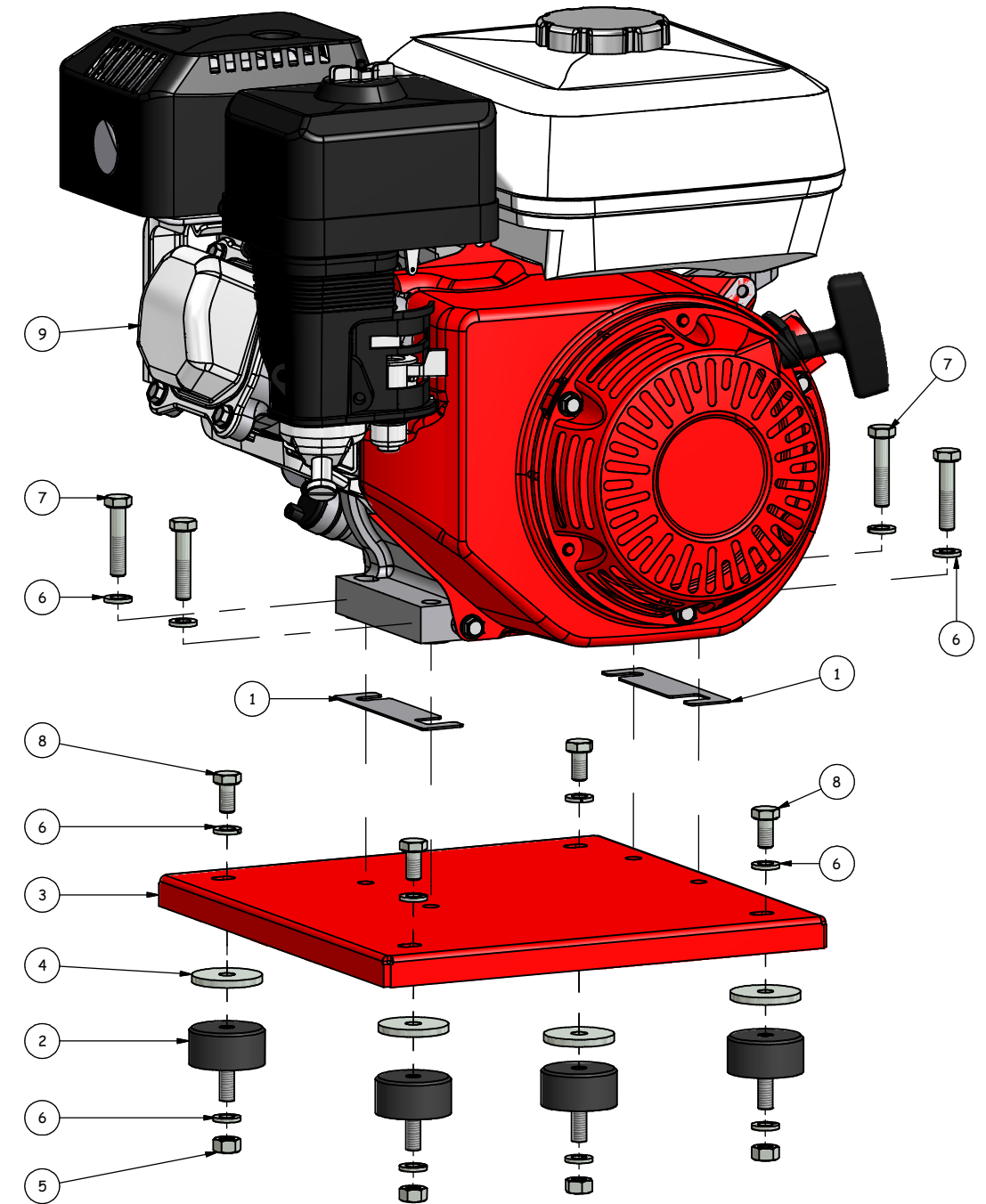
PARTS LIST CONTINUED

ITEM	QTY	STOCK NUMBER	TITLE
13	1	R8081	10-24x16 TEK SCREW ZP
14	2	R8082	CIRCLIP EXT BLK 30mm
15	1	T7002	FOOT PLATE CHECKER
16	1	T7026	PLATE SERIAL NUMBER
17	1	T7028	WELDED BODY ASSY
18	2	R5016	RUBBER BONNET LATCH
19	1	R6017	DRAWBAR CATCH SAFETY PIN
20	1	T7024	TRANSMISSION COVER ASSY
21	1	R5241	PINCHWELD EDGE PROTECTOR TRANS COVER
22	2	R5239	RUBBER LATCH HOOK
23	4	R8077	5-4 RIVET ALUMINIUM



R52-11TC UNDER BODY - PARTS LIST		
ITEM	QTY	TITLE
1	1	R5061 STRAP MUDFLAP SCREW ON
2	1	R5071 MUD FLAP CHAIN DRIVE
3	2	R5075 BUSH NYLON 27 DIA X 32
4	3	R6013 BUFFER STOP UNDER BODY
5	2	R8081 10-24x16 TEK SCREW ZP
6	3	R8256 M8 NYLOC NUT ZP
7	1	T7028 WELDED BODY ASSY

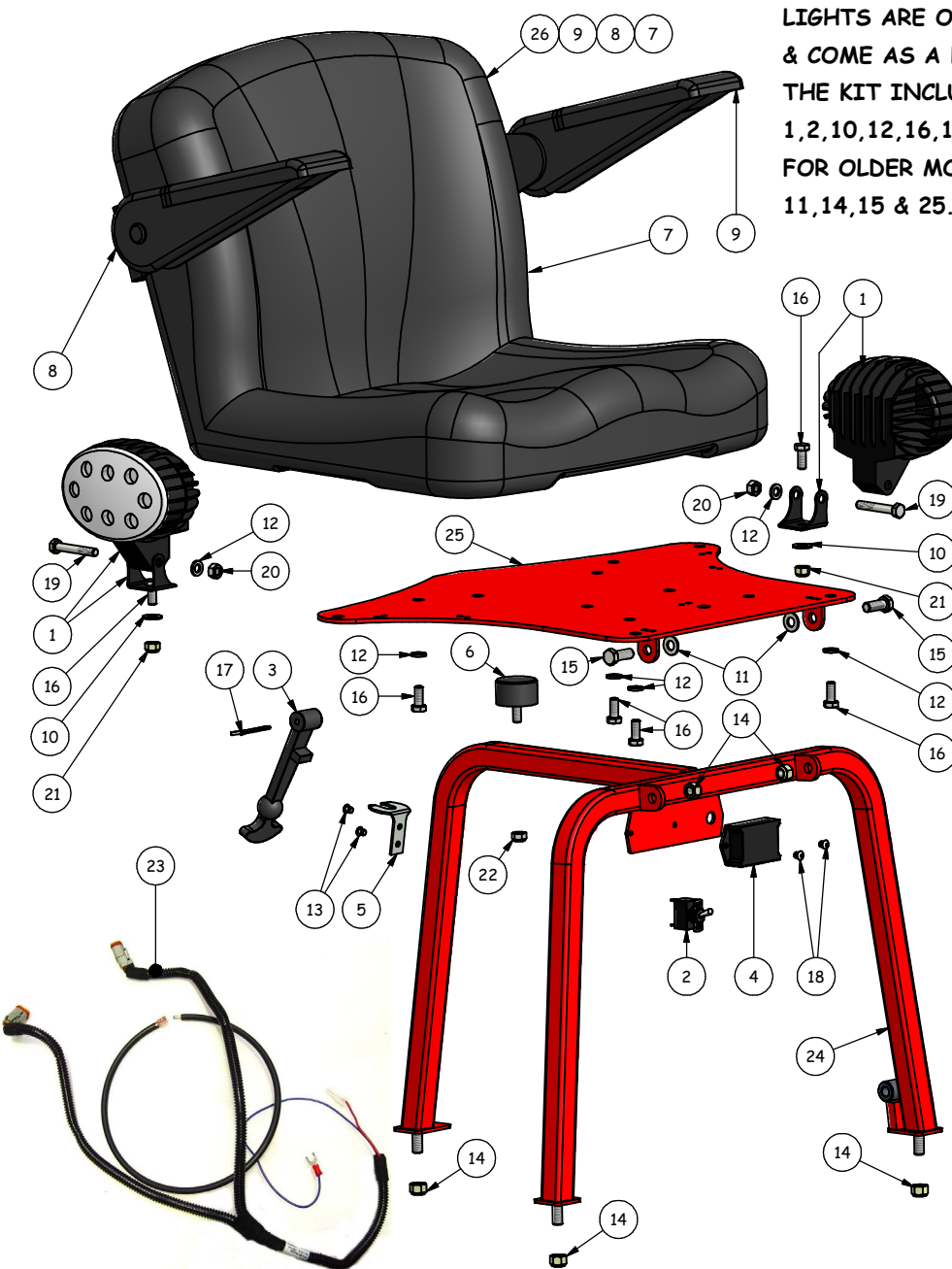
HONDA ENGINE MOUNTING - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	2	R5085	ADJUSTING SHIM ENGINE MOUNT
2	4	R5142	RUBBER ISOLATION ENGINE MOUNT
3	1	R5149	ENGINE MOUNT PLATE WELDED ASSY
4	4	R6068	WASHER 38 OD X 8.5 ID X 4 PACKER ENG MNT
5	4	R8043	M8 HEX NUT ZP
6	12	R8051	5/16 SPRING WASHER ZP
7	4	R8065	5/16 x 1.1/2 UNF BOLT ZP
8	4	R8083	M8 x 16 BOLT ZP
9	1	R9001	GX200 ENGINE HONDA



Seat & Frame

SEAT ASSEMBLY COMPLETE - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	2	E7045	LIGHT LED
2	1	E7067	LIGHT SWITCH
3	1	R5016	HOLD DOWN RUBBER STRAP
4	1	R5129	METER HOUR TACHO
5	1	R5239	RUBBER LATCH HOOK
6	1	R6013	BUFFER STOP UNDER BODY
7	1	R8024	SEAT NO ARMS MSC
8	1	R8025	ARM REST RH SEAT MSC
9	1	R8026	ARM REST LH SEAT MSC
10	2	R8046	5/16 x 0.75 WASHER ZP
11	2	R8048	3/8 x 3/4 WASHER ZP
12	6	R8051	5/16 SPRING WASHER ZP
13	2	R8076	RIVET ALUMINIUM 6-3

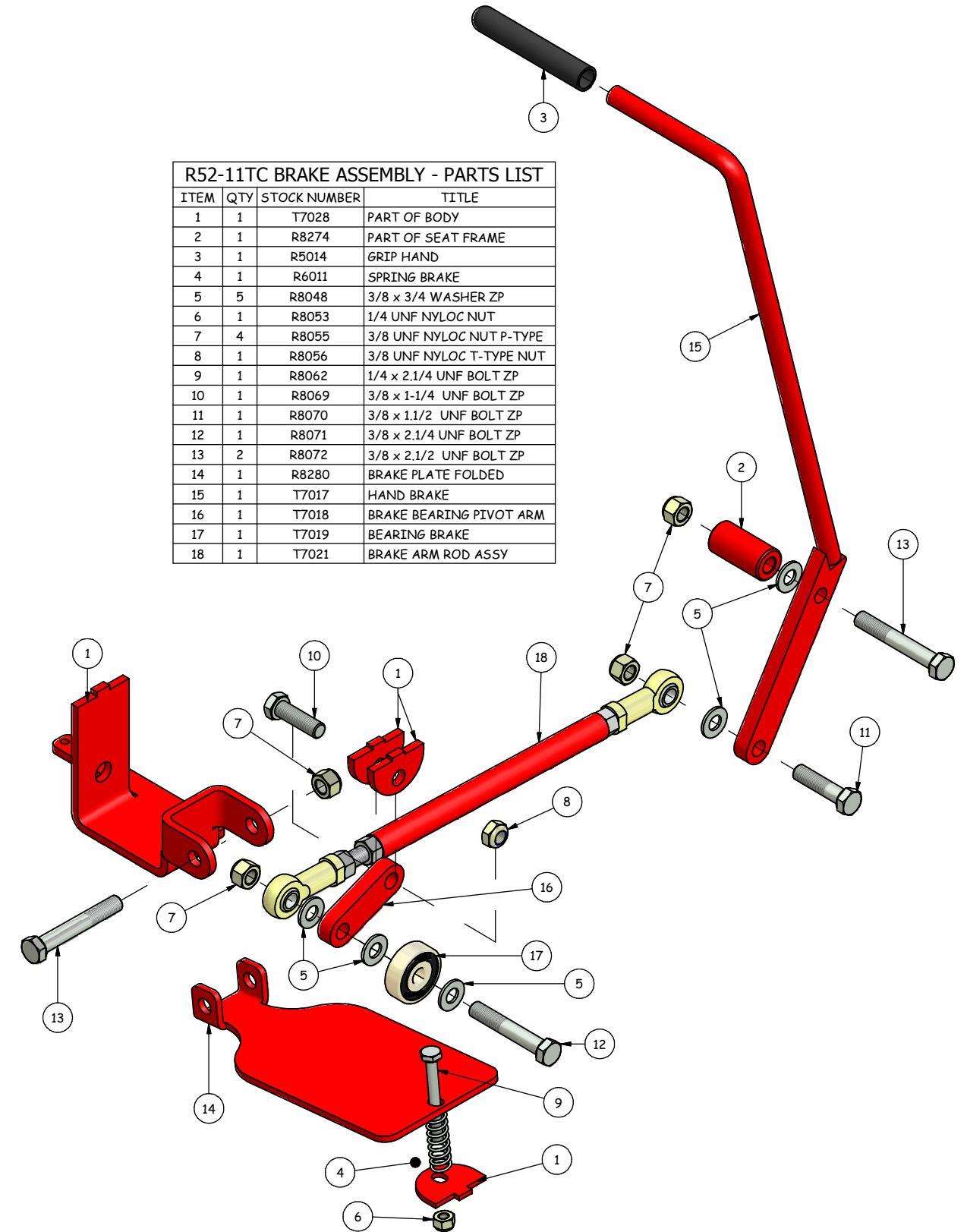
SEAT ASSEMBLY COMPLETE - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
14	5	R8055	3/8 UNF NYLOC NUT P-TYPE
15	2	R8067	3/8 x 1 UNF HEX BOLT ZP
16	6	R8068	5/16 x 3/4 UNC BOLT ZP
17	1	R8075	M4 x 40 COTTER PIN ZP
18	2	R8077	5-4 RIVET ALUMINIUM
19	2	R8095	5/16 x 2.0 UNF BOLT ZP
20	2	R8175	5/16 HEX NUT UNF ZP
21	2	R8245	5/16 UNC NYLOC NUT
22	1	R8256	M8 NYLOC NUT ZP
23	1	R8270	WIRE LOOM FOR LIGHTS
24	1	R8274	SEAT FRAME WELDED ASSY
25	1	R8275	SEAT BASE PLATE WELDED ASSY
26	1	R8296	SEAT COMPLETE WITH ARM RESTS



