BTR 30
TURF ROLLER

OPERATOR'S MANUAL & PARTS LIST CURRENT

FROM SERIAL NO. 610

Kesmac Inc.
23324 Woodbine Avenue, Keswick Ontario Canada L4P 0N1
Tel (905) 476-6222 Fax (905) 476-6744
Web Site www.brouwerkesmac.com Email info@kesmac.com

KESMAC INC.
DBA BROUWER KESMAC
23324 Woodbine Ave.
Keswick, ON L4P 0N1
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Website: www.brouwerkesmac.com

STATEMENT OF LIMITED WARRANTY

Brouwer Kesmac warrants its full line of equipment to be free from defects in material and factory workmanship for a period of 12 months. This warranty begins on the date of sale or use of the equipment to the original purchaser. This statement does not extend or limit engine, tractor or component warranties in which the engine, tractor or component manufacturers may carry extended time periods up to 24 months. Engine, tractor or component warranty claims will be subject to the engine, tractor or components manufacturer's approval.

Replacement Parts carry a 90 day replacement warranty and are reimbursed to the dealer. All electrical and hydraulic parts are limited by this policy and will only be covered upon approval by the service department after inspection of the part. The installation and removal of a part will automatically place that part under the replacement parts warranty.

This warranty is limited exclusively to equipment or accessories manufactured or supplied by ***Brouwer Kesmac*** and are subject to the inspection and analysis by the company to conclusively identify the nature and cause of failure.

PRODUCT REGISTRATION FORM must be completely filled out, signed by the customer at the original date of installation, and returned to ***Brouwer Kesmac*** before any claims will be considered.

Brouwer Kesmac reserves the right to incorporate improvements in material and design of its products without notice and is not obligated to make the same improvements to equipment previously manufactured.

Brouwer Kesmac is not obliged under any warranty policy different from the Kesmac Brouwer Turf warranty policy as published above.

BROUWER KESMAC RESPONSIBILITIES

Brouwer Kesmac's obligation under the terms of this warranty is limited to the repair, replacement or credit, at its option, of the equipment, parts or supply items that conform to its warranty.

DEALER'S RESPONSIBILITIES

1. Only factory-trained service or approved personnel will be permitted to perform warranty service on ***Brouwer Kesmac*** equipment.

2. All major warranty claims exceeding $650.00 (in total including parts and labour) must be authorized by ***Brouwer Kesmac*** before work is performed.

3. All replacement parts used in warranty situations must be furnished by ***Brouwer Kesmac*** or approved by ***Brouwer Kesmac*** personnel. The use of non-recommended oil could nullify warranty.

OWNERS RESPONSIBILITIES

The owner is obligated to operate and maintain the equipment in accordance with the recommendations published by ***Brouwer Kesmac*** in the owners/operators manual for the unit. The owner is responsible for the costs associated with such maintenance and operating adjustments that may be required on a regularly scheduled basis. Where applicable the owner is responsible for transportation to and from the dealership or service calls made by the dealer.

CONDITIONS THAT VOID WARRANTY

This warranty shall not apply to equipment which:

- 1. Has had repairs or modifications not authorized by ***Brouwer Kesmac***
- 2. Has been subject to abuse, improper maintenance, or improper application.
- 3. Has been modified from original equipment specifications.

WARRANTY EXCEPTIONS

This warranty does not apply to the following items:

- 1. Wear items including blades, cutting edges, cutting arms, spark plugs, belts, filters, bearings, sprockets, chains, tires, light bulbs, lubricants and fluids etc. Cost of normal maintenance including replacement of service items.
- 2. Damages to engine/drive systems caused by lack of/or improper lubricants and/or fluids.
- 3. Damages arising from accident, misuse or neglect.
- 4. Damages to engine/drive systems caused by improper operation and/or maintenance.
- 5. ***Brouwer Kesmac*** will not be liable for any incidental or consequential damage or injuries, including but not limited to loss of profits, loss of crops, rental of substitute equipment, or other commercial loss or for damage to the equipment in which the Company Product is installed.

FREIGHT CARRIER DAMAGE

Claims for equipment damaged in transit should be referred to the freight carrier. Visible damage should be reported immediately and concealed damage as soon as possible, in accordance with freight carrier regulations.

BROUWER
BTR 30 – TURF ROLLER

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Section 1 – Operators Manual

GENERAL SAFETY

DANGER

INDICATES AN IMMEDIATE HAZARDOUS SITUATION WHICH IF NOT CORRECTED OR AVOIDED, **WILL** RESULT IN DEATH OR INJURUY.

WARNING

INDICATES THE POTENTIAL HAZARDOUS SITUATION WHICH **COULD** RESULT IN DEATH OR SERIOUS INJURY IF NOT AVOIDED,

CAUTION

INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH **MAY** RESULT IN A MINOR/MODERATE INJURY.

SAFETY ALERT SYMBOL

Hazards are identified by this symbol
Followed by the signal words
"**DANGER, WARNING or CAUTION".**

Always follow safe operating and maintenance practices to ensure your own safety and also that of others.

The warning and safety signs are prominently displayed and strategically located on the machine. Make sure that the decals are always in good condition and easily readable. The decals are illustrated on the following pages.

It is important that you familiarize yourself with these safety signs.

Do not operate this machine if drugs, alcohol or medication are being used which can affect alertness or co-ordination.

Seek professional advice before operating the machine if in doubt about side effects from any medication being taken that may put your safety at risk.

WARNING

- **DO NOT RUN THE ENGINE AT EXCESSIVELY HIGH SPEED.**
- **DO NOT OPERATE THE MACHINE IF THE CHAIN AND THE ENGINE GUARDS ARE NOT SECURED IN PLACE OR ARE DAMAGED.**
- **WHEN OPERATING THE MACHINE WHILE WALKING BESIDE IT, KEEP YOUR FEET CLEAR OF THE ROLLERS.**
- **TO MAINTAIN CONTROL OF THE MACHINE, USE ONLY LOWEST SPEED WHILE WALKING ALONG SIDE THE MACHINE.**
- **WHEN OPERATING ACROSS THE SIDE OF A SLOPE, EXERCISE CAUTION AND ALWAYS WALK ON THE UP-HILL SIDE OF THE TURF ROLLER.**
  DO NOT OPERATE ON SLOPES GREATER THAN 20° AS THE MACHINE MAY TIP CAUSING PERSONAL INJURY AND DAMAGE TO THE MACHINE.
- **WHEN PARKING AND ALSO TO PREVENT ACCIDENTAL MOVEMENT OF THE MACHINE, SWITCH THE ENGINE 'OFF'.**

BROUWER BTR 30 TURF ROLLER

SAFETY PRECAUTIONS

It is important that the operator(s) of this machine follows all the recommended operating procedures and service schedules that help ensure the safety of the machine, the operators and bystanders.

It is not possible to list all possible situations that may affect the safety of the machine or the operators, therefore it is not possible to identify all precautions.

The Owners/Operator must assume responsibility for their own safety, the safety of others and of the machine by reading this manual, fully understanding the operation of all controls, following correct operating procedures, and aware of any potential hazards. **IF YOU DO NOT UNDERSTAND – ASK.**

The Brouwer BTR 30 Turf Roller is designed for safe efficient operation. It must not be used for any other purpose that that for which it was designed.
Prior to shipping from the factory the machine is inspected to insure that all guards/shields and warning/operating decals are correctly positioned and secured.
Before operating the machine the operator must check that all of the above items are correctly located.
This machine must not be used if any guard/shield or warning/operating decals are missing, damaged or incorrectly located.
The operator must read and understand this manual before operating the machine.

IMPORTANT

Use only genuine Brouwer Parts. Parts that are not supplied by Brouwer may not meet Brouwer specifications or standards of manufacture. The use of non-approved parts may result in component failure and possibly an accident and injury to the operator and others.

CAUTION

Allow sufficient time for the engine to cool down before any service work. Failure to observe this may result in burns from hot exhaust components

IF YOU DO NOT UNDERSTAND ANY PART OF THIS MANUAL (OR OTHER MANUALS SUPPLIED WITH THIS MACHINE) CONTACT YOUR SUPERVISOR, YOUR DEALER OR THE MAUFACTURER FOR CLARIFICATION.

NOTE

Reference to RIGHT or LEFT are to be interpreted as viewed from the operating position looking forward.

IMPORTANT

Check oil level daily.
Top up to correct level when COLD.

DO NOT FILL PAST THE LEVEL MARK.

OIL RESERVOIR
LEVEL
D001-115

IMPORTANT

USE SYNTHETIC SAE 5W40 ONLY

D001-068

CAUTION

HOT EXHAUST

To avoid injury keep clear of exhaust pipes and muffler.

D001-053

R N F

D001-109

CAUTION

TO PREVENT TIPPING WHEN ON SLOPES STOP THE UNIT BEFORE CHANGING FORWARD / REVERSE DIRECTION. OPERATE CONTROLS SLOWLY AND SMOOTHLY. D001-073

WARNING

To Prevent Serious Injury or Death

- **Avoid unsafe operation or maintenance**
- **Do not operate or work on this machine without reading and understanding the operator's manual.**
- **If manual is lost, contact your nearest dealer for a new manual.**

D001-033

IMPORTANT

The Hydrostatic Transmission housing must be kept clean and free of oil and dust to ensure proper cooling.

D001-146

BROUWER

BROUWER

WARNING

CRUSHING HAZARD
Stay clear of moving parts

D001-054

FREEWHEEL ENGAGED

TRANSMISSION ENGAGED

WARNING

FREEWHEEL CONTROL

To prevent possible injury to the operator and others: Do not activate the Freewheel Control if the engine is running or if the machine is on an incline.

D001-134

WARNING

CRUSHING HAZARD
Stay clear of moving parts

D001-054

IMPORTANT

Allow air to vent from drum when filling.

D001-133

BROUWER
EQUIPMENT BUILT FROM EXPERIENCE

BROUWER TURF LTD.
KESWICK, ONT. CANADA
PHONE: (905) 476-6222
FAX: (905) 476-6744

SERIAL NO.
WEIGHT kg.
lbs.

DANGER

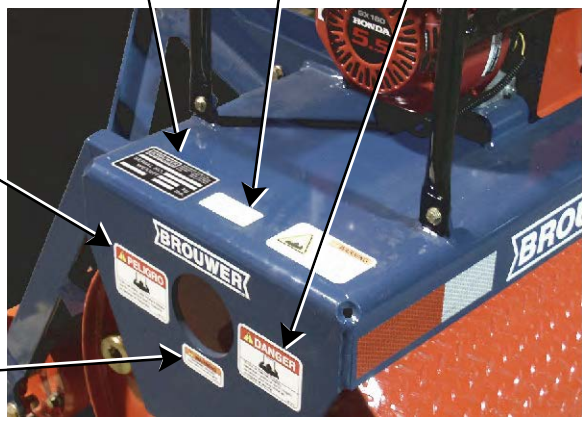
Si vous ne lisez pas l'anglais, demandez à quelqu'un qui lit l'anglais de traduire pour vous toutes les consignes de securite.

