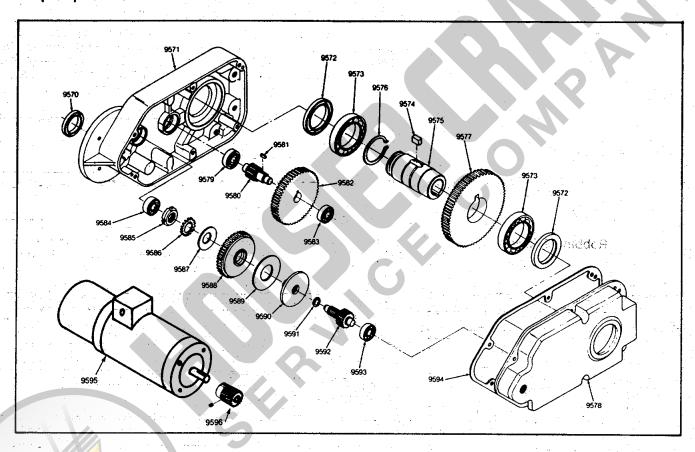


SPARE PARTS IDENTIFICATION 415-1

MATERIALS HANDLING DIVISION 1345 LAGONDA AVE. SPRINGFIELD, OHIO 45501 513-328-5100

This	is your op	eration ar	d mainte	enance mar	nual
for y	/our Solari	KS 5 (Kyrs)	TR3 ge	armotor. A	CODY
of th	nis manual	was inclu	ded with	the shipme	ent.
			# and pa	art referenc	e #
for p	prompt seri	vce.	,		

SERIAL #				
CATALOG #				
MOTOR H.P		@	RPA	1
CURRENT	VOLT	PH	CYCLI	Ξ

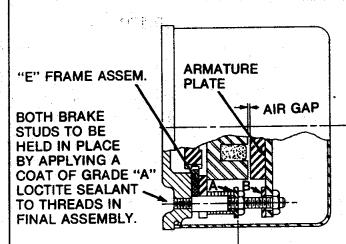


TR 3 MOTORREDUCER GEARCASE

REFERENCE NUMBER	PART DESCRIPTION	REFERENCE NUMBER	PART DESCRIPTION
9570	OIL SEAL	9584	BALL BEARING
9571	GEARCASE	9585	BEARING LOCK NUT
9572	OIL SEAL	9586	BEARING LOCK WASHER
9573	BALL BEARING	9587	BEVELLED WASHER
9574	KEY	9588	SHOCK CLUTCH
9575	DRIVE SHAFT	9589	FRICTION DISC
9576	SNAP RING	9590	SHOCK CLUTCH DISC
9577	DRIVE GEAR	9591	SNAP RING
9578	GEARCASE COVER	9592	CLUTCH PINION
9579	BALL BEARING	9593	BALL BEARING
9580	INTERMEDIATE PINION	575 9594	GEARCASE GASKET
9581	DEEM A CHIEGO	9595	MOTOR
9582	INTERMEDIATE GEAR	95962	MOTOR PINION
9583	BALL BEARING		

BRAKE





All brakes are set at the factory for average conditions based on the capacity and speed. You may adjust the torque to suit your particular application.

To adjust brake torque-compress spring to the required level by adjusting nut "A", lock in place with jam nut.

To adjust brake for lining wear, set air gap at 1/32" (.031") by adjusting nut "B". Lock armature plate securely in place with jam nut.

IMPORTANT: Recheck air gap to make sure at least .031" air gap is present. For maximum life and performance from brake, adjustments should be made when air gap exceeds 1/16" due to friction disc wear. Disc should be replaced when thickness of disc is reduced to 1/8".

MOVE THIS DIRECTION TO INCREASE TORQUE AND PROVIDE QUICKER STOP

MOVE THIS DIRECTION TO REDUCE TORQUE AND PROVIDE SMOOTHER STOP

MOUNTING

The crane drive may be mounted in either a vertical or horizontal position.

CLUTCH ADJUSTMENT

The drive train is equipped with an override clutch to protect against potentially damaging impact loads. If excessive slips developes during normal operations, the clutch may be tightened. To tighten clutch remove the clutch assembly from the gear case. Tighten the bearing locknut (Fig. 415-1, Part No. 9585) all the way. Then back off locknut 1/4 turn. Relock in place with bearing lock washer (Fig. 415-1, Part No. 9586).