LIGHTS ARE OPTIONAL
& COME AS A KIT
THE KIT INCLUDES ITEMS
1,2,10,12,16,19,20,21 & 23.
FOR OLDER MODELS ADD ITEMS
11,14,15 & 25.

Park Brake

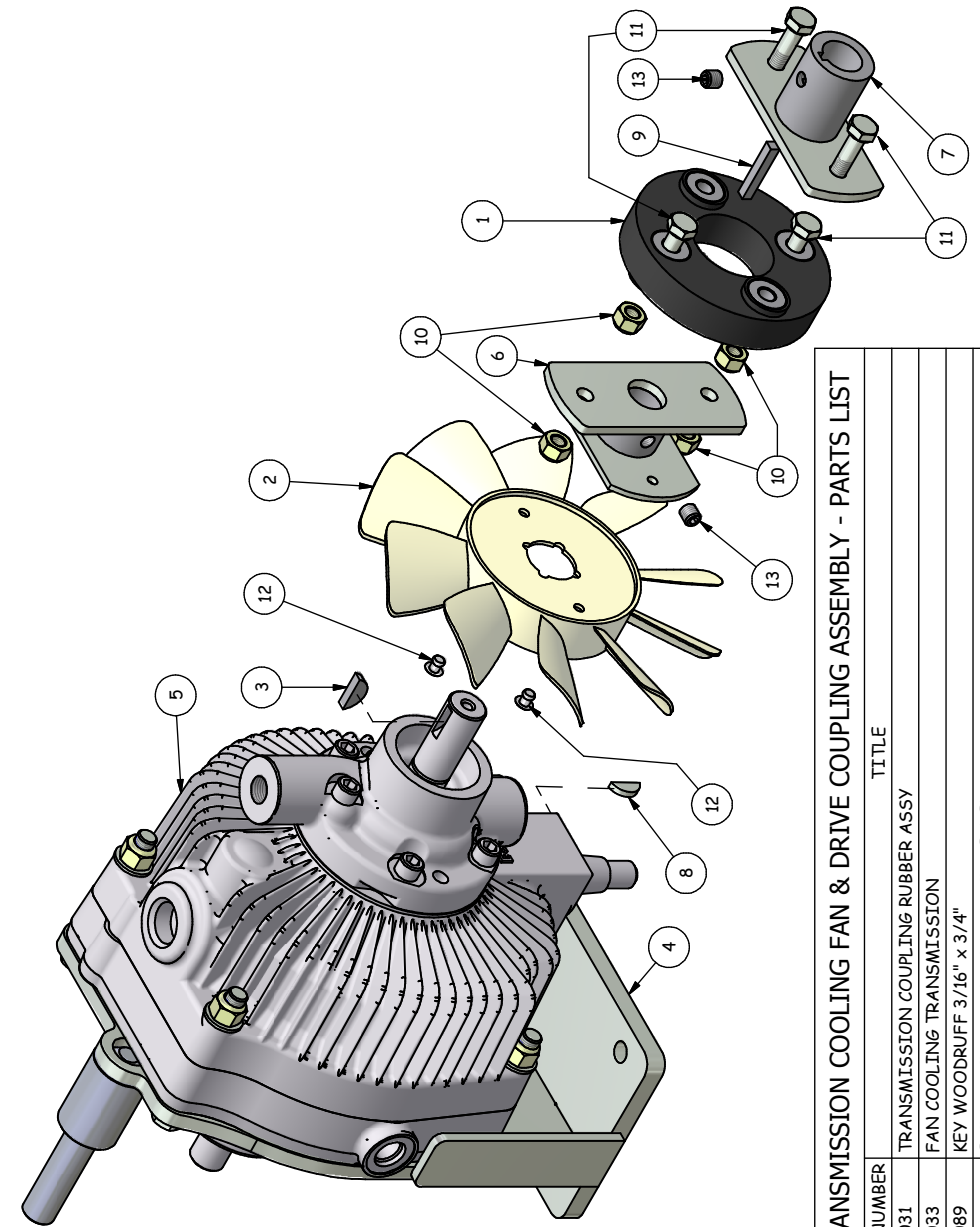
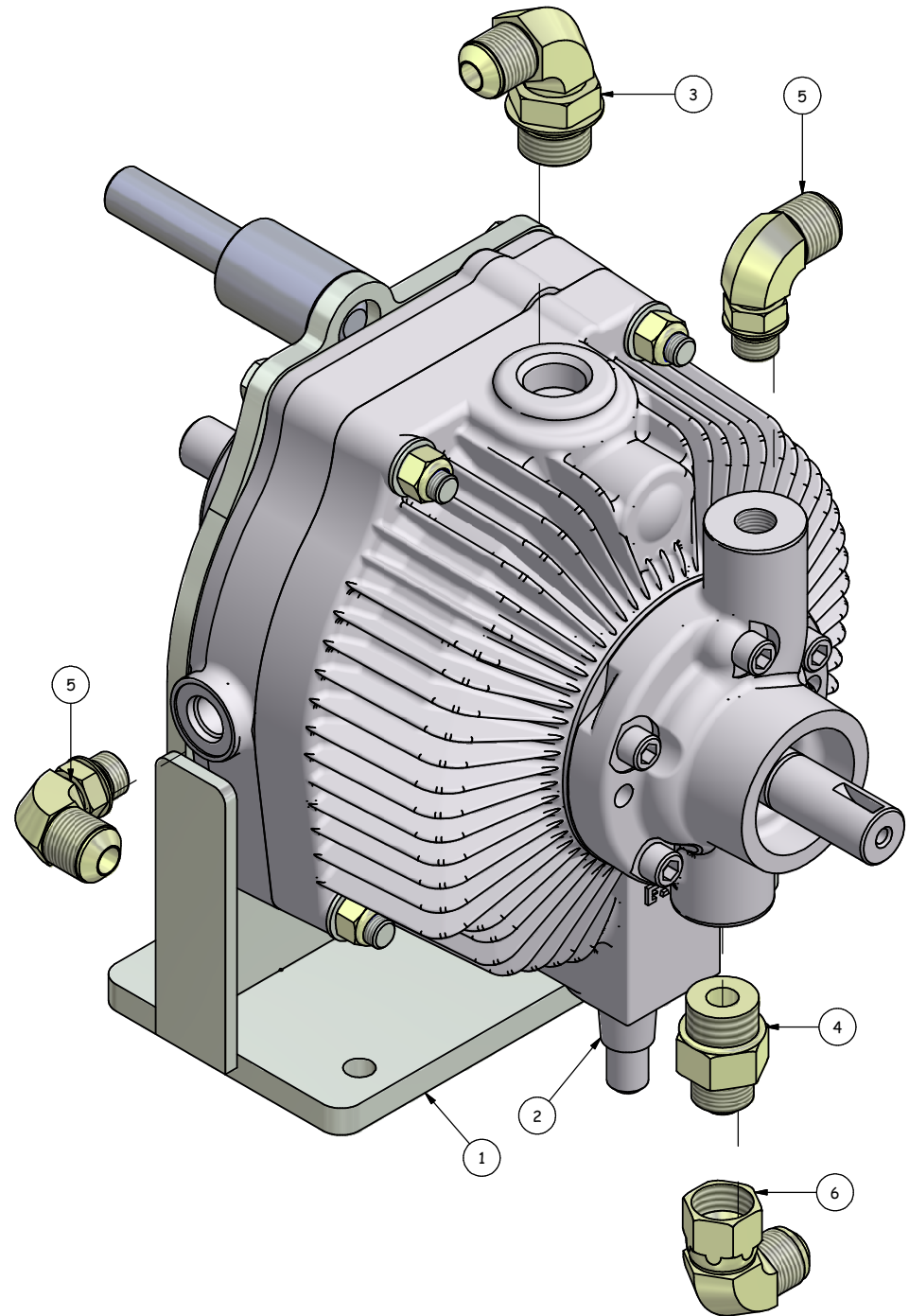
R52-11TC BRAKE ASSEMBLY - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	T7028	PART OF BODY
2	1	R8274	PART OF SEAT FRAME
3	1	R5014	GRIP HAND
4	1	R6011	SPRING BRAKE
5	5	R8048	3/8 x 3/4 WASHER ZP
6	1	R8053	1/4 UNF NYLOC NUT
7	4	R8055	3/8 UNF NYLOC NUT P-TYPE
8	1	R8056	3/8 UNF NYLOC T-TYPE NUT
9	1	R8062	1/4 x 2.1/4 UNF BOLT ZP
10	1	R8069	3/8 x 1-1/4 UNF BOLT ZP
11	1	R8070	3/8 x 1.1/2 UNF BOLT ZP
12	1	R8071	3/8 x 2.1/4 UNF BOLT ZP
13	2	R8072	3/8 x 2.1/2 UNF BOLT ZP
14	1	R8280	BRAKE PLATE FOLDED
15	1	T7017	HAND BRAKE
16	1	T7018	BRAKE BEARING PIVOT ARM
17	1	T7019	BEARING BRAKE
18	1	T7021	BRAKE ARM ROD ASSY



Transmission

Fan & Coupling

EATON 11 TRANSMISSION - OIL PIPE FITTINGS - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	R5131	EATON 11 TRANSMISSION BRKT WELDED ASSY
2	1	R5133	EATON 11 HYDROSTATIC TRANSMISSION
3	1	R5227	FITTING 90 DEG ELBOW M-10 ORB TO M-8 JIC (6-NP-90-1214)
4	1	R5230	FITTING STRAIGHT M-10 ORB TO M-8 JIC (590-1214)
5	2	R5233	FITTING 90 DEG ELBOW M-6 ORB TO M-8 JIC (6-NP-90-1209)
6	1	R5234	FITTING 90 DEG ELBOW F-8 JIC SWIVEL TO M-8 JIC (6-J-90-1212)