D001-F17

PELIGRO

Si No Lee Ingles, pida Ayuda a Alquien Que Si Lo Lea Para Que le Traduzca las Medidas de Sequridad.

D001-S15



WARNING

CRUSHING HAZARD
Stay clear of moving parts

D001-054

OPERATING INSTRUCTIONS

FRONT AND REAR ROLERS

Fig. 1
The large front roller has two fill/drain plugs. The roller can be filled with water to the level needed for any required roller weight. The fill/drain plug threads are the same as standard garden hose end fittings. Water can be drained out for transporting the machine.

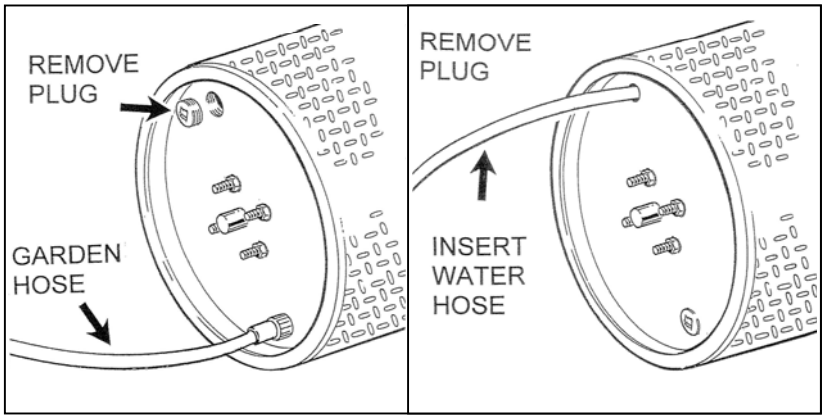


Fig. 1

Fig. 2
The small rear roller has one fill/drain plug. It is recommended that before operating the Turf Roller the rear roller should be filled permanently with sand. This improves the stability of the machine, particularly when operating on a down slope.
To fill the rear roller with sand the following procedure is recommended:

- Lift the Control Handle up until the rear roller is just clear of the ground.
- Place a suitable support under the Control Handle.
- Remove the 7/16 unc x 1 ½ bolts, washers, and locknuts securing the roller bearings and pull the roller clear of the frame.
- Stand the roller 'on-end'. Remove the plug and with a funnel fill the roller with sand. Replace the fill/drain plug.
- Refit the roller assembly.

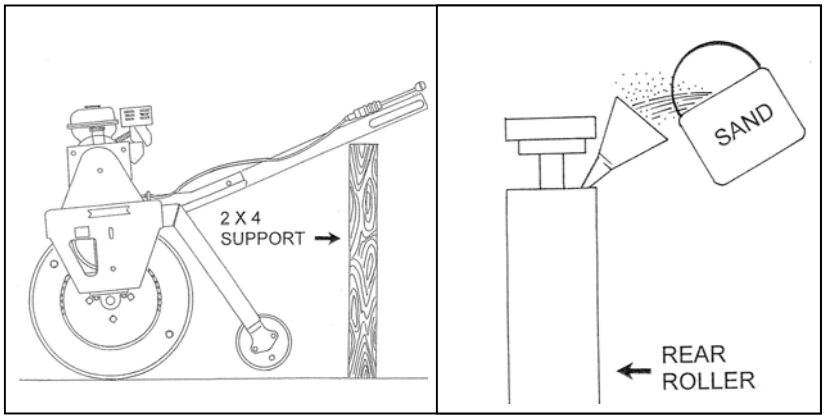


Fig. 2

CAUTION

When operating the machine on a down slope do not stop the machine abruptly. A sudden stop may cause the machine to tip forward.
DO NOT OPERATE UP/DOWN OR ACROSS SLOPES GREATER THAN 20 DEGREES.

OPERATING INSTRUCTIONS

ENGINE

The Brouwer BTR 30 Turf Roller is fitted with a Honda GX160 Engine. The owner's manual for the engine is supplied with the machine.
It is important to follow the operating and service instructions contained in the manual.

CONTROLS

FIG. 3
The hand control lever for the hydrostatic transmission is located on the Turf Roller Handle. Move the lever to the right for 'FORWARD' and move to the left for 'REVERSE'.
The transmission is fitted with a "FREE-WHEEL" control. This allows easy movement of the machine when the engine is not running. The control is located on the front of the transmission mounting support, between the fan shroud and chain guard.
To put the transmission into "FREE WHEEL", remove the Hitch Pin from the 'inner hole' and press the Control Pin – 'fully inward', insert the Hitch Pin into the 'center hole'. Reverse the procedure for 'DRIVE' mode.

⚠ WARINING

Do not activate the Free-Wheel control if the engine is running or the machine is stopped on an incline.

To prevent sudden movement of the machine, which may cause injury to the operator or others, operate the Control Lever slowly and smoothly from NEUTRAL to FORWARD and REVERSE.

When the hand control lever is in the NEUTRAL (centered) position, the engine is DISENGAGED from the transmission.
When the engine is stopped and the hand control lever is in the NEUTRAL (centered) position, the transmission is locked.
The engine 'ON-OFF' switch has been relocated from the engine to the handle, for operator convenience and safety.

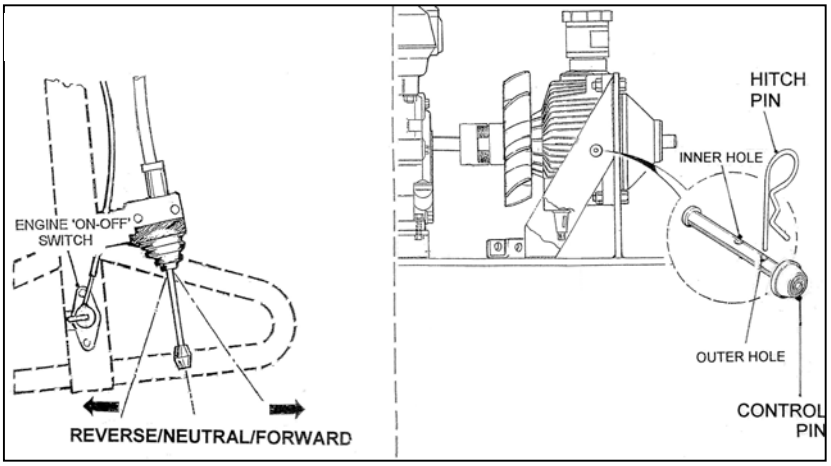


Fig.3

OPERATING INSTRUCTIONS

ENGINE SPEED CONTROL

Refer to the Honda Engine Owners manual for the instructions on setting the engine speed. Set the engine speed control to give two-thirds throttle opening.

IMPORTANT

Do not run the engine at low speed as this may cause damage to the transmission due to inadequate cooling air flow.

WARNING

When the engine is running and the hand control lever is in the NEUTRAL (centered) position, the transmission is in “FREE-WHEEL” mode and if the machine is left unattended it can move/roll and cause personal injury or machine damage.

MAINTENANCE

ENGINE
Refer to the Honda Engine Owners Manual for recommended engine maintenance procedures,

TRANSMISSION Fig. 4
Check the oil level in the transmission oil reservoir **DAILY.** The reservoir is marked ‘correct level’ when COLD**. DO NOT OVERFILL.**

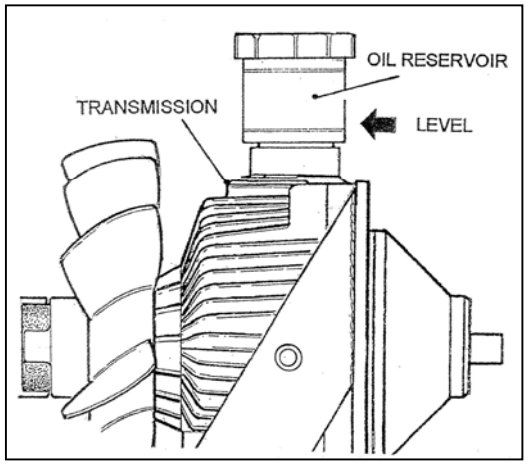


Fig.4

IMPORTANT

USE SYNTHETIC SAE 5W40 ONLY. PETRO-CANADA* DURON SYNTHETIC OR EQUIVALENT.

*FOR CLOSEST PETRO-CANADA DEALER
CALL – CANADA – 1 800 268-5850
USA - 1 800 284-4572
U.K. - +44(0) 2476-247294

IMPORTANT

If the Roller is inadvertently upset, e.g. tips forward, ensure that the oil levels are checked in the Transmission and Engine and topped up if necessary. Failure to do so can cause serious damage to both units.

MAINTENANCE

FORWARD-NEUTRAL-REVERSE ADJUSTMENT

It is important that the F – N – R Control Lever and the transmission Lever Arm are adjusted to give the correct forward and reverse speeds. When replacing parts or servicing the unit, adjust as follows.

- Remove the Cooling Fan Shroud.
- Remove the Cable End Clevis from the Transmission Lever Arm.
- Release the four nuts on the Adjusting Bolts and screw in the bolts fully.
- Adjust the Cable End Clevis to allow the Clevis Pin to fit through the Lever Arm but NOT moving the Lever Arm from it's neutral position. A bushing is fitted in the lever arm. Check that it is in place.
- Refit the Split Pin.
- Move the Control Lever to the 'FORWARD' position until the transmission Lever Arm hits its internal stop. Hold the Control Lever in this position and unscrew the 'FORWARD' Adjusting Bolt until it touches the transmission Lever Arm. Tighten the Locking nuts.
- Repeat the above adjustment for the 'REVERSE' setting except that the reverse Adjusting Bolt should be unscrewed a further ¼ inch after touching the Lever Arm, This reduces the maximum reverse speed.

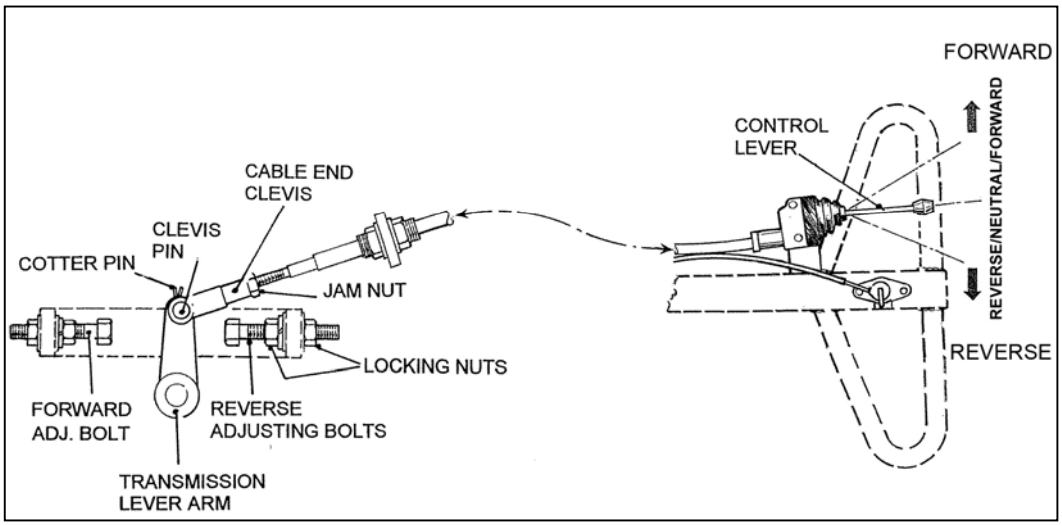


Fig.5

MAINTENANCE

DRIVE CHAINS, REMOVE / REPLACE / ADJUST

FIG. 6

To adjust the Roller Drive Chain 1:

- Loosen the Bolt 2 and Nut 3, this allows intermediate Spindle 4 to slide up or down.
- Position a suitable bar/tool in the frame and against the bottom of the Intermediate Sprocket 5.
- Apply sufficient weight on the bar/tool in the direction of arrow ‘A’, to tension the Roller Drive Chain 1.
- Tighten the Bolt 2 and Nut 3.

