



OPERATING, SERVICE AND MAINTENANCE MANUAL



WILDCAT 85K MODEL WC 85R 85,000 LB INDUSTRIAL WINCH



<u>CAUTION</u>: READ AND UNDERSTAND THIS MANUAL BEFORE INSTALLATION AND OPERATION OF WINCH. SEE WARNINGS!

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RAMSEY HYDRAULIC PLANETARY WINCH MODEL WC 85 K

PLEASE READ THIS MANUAL CAREFULLY

This manual contains useful ideas in obtaining the most efficient operation from your Ramsey Winch, and safety procedures one needs to know before operating a Ramsey Winch. Do not operate this winch until you have carefully read and understand the "WARNINGS" and "OPERATION" sections of this manual.

WARRANTY INFORMATION

Ramsey Winches are designed and built to exacting specifications. Great care and skill go into every winch we make. If the need should arise, warranty procedure is outlined on the back of your self-addressed postage paid warranty card. Please read and fill out the enclosed warranty card and send it to Ramsey Winch Company. If you have any problems with your winch, please follow instructions for prompt service on all warranty claims. Refer to back page for limited warranty.

SPECIFICATIONS*

APPROXIMATE WEIGHT1685 LBS.										
WORKING	WORKING PRESSURE:2750 PSI									
CABLE DIA	METER:								1 INCH	
MAX FLO	N:								60 GPM	
LAYER	CA	CABLE LOW SPEED HIGH SPEED								
OF	CAPA	ACITY	LINE	PULL	LINE SPEED		LINE PULL LINE SPEED		SPEED	
CABLE	Ft	m	Lb	Kg	fpm	mpm	Lb	Kg	fpm	mpm
1	45	13	85000	38550	27	8	37000	16780	58	18
2	105	32	70800	32110	31	9	30800	13970	68	21
3	170	51	60700	27530	36	11	26400	11970	78	24
4	250	76	53100	24080	41	12	23100	10470	89	27
5	335	102	47200	21400	46	14	20500	9290	99	30

^{*} These specifications are based on recommended wire rope of 1" Extra Improved Plow Steel Cable and a 10.28 cu. In. / Rev. motor.

WARNINGS:

CLUTCH MUST BE FULLY ENGAGED BEFORE STARTING THE WINCHING OPERATION.

DO NOT START WINCH MOTOR BEFORE ENGAGING CLUTCH.

DO NOT DISENGAGE CLUTCH UNDER LOAD.

STAY OUT FROM UNDER AND AWAY FROM RAISED LOADS.

STAND CLEAR OF CABLE WHILE PULLING. DO NOT TRY TO GUIDE CABLE.

DO NOT EXCEED MAXIMUM LINE PULL RATINGS SHOWN IN TABLE.

DO NOT USE WINCH TO LIFT, SUPPORT, OR OTHERWISE TRANSPORT PEOPLE.

A MINIMUM OF 5 WRAPS OF CABLE AROUND THE DRUM BARREL IS NECESSARY TO HOLD THE LOAD.

CABLE ANCHOR IS NOT DESIGNED TO HOLD LOAD.

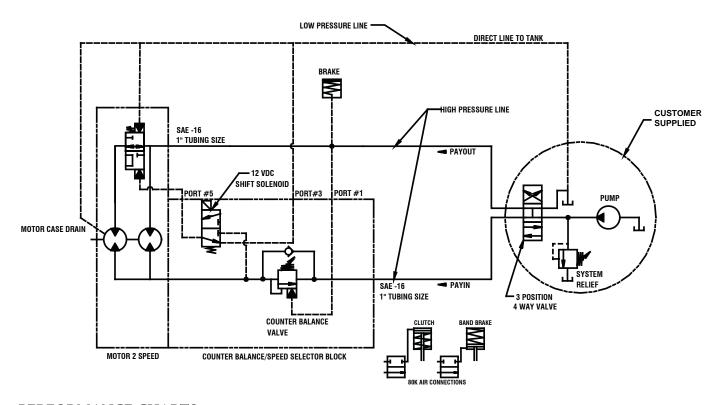
BAND BRAKE IS NOT TO BE USED TO HOLD LOAD

HYDRAULIC SYSTEM REQUIREMENTS

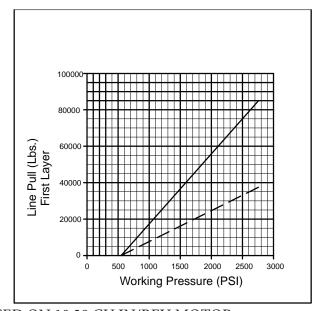
Refer to the performance charts, below, to properly match your hydraulic system to winch perfor mance. The charts consist of:

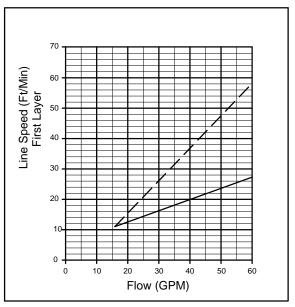
(1) Line pull (lb.) first layer vs. working pressure (PSI) and (2) line speed, first layer (FPM) vs. gal lons per minute (GPM). Performance based on a motor displacement of 10.28 cubic inches/rev with 60 GPM maximum flow rate. Motor has (2) 1"-12 SAE straight thread o-ring ports.

Note: A motor spool (open center) directional control valve is required for brake operation.