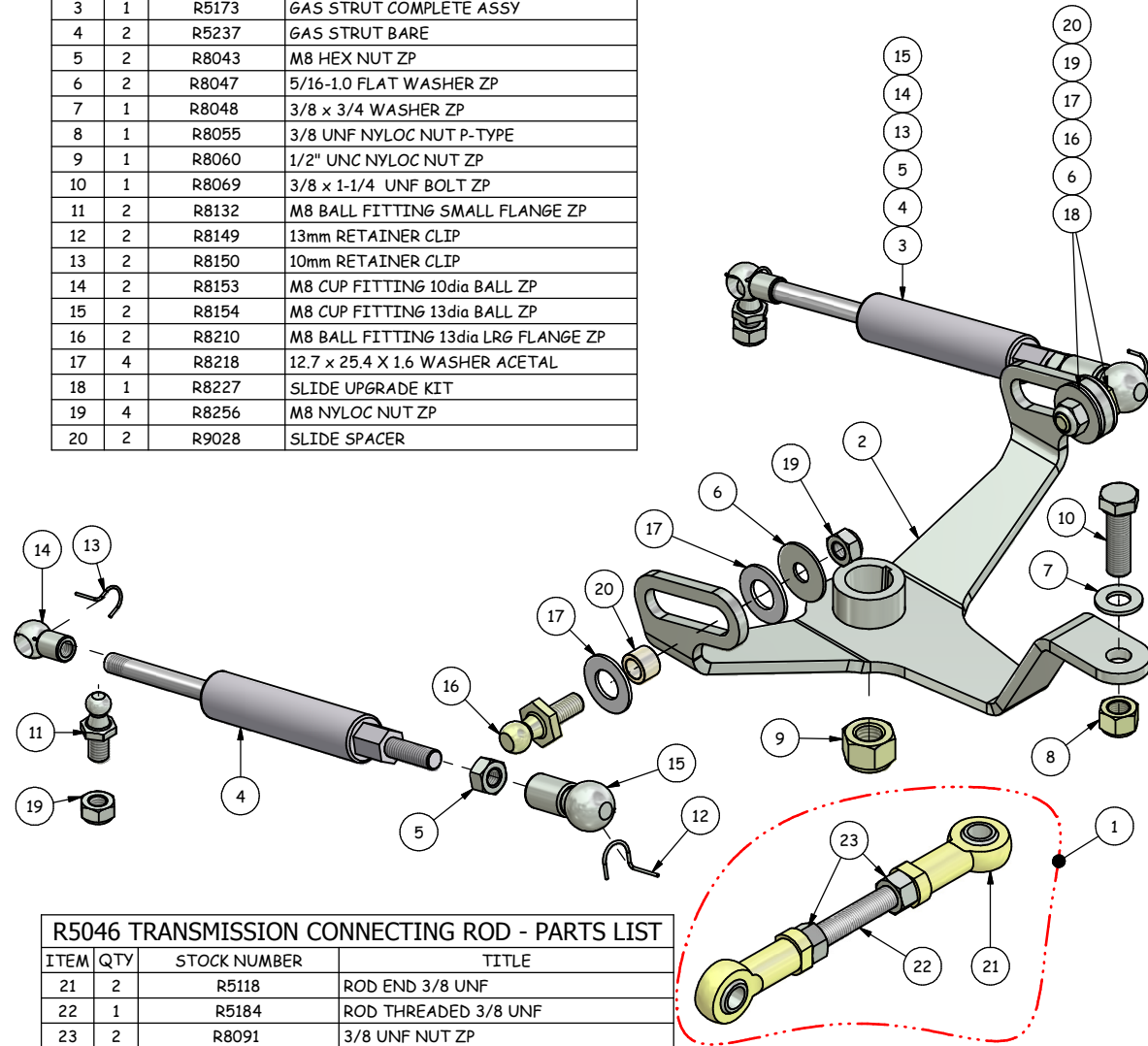


EATON 11 TRANSMISSION COOLING FAN & DRIVE COUPLING ASSEMBLY - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	R5031	TRANSMISSION COUPLING RUBBER ASSY
2	1	R5033	FAN COOLING TRANSMISSION
3	1	R5089	KEY WOODRUFF 3/16" x 3/4"
4	1	R5131	EATON 11 TRANSMISSION BRKT WELDED ASSY
5	1	R5133	EATON 11 HYDROSTATIC TRANSMISSION
6	1	R5139	COUPLING WELDED ASSY EATON 11 TRANS
7	1	R5140	ENGINE DRIVE COUPLING WELDED ASSY HONDA 5.5HP
8	1	R5156	WOODRUFF KEY 1.8 x 5.8
9	1	R5195	KEY SHAFT HONDA ENGINE
10	4	R8054	5/16 UNF NYLOC NUT
11	4	R8065	5/16 x 1.1/2 UNF BOLT ZP
12	2	R8076	RIVET ALUMINIUM 6-3
13	2	R8079	5/16 x 5/16 GRUB SCREW BLK

Yoke & Struts

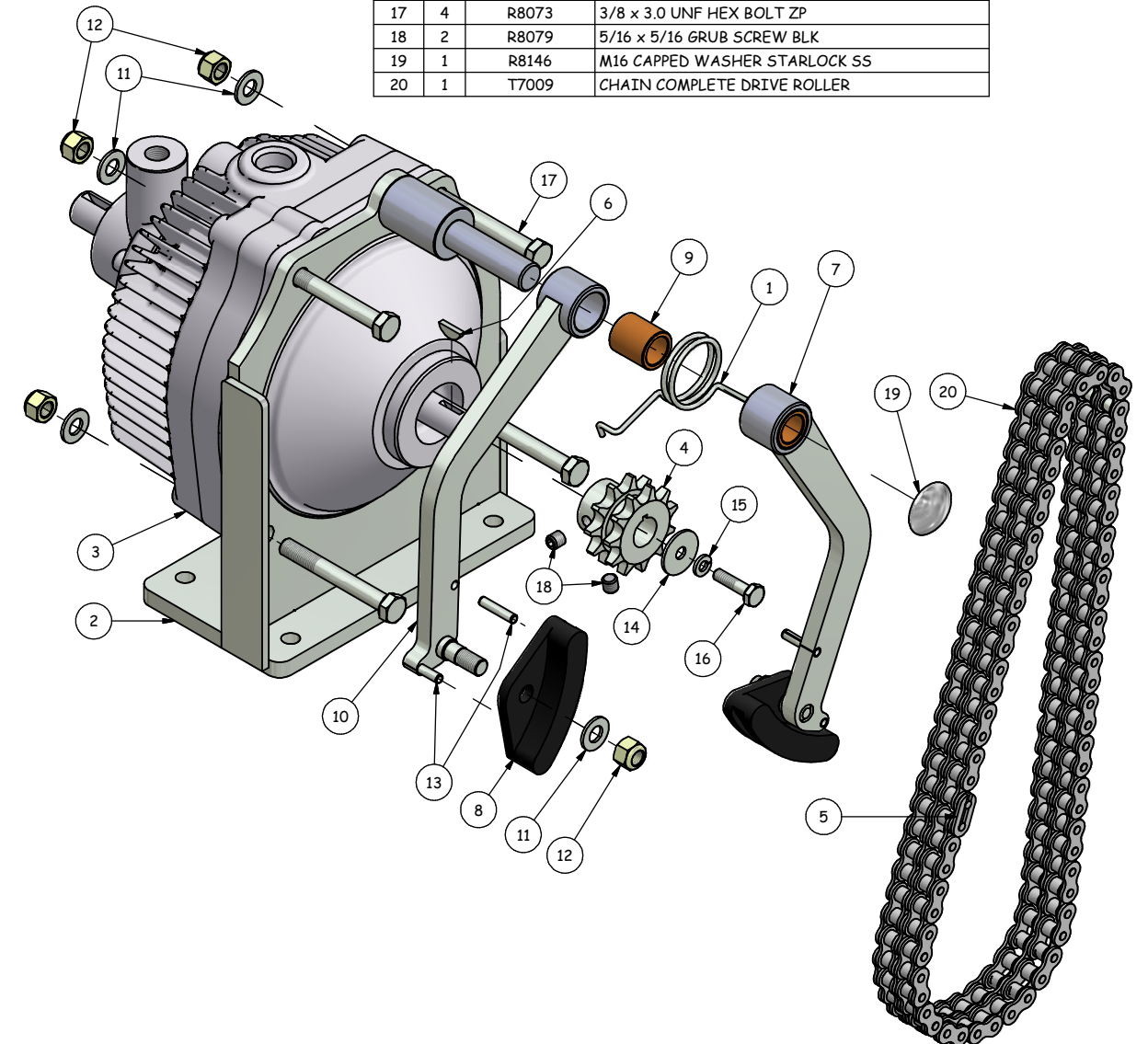
Chain Tensioner & Chain

YOKE & STRUTS - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	R5046	CONNECTING ROD ASSY
2	1	R5171	TRANSMISSION YOKE
3	1	R5173	GAS STRUT COMPLETE ASSY
4	2	R5237	GAS STRUT BARE
5	2	R8043	M8 HEX NUT ZP
6	2	R8047	5/16-1.0 FLAT WASHER ZP
7	1	R8048	3/8 x 3/4 WASHER ZP
8	1	R8055	3/8 UNF NYLOC NUT P-TYPE
9	1	R8060	1/2" UNC NYLOC NUT ZP
10	1	R8069	3/8 x 1-1/4 UNF BOLT ZP
11	2	R8132	M8 BALL FITTING SMALL FLANGE ZP
12	2	R8149	13mm RETAINER CLIP
13	2	R8150	10mm RETAINER CLIP
14	2	R8153	M8 CUP FITTING 10dia BALL ZP
15	2	R8154	M8 CUP FITTING 13dia BALL ZP
16	2	R8210	M8 BALL FITTING 13dia LRG FLANGE ZP
17	4	R8218	12.7 x 25.4 X 1.6 WASHER ACETAL
18	1	R8227	SLIDE UPGRADE KIT
19	4	R8256	M8 NYLOC NUT ZP
20	2	R9028	SLIDE SPACER

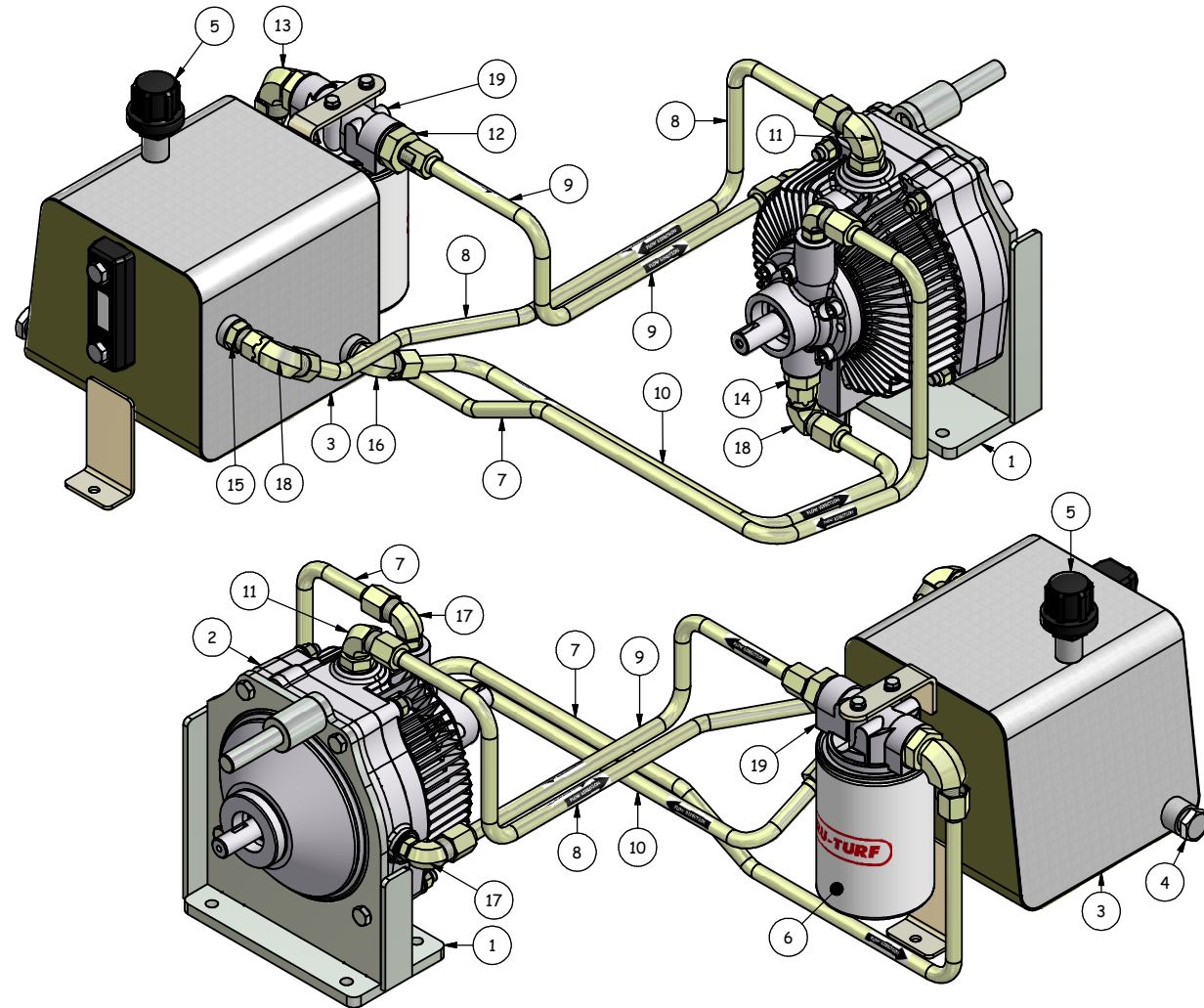


R5046 TRANSMISSION CONNECTING ROD - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
21	2	R5118	ROD END 3/8 UNF
22	1	R5184	ROD THREADED 3/8 UNF
23	2	R8091	3/8 UNF NUT ZP