To adjust the Intermediate Dive Chain 6:

- Back-off the bolt in the Idler Adjusting Sprocket 7.
- Apply pressure in direction of arrow ‘B’ to tension the Intermediate Chain 6.
- Tighten the bolt in the Idler Adjusting Sprocket 7.

IMPORTANT

DO NOT OVER TENSION THE DRIVE CHAINS. THEY MUST NOT BE BAR TIGHT. THIS WILL CAUSE PREMATURE CHAIN WEAR AND BEARING FAILURE. LUBRICATE THE CHAINS WITH OIL. DO NOT USE GREASE.

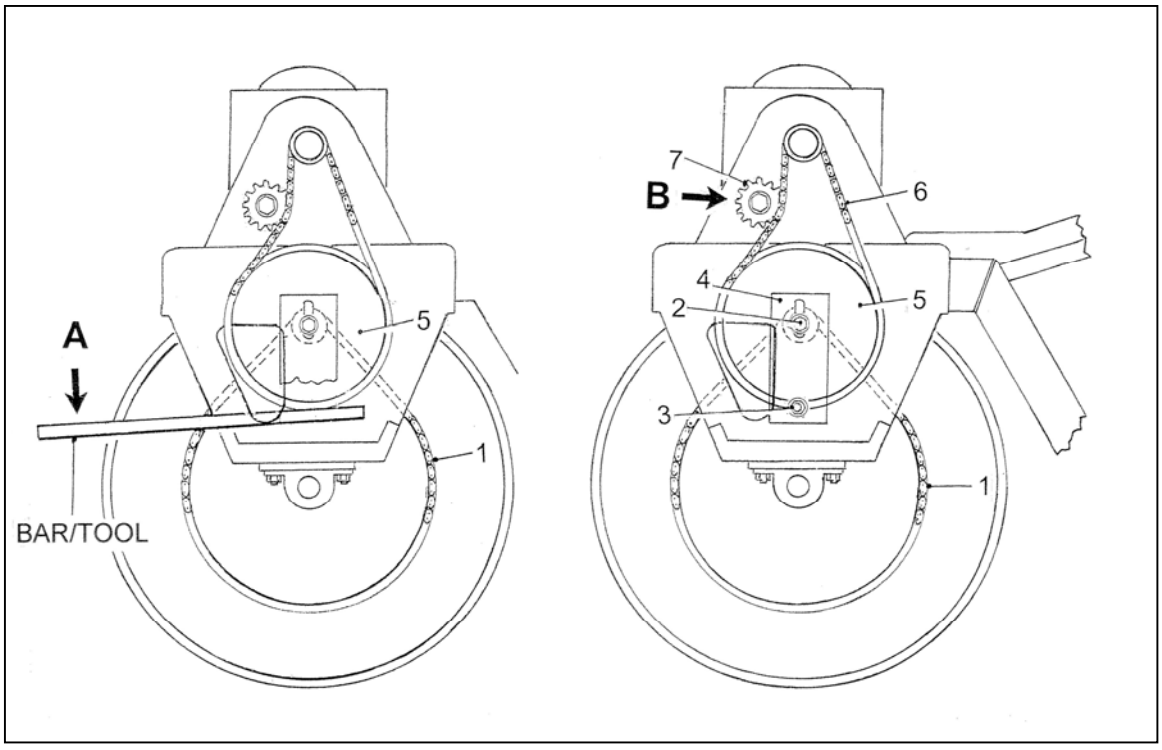


Fig.6

OPERATING HANDLE STORED POSITION

IMPORTANT

When it is required to fold up the handle, for storage or transport, remove the LOWER BOLT to allow the handle to pivot over-center and remain in position.

If the unit is to be transported long distances or over bumpy surfaces a shock cord from the handle to the frame will provide extra security.

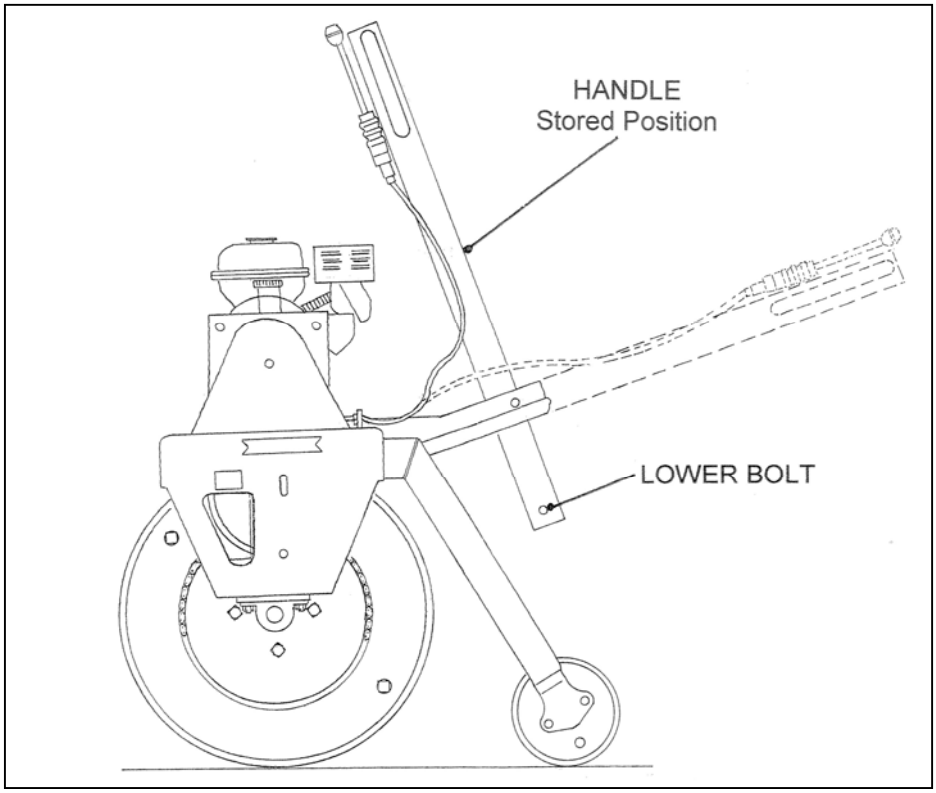


Fig.7

LUBRICATION

Fig.8

1. TRANSMISSION: SYNTHETIC SAE 5W40. Check oil level daily.

If the Roller is used daily it is recommended to change the transmission oil every 2 months. Occasional service would allow that period to be extended accordingly, but not to exceed 12 months. To change the oil:

- Remove the Fan Shroud.
- Remove the transmission drain plug and the fill plug.
- Drain the oil into a suitable container.
- Replace the drain plug
- Refill with 20 fl. oz. (600ml.) of the correct oil to the bottom of the fill plug hole.
- Replace the fill plug.
- Top up the reservoir to the correct level
- Replace the Fan Shroud.

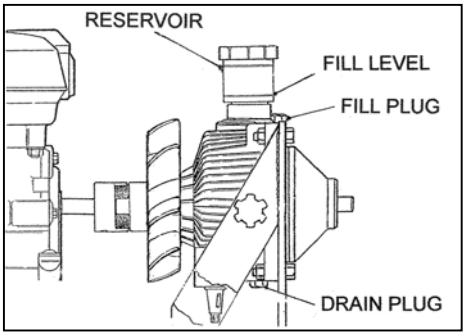


Fig.8

Fig.9

2. ENGINE: Refer to the Honda Engine Owners Manual. Supplied with the machine

3. CHAINS: SAE 30 OIL. Daily. (DO Not Use Grease On The Chains.)

4. FRONT & REAR ROLLER BEARINGS: Grease Monthly

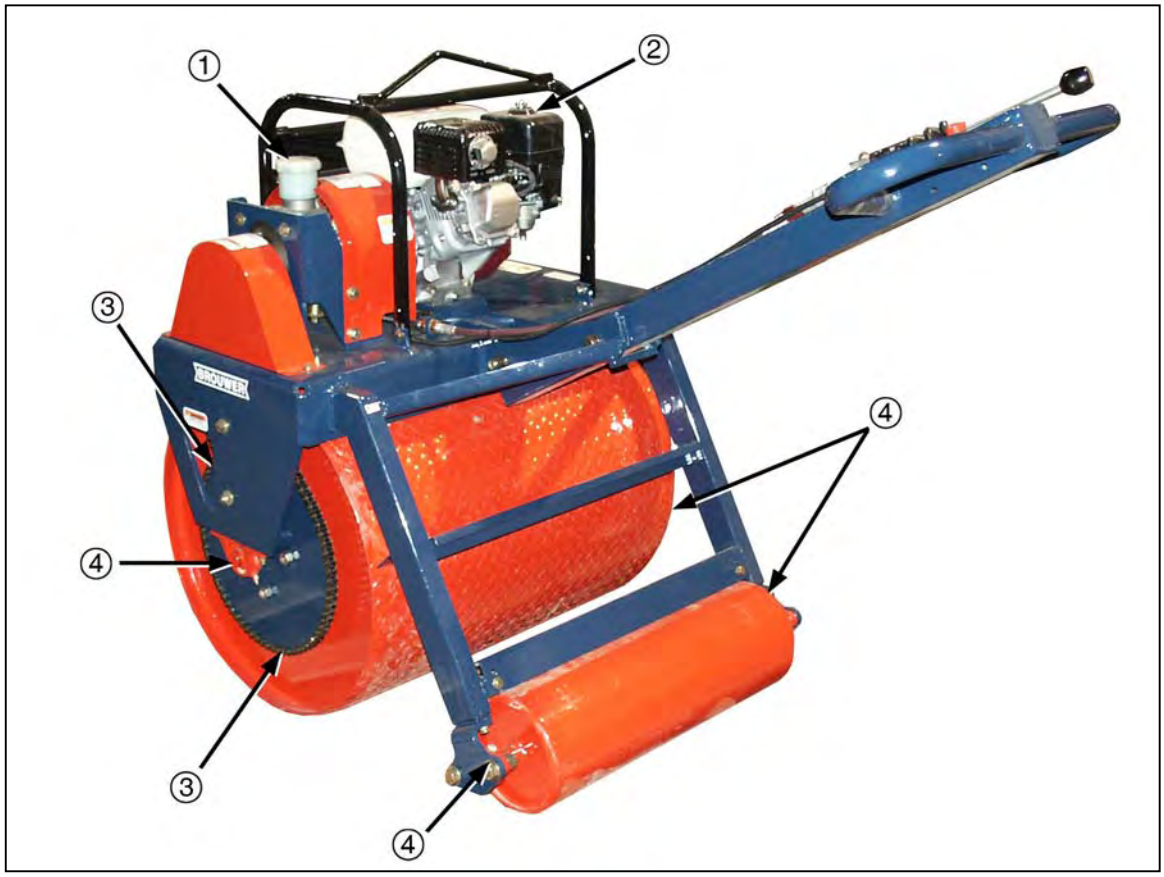


Fig.9

Regular washing and cleaning of your Brouwer Turf Roller will be a benefit in operation, maintenance and reliability.