PERFORMANCE CHARTS

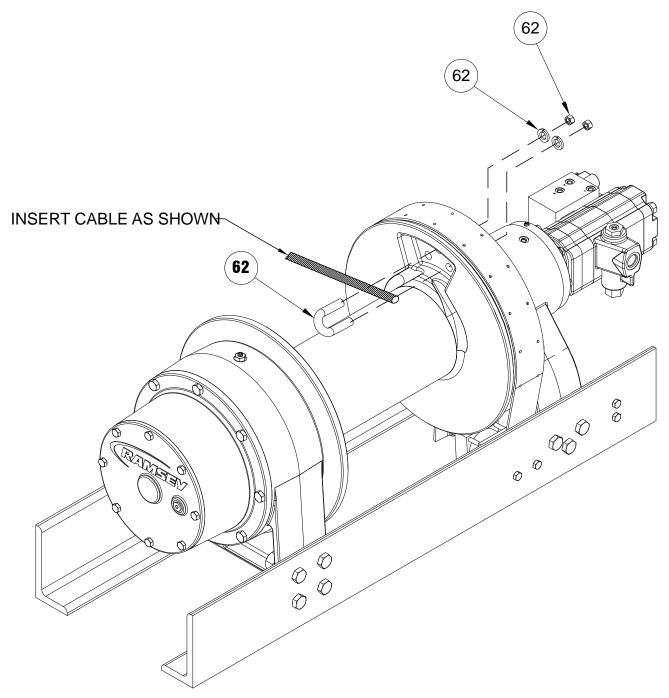




BASED ON 10.28 CU IN/REV MOTOR

CABLE INSTALLATION

- 1. Unwind cable by rolling it out along the ground to prevent kinking. Securely wrap end of wire rope, opposite hook, with plastic or similar tape to prevent fraying.
- 2. Place taped end of cable into slot on drum flange and bend into track on drum flange. Se cure using supplied u-bolt #62.
- 3. Carefully run the winch in the "reel-in" direction. Keeping tension on end of cable, spool all the cable onto the cable drum, taking care to form neatly wrapped layers.
- 4. After installing cable, band brake is used to prevent bird nesting while pulling out cable, when clutch is disengaged.



CLUTCH OPERATION

WARNING: CLUTCH MUST BE FULLY ENGAGED BEFORE STARTING THE WINCHING OP-ERATION.

To engage clutch:

- 1. Move clutch control to engage the clutch.
- 2. Run the motor in the cable out direction until the drum begins to turn.

WARNING: DO NOT DISENGAGE CLUTCH UNDER LOAD.

To disengage clutch:

- 1. Run the winch in the "cable out" direction until the load is off the cable.
- 2. Move the clutch control to disengage the clutch. The cable may now be spooled off.

WINCH OPERATION

The best way to get acquainted with how your winch operates is to make test runs before you use it. Plan your test in advance. Remember, you hear your winch, as well as see it operate; learn to recognize the sounds of a light steady pull, a heavy pull, and sounds caused by load jerking or shift ing. Gain confidence in operating your winch and its use will become second nature with you. The uneven spooling of cable while pulling a load is not a problem, unless there is a cable pileup on one end of drum. If this happens reverse the winch to relieve the load and move your anchor point further to the center of the vehicle. After the job is done you can unspool and rewind for a neat lay of the cable.

MAINTENANCE

Adhering to the following maintenance schedule will keep your winch in top condition and perform ing as it should with a minimum of repair.

Drum bushings are oil impregnated with synthetic oil. The drum bushings do not require additional grease.

A. WEEKLY

- 1. Check the oil level and maintain it to the oil level plug. If oil is leaking out, determine location and repair.
- 2. Check the pressure relief plug on the gear housing cover and the brake housing cover. Be sure they are not plugged.
- 3. Lubricate cable with light oil.
- 4. Apply a high quality lithium grease to clutch spline. Apply band brake to control drum. Declutch drum and apply grease to spline between clutch and drum.

B. MONTHLY

- 1. Check the winch mounting bolts. If any are missing, replace them and securely tight en any that are loose. Use grade 5 or better bolts.
- 2. Inspect the cable. If the cable has become frayed with broken strands, replace immediately.

C. ANNUALLY

- 1. Drain the oil from the winch annually or more often if winch is used frequently.
- 2. Refill the winch to the oil level plug with all purpose GL-5 oil, (see page 5) for gear lube compatible with your climate.
- 3. Inspect winch for damage and wear.

LUBRICANT CHART AND TROUBLE SHOOTING GUIDE

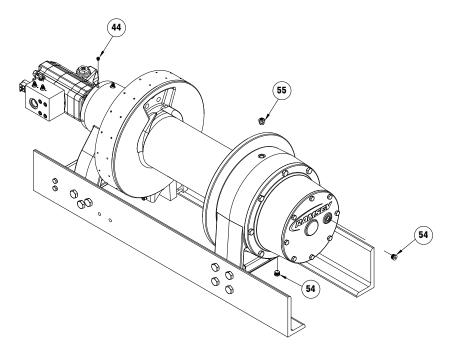
	Temp Range F(C)				
Lubricant Description*	Min	Max	Max		
Lubricant Description	Ambient &	Ambient			
	Operating	Ambient	Operating		
80W140 Synthetic	-25 (-32)	125 (52)	225 (107)		
75W90 Synthetic	-40 (-40)	115 (46)	215 (102)		
80W90 Conventional	-20 (-29)	100 (38)	180 (82)		
85W140 Conventional	20 (6)	120 (50)	200 (93)		

^{*}Use API GL-5 or EP lubricants.