R52-11TC CHAIN & TENSIONERS - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	R5094	SPRING TENSIONED CHAIN ARM
2	1	R5131	EATON 11 TRANSMISSION BRKT WELDED ASSY
3	1	R5133	EATON 11 HYDROSTATIC TRANSMISSION
4	1	R5136	SPROCKET PINION TRANSMISSION
5	1	R5138	JOINER LINK DRIVE CHAIN
6	1	R5156	WOODRUFF KEY 1_8 x 5_8
7	2	R5251	CHAIN TENSIONER ASSY COMPLETE
8	1	E7044	CHAIN TENSION GUIDE
9	2	R5099	BUSH BRONZE CHAIN TENSIONER ARMS
10	2	R5132	CHAIN TENSION ARM WELDED ASSY
11	6	R8048	3/8 x 3/4 WASHER ZP
12	6	R8055	3/8 UNF NYLOC NUT P-TYPE
13	4	R8293	ROLL SPRING PIN M5 x 24
14	1	R8045	1/4 x 1.0 WASHER ZP
15	1	R8050	1/4 SPRING WASHER ZP
16	1	R8059	1/4 x 1.0 UNC BOLT ZP
17	4	R8073	3/8 x 3.0 UNF HEX BOLT ZP
18	2	R8079	5/16 x 5/16 GRUB SCREW BLK
19	1	R8146	M16 CAPPED WASHER STARLOCK SS
20	1	T7009	CHAIN COMPLETE DRIVE ROLLER

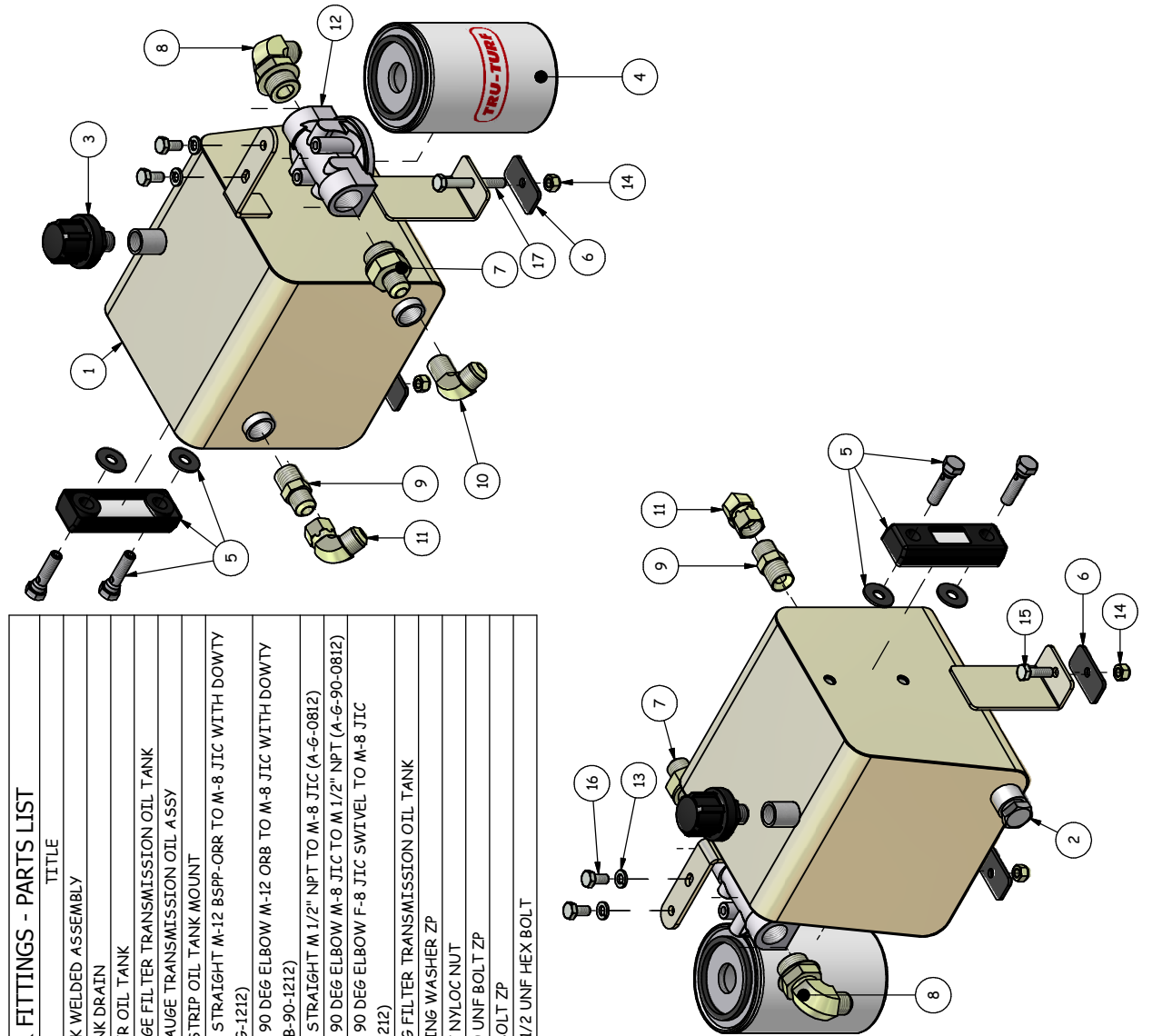


Oil Tank & Pipes



TRANSMISSION, TANK & OIL PIPES ASSEMBLY - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	R5131	EATON 11 TRANSMISSION BRKT WELDED ASSY
2	1	R5133	EATON 11 HYDROSTATIC TRANSMISSION
3	1	R5143	OIL TANK
4	1	R5145	PLUG TANK DRAIN
5	1	R5144	BREATHER OIL TANK
6	1	R5147	CARTRIDGE FILTER TRANSMISSION OIL TANK
7	1	R5152	PIPE TRANS-PUMP TO OIL FILTER
8	1	R5153	PIPE TRANSMISSION TO OIL TANK
9	1	R5154	PIPE OIL FILTER TO ACCELERATION VALVES
10	1	R5178	PIPE OIL TANK TO TRANS-PUMP
11	1	R5227	FITTING 90 DEG ELBOW M-10 ORB TO M-8 JIC (G-NP-90-1214)
12	1	R5228	FITTING STRAIGHT M-12 BSPP-ORR TO M-8 JIC WITH DOWTY SEAL (B-6-1212)
13	1	R5229	FITTING 90 DEG ELBOW M-12 ORB TO M-8 JIC WITH DOWTY SEAL (GPB-90-1212)
14	1	R5230	FITTING STRAIGHT M-10 ORB TO M-8 JIC (S90-1214)
15	1	R5231	FITTING STRAIGHT M 1/2" NPT TO M-8 JIC (A-6-0812)
16	1	R5232	FITTING 90 DEG ELBOW M-8 JIC TO M 1/2" NPT (A-6-90-0812)
17	2	R5233	FITTING 90 DEG ELBOW M-6 ORB TO M-8 JIC (G-NP-90-1209)
18	2	R5234	FITTING 90 DEG ELBOW F-8 JIC SWIVEL TO M-8 JIC (G-J-90-1212)
19	1	R8013	HOUSING FILTER TRANSMISSION OIL TANK

Oil Tank & Fittings

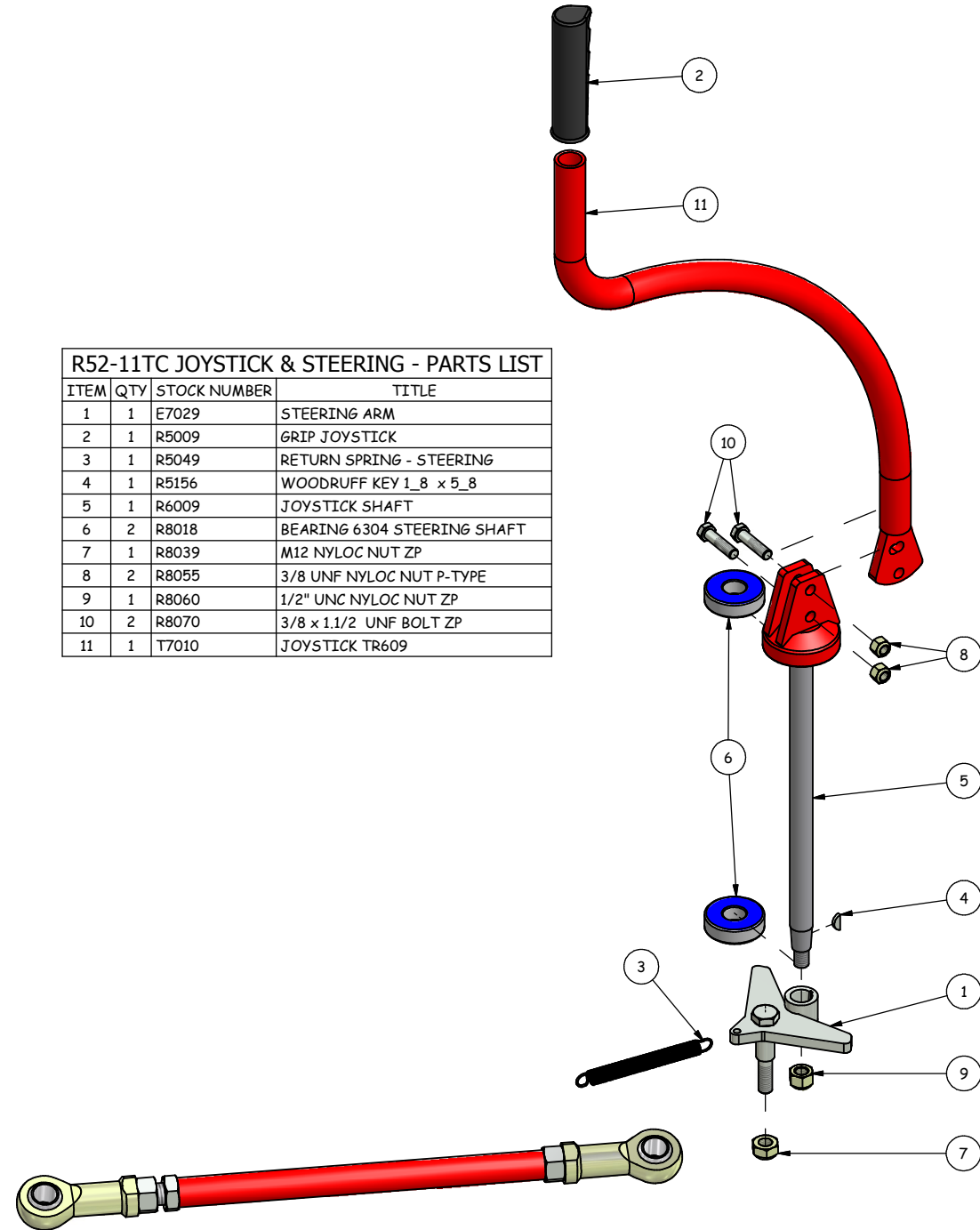


OIL TANK & FITTINGS - PARTS LIST		TITLE
ITEM	QTY	STOCK NUMBER
1	1	R5143
2	1	R5145
3	1	R5144
4	1	R5147
5	1	R5148
6	2	R5197
7	1	R5228
8	1	R5229
9	1	R5231
10	1	R5232
11	2	R5234
12	1	R8013
13	2	R8051
14	2	R8054
15	1	R8064
16	2	R8083
17	1	R8189