BROUWER BTR 30 TURF ROLLER

SPECIFICATIONS

LENGTH - Operating……………………..……….63.0in.(1600mm)
- Stored…..……..………………………….37.5in.(952mm)

WIDTH ..……………………..………………… 36.0in.(914mm)

HEIGHT - Operating (No Roll Cage)………… 40.5in.(1029mm)
- Operating (With Roll Cage)……….. 58.75 in.(1492mm)
- Stored.………………………………… 57.0in.(1448mm)

FRONT ROLLER – Diameter…………………… 24.0in.(610mm)
- Width…………………………30.0in.(762mm)

REAR ROLLER - Diameter ………………….. 8.0in.(203 mm)
- Width …………………………30.0in.(762mm)

*** WEIGHT -** 1/8 in. Steel Drum. Dry. ……………… 530.lbs.(240kg)
- 3/16 in. Steel Drum. Dry. …………… 551.lbs.(250kg)

* Drum full with water, add 400 lbs. (181kg)
Rear roller full with sand, add 80 lbs. (36kg)

ENGINE……………………………………....………HONDA GX160 5.5 HP

TRANSMISSION…………………………………….EATON – MODEL 7 HYDROSTATIC

BROUWER
EQUIPMENT BUILT FROM EXPERIENCE

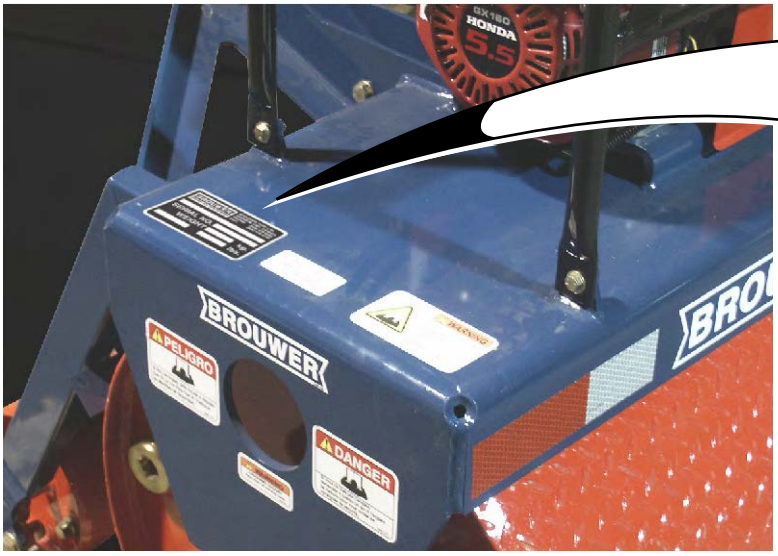
SECTION 2

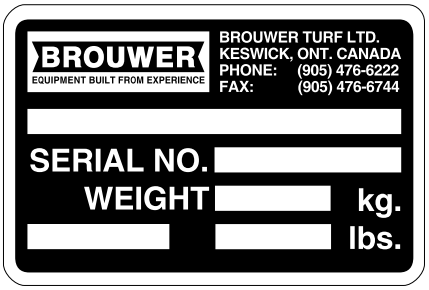
BTR 30
TURF ROLLER

PARTS LIST

IMPORTANT

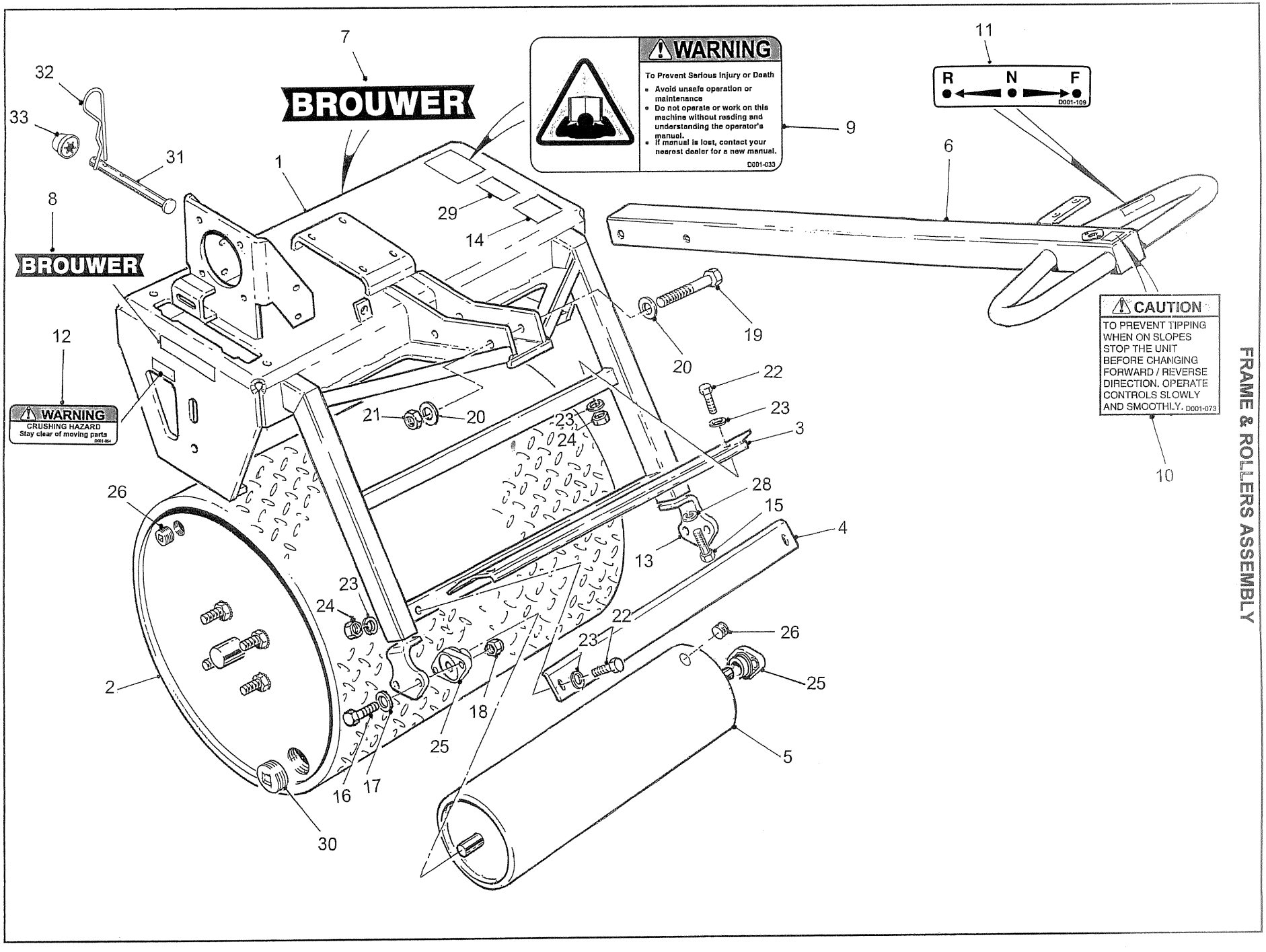
When ordering parts for this machine the serial number, model number and part color must be quoted.





NOTE

REPLACEMENT PARTS FOR THE HONDA GX160 ENGINE
MUST BE ORDERED FROM THE HONDA DEALER IN YOUR AREA.
Go to: www.honda .com This is the corporate web site from which Honda engines/power equipment dealers can be located.
Eg. Europe: www.honda-engines-eu.com
Australia: www.hondapowerequipment.com.au