LUBRICATION

A good commercial grade gear lube is recommended for use as follows:

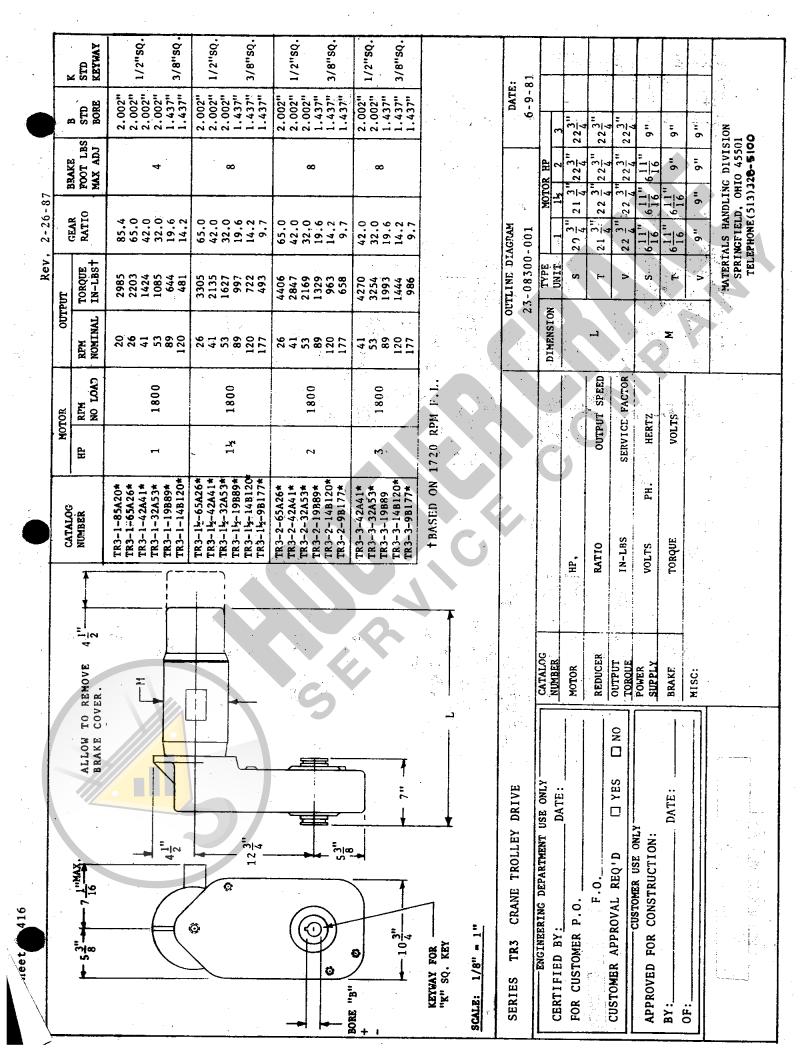
For ambient temperatures of -20° to 40°F use an 80 weight lube.

For ambient temperatures of 40° to 120°F use a 90 weight lube.

Vertical position use 1½ quarts. Horizontal position use 2 quarts.

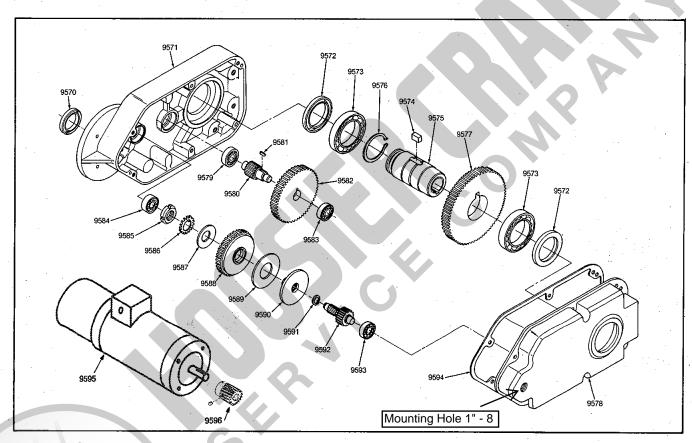
NOTE: Before placing the drive unit in operation, oil level must be checked and filled.

OIL LEVEL INDICATED BY HEAVY DASHED LINE



MATERIALS HANDLING DIVISION 1345 LAGONDA AVE. SPRINGFIELD, OHIO 45501 513-328-5100

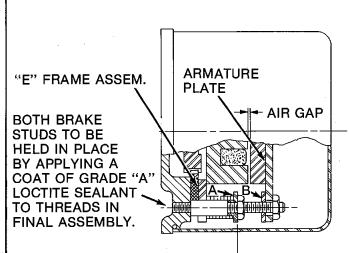
This is your operation and maintenance manual for your 5 TR3 gearmotor. A copy of this manual was included with the shipment. Please specify the serial # and part reference # for prompt serivce.



