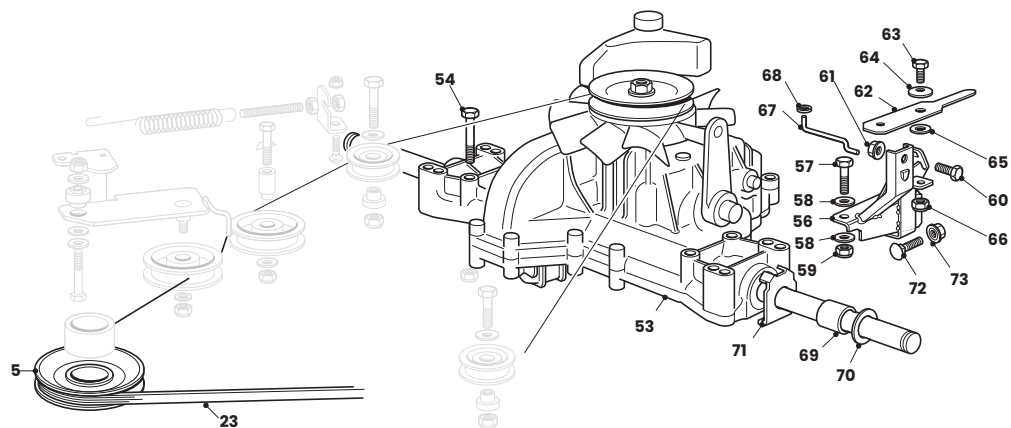
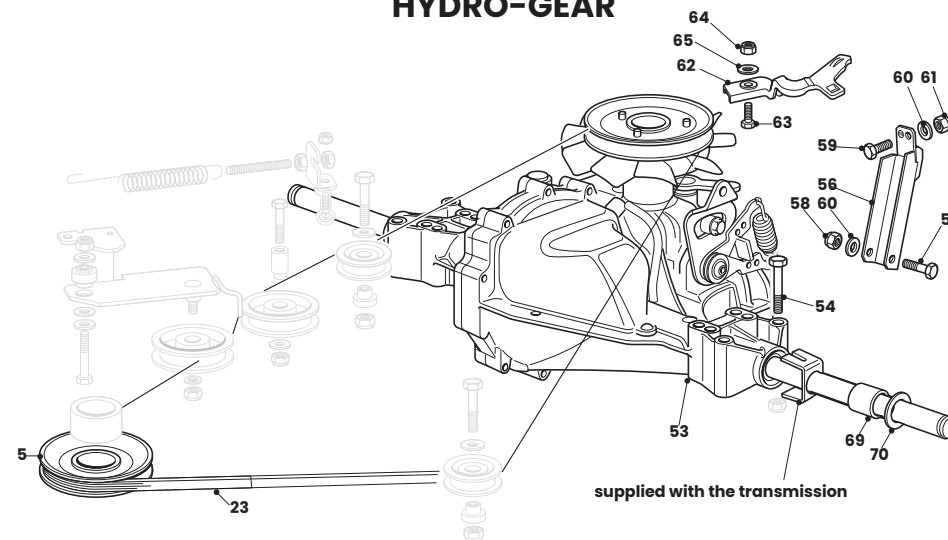


Replacing parts from Tuff Torq Transmission 118400960/0 to HydroGear Transmission 118400919/2 Transmission Group Section