BROUWER
BROUWER
WARNING
To Prevent Serious Injury or Death
Avoid unsafe operation or maintenance
Do not operate or work on this machine without reading and understanding the operator's manual.
If manual is lost, contact your nearest dealer for a new manual.
D001-033
R N F
D001-109
CAUTION
TO PREVENT TIPPING WHEN ON SLOPES STOP THE UNIT BEFORE CHANGING FORWARD / REVERSE DIRECTION. OPERATE CONTROLS SLOWLY AND SMOOTHLY. D001-073
WARNING
CRUSHING HAZARD
Stay clear of moving parts
D001-054
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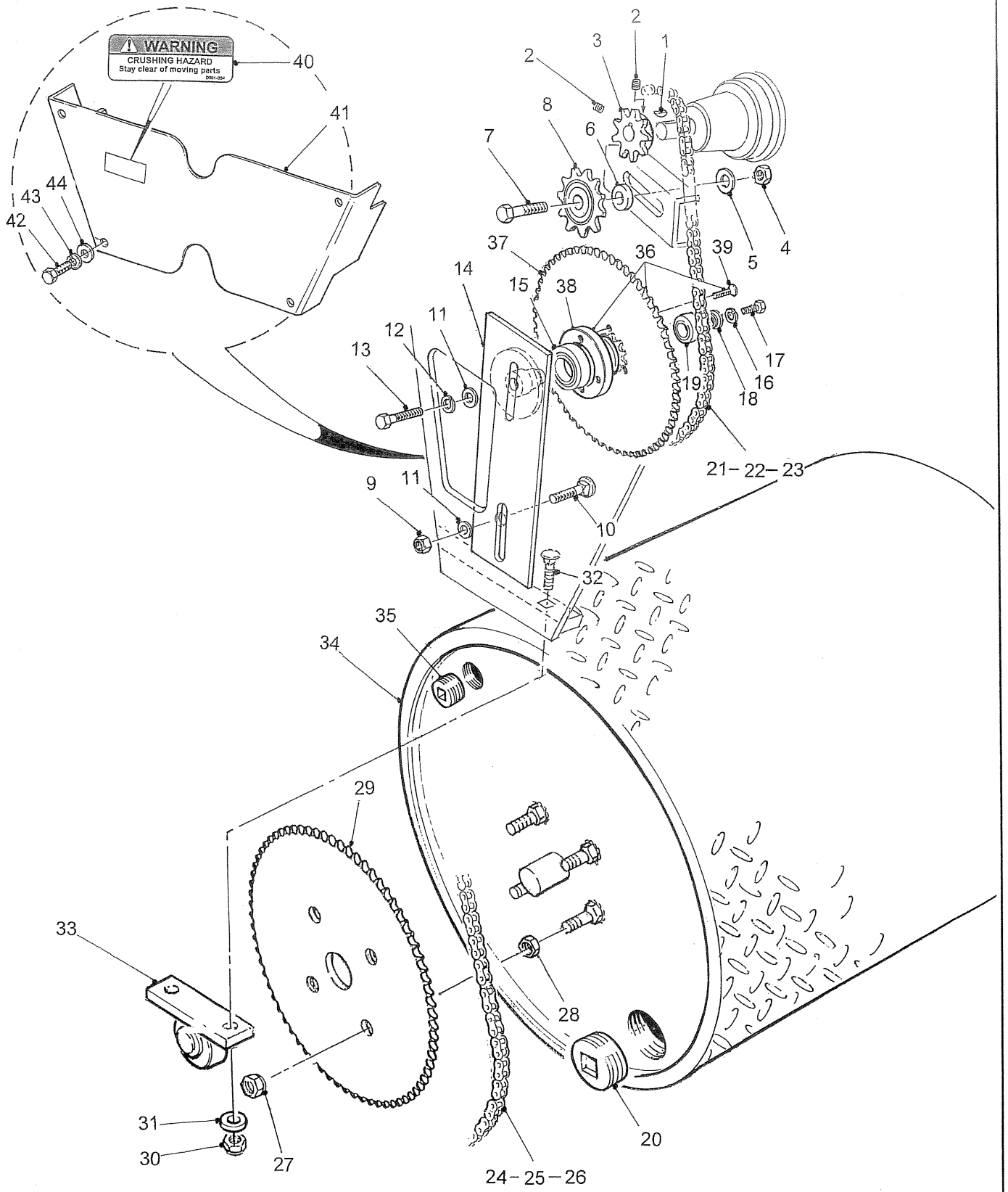
ITEM NO.	PART NO.	DESCRIPTION	QTY
		BTR 30 TURF ROLLER **FRAME AND ROLLERS ASSEMBLY**	
1	TR30033	Roller Housing	1
2	TR30010	Roller - 24 in. Dia. (Traction)	1
	TR30180	Roller - 24 in. Dia. (Smooth)	1
	TR30183	Roller - 24 in. Dia. (Traction. Heavy Duty)	1
3	TR10055	Scraper - 24in. Roller	1
4	TR10056	Scraper - 8in. Roller	1
5	TR30237	Roller - 8in. Dia.	1
6	TR30083	Handle	1
7	D001-161	Decal - Brouwer. 12 in.	1
8	D001-160	Decal - Brouwer 6in.	2
9	D001-033	Decal - "Warning to Prevent Serious…"	1
10	D001-073	Decal - "Caution to Prevent tipping…"	1
11	D001-109	Decal - "R - N - F"	1
12	D001-054	Decal - "Warning Crushing Hazard…"	2
13	TR10072	Bearing Mounting Bracket	2
14	D001-158	Serial No. Plate	1
15	F040610	Bolt 3/8 unc x 1 Gr.8	4
16	F041016	Bolt 5/8 unc x 1 3/4 Gr. 8	4
17	F321000	Washer 5/8	4
18	F211000	Locknut 5/8 unc	4
19	F040840	Bolt 1/2 unc x 4 Gr.8	2
20	F320800	Washer 1/2	4
21	F210800	Locknut 1/2 unc	2
22	F040410	Bolt 1/4 unc x 1 Gr.8	4
23	F320400	Washer 1/4	8
24	F210400	Locknut 1/4 unc	4
25	KB32016	Flange Bearing	2
26	KH00015	Pipe Plug 3/4 NPT. Sq. Hd.	1
27	D001-043	Reflector Tape - Orange. (Not Illustrated)	1
28	F310600	Lockwasher 3/8	4
29	D001-133	Decal - "Important Allow air to vent…"	1
30	KH00026	Plug Recessed 2 NPT. Plastic	1
31	TR10320	Pin. Free Wheeling.	1
32	F940224	Hitch Pin Clip.	1
33	KX50105	Push Cap Nut.	1

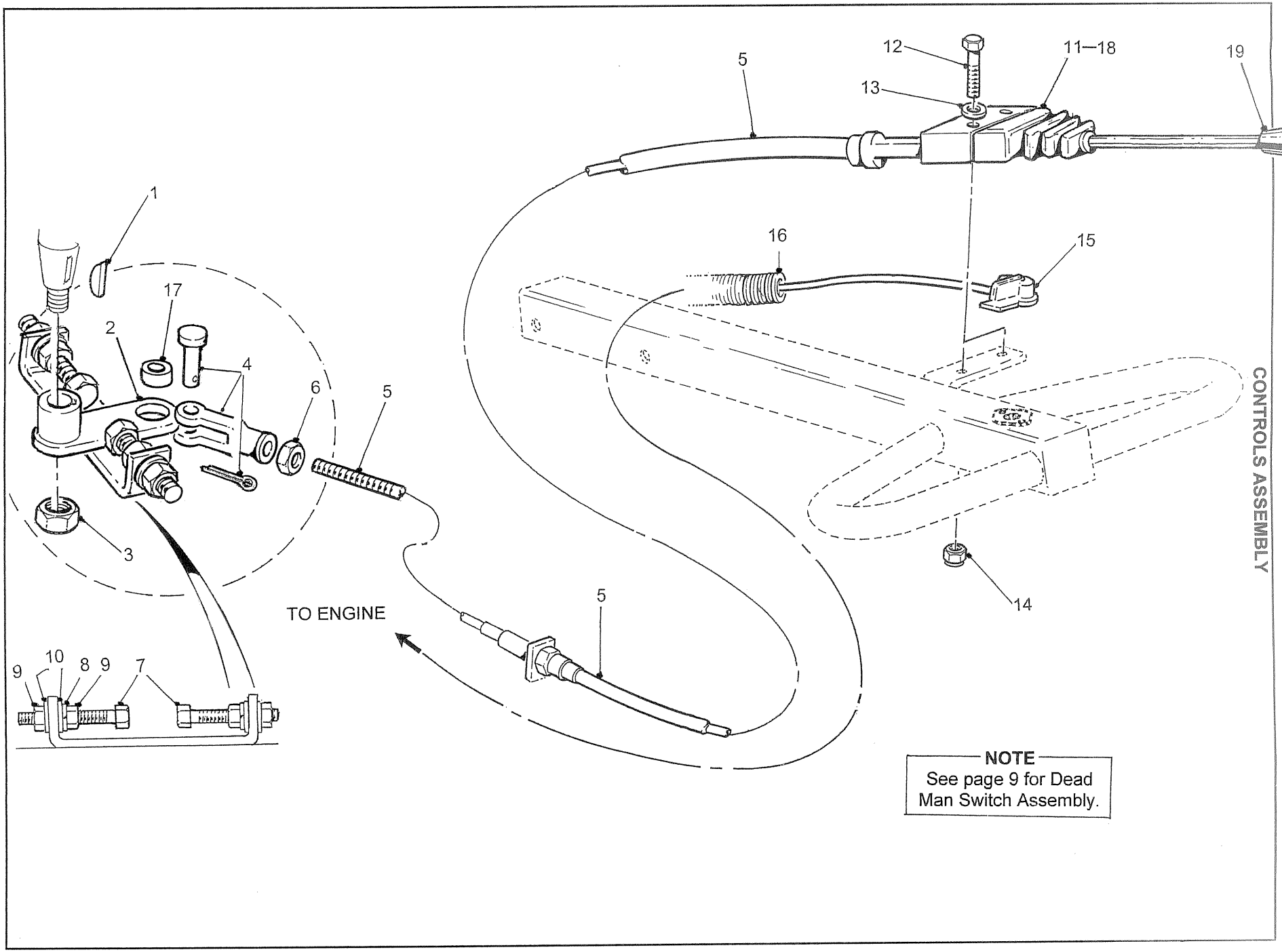
DRIVE SPROCKETS & CHAINS



ITEM NO.	PART NO.	DESCRIPTION	QTY
		BTR 30 TURF ROLLER **DRIVE SPROCKETS & CHAINS**	
1	F900404	Woodruff Key 1/8 z 1/2	1
2	F140402	Set Screw 1/4 unc Soc. Hd.	2
3	TR10029	Sprocket Transmission Shaft	1
4	F211000	Locknut 5/8 unc	1
5	F321000	Washer 5/8	2
6	TR10089	Spacer	1
7	F041020	Bolt 5/8 unc x 2 Gr.8	1
8	KD70003	Sprocket 18 T c/w Bearing	1
9	F210700	Locknut 7/16 unc	1
10	F020712	Carriage Bolt 7/16 unc x 1 1/4	1
11	F320700	Washer 7/16	1
12	F310700	Lockwasher 7/16	1
13	F040720	Bolt 7/16 unc x 2 Gr.8	1
14	TR30067	Sprocket Spindle	1
15	KB50003	Bearing	1
16	F310400	Lockwasher 1/4	1
17	F040406	Bolt 1/4 unc x 3/4 Gr.8	1
18	TR10005	Retaining Washer	1
19	KB11623	Bearing	1
20	KH00026	Plug Recessed 2 NPT. Plastic	1
21	KD71000	Chain Half Link #40 (if required)	1
22	KD71001	Chain Connecting Link #40	1
23	TR10096	Chain #40 Intermediate Sprocket to Transmission 39 1/2 in.	1
24	KD41001	Chain Half Link #50 (if required)	1
25	KD41000	Chain Connecting Link #50	1
26	TR10097	Chain #50 Roller to Int. Sprocket 48 1/2in.	1
27	F260800	Wheel Nut 1/2 unf	4
28	F220850	Jam Nut 1/2 unf	4
29	TR10027	Sprocket 72T (24in. Dia. Roller)	1
30	F210800	Locknut 1/2 unc	4
31	F320800	Washer 1/2	4
32	F020716	Carriage Bolt 1/2 unc x 1 3/4	4
33	MB30001	Bearing - Pillow Block	2
34	TR30010	Roller - 24 in. Dia. (Traction)	1
	TR30180	Roller - 24 in. Dia. (Smooth)	1
	TR30183	Roller - 24 in. Dia. (Traction. Heavy Duty)	1
35	KH00015	Pipe Plug 3/4 NPT. Sq. Hd.	1
36	TR50249	Intermediate Sprocket Assembly. **See note**	1
37	TR10116	Intermediate Sprocket	1
38	TR10026	Sprocket	1
39	F120510	Bolt 5/16 x 1 Flat Hd. Hex Soc.	4
40	D001-054	Decal - "Warning Crushing Hazard…"	1
41	TR10098	Chain Guard. Lower	1
42	F040410	Bolt 1/4 unc x 1 Gr.8	4
43	F310400	Lockwasher 1/4	4
44	F320400	Washer 1/4	4

NOTE

Use Part No. TR50322 to order the Intermediate Sprocket Assembly c/w Bearings.