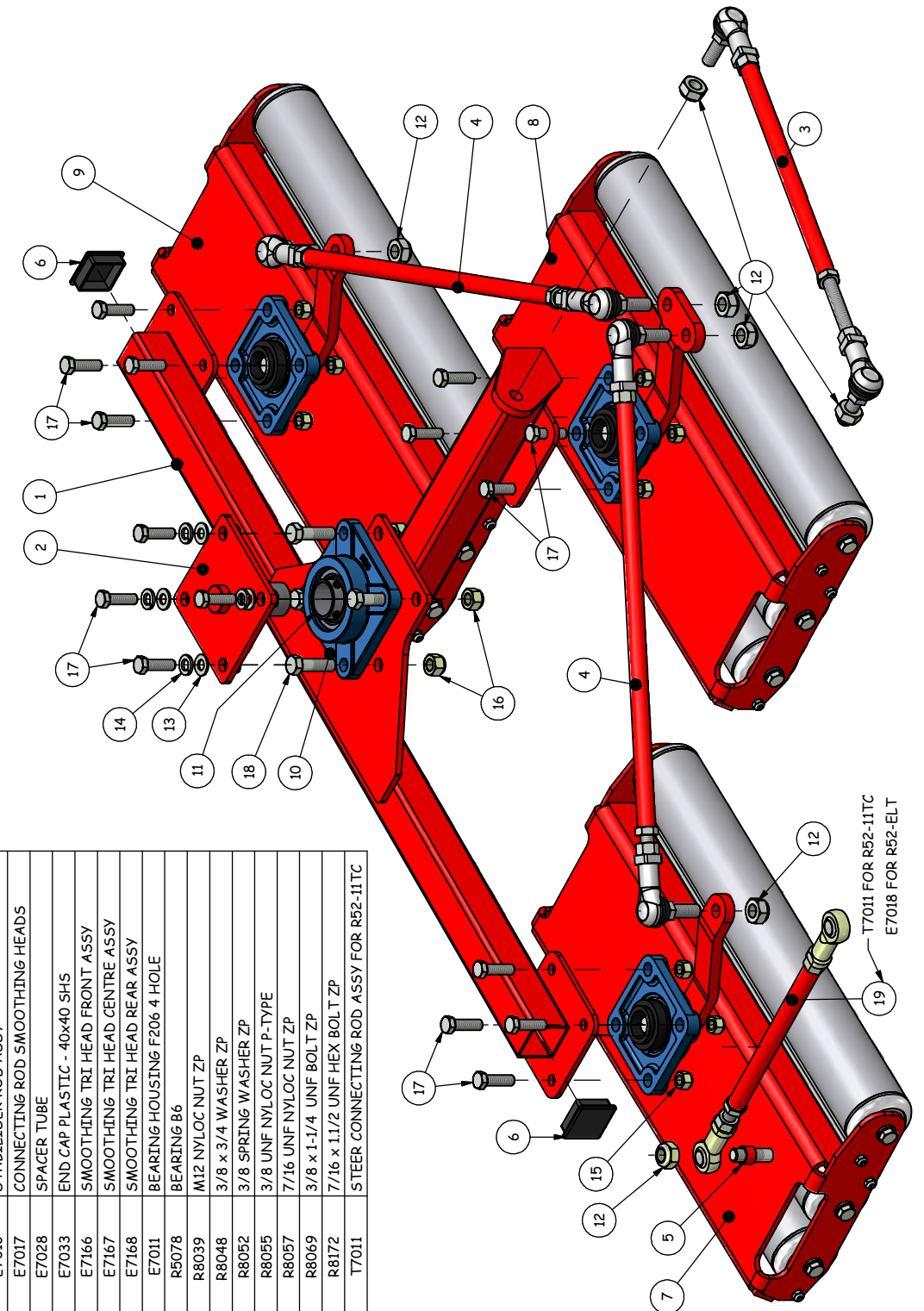
Joystick & Steering Components

Smoothing Heads

ITEM	QTY	STOCK NUMBER	TITLE
1	1	E7029	STEERING ARM
2	1	R5009	GRIP JOYSTICK
3	1	R5049	RETURN SPRING - STEERING
4	1	R5156	WOODRUFF KEY 1_8 x 5_8
5	1	R6009	JOYSTICK SHAFT
6	2	R8018	BEARING 6304 STEERING SHAFT
7	1	R8039	M12 NYLOC NUT ZP
8	2	R8055	3/8 UNF NYLOC NUT P-TYPE
9	1	R8060	1/2" UNC NYLOC NUT ZP
10	2	R8070	3/8 x 1.1/2 UNF BOLT ZP
11	1	T7010	JOYSTICK TR609



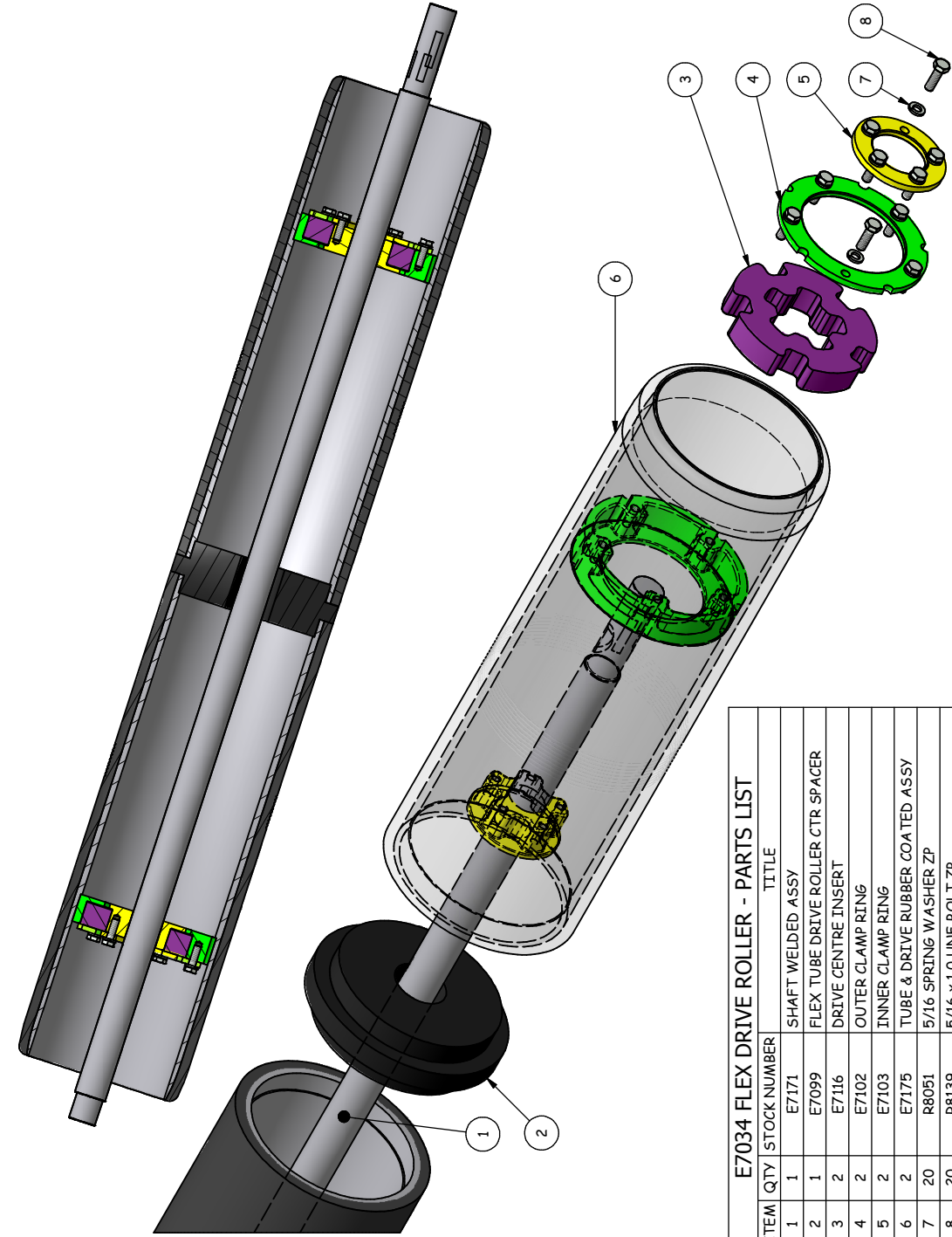
E7018 CONNECTING ROD ASSY STEERING



ITEM	QTY	STOCK NUMBER	TITLE
1	1	E7008	SMOOTHING HEAD 'T' FRAME
2	1	E7009	SHAFT PIVOT WELDED ASSY
3	1	E7016	STABILISER ROD ASSY
4	2	E7017	CONNECTING ROD SMOOTHING HEADS
5	1	E7028	SPACER TUBE
6	2	E7033	END CAP PLASTIC - 40x40 SHS
7	1	E7166	SMOOTHING TRI HEAD FRONT ASSY
8	1	E7167	SMOOTHING TRI HEAD CENTRE ASSY
9	1	E7168	SMOOTHING TRI HEAD REAR ASSY
10	1	E7011	BEARING HOUSING F206 4 HOLE
11	1	R5078	BEARING B6
12	7	R8039	M12 NYLOC NUT ZP
13	4	R8048	3/8 x 3/4 WASHER ZP
14	4	R8052	3/8 SPRING WASHER ZP
15	12	R8055	3/8 UNF NYLOC NUT P-TYPE
16	4	R8057	7/16 UNF NYLOC NUT ZP
17	16	R8069	3/8 x 1-1/4 UNF BOLT ZP
18	4	R8172	7/16 x 1.1/2 UNF HEX BOLT ZP
19	1	T7011	STEER CONNECTING ROD ASSY FOR R52-11TC

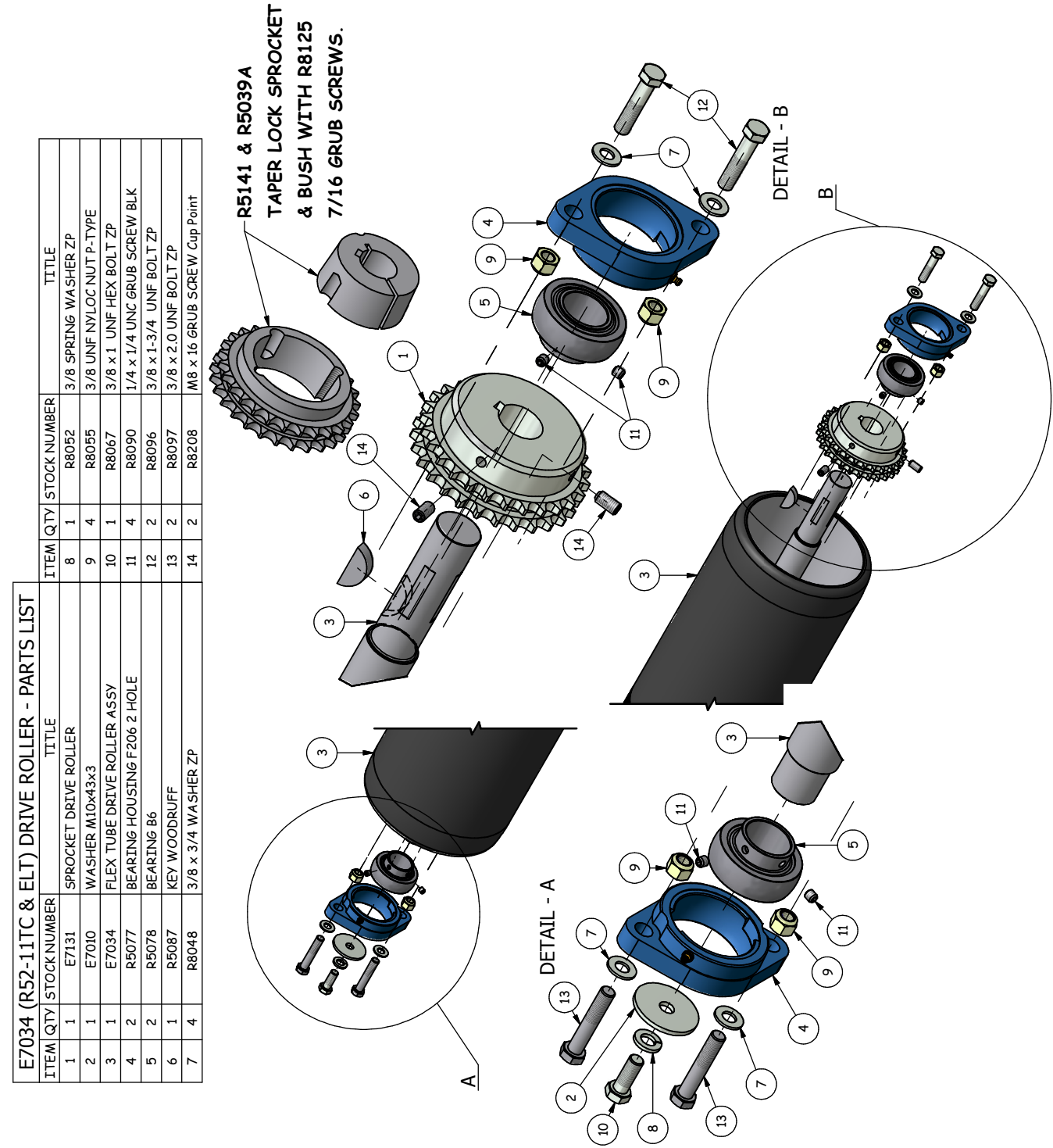
T7011 FOR R52-11TC
E7018 FOR R52-ELT

Drive Roller



ITEM	QTY	STOCK NUMBER	TITLE
1	1	E7171	SHAFT WELDED ASSY
2	1	E7099	FLEX TUBE DRIVE ROLLER CTR SPACER
3	2	E7116	DRIVE CENTRE INSERT
4	2	E7102	OUTER CLAMP RING
5	2	E7103	INNER CLAMP RING
6	2	E7175	TUBE & DRIVE RUBBER COATED ASSY
7	20	R8051	5/16 SPRING WASHER ZP
8	20	R8139	5/16 x 1.0 UNF BOLT ZP