TUFF TORQ



HYDRO-GEAR



Removed from Machine with TUFF TORQ Transmission

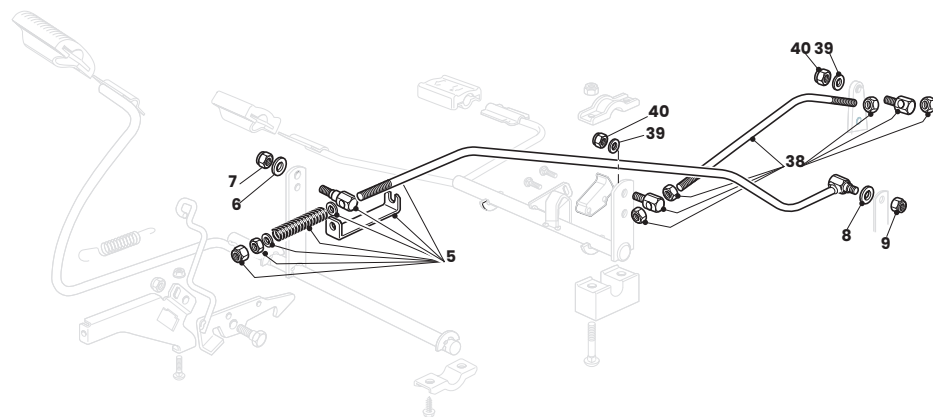
Transmission Model	Pos	Code	Description	Qty
Tuff Torq	5	125601566/1	PULLEY	1
Tuff Torq	23	135062020/1	TRAPEZ. TRANSMIS. BELT	1
Tuff Torq	52/66	112155000/0	LOW SELF-LOCKING NUT M8	7
Tuff Torq	53	118400960/0	HYDRO TRANSAXLE K46S	1
Tuff Torq	54	112691800/0	HEXAG.-HEAD SCREW M8X60	4
Tuff Torq	56	382785149/0	SUPPORT BRACKET	1
Tuff Torq	57	112691200/0	HEXAG.-HEAD SCREW M8X45	1
Tuff Torq	58	112521350/0	WASHER M8 8.4 x 16 x 1.6	2
Tuff Torq	62	325318157/0	LEVER	1
Tuff Torq	63	112793102/0	SCREW TE M8x20	1
Tuff Torq	64	112369500/0	SPRING WASHER D=8	1
Tuff Torq	65	325670011/0	ANTI-FRICTION WASHER 8.2x19x0.8	1
Tuff Torq	67	125033033/1	ROD	1
Tuff Torq	68	112604896/0	STARLOCK WASHER D=6	1
Tuff Torq	69	125160031/0	WHEEL SPACER	2
Tuff Torq	70	112521410/0	WASHER M20 21 x 37 x 3	4
Tuff Torq	71	325670025/0	SPACER WASHER TT	2
Tuff Torq	72	112792611/0	SCREW TE M8 x 16	2

Add to the Machine to have HYDROGEAR Transmission

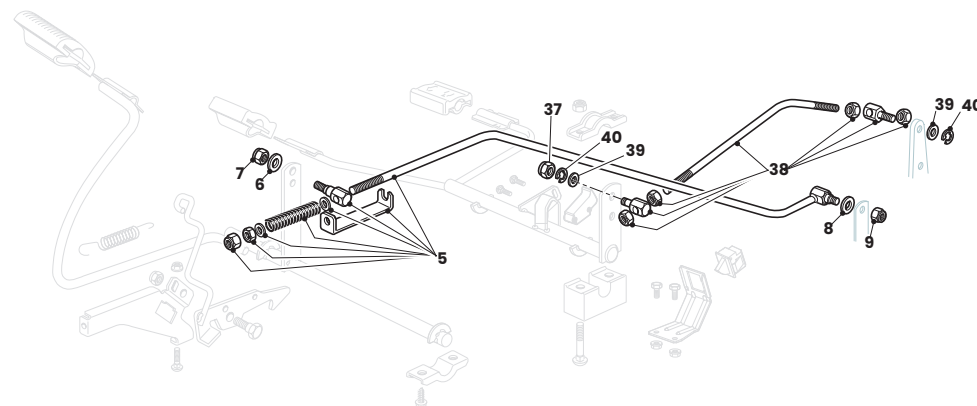
Transmission Model	Pos	Code	Description	Qty
Hydrogear	5	125601577/0	PULLEY	1
Hydrogear	23	135062019/0	TRANSMISSION BELT	1
Hydrogear	53	118400919/2	TRANSAXLE HYDRO-GEAR T2	1
Hydrogear	54	112691600/0	HEX-HEAD SCREW M8x70	2
Hydrogear	56	382785199/0	SUPPORT BRACKET	1
Hydrogear	57	112691700/0	HEXAG.-HEAD SCREW M8X55	1
Hydrogear	58	112155000/0	LOW SELF-LOCKING NUT M8	6
Hydrogear	60	112521350/0	WASHER M8 8.4 x 16 x 1.6	1
Hydrogear	61	112293201/0	FLANGED HEXAGON NUT M8	2
Hydrogear	62	325318253/0	DUMP VALVE LEVER	2
Hydrogear	63	112791213/1	HEX-HEAD SCREW M6 x 18	1
Hydrogear	64	112154510/0	LOW SELF-LOCKING NUT M6	1
Hydrogear	65	112523040/0	WASHER M6 6.6 x 18 x 1.6	1
Hydrogear	69	125160058/2	WHEELS SPACER	4
Hydrogear	70	125670005/2	SPINDLE WASHER	1