NOTE

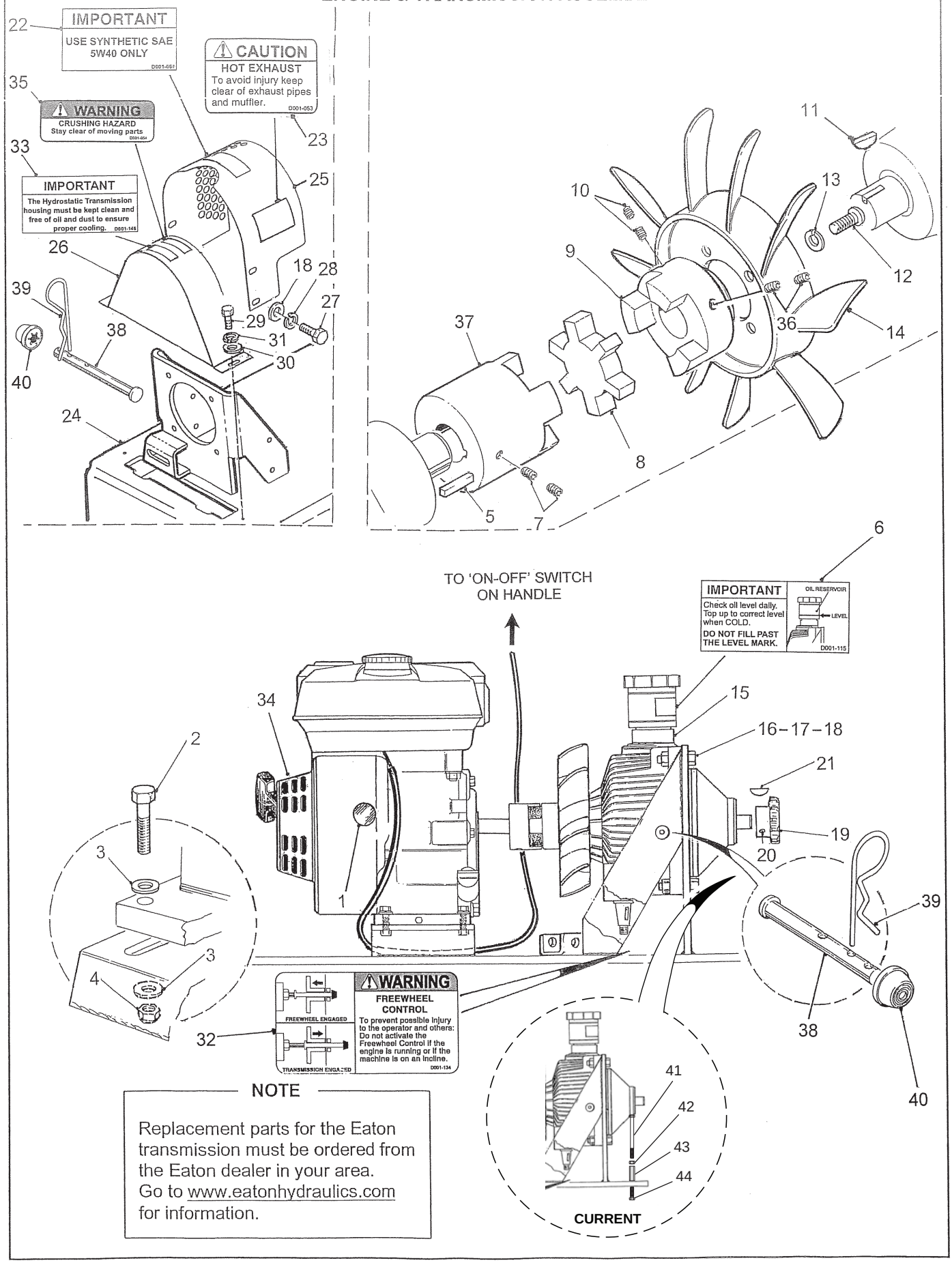
See page 9 for Dead Man Switch Assembly.

ITEM NO.	PART NO.	DESCRIPTION	QTY
		BTR 30 TURF ROLLER CONTROLS ASSEMBLY	
1	F900404	Woodruff Key 1/8 x 1/2 Pan. Hd. Phil. S.S.	1
2	TR30045	Lever Arm	1
3	F230600	Nut 3/8 UNC (Locite)	1
4	KM99002	Clevis Cable End c/w Pin, Cotter Pin & Bushing	1
5	KD10033	Control Cable Ass'y	1
6	F220450	Jam Nut 1/4 - 28 UNF	1
7	F010512	Bolt 5/16 UNC x 1 1/4	2
8	F310500	Lockwasher 5/16	2
9	F230500	Nut 5/16 UNC	4
10	F320500	Washer 5/16	4
11	TR50195	F-N-R Control Assembly c/w Cable	1
	KD10027	Control Assembly. F-N-R	1
12	F040522	Bolt 5/16 unc x 2 1/2 Gr.8	2
13	F320500	Washer 5/16	2
14	F210500	Locknut 5/16	2
15	KD40025	Switch 'ON-OFF' (Honda Part)	1
16	TR50188	Loom 'ON-OFF' Switch to Engine	Ref
17	KB10404	Bushing	1
18	KD10044	Control Assembly. Service Kit	1
19	KM99055	Knob	1

NOTE

Item 18 - Control Assembly Service Kit includes a Bolt, Lockwasher, Cable End Bushing - KB10422, and Snap Ring - F830425.

ENGINE & TRANSMISSION ASSEMBLY



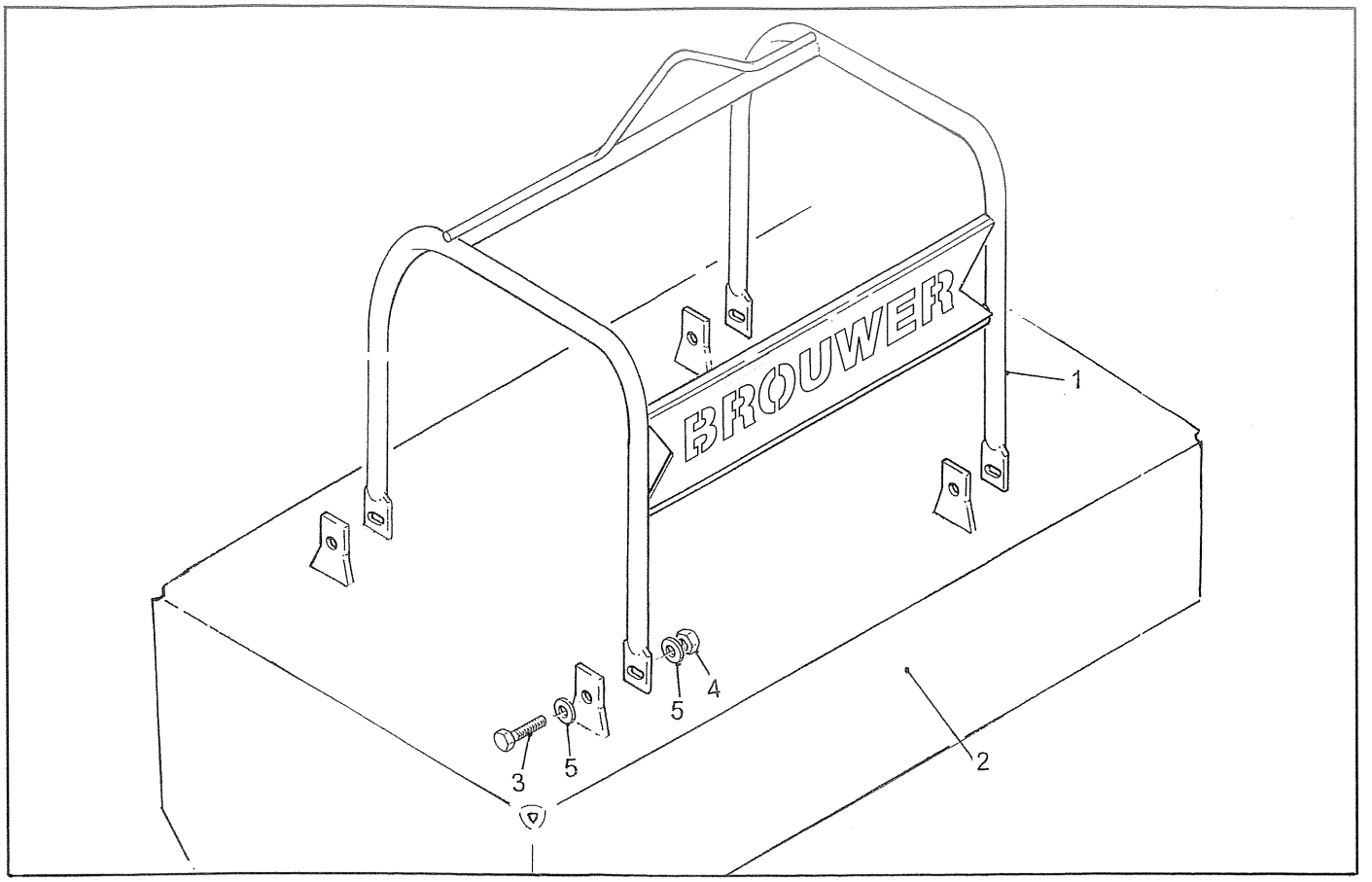
NOTE

Replacement parts for the Eaton transmission must be ordered from the Eaton dealer in your area.
Go to www.eatonhydraulics.com for information.