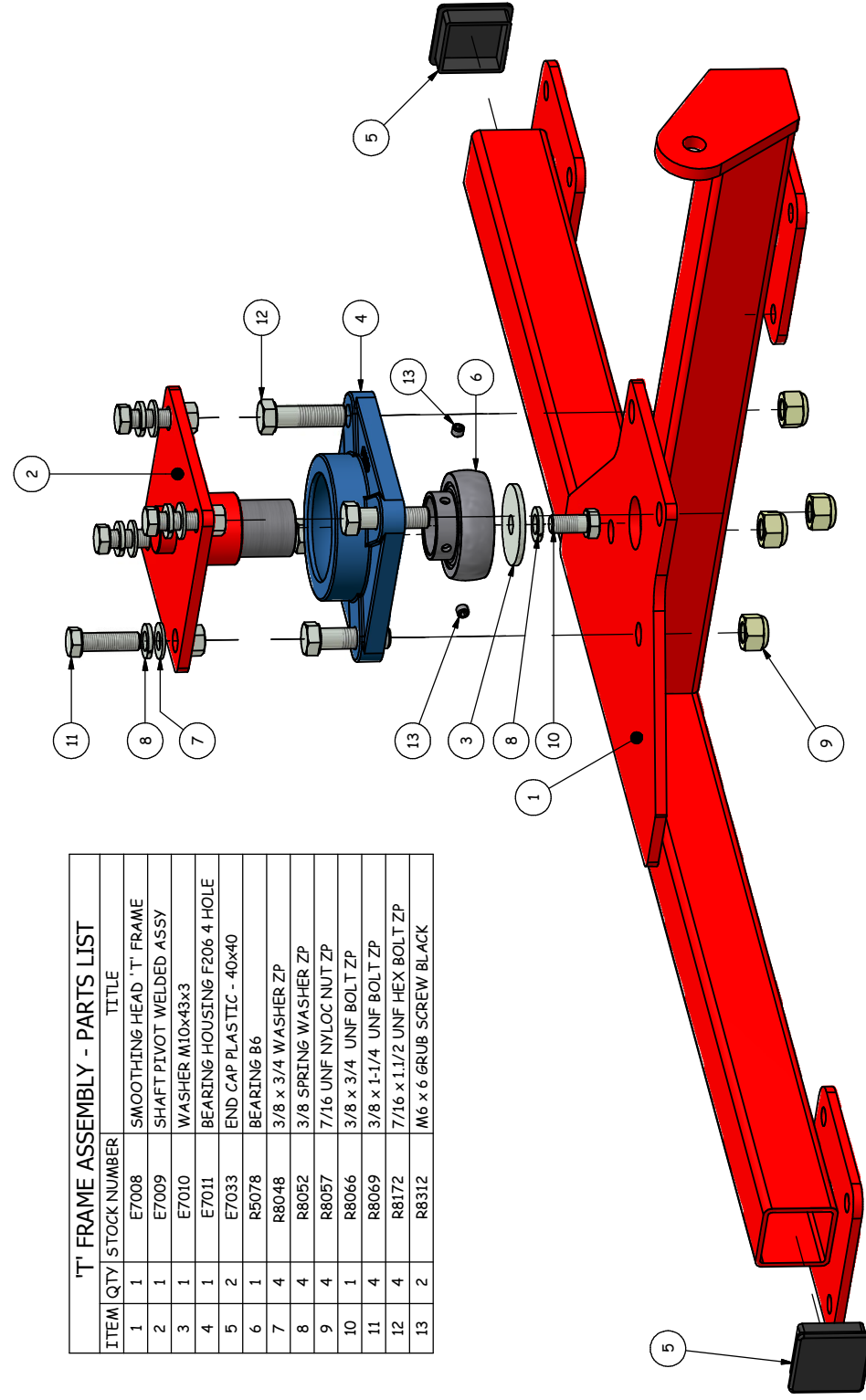
Drive Roller Sprocket & Bearings



E7034 (R52-11TC & ELT) DRIVE ROLLER - PARTS LIST

ITEM	QTY	STOCK NUMBER	TITLE
1	1	E7131	SPROCKET DRIVE ROLLER
2	1	E7010	WASHER M10x43x3
3	1	E7034	FLEX TUBE DRIVE ROLLER ASSY
4	2	R5077	BEARING HOUSING F206 2 HOLE
5	2	R5078	BEARING B6
6	1	R5087	KEY WOODRUFF
7	4	R8048	3/8 x 3/4 WASHER ZP
8	1	R8052	3/8 SPRING WASHER ZP
9	4	R8055	3/8 UNF NYLOC NUT P-TYPE
10	1	R8067	3/8 x 1 UNF HEX BOLT ZP
11	4	R8090	1/4 x 1/4 UNC GRUB SCREW BLK
12	2	R8096	3/8 x 1-3/4 UNF BOLT ZP
13	2	R8097	3/8 x 2.0 UNF BOLT ZP
14	2	R8208	M8 x 16 GRUB SCREW Cup Point

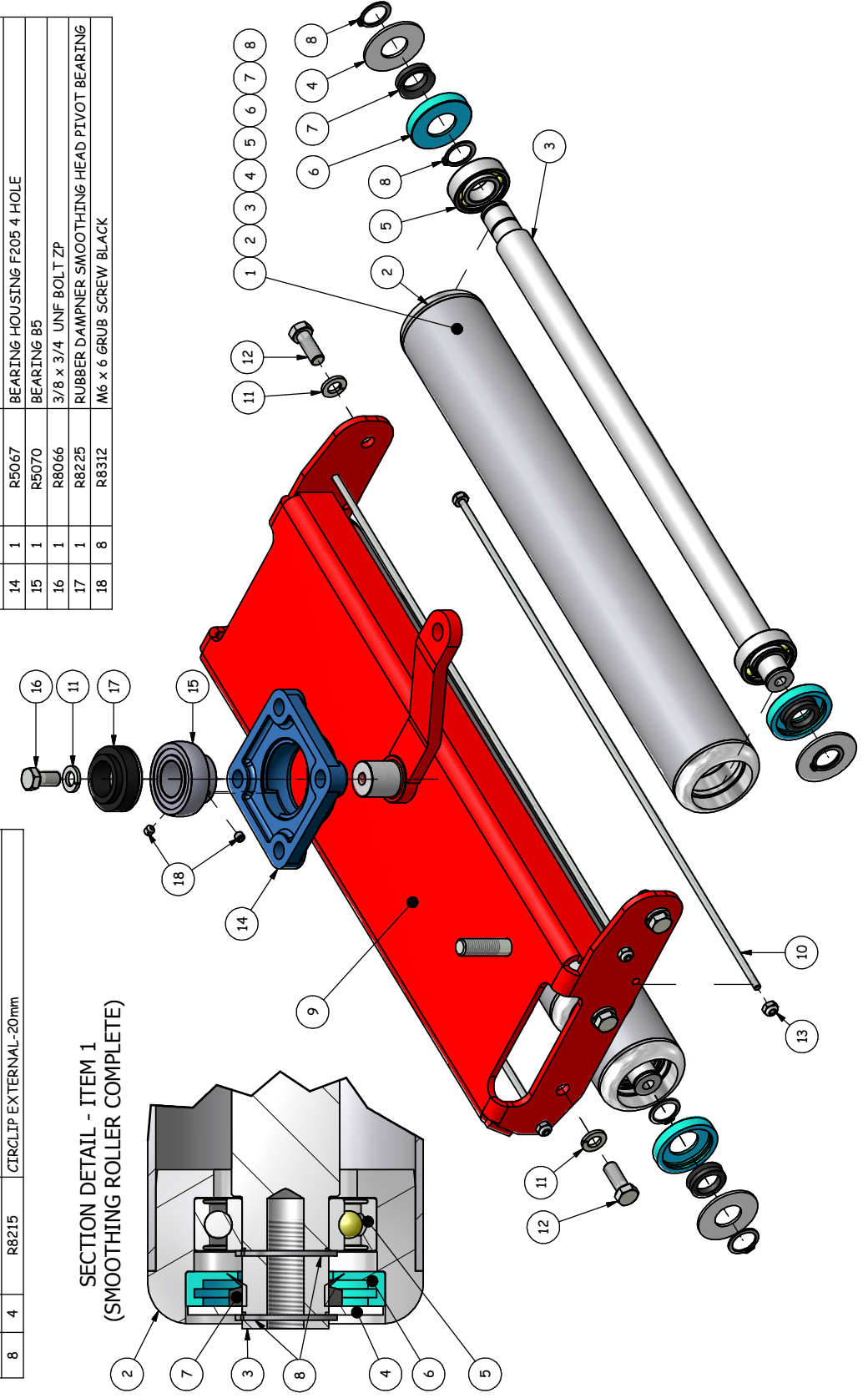
Pivoting Head



T' FRAME ASSEMBLY - PARTS LIST		
ITEM QTY	STOCK NUMBER	TITLE
1	E7008	SMOOTHING HEAD 'T' FRAME
2	E7009	SHAFT PIVOT WELDED ASSY
3	E7010	WASHER M10x43x3
4	E7011	BEARING HOUSING F206 4 HOLE
5	E7033	END CAP PLASTIC - 40x40
6	R5078	BEARING B6
7	R8048	3/8 x 3/4 WASHER ZP
8	R8052	3/8 SPRING WASHER ZP
9	R8057	7/16 UNF NYLOC NUT ZP
10	R8066	3/8 x 3/4 UNF BOLT ZP
11	R8069	3/8 x 1-1/4 UNF BOLT ZP
12	R8172	7/16 x 1.1/2 UNF HEX BOLT ZP
13	R8312	M6 x 6 GRUB SCREW BLACK

Smoothing Head Exploded

E7166 SMOOTHING HEAD ASSEMBLY - PARTS LIST		
ITEM QTY	STOCK NUMBER	TITLE
1	E7149	SMOOTHING ROLLER ASSY - TRI HEAD
9	E7156	SMOOTHING HEAD STEER WELDED ASSY
10	E7170	ROD SCRAPER 3/16
11	R8052	3/8 SPRING WASHER ZP
12	R8067	3/8 x 1 UNF HEX BOLT ZP
13	R8250	3/16 UNF NYLOC NUT SS
14	R5067	BEARING HOUSING F205 4 HOLE
15	R5070	BEARING B5
16	R8066	3/8 x 3/4 UNF BOLT ZP
17	R8225	RUBBER DAMPNER SMOOTHING HEAD PIVOT BEARING
18	R8312	M6 x 6 GRUB SCREW BLACK



E7149 SMOOTHING ROLLER ASSEMBLY - PARTS LIST		
ITEM QTY	STOCK NUMBER	TITLE
2	E7134	TUBE & ENDS SMOOTHING ROLLER TRI HEAD
3	E7135	SHAFT SMOOTHING ROLLER TRI HEAD
4	R8209	SHIELD - END CAP 63.5 DIA
5	R8212	BEARING - END CAP
6	R8213	SEAL INSERT - END CAP
7	R8214	SEAL V-RING V20A
8	R8215	CIRCLIP EXTERNAL-20mm

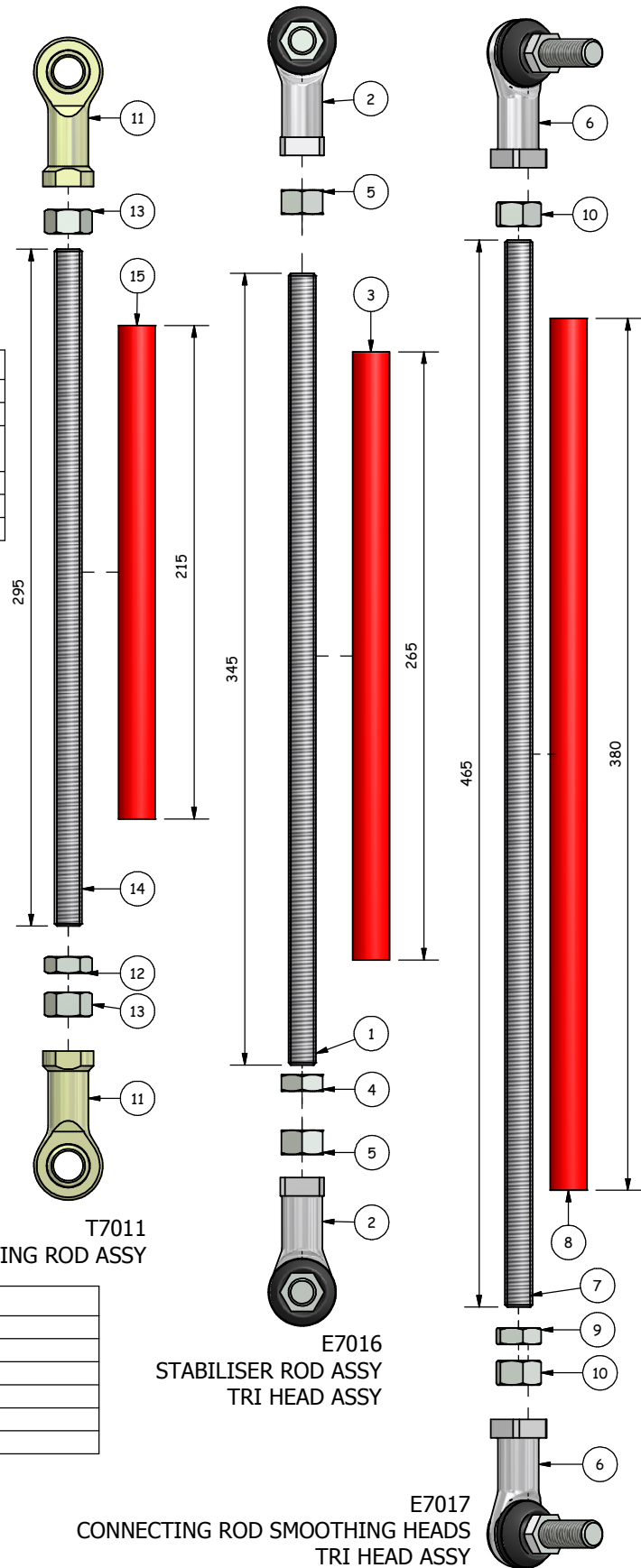
SECTION DETAIL - ITEM 1
(SMOOTHING ROLLER COMPLETE)