Replacing parts from Tuff Torq Transmission 118400960/0 to HydroGear Transmission 118400919/2 Brake and Advancement Control Rod Section

TUFF TORQ



HYDRO-GEAR



Removed from Machine with TUFF TORQ Transmission

Transmission Model	Pos	Code	Description	Qty
Tuff Torq	40	112154510/0	LOW SELF-LOCKING NUT M6	6
Tuff Torq	38	382000543/0	CONTROL ROD ASSEMBLY	1
Tuff Torq	39	112523040/0	WASHER M6 6.6 x 18 x 1.6	2
Tuff Torq	6/8	112521350/0	WASHER M8 8.4 x 16 x 1.6	2
Tuff Torq	7/9	112155000/0	LOW SELF-LOCKING NUT M8	2
Tuff Torq	5	382000542/1	BRAKE CONTROL ROD ASSEMBLY	1

Add to the Machine to have HYDROGEAR Transmission

Transmission Model	Pos	Code	Description	Qty
Hydrogear	37	112154510/0	LOW SELF-LOCKING NUT M6	5
Hydrogear	38	382000578/0	CONTROL ROD ASSEMBLY	1
Hydrogear	5	382000577/0	BRAKE CONTROL ROD ASSEMBLY	1
Hydrogear	39	112000940/0	CIRCLIP D=7	1
Hydrogear	39	112523040/0	WASHER M6 6.6 x 18 x 1.6	1
Hydrogear	6/8	112521350/0	WASHER M8 8.4 x 16 x 1.6	1
Hydrogear	7/9	112155000/0	LOW SELF-LOCKING NUT M8	1

Removal of Rear Axle – TUFF TORQ K46S






(Information from WSM – always refer to WSM for these operation)

General informations

The rear axle (Transaxle) is made up of a single maintenance free sealed unit which includes the transmission unit (hydrostatic) and the differential and doesn't need any maintenance.

It only needs to be removed to be replaced or for an overhaul by the Manufacturer's Service Centre.

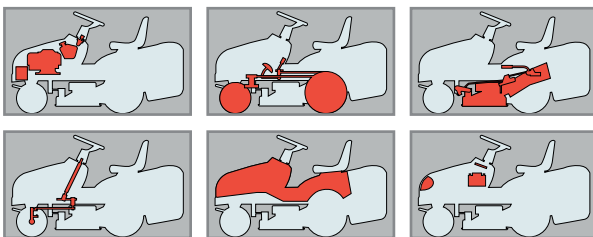
Related topics




-  **2.3** Lifting of the machine
-  **4.2** Brake adjustment
-  **4.4** Drive pedal adjustment
-  **5.3** Removing the ejection conveyor
-  **6.1** Removal of the wheels

Tightening torques

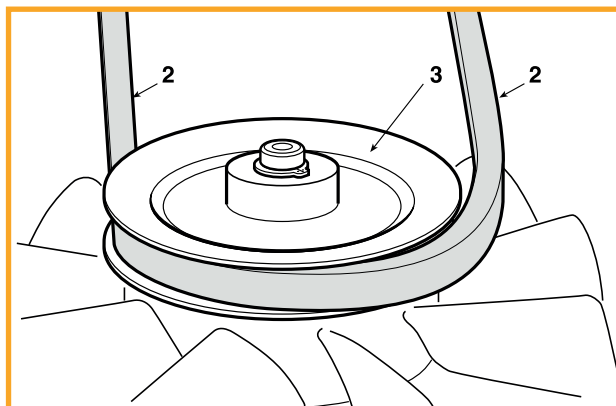
19	Rear axle locknut	25 ÷ 30 Nm
20	Screws for rear axle fastening	25 ÷ 30 Nm