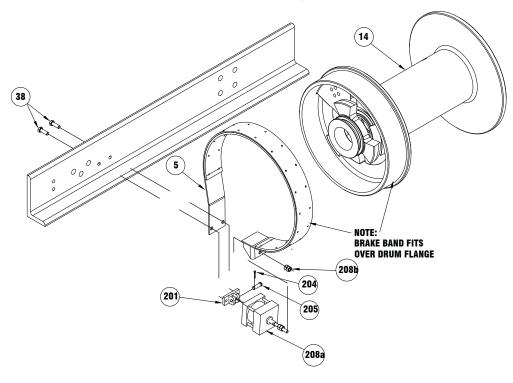
CONDITIONS	POSSIBLE CAUSE	CORRECTION
OIL LEAKS FROM WINCH	Seals damaged or worn.	Replace seal
	2. Too much oil.	2. Drain excess oil. Refer to page 6.
	3. Damaged o-rings.	3. Replace o-rings.
	Case drain not connected.	4. Connect case drain.
WINCH RUNS TOO SLOW	1. Low flow rate.	Check flow rate. Refer to HYDRAULIC SYSTEMS performance chart on page 2.
	2. Hydraulic motor worn out.	2. Replace motor.
CABLE DRUM WILL NOT FREESPOOL	Clutch not disengaged	Check operation. Refer to Clutch Operation on page 4.
BRAKE WLL NOT HOLD	Incorrect directional control valve. (cylinder spool, closed center).	Use only a motor spool (open center) directional control valve.
	Excessive hydraulic system back pressure.	Reduce system back pressure to less than 100 psi.
	3. Sprag clutch worn out.	Replace sprag clutch mechanism.
BRAKE WILL NOT RELEASE	Brake line disconnected or blocked	Repair brake line.
WINCH WILL NOT OPERATE AT HIGH SPEED	Shift solenoid not working.	Verify shift spool is energized.
WINCH OPERATES ERRATICALLY ON INHAUL	Sprag hub is reversed.	Install sprag hub correctly.

INSTRUCTIONS FOR DISASSEMBLY

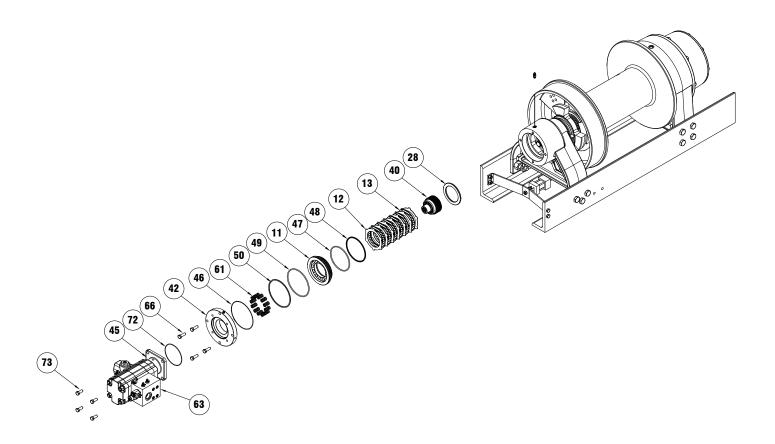
- 1. Remove wire rope from drum.
- 2. Drain oil from winch by removing (2) plugs #54, removing the lower plug first.
- 3. When replacing lubricant, use 264 oz of applicable lube for your climate form table on page 5, adding 4 oz at #44 and the remaining at # 55.



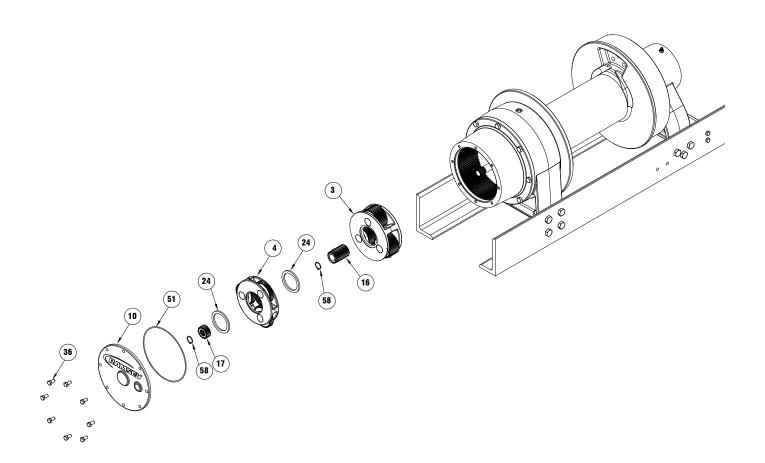
4. Remove (2) nuts #208b from air cylinder #208a. Air cylinder may now be removed. If needed, mounting bracket #201 may be removed by removing pin #204 from pin #205 and then sliding pin out of mounting bracket. Brake band #5 may be expanded over drum flange to barrel for easiest removal.