Connecting Rods

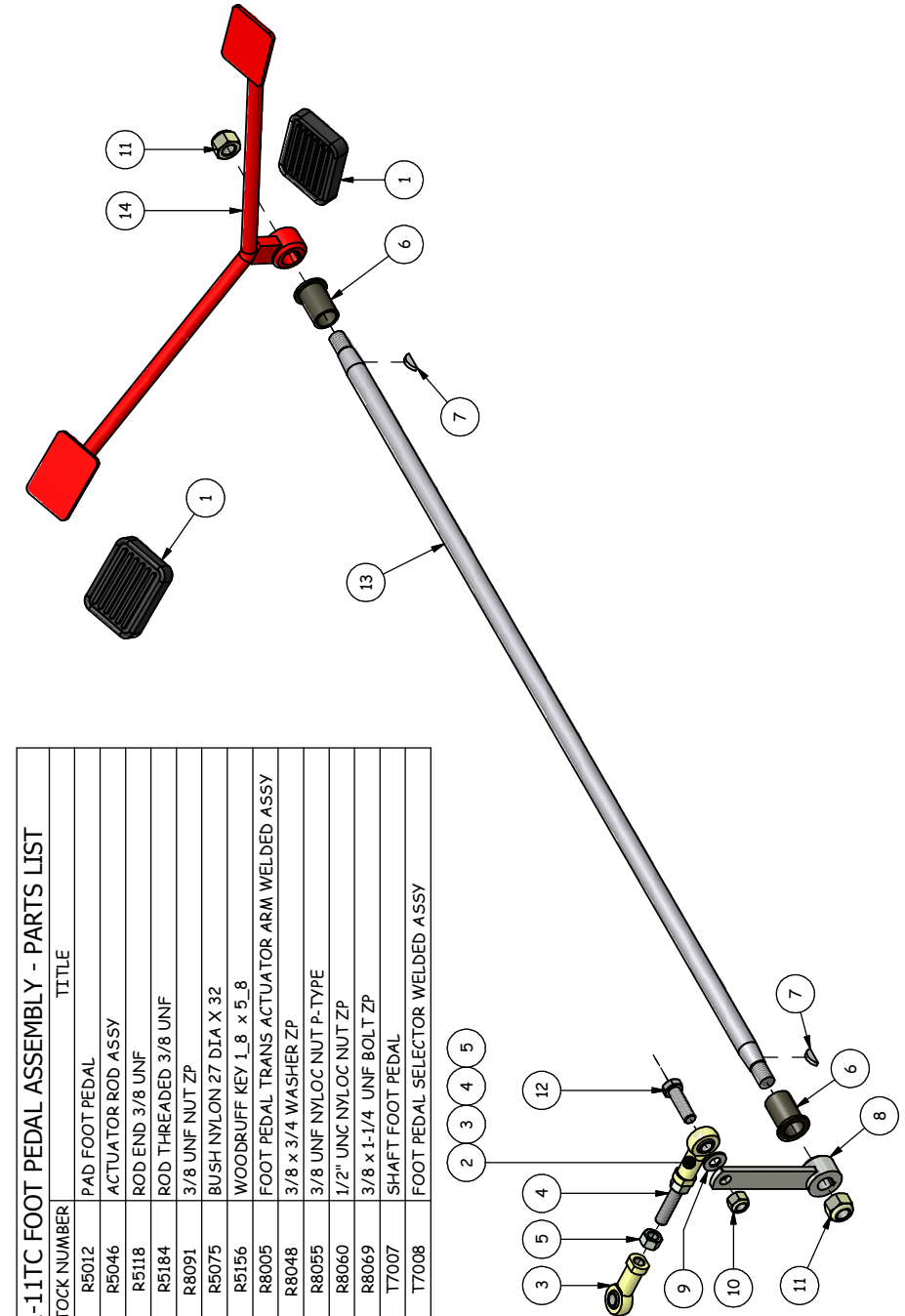
Foot Pedal Control

E7016 - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
1	1	E7015	ROD THREADED
2	2	E7019	ROD END FEMALE STUDDED M12X1.75
3	1	E7025	TUBE TIE ROD STABILISER
4	1	R8086	M12 HALF NUT ZP
5	2	R8087	M12 FULL NUT ZP

E7017 - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
6	2	E7019	ROD END FEMALE STUDDED M12X1.75
7	1	E7023	ROD THREADED M12
8	1	E7024	TUBE CONNECTING ROD
9	1	R8086	M12 HALF NUT ZP
10	2	R8087	M12 FULL NUT ZP

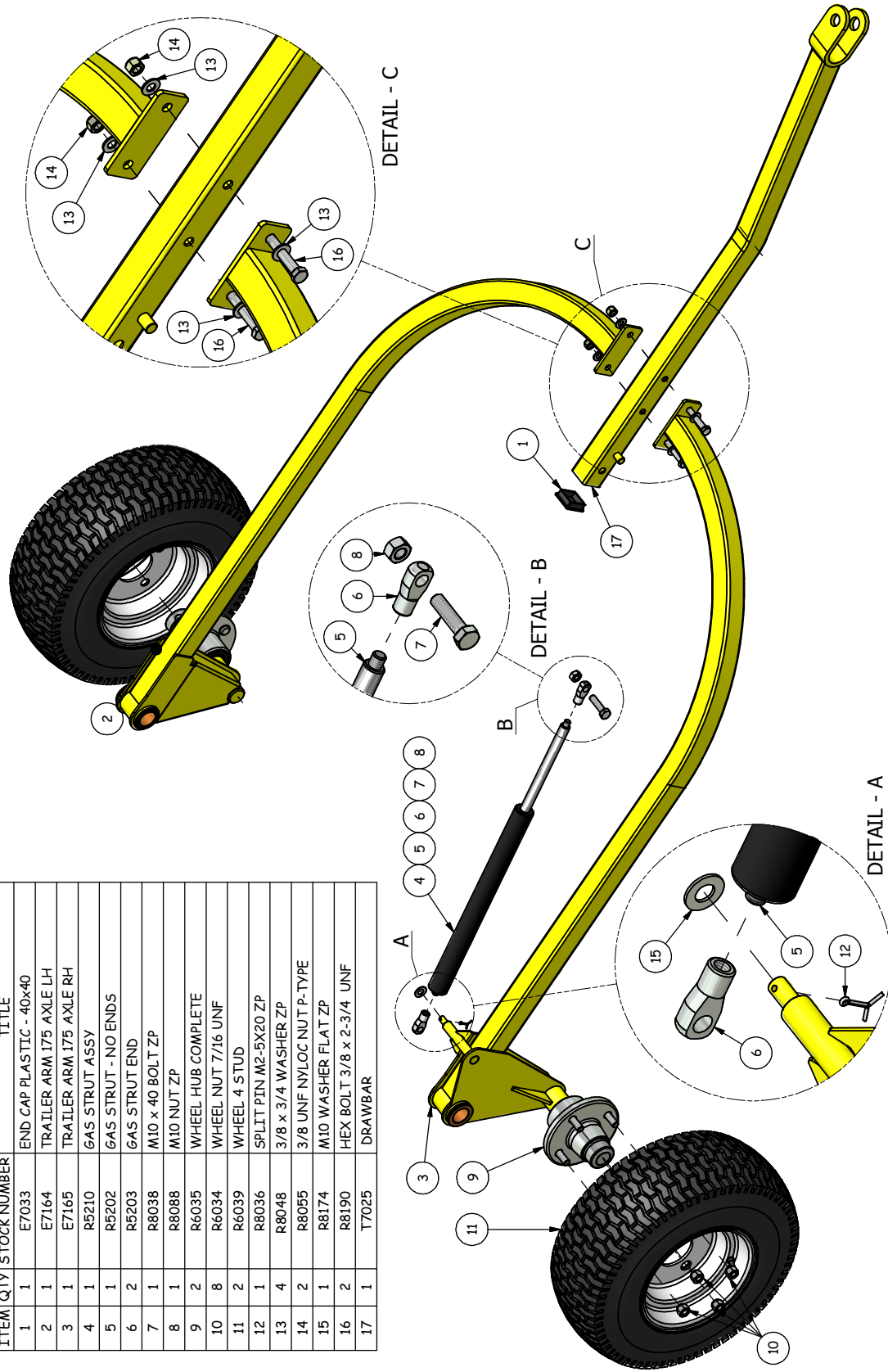


T7011 - PARTS LIST			
ITEM	QTY	STOCK NUMBER	TITLE
11	2	E7020	ROD END FEMALE M12
12	1	R8086	M12 HALF NUT ZP
13	2	R8087	M12 FULL NUT ZP
14	1	T7012	ROD THREADED STEERING
15	1	T7013	TUBE TIE ROD STEERING



R52-11TC FOOT PEDAL ASSEMBLY - PARTS LIST	
ITEM QTY	STOCK NUMBER TITLE
1 2	R5012 PAD FOOT PEDAL
2 1	R5046 ACTUATOR ROD ASSY
3 2	R5118 ROD END 3/8 UNF
4 1	R5184 ROD THREADED 3/8 UNF
5 2	R8091 3/8 UNF NUT ZP
6 2	R5075 BUSH NYLON 27 DIA X 32
7 2	R5156 WOODRUFF KEY 1.8 x 5.8
8 1	R8005 FOOT PEDAL TRANS ACTUATOR ARM WELDED ASSY
9 1	R8048 3/8 x 3/4 WASHER ZP
10 1	R8055 3/8 UNF NYLOC NUT P-TYPE
11 2	R8060 1/2" UNC NYLOC NUT ZP
12 1	R8069 3/8 x 1-1/4 UNF BOLT ZP
13 1	T7007 SHAFT FOOT PEDAL
14 1	T7008 FOOT PEDAL SELECTOR WELDED ASSY

R52-11T & TC TRAILER ASSY - PARTS LIST			
ITEM	QTY / STOCK NUMBER	TITLE	
1	1	E7033	END CAP PLASTIC - 40x40
2	1	E7164	TRAILER ARM 175 AXLE LH
3	1	E7165	TRAILER ARM 175 AXLE RH
4	1	R5210	GAS STRUT ASSY
5	1	R5202	GAS STRUT - NO ENDS
6	2	R5203	GAS STRUT END
7	1	R8038	M10 x 40 BOLT ZP
8	1	R8088	M10 NUT ZP
9	2	R6035	WHEEL HUB COMPLETE
10	8	R6034	WHEEL NUT 7/16 UNF
11	2	R6039	WHEEL 4 STUD
12	1	R8036	SPLIT PIN M2-5X20 ZP
13	4	R8048	3/8 x 3/4 WASHER ZP
14	2	R8055	3/8 UNF NYLOC NUT P-TYPE
15	1	R8174	M10 WASHER FLAT ZP
16	2	R8190	HEX BOLT 3/8 x 2-3/4 UNF
17	1	T7025	DRAWBAR