ITEM NO.	PART NO.	DESCRIPTION	QTY
		BTR 30 TURF ROLLER **ENGINE & TRANSMISSION ASSEMBLY**	
1	KM30012	Plug	1
2	F010516	Bolt 5/16 UNC x 1 3/4	4
3	F320500	Washer 5/16	8
4	F210500	Locknut 5/16 UNC	4
5	F923310	Key 3/16 x 3/16 x 1 (Engine shaft)	1
6	D001-115	Decal - "Important Check Oil Level…"	1
7	F140502	Set Screw UNC 5/16 Soc. Hd.	2
8	KD85104	Coupling Insert	1
9	TR10028	Half Coupling (Transmission)	1
10	F140402	Set Screw 1/4 UNC Soc. Hd.	2
11	F900404	Woodruff Key 1/8 x 1/2 Pan. Hd. Phil. S.S.	2
12	F700204	Screw #10 - 24 x 1/2	4
13	F310200	Lockwasher #10	4
14	TR10177	Cooling Fan	1
15	KD40017	Transmission (Eaton Model 7)	1
16	F010632	Bolt 3/8 UNC x 3 1/4	4
17	F210600	Locknut 3/8 UNC	4
18	F320600	Washer 3/8	8
19	TR10029	Sprocket (Transmission Shaft)	1
20	F140402	Set Screw 1/4 UNC Soc. Hd.	2
21	F900404	Woodruff Key 1/8 x 1/2	1
22	D001-068	Decal - "Important Use Synthetic…"	1
23	D001-053	Decal - "Caution Hot Exaust…"	1
24	TR30033	Roller Housing	1
25	TR10030	Fan Shroud	1
26	TR30039	Chain Guard	1
27	F040610	Bolt 3/8 unc x 1 Gr.8	4
28	F310600	Lockwasher 3/8	4
29	F040410	Bolt 1/4 unc x 1 Gr.8	2
30	F320400	Washer 1/4	2
31	F310400	Lockwasher 1/4	2
32	D001-134	Decal - "Warning Freewheel Control…"	1
33	D001-146	Decal - "Important Keep Hydrostatic Transmission clean…"	1
34	KD40019	Honda Engine GX 160 - See Note on Front Page of Parts List	1
35	D001-054	Decal - "Warning Crushing Hazard…"	1
36	F140502	Set Screw 5/16 unc x 1/4	2
37	TR10239	Half Coupling (Engine)	1
38	TR10320	Pin. Free Wheeling	1
39	F940224	Hitch Pin Clip	1
40	KX50105	Push Cap Nut	1
41	F040634	Bolt 3/8 N.C. x 3 1/2 Lg. - **Current**	1
42	F210608	Locknut 3/8 N.C. - **Current**	1
43	F23009	Coupling Nut 3/8 N.C. - **Current**	1
44	F040606	Bolt 3/8 N.C. x 3/4 Lg. - **Current**	1

NOTE

Items 41, 42, 43 & 44 are Current from Mid April 2017


BROUWER
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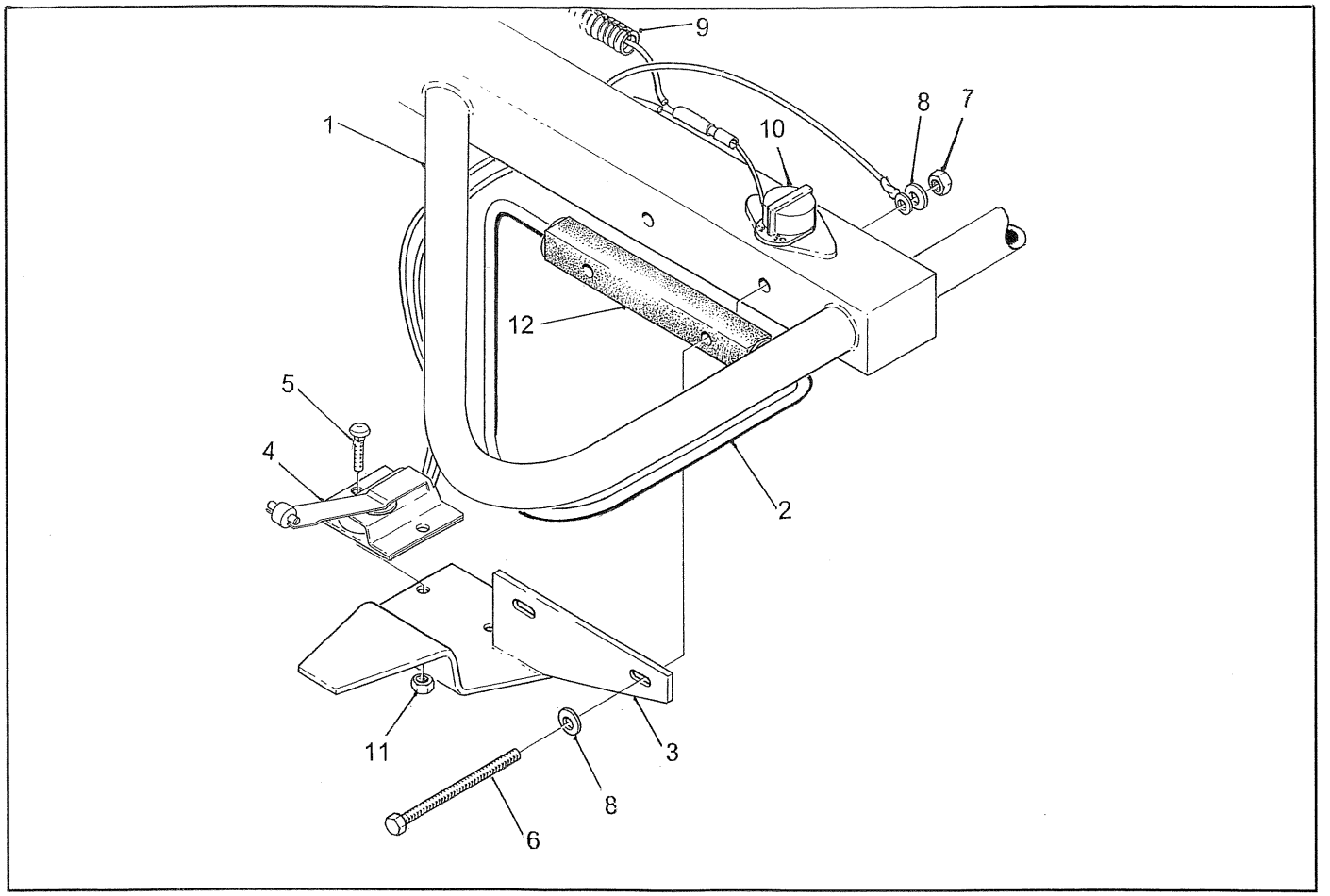
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ITEM NO.	PART NO.	DESCRIPTION	QTY
		BTR 30 TURF ROLLER **POWER PROTECTION ASSEMBLY**	
1	TR30382	Roll Cage	1
2	TR30033	Roller Housing	1
3	F040610	Bolt- 3/8 unc x 1 GR. 8	4
4	F230600	Nut 3/8 unc	4
5	F320600	Washer 3/8	8

ITEM NO.	PART NO.	DESCRIPTION	QTY
		BTR 30 TURF ROLLER **DEAD MAN SWITCH ASSEMBLY**	
1	TR30083	Handle	1
2	TR30099	Dead Man Handle	1
3	TR30101	Switch Mounting Bracket	1
4	KE80005	Limit Switch	1
5	F580204	Bolt- #10 St. Stl. Pan Hd.	2
6	F040440	Bolt- 1/4 unc x 4 GR. 8	2
7	F230400	Nut- 1/4 unc	2
8	F320400	Washer 1/4	4
9	TR50188	Loom Assembly	1
10	KD40025	ON-OFF' Switch	1
11	F210300	Locknut #10	2
12	TR10100	Pivot Mount. Dead Man Handle	1

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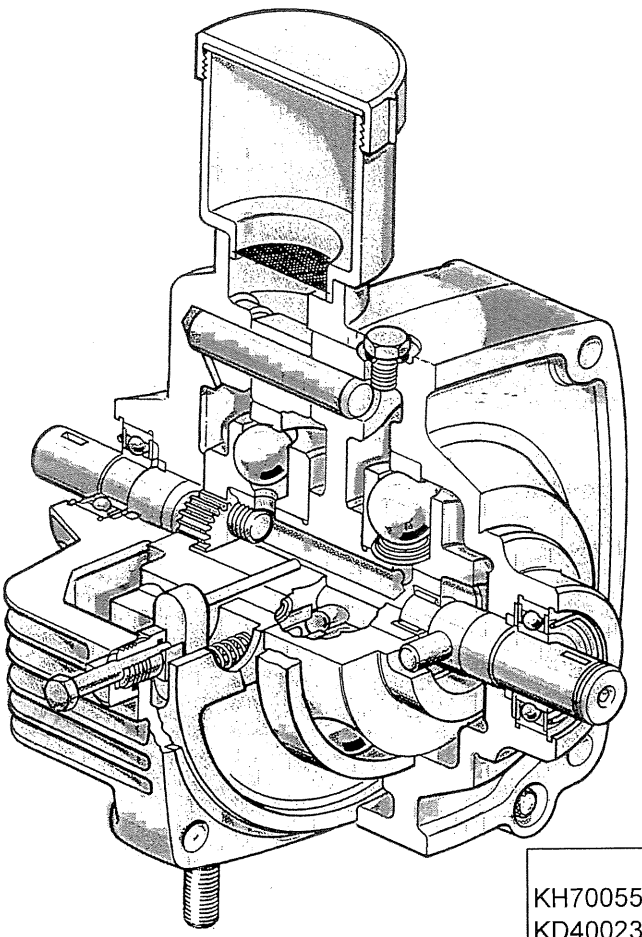
NO. 6-606