Map of functional units

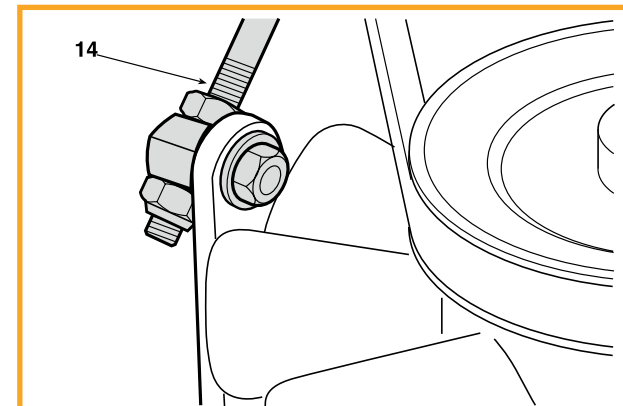
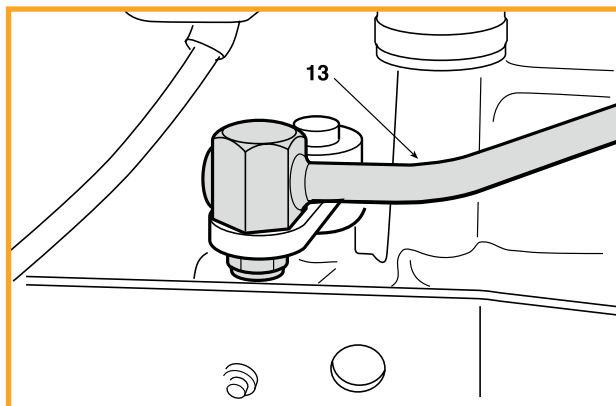


-  Remove the collector channel
-  Lift the rear part of the machine
-  Remove the rear wheels.

For greater operating convenience it is recommended that the transmission belt is slackened off; this is done by grasping the two branches of the belt (2), pulling it just enough to free it from the pulley throat (3), overcoming the resistance of the tension regulator guide pulley.



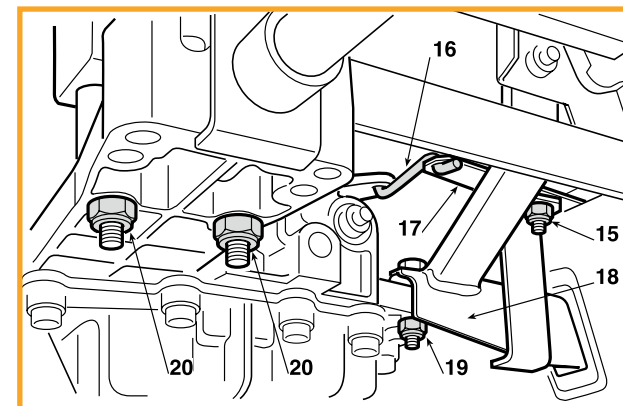
Dismantle the pin of the brake control rod (13) and the pin of the drive engagement control rod (14).



Loosen the nut (15) of the release lever to detach the rod (16) from the lever (17).

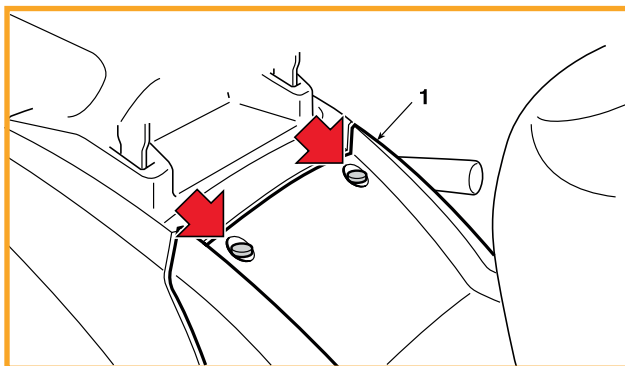
The unit is held up by a support (18) and fastened to it by a screw with a nut (19), and it is attached to the frame by four screws (20).

Undo the nut (19) and then carefully undo the four lower screws (20), holding up the unit so that it does not fall.



Brake Adjustment

(Information from WSM - always refer to WSM for these operation)



The brake adjustment spring can be accessed by removing the inspection hatch (1).

The adjustment is to be made with the parking brake engaged and consists of altering the length of the spring (2) to the best measurement. The braking capacity is increased by screwing the nut down on the rod (and thus shortening the length of the spring).