TR 3 MOTORREDUCER GEARCASE

REFERENCE NUMBER	PART DESCRIPTION	REFERENCE NUMBER	PART DESCRIPTION
9570 9571	OIL SEAL GEARCASE	9584	BALL BEARING
9572	OIL SEAL	9585 9586	BEARING LOCK NUT BEARING LOCK WASHER
9573 9574	BALL BEARING KEY	9587 9588	BEVELLED WASHER SHOCK CLUTCH
9575	DRIVE SHAFT	9589	FRICTION DISC
9576 9 577	SNAP RING DRIVE GEAR	9590 9591	SHOCK CLUTCH DISC SNAP RING
9578 9579	GEARCASE COVER BALL BEARING	9592	CLUTCH PINION
9580	INTERMEDIATE PINION	9593 9594	BALL BEARING GEARCASE GASKET
9581 9582	KEY INTERMEDIATE GEAR	9595 9596	MOTOR BINION
9583	BALL BEARING	9090	MOTOR PINION

BRAKE



All brakes are set at the factory for average conditions based on the capacity and speed. You may adjust the torque to suit your particular application.

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To adjust brake for lining wear, set air gap at 1/32" (.031") by adjusting nut "B". Lock armature plate securely in place with jam nut.

IMPORTANT: Recheck air gap to make sure at least .031" air gap is present. For maximum life and performance from brake, adjustments should be made when air gap exceeds 1/16" due to friction disc wear. Disc should be replaced when thickness of disc is reduced to 1/8".

MOVE THIS DIRECTION TO
INCREASE TORQUE AND
PROVIDE QUICKER STOP

MOVE THIS DIRECTION TO REDUCE TORQUE AND PROVIDE SMOOTHER STOP

MOUNTING

The crane drive may be mounted in either a vertical or horizontal position.

CLUTCH ADJUSTMENT

The drive train is equipped with an override clutch to protect against potentially damaging impact loads. If excessive slips developes during normal operations, the clutch may be tightened. To tighten clutch remove the clutch assembly from the gear case. Tighten the bearing locknut (Fig. 415-1, Part No. 9585) all the way. Then back off locknut ½ turn. Relock in place with bearing lock washer (Fig. 415-1, Part No. 9586).

LUBRICATION

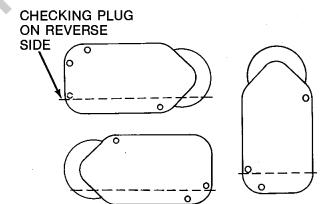
A good commercial grade gear lube is recommended for use as follows:

For ambient temperatures of -20° to 40°F use an 80 weight lube.

For ambient temperatures of 40° to 120°F use a 90 weight lube.

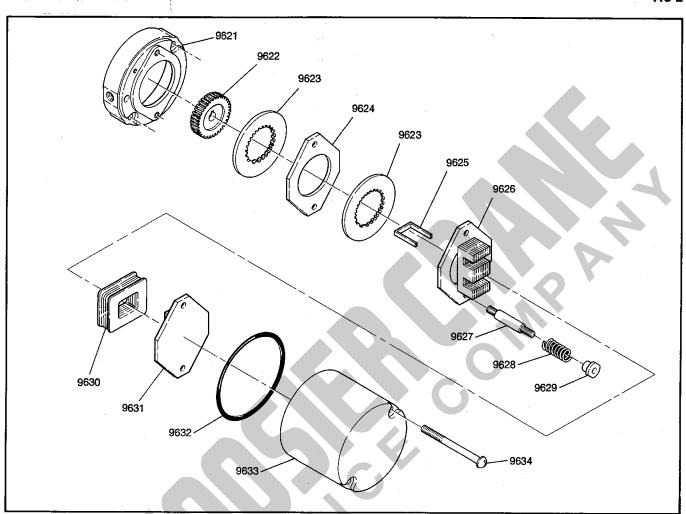
Vertical position use 1½ quarts. Horizontal position use 2 quarts.

NOTE: Before placing the drive unit in operation, oil level must be checked and filled.



OIL LEVEL INDICATED BY HEAVY DASHED LINE

MATERIALS HANDLING DIVISION 1345 LAGONDA AVE. SPRINGFIELD, OHIO 45501 513-327-3111



M4 MOTOR BRAKE

REFERENCE NUMBER	PART DESCRIPTION
9621	Brake Adapter
9622	Brake Hub
9623	Friction Discs
9624	Thrust Discs
9625	Wedge
9626	Pole Plate Assembly
9627	Brake Stud
9628 9629	Spring Lockwasher
9630	Coil
9631	Armature Plate Assembly
9632	Gasket
9633	Brake Cover
9634	Bolt
*9635	Brake Assembly
1	

*USE THIS NUMBER WHEN ORDERING COMPLETE ASSEMBLY
DRIVE SERIAL NUMBER MUST BE FURNISHED IN ADDITION TO PART REFERENCE NUMBER.