Eaton
Hydraulics
Division

Parts Information

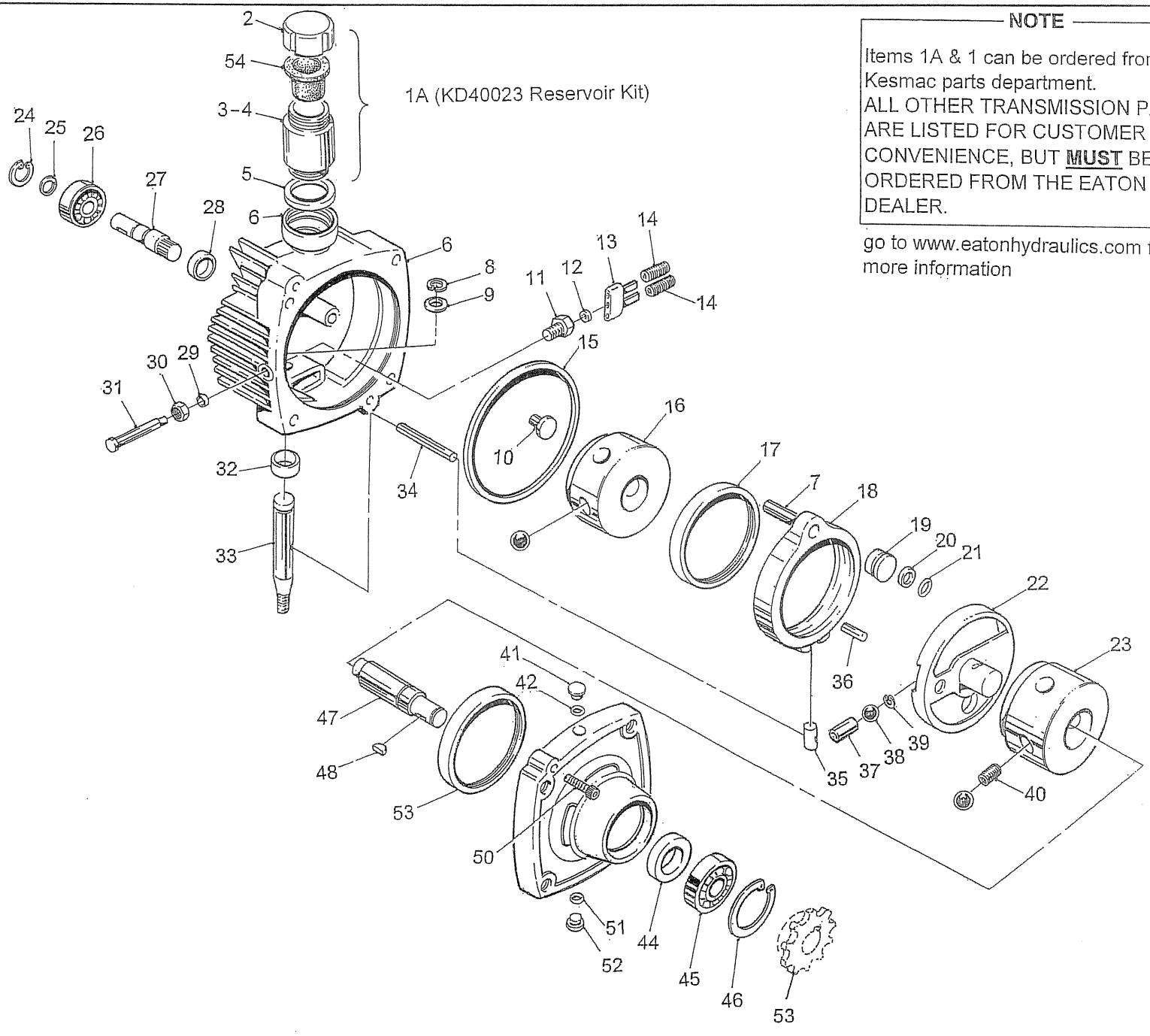
Model 7 Eaton Hydrostatic Transmission



NOTE

KH70055 Transmission Overhaul Kit & KD40023 Reservoir Kit can be ordered from Kesmac parts department.
ALL OTHER TRANSMISSION PARTS ARE LISTED FOR CUSTOMER CONVENIENCE, BUT **MUST** BE ORDERED FROM THE EATON AREA DEALER.
go to www.eatonhydraulics.com for more information

EATON



NOTE

Items 1A & 1 can be ordered from Kesmac parts department.
ALL OTHER TRANSMISSION PARTS ARE LISTED FOR CUSTOMER CONVENIENCE, BUT **MUST** BE ORDERED FROM THE EATON AREA DEALER.

go to www.eatonhydraulics.com for more information

ITEM NO.	PART NO.	DESCRIPTION	QTY
		EATON MODEL 7 HYDROSTATIC TRANSMISSION	
1	KH70055	Transmission Overhaul Kit	
1A	KD40023	Transmission Reservoir Kit	1
2	103531	Reservoir Cover	1
3	104322	Reservoir Body	1
4	104068	Reservoir Diaphragm	1
5	008771-130	Square Cut Seal Ring	1
6	990176	Cover Sevice Kit	1
7	93881	Pivot Pin Dowel	1
8	096098-062	External Retaining Ring	1
9	95060	Control Shaft Washer	1
10	101597	Button	1
11	24234	'O' Ring Fitting Guide Sub-assembly	1
12	008761-010	'O' Ring	1
13	24166	Bracket - Pins Sub-assembly	1
14	72149	Valve Spring	2
15	008771-162	Square Cut Seal Ring	1
16	22712	Pump Rotor - Ball Sub-assembly	1
17	40520	Pump Race	1
18	102623	Cam Ring	1
19	102451	Piston	2
20	088770-113	Back-up Ring	2
21	008765-113	'O' Ring	2
22	102454	Pintle Sub-assembly	1
23	104111	Motor Rotor- Ball Sub-assembly	1
24	101680-156	Retaining Ring	1
25	97121	Snap Ring	1
26	90797	Ball Bearing (Input)	1
27	62184	Input Shaft	1
28	93955	Oil Seal	1
29	82112	Gasket	1
30	24235	Nut - Gasket Sub-assembly	1
31	62240	Dump Valve Shaft	1
32	93895	Oil Seal	1
33	990083	Control Shaft Kit	1
34	990083	Dowel 3/8 dia. x 1 3/4 lg.	1
35	95203	Cam Ring Insert	1
36	098294-075	Coil Pin 5/16 dia. x 3/4 lg.	1
37	70130	Check Valve Body	2
38	0095881-031	Grade 200 Ball 5/16 dia.	2
39	95214	Retaining Ring	2
40	70044	Piston Spring	5
41	025090-006	'O' Ring Plug Sub-assembly	1
42	008785-006	Tube Fitting 'O' Ring	1
43	32278	Body	1
44	93955	Oil Seal	1
45	90797	Ball Bearing (Output)	1
46	101680-156	Retaining Ring	1
47	22892	Output Shaft Sub-assembly	1
48	N/A	Woodruff Key #3	1

NOTE

Items 1A & 1 can be ordered from Kesmac parts department.
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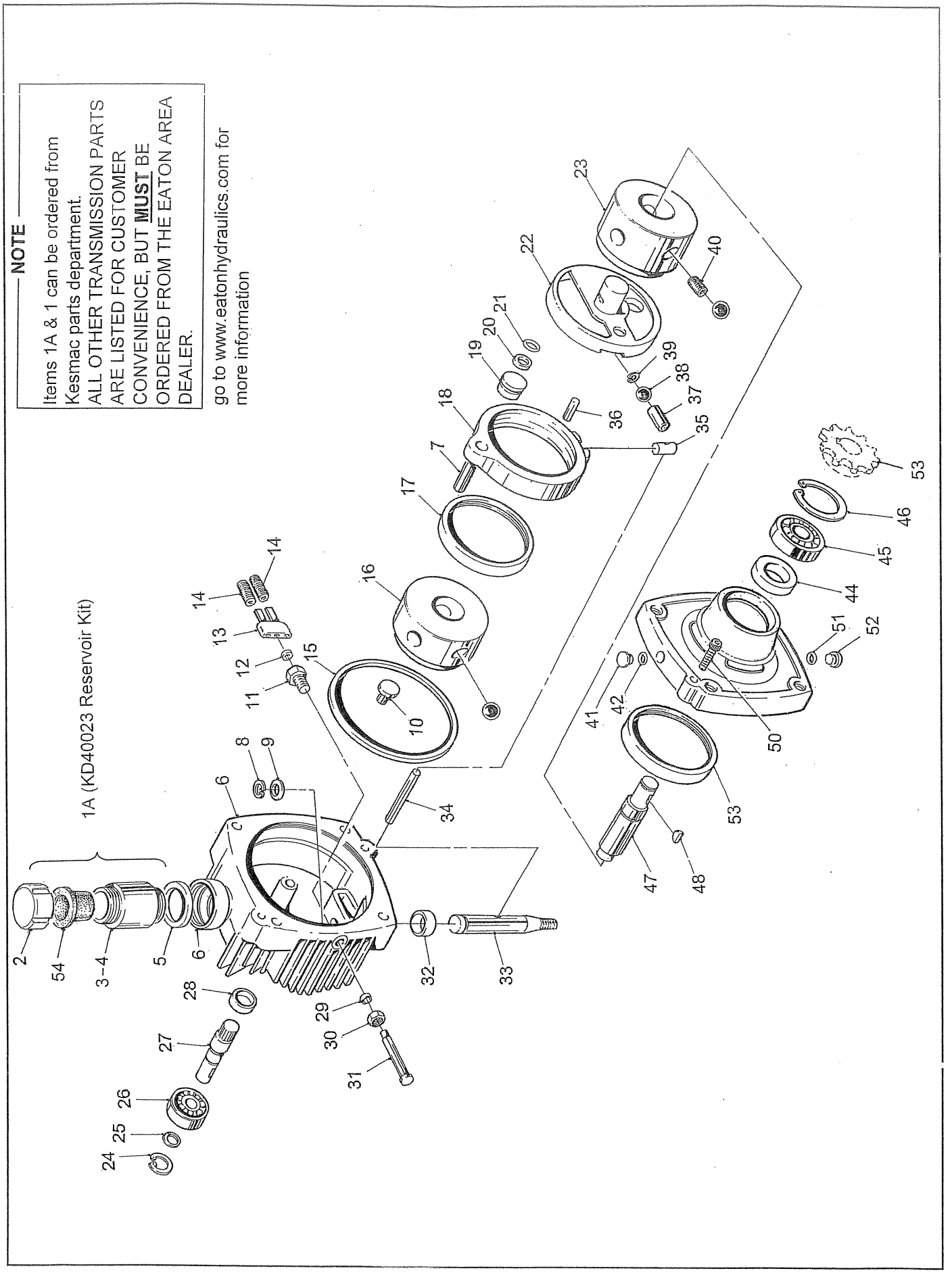


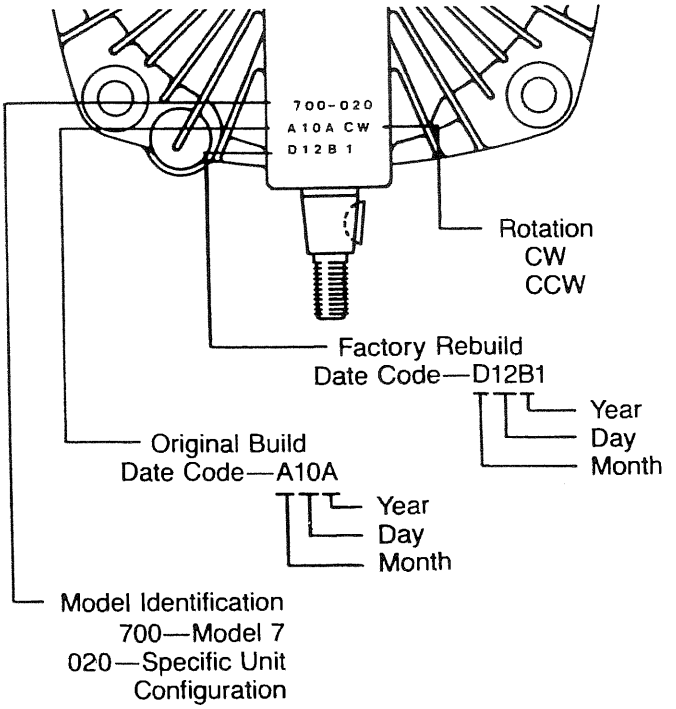
ITEM NO.	PART NO.	DESCRIPTION	QTY
		EATON MODEL 7 HYDROSTATIC TRANSMISSION	
49	40519	Motor Race	1
50	095912-125	Socket Hd. Capscrew	2
51	008785-006	Tube Fitting 'O' Ring	1
52	025090-005	'O' Ring Plug Assembly	1
53	TR10029	Sprocket (Transmission Shaft)	ref
54	KD40033	Diaphragm. Reservoir	1

EATON®
MODEL 7
HYDROSTATIC PUMP
PARTS INFORMATION
NO. 6-606

HOW TO ORDER REPLACEMENT PARTS

EACH ORDER MUST INCLUDE
THE FOLLOWING INFORMATION

1. Product Number
2. Date Code
3. Part Name
4. Part Number
5. Quantity of Parts



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EATON

FORM NO. 6-606-86

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