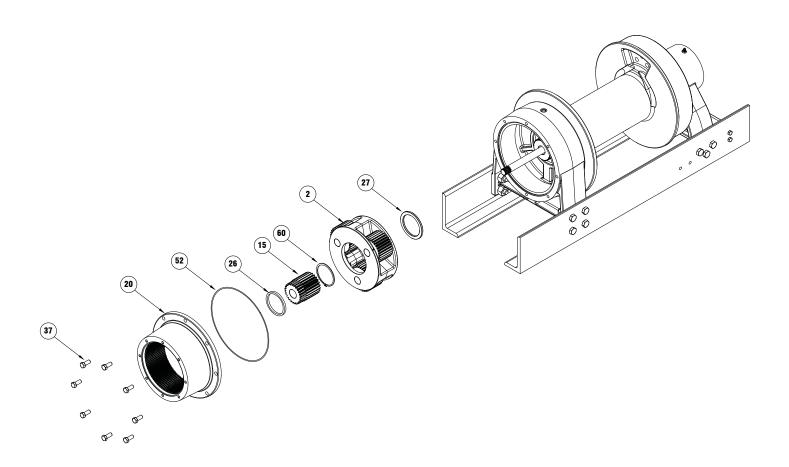
- 5. Remove motor #45 from winch by first disconnecting hydraulic lines (see page 17), solenoid wires, and then remove (4) bolts #73. O-ring #72 may now be removed.
- 6. Remove brake cover #42 by removing (4) bolts #66. The cover is spring loaded, use care when removing. Remove o-ring #46 then springs #61 may be removed; residual oil may be present in the brake housing.
- 7. Remove piston #11 including o-rings and backup rings #47, #48, #49, and #50 by using a momentary puff of compressed air into the brake port located on top of the end bearing. Capture the piston by placing a shop rag over the opening prior to using air.
- 8. Remove the sprag brake hub assembly #40, (7) stator plates #12, (6) disc brakes #13, and the spacer #28. The sprag brake hub assembly #40 is not a serviceable part, if damaged a replacement assembly should be ordered.



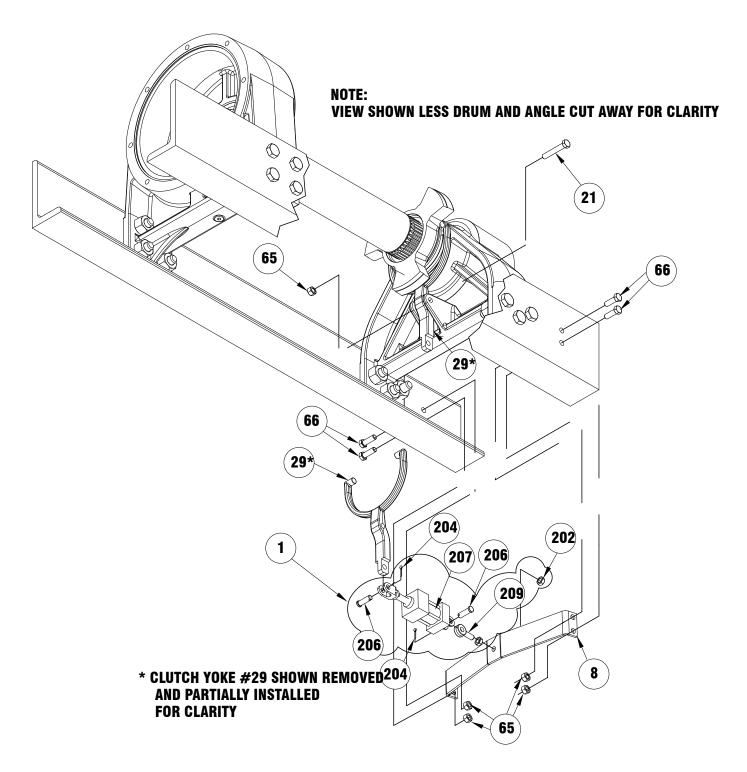
- 9. Remove (8) cover bolts #36; cover #10, and o-ring #51.
- 10. Remove snap ring #58, and sun gear #17.
- 11. The planetary carrier assembly #4 may now be removed along with (2) spacers #24.
- 12. Remove second snap ring #58 and intermediate sun gear #16.
- 13. Planetary carrier assembly #3 may now be removed.



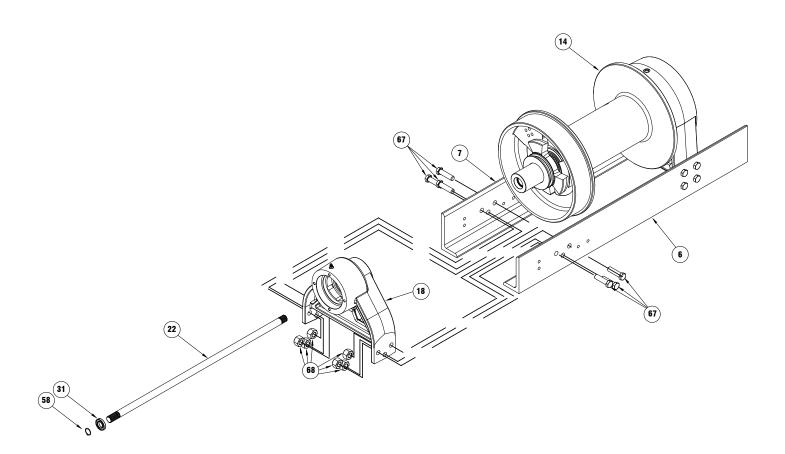
- 14. Using a nylon strap, support ring gear #20 from a hoist or boom, this ring gear is heavy. Remove (8) bolts #37 leaving the top most bolt for last. Remove the final bolt while supporting ring gear. Set ring gear aside. Remove the o-ring #52.
- 15. Remove spacer #26 and the output sun gear #15.
- 16. Using a large pair of snap ring pliers remove the snap ring #60 from the shaft located inside the plan etary carrier assembly #2.
- 17. Using a nylon strap and hoist slide the output planetary carrier #2 from the ring gear housing. The output planetary carrier is heavy.
- 18. Remove the spacer #27.