Loosen the nut (4) which retains the bracket (5) and then turn the nut (6) so that the length «A» of the spring (2) is:

► mechanical drive models

43,5 - 45,5 mm (Peerless MST 205-535 E)

► hydrostatic drive models

45 - 47 mm (Tuff Torq K46S)

45 - 47 mm (Hydro-Gear T2-ADBF-2X3C-17X1)

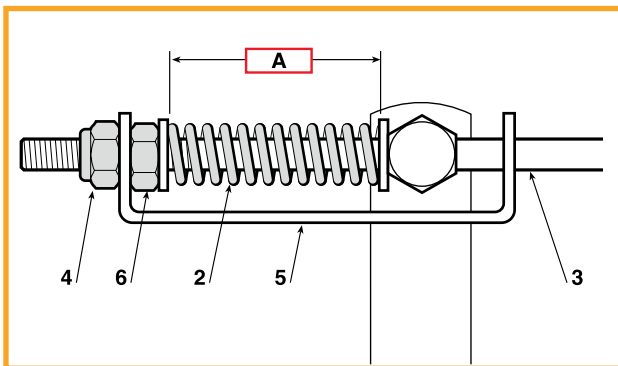
measured from the inside of the washers. When the adjustment has been made, tighten the nut (4).

NOTE Never go under these amounts to avoid overloading the brake unit.



WARNING!

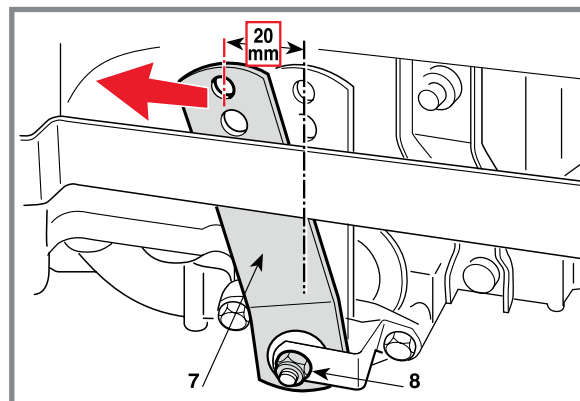
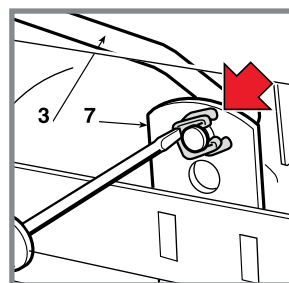
When the adjustments have been made, the parking brake should prevent the machine from moving on a slope of 30% (16°) with the driver in position.



If braking is still poor or uneven even after having made the adjustment, proceed as under indicated, according to the type of transmission fitted on the machine.

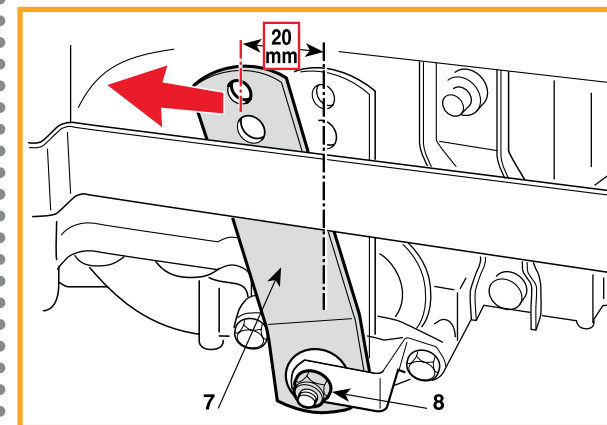
► mechanical drive models

Remove the control rod (3) from the lever (7) and check that this lever has a free movement of 20 mm (measured vertically next to the pin rod) before beginning the braking action. If this is not the case, the free move-



ment can be adjusted with the screw (8), unless the brake pads or discs are so worn that they need replacing.

When connecting the rod (3) be sure to use the uppermost hole in the lever (7) and then check the length of the spring again (2).



hydrostatic drive models

You cannot make any further adjustments from the outside. Therefore you need to dismantle the whole rear axle of the machine and contact one of the manufacturer's Service Centres.