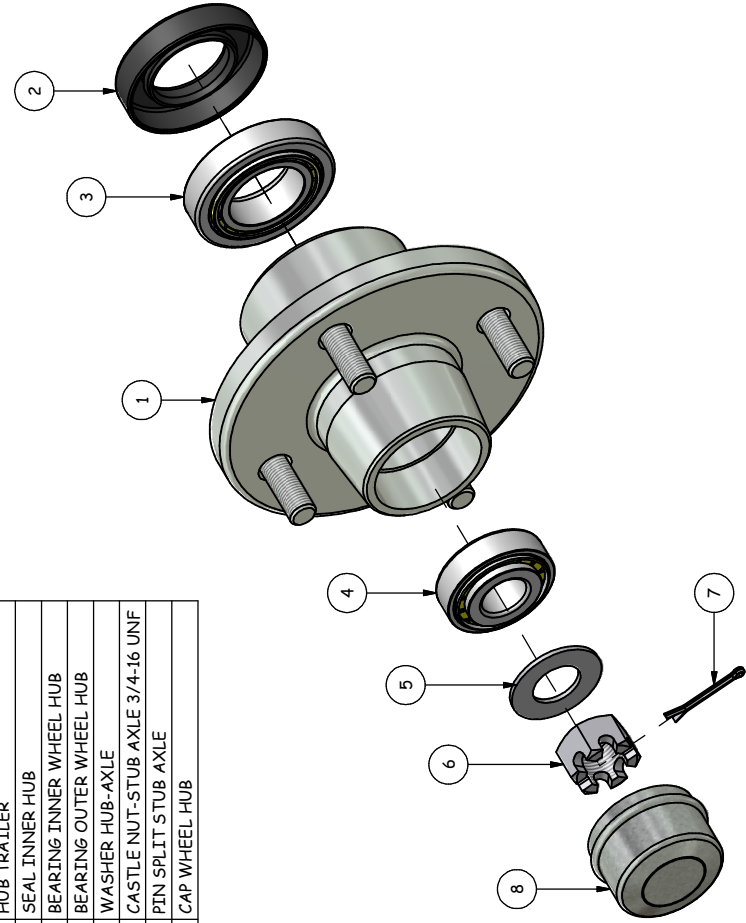


E7165 TRAILER ARM ASSEMBLY - PARTS LIST			
ITEM	QTY / STOCK NUMBER	TITLE	
1	1	E7165	TRAILER 175 AXLE RH WELDED ASSY
2	1	E7006	BUSH PLAIN BRONZE
3	1	E7007	BUSH FLANGED BRONZE
4	1	R6035	WHEEL HUB COMPLETE

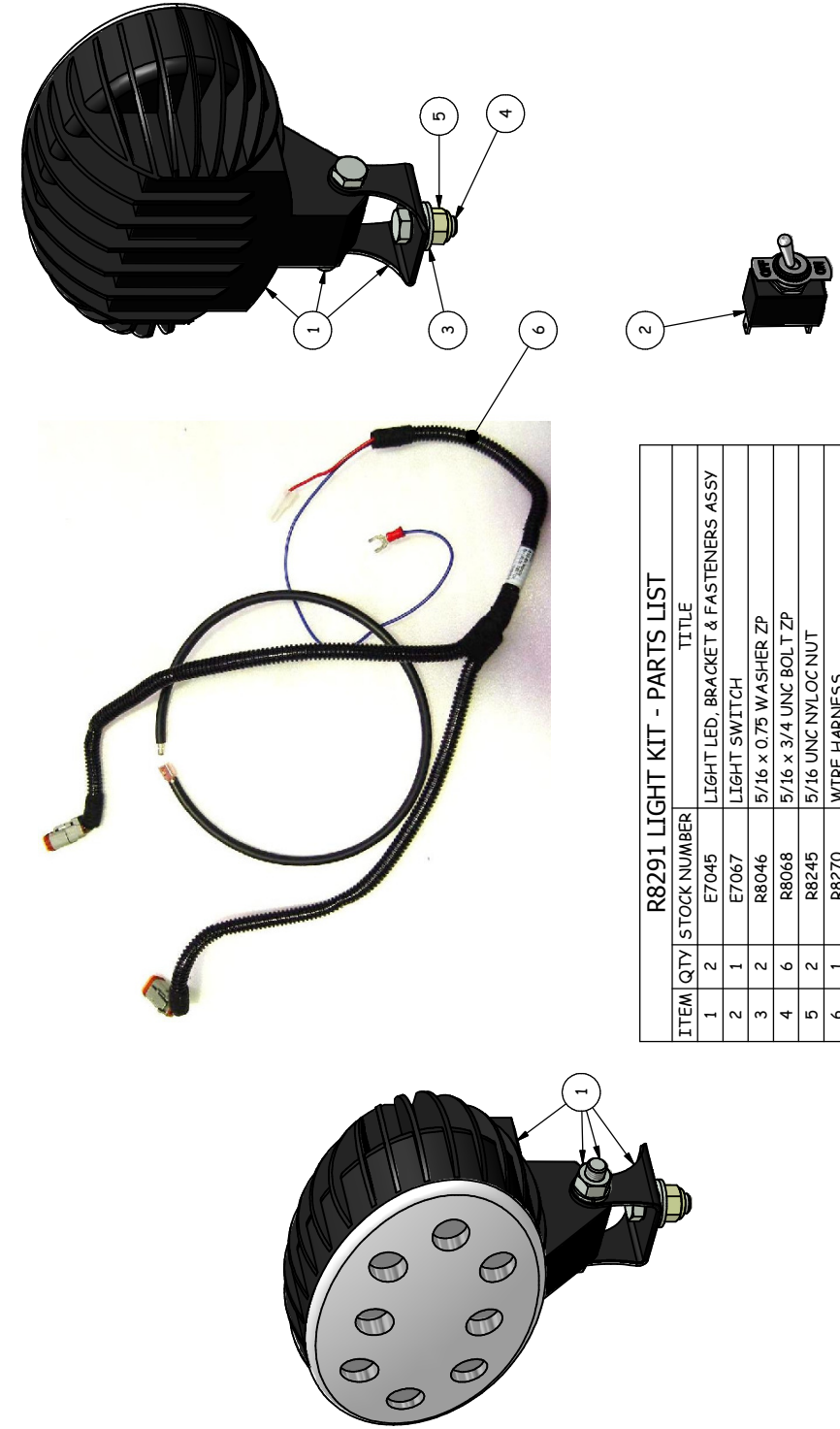


Wheel Hub & Bearings

R6035 HUB COMPLETE - PARTS LIST		
ITEM	QTY	STOCK NUMBER TITLE
1	1	R6026 HUB TRAILER
2	1	R6027 SEAL INNER HUB
3	1	R6028 BEARING INNER WHEEL HUB
4	1	R6029 BEARING OUTER WHEEL HUB
5	1	R6030 WASHER HUB-AXLE
6	1	R6031 CASTLE NUT-STUB AXLE 3/4-16 UNF
7	1	R6032 PIN SPLIT STUB AXLE
8	1	R6033 CAP WHEEL HUB

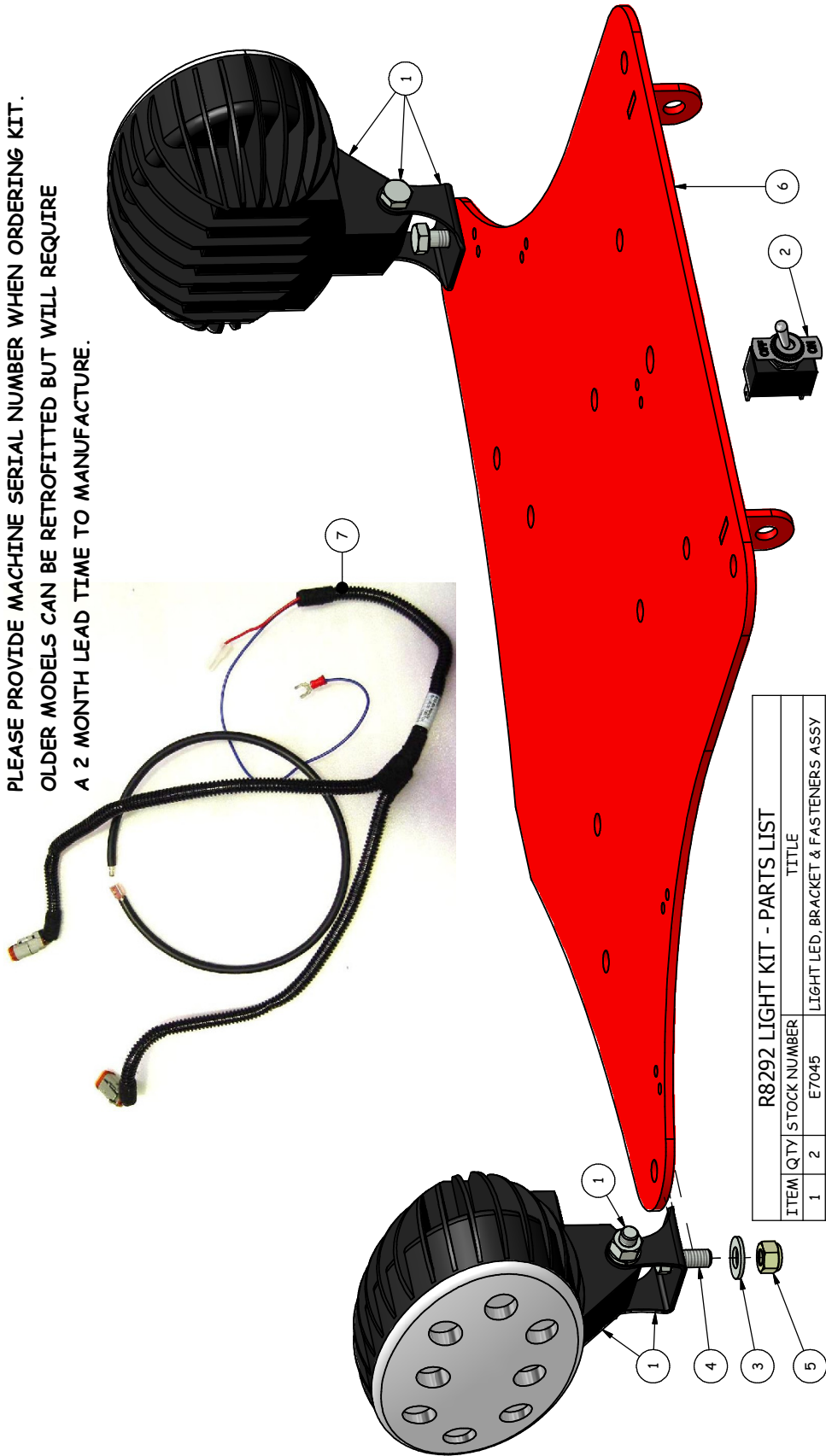


Light Kit without base



R8291 LIGHT KIT - PARTS LIST		
ITEM	QTY	STOCK NUMBER TITLE
1	2	E7045 LIGHT LED, BRACKET & FASTENERS ASSY
2	1	E7067 LIGHT SWITCH
3	2	R8046 5/16 x 0.75 WASHER ZP
4	6	R8068 5/16 x 3/4 UNC BOLT ZP
5	2	R8245 5/16 UNC NYLOC NUT
6	1	R8270 WIRE HARNESS

SUITS ALL MODELS FROM R548 - 11C ONWARDS.
 TO ENSURE KIT WILL FIT YOUR MACHINE
 PLEASE PROVIDE MACHINE SERIAL NUMBER WHEN ORDERING KIT.
 OLDER MODELS CAN BE RETROFITTED BUT WILL REQUIRE
 A 2 MONTH LEAD TIME TO MANUFACTURE.



R8292 LIGHT KIT - PARTS LIST		TITLE
ITEM	QTY	STOCK NUMBER
1	2	E7045
2	1	E7067
3	2	R8046
4	6	R8068
5	2	R8245
6	1	R8275
7	1	R8270

ITEM	QTY	STOCK NUMBER	TITLE
1	2	E7045	LIGHT LED, BRACKET & FASTENERS ASSY
2	1	E7067	LIGHT SWITCH
3	2	R8046	5/16 x 0.75 WASHER ZP
4	6	R8068	5/16 x 3/4 UNC BOLT ZP
5	2	R8245	5/16 UNC NYLOC NUT
6	1	R8275	SEAT BASE WELDED ASSY
7	1	R8270	WIRE HARNESS

TRU-TURF

GREENS ROLLER

Manufactured in Australia ~ World Patent

Model: R52-11TC

- Read and understand manual before operating roller.
- Lubricate drive chain prior to each operation.
- Check roller bearings regularly, replace if worn.
- Use high grade synthetic oil in the transmission.

Serial # T0000 Year of Manufacture

Email: sales@truturf.com Web: www.truturf.com

← T7026

R6025 →

**TO MOVE LEFT
DEPRESS SLOWLY**

← R6024

**TO MOVE RIGHT
DEPRESS SLOWLY**

← R6023

PARK BRAKE

R6059 →



Officially Licensed Product
of the PGA TOUR

← R6057

TRU-TURF

← R6058

**TIRE PRESSURE
MAXIMUM 15 P.S.I**
or damage to machine may occur

R6040 →

WHEN ROLLING SLOPING GREENS PLACE
THESE ROLLERS ON THE HIGH SIDE.

← R6041

DANGER
DO NOT OPERATE MACHINE
WITHOUT COVER IN PLACE.

Parts List

Part No.	Description	Page
E7006	Bush Plain Bronze	34
E7007	Bush Flanged Bronze	34
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