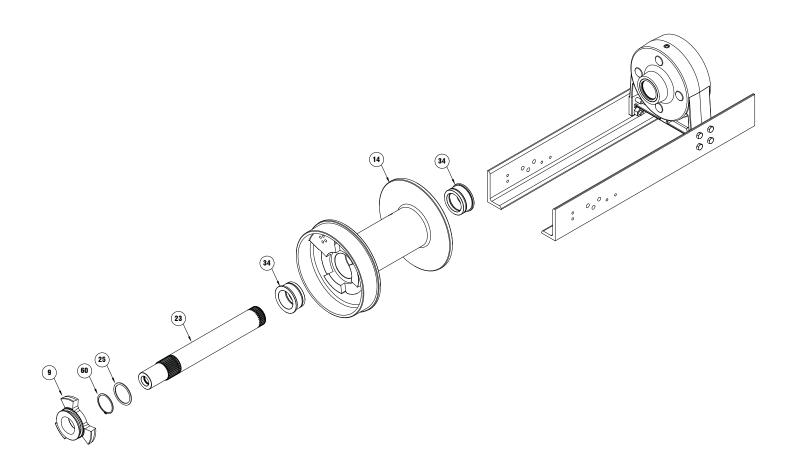
- 19. Remove the clutch cylinder #1 by removing the (2) cotter keys #204 and (2) pins #206 from either end of the air cylinder #207.
- 20. The clutch cylinder support angle #8 can be removed by removing the four bolts #66 and nuts #65 attaching it to the mounting angles.
- 21. Remove the clutch yoke #29 by removing center pivot bolt #21 and nut #65.



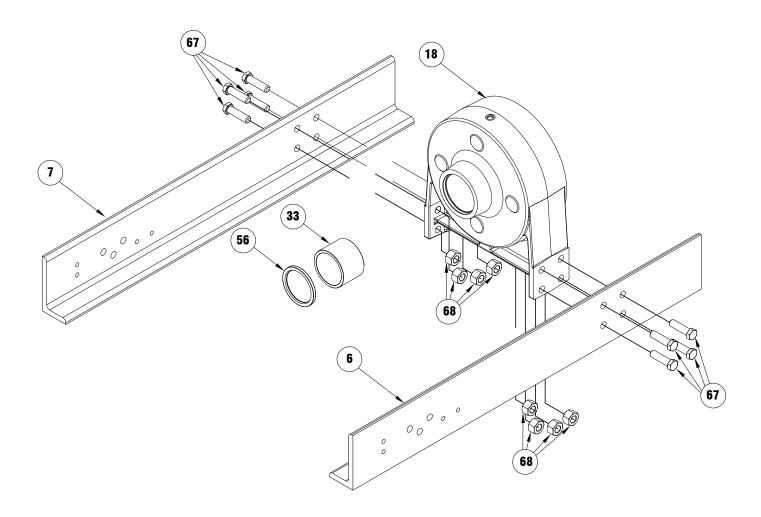
- 22. By removing snap ring #58 and ball bearing #31, the input shaft #22 may be removed.
- 23. To remove the motor end bearing #18, support drum #14 with a nylon strap or chain and hoist. Lift on the drum to tension the strap. Remove (6) bolts #67 and (6) nuts #68 attaching the end bearing to the mounting angles #6 and #7. The motor end bearing #18 will be supported on the output shaft end and may be slid off using a nylon strap and hoist to lift it.



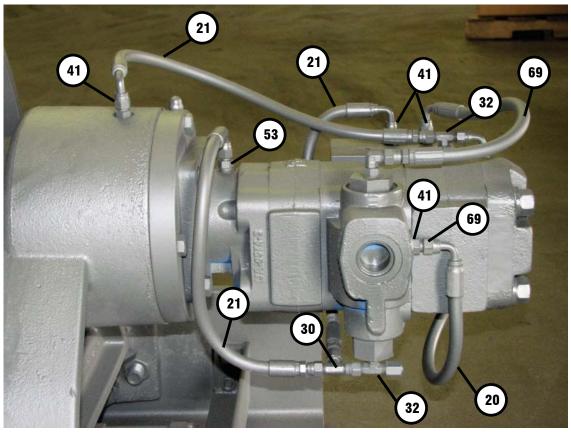
- 24. While continuing to support the drum #14, remove the clutch #9, snap ring #60 and spacer #25.
- 25. The output shaft #23 may be slid from the drum assembly.
- 26. The drum #14 is now supported only by the nylon strap and maybe removed as needed.
- 27. The (2) bushings #34 may be pressed from the drum if replacement is necessary.



28. To remove gear end bearing #18, from mounting angles #6 and #7, first remove (4) 7/8-9NC bolts #67 and (4) nuts #68 from each angle. Shaft oil seal #56 and end bearing bushing # 33 can be removed and replaced at this time, if necessary.

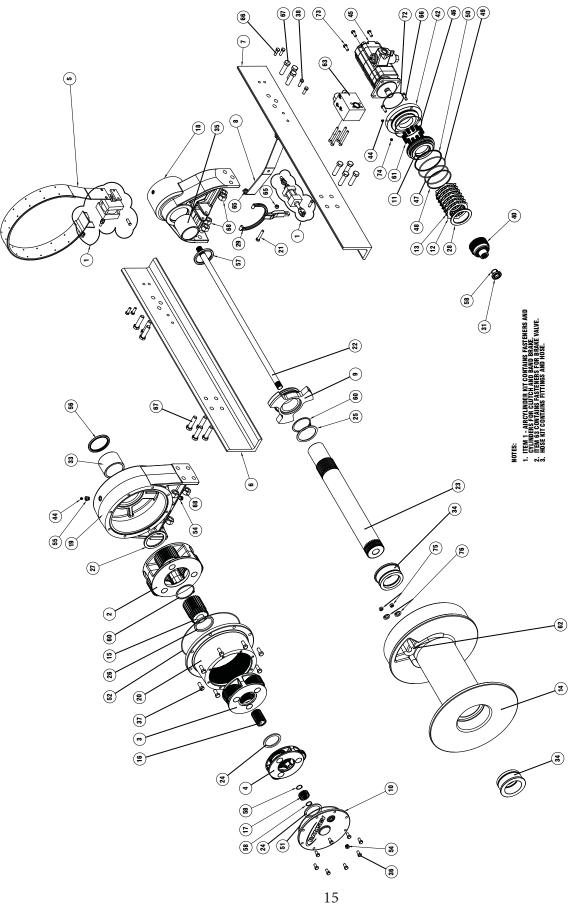


HOSE HOOKUP





PARTS DRAWING



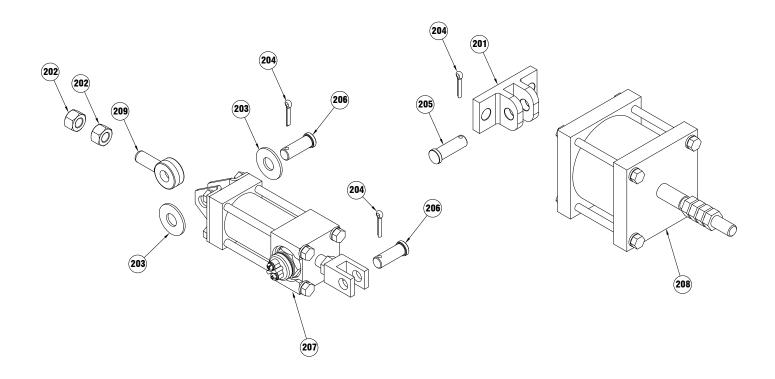
PARTS LIST

ASSEMBLY KIT ARRIER ASSEMBLY AUGLE A	. ⊢	256131	AIR CYLINDER KIT	38	. 7	414622	BOLT-1/2-13NCX1 1/2LG HXHD, GR5 ALL THREAD
INTERMEDIATE CARRIER ASSEMBLY INPUT CARRIER ASSEMBLY BAND BRAKE LH MOUNTING ANGLE RH MOUNTING ANGLE CLUTCH CYLINDER SUPPORT BRACKET GEAR HOUSING COVER BRAKE PISTON STRAYOR PLATE DISC-BRAKE DIS		251329		33	1	432018	FITTING JIC O-RING EL
INPUT CARRIER ASSEMBLY 41 4 432023 BAND BRAKE 42 1 432023 BAND BRAKE 43 1 432023 LH MOUNTING ANGLE 44 2 1 432023 CLUTCH CYLINDER SUPPORT BRACKET 45 1 452003 GEAR HOUSING COVER 46 1 462063 BRAKE PISTON 48 1 462083 DISC-BRAKE 50 1 462083 DISC-BRAKE 50 1 462083 DRUM GEAR-SUN 51 1 462083 GEAR-SUN GEAR-SUN 51 1 462083 GEAR-SUN GEAR-SUN 51 1 462083 HOUSING-GEAR 52 1 462083 END BEARING-GEAR SIDE 55 1 462083 SPACER HOUSING-GEAR 52 1 462083 SPACER SADACER 52 1 432054 SPACER SADACER 52 <		296671	INTERMEDIATE CARRIER ASSEMBLY	40	1	296952	SPRAG BRAKE HUB ASSEMBLY
BAND BRAKE 42 1 438043 LH MOUNTING ANGLE 43 R 45008 RH MOUNTING ANGLE 45 1 456008 CLUTCH CYLINDER SUPPORT BRACKET 45 1 456008 CLUTCH 46 1 45008 GEAR HOUSING COVER 47 1 462083 BRAKE PISTON 48 1 462083 DISC-BRAKE 50 1 462083 DISC-BRAKE 50 1 462083 DRUM 51 462083 1 462083 GEAR-SUN 62 1 486088 1 486088 END BEARING-GEAR 55 1 486088 1 486088 CAPSCREW-1/2-13NCX3LG,HXHD, GR S 5 1 490056 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006 1 140006		296672	INPUT CARRIER ASSEMBLY	41	4	432023	FITTING JIC O-RING NIPPLE
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GEAR-SUN 53 1 432053 GEAR-SUN 54 2 468041 END BEARING-MOTOR SIDE 55 1 468042 END BEARING-GEAR SIDE 55 1 486087 HOUSING-GEAR 57 1 486087 HOUSING-GEAR 57 1 486087 CAPSCREW-1/2-13NCX3LG, HXHD, GR S 58 3 490006 SPACER 60 2 490056 SPACER 8 414203 SPACER 62 1 514043 SPACER 80K WINCH 62 1 514043 SPACER 80K WINCH 65 5 418069 FITTING JIC SWINCE TEE 68 1 509141 END BEARING BUSHING 72 1 462081 END BEARING BUSHING 73 4 414578 END BEARING BUSHING		334243	GEAR-SUN	52	1	462093	O-RING 2-280
GEAR-SUN 54 2 468041 END BEARING-MOTOR SIDE 55 1 468042 END BEARING-GEAR SIDE 56 1 486087 HOUSING-GEAR 57 1 486087 HOUSING-GEAR 57 1 486087 HOUSING-GEAR 59 1 486087 SPACER 60 2 490056 SPACER 60 2 490056 SPACER 61 12 494129 SPACER 62 1 514023 SPACER 80K WINCH 65 5 418069 SPACER 80K WINCH 65 8 414556 YOKE-SHIFTER 65 8 414556 FITTING JIC SWIVEL TEE 68 14 414790 END BEARING BUSHING 70 2 509141 END BEARING BUSHING 71 414578 END BEARING BUSHING 73 4 414578 END BEARING BUSHING 73 4 414578 END BEARING BUSHING 74 418099 <		334199	GEAR-SUN	53	1	432053	FITTING JIC O-RING NIPPLE
END BEARING-MOTOR SIDE 55 1 468042 END BEARING-GEAR SIDE 56 1 486088 HOUSING-GEAR 57 1 486088 HOUSING-GEAR 57 1 486088 CAPSCREW-1/2-13NCX3LG,HXHD, GR S 58 3 490006 INPUT SHAFT 60 2 490056 SHAFT-OUTPUT 60 2 494129 SPACER 61 12 494129 SPACER 62 1 514023 SPACER 8 414556 9 SPACER 65 1 516048 SPACER 65 1 414790 SPACER 65 1 414790 SPACER 8 14 414790 FITTING JIC SWIVEL TEE 68 1 414790 END BEARING BUSHING 7 1 462081 END BEARING BUSHING 7 1 462081 END BEARING BUSHING 7 1 462081 END BEARING BUSHING 7 1 414578 BOLT-5/8-		334200	GEAR-SUN	24	7	468041	
END BEARING-GEAR SIDE 56 1 486087 SEAL-OIL-SHAFT-SKF 42419 HOUSING-GEAR 57 1 486088 SEAL-OIL-SHAFT-SKF 38653 CAPSCREW-1/2-13NCX3LG,HXHD, GR S 58 3 490006 SNAP RING 5100-125 INPUT SHAFT 59 1 432054 FITTING JIC SWIVEL EL SHAFT-OUTPUT 60 2 490056 SNAP RING 5100-425 SPACER SPACER SPACER SPRING-BRAKE SPACER SPACER COUNTER BALANCE BLOCK SPACER SPACER COUNTER BALANCE HEX REG Z/P SPACER SPACER NUT-1/2-13NC HEX REG Z/P SPACER SPACER NUT-1/2-13NC HEX REG Z/P SPACER SPACER NUT-1/2-13NC X 13/4 HXHD GRS, PNC S SPACER SPACER NUT-1/2-13NC X 11/4 LG, HXHD, GRS, PNC S SPACER SPOSTAR MUT-1/2-13NC X 11/4 LG, HXHD, GRS FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 71 4 62081 ORING S-159 END BEARING BUSHING 72 50914		338378	END BEARING-MOTOR SIDE	22	1	468042	REDUCER-3/4-16 SAE O-RING X 1/8NPTF
HOUSING-GEAR 57 1 486088 SEAL-OIL-SHAFT-SKF 38653 CAPSCREWV-1/2-13NCX3LG,HXHD, GR 5 58 3 490006 SNAP RING 5100-125 INPUT SHAFT 59 1 432054 FITTING JIC SWIVEL EL SHAFT-OUTPUT 60 2 490056 SNAP RING 5100-425 SPACER SPACER SPACER SPRING-BRAKE SPACER SPACER COUNTER BALANCE BLOCK SPACER SPACER COUNTER BALANCE BLOCK SPACER SPACER COUNTER BALANCE BLOCK SPACER SPACER NUT-1/2-13NC HEX REG Z/P SPACER SALT BEARING 65 8 414556 CAPSCREW-1/2-13NC X 3.25 LG, HXHD, GRS, FITTING JIC SWIVEL TEE 68 1 41450 NUT-1/8-9NC K 3.25 LG, HXHD, GRS, FITTING JIC BRANCH TEE 68 1 41450 NUT-1/8-9NC K 3.25 LG, HXHD, GRS, FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 72 42020 ORING SPING END BEARING BUSHING 73		338380		26	1	486087	SEAL-OIL-SHAFT-SKF 42419
CAPSCREW-1/2-13NCX3LG, HXHD, GR 5 58 3 490006 SNAP RING 5100-125 INPUT SHAFT 59 1 432054 FITTING JIC SWIVEL EL SHAFT-OUTPUT 60 2 490056 SNAP RING 5100-425 SPACER 5 491029 SPRING-BRAKE SPACER 12 494129 SPRING-BRAKE SPACER 62 1 514023 U-BOLT SPACER SPACER 0 0 1 514023 SPACER SPACER 0 0 1 514023 0 0 1 4 4 1 1 4 4 1 5 4 1 4 4 1 4 4 4 1 4 <td></td> <td>338381</td> <td>HOUSING-GEAR</td> <td>27</td> <td>1</td> <td>486088</td> <td>SEAL-OIL-SHAFT-SKF 38653</td>		338381	HOUSING-GEAR	27	1	486088	SEAL-OIL-SHAFT-SKF 38653
INPUT SHAFT 59 1 432054 FITTING JIC SWIVEL EL SHAFT-OUTPUT 60 2 490056 SNAP RING 5100-425 SPACER 11 494129 SPRING-BRAKE SPACER SOK WINCH 62 1 514023 U-BOLT SPACER SOK WINCH 63 1 516048 COUNTER BALANCE BLOCK SPACER 65 5 418069 NUT-1/2-13NC HEX REG Z/P SPACER 66 8 414556 CAPSCREW-1/2-13NCX13/4 HXHD GRS, YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC HEX REG Z/P BALL BEARING 69 1 50913 HOSE FITTING JIC BRANCH TEE 70 2 50914 HOSE END BEARING BUSHING 71 3 50914 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NCX 11/4 LG, HXHD, G CAPSCREW-1/2-13NCX11/2LG, HXHD, Z/P, GRASCREW-1/2-13NCX11/2LG, HXHD, Z/P, GRASCREW-1/2-13NCX11/2LG, HXHD, G <		414543	K3LG, HXHD, GR	28	8	490006	SNAP RING 5100-125
SPACER 490056 SNAP RING 5100-425 SPACER 49129 SPRING-BRAKE SPACER 49129 SPRING-BRAKE SPACER SOK WINCH 62 1 514023 U-BOLT SPACER 40005 0.90LT 1.80LT SPACER 5 418063 NUT-1/2-13NC HEX REG.Z/P SPACER 66 8 414556 CAPSCREW-1/2-13NCX13/4 HXHD GRS. YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC X 3.25 LG,HXHD,GRS. FITTING JIC SWINCEL TEE 68 14 418108 NUT-7/8-9NC X 3.25 LG,HXHD,GRS. FITTING JIC BRANCH TEE 69 1 509137 HOSE FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 72 1 462081 ORING 2-130 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NCX 11/4 LG, HXHD, G CAPSCREW-1/2-13NCX1LG HXHD, G, PARCH S, ALL S,		357529	INPUT SHAFT	29	1	432054	FITTING JIC SWIVEL EL
SPACER 61 12 494129 SPRING-BRAKE SPACER-SHAFT 62 1 514023 U-BOLT SPACER 80K WINCH 63 1 516048 COUNTER BALANCE BLOCK SPACER 65 5 418069 NUT-1/2-13NC HEX REG.Z/P SPACER 70 14 414790 BOLT-7/8-9NC X 3.25 LG, HXHD, GR8, BALL BEARING FITTING JIC SWINEL TEE 68 14 418108 NUT-7/8-9NC X 3.25 LG, HXHD, GR8, BALL BEARING FITTING JIC SWINEL TEE 69 1 509137 HOSE FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 71 3 509141 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 11/4 LG, HXHD, G CAPSCREW-1/2-13NCX1LG HXHD, Z/P, GR.5 74 418509 NUT - 3/4 BOLT-5/8-11NCX1 1/2LG, HXHD, Z/P, GR.5 7 418249 LOCKWASHER - 3/4		357530	SHAFT-OUTPUT	09	7	490056	SNAP RING 5100-425
SPACER-SHAFT 62 1 514023 U-BOLT SPACER 80K WINCH 63 1 516048 COUNTER BALANCE BLOCK SPACER 5 418069 NUT-1/2-13NC HEX REG,2/P SPACER 66 8 414556 CAPSCREW-1/2-13NCX13/4 HXHD GRS, YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC X 3.25 LG,HXHD,GRS, FITTING JIC SWIVEL TEE 68 14 418108 NUT-7/8-9NC HEX REG Z/P BALL BEARING 69 1 509137 HOSE END BEARING BUSHING 71 3 509141 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 72 1 42081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NCX 11/4 LG, HXHD, GRS BOLT-5/8-11NCX11/2LG,HXHD,Z/P,GR.5 75 2 418099 NUT - 3/4 BOLT-5/8-11NCX11/2LG,HXHD,Z/P,GR.5 75 2 418099 NUT - 3/4 A 18249 LOCKWASHER - 3/4 </td <td></td> <td>362301</td> <td>SPACER</td> <td>61</td> <td>12</td> <td>494129</td> <td>SPRING-BRAKE</td>		362301	SPACER	61	12	494129	SPRING-BRAKE
SPACER 80K WINCH 63 1 516048 COUNTER BALANCE BLOCK SPACER 5 418069 NUT-1/2-13NC HEX REG.Z/P SPACER 6 8 414556 CAPSCREW-1/2-13NCX1 3/4 HXHD G YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC X 3.25 LG,HXHD,GR8, FITTING JIC SWIVEL TEE 68 14 418108 NUT-7/8-9NC X 3.25 LG,HXHD,GR8, FITTING JIC BRANCH TEE 69 1 509137 HOSE END BEARING BUSHING 71 3 509140 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 11/4 LG, HXHD, G CAPSCREW-1/2-13NCX1LG HXHD GR S 73 4 414578 BOLT-1/2-13NC X 11/4 LG, HXHD, G BOLT-5/8-11NCX11/2LG, HXHD, Z/P, GR. S 75 2 418099 NUT - 3/4 BOLT-5/8-11NCX11/2LG, HXHD, Z/P, GR. S 75 2 418099 NUT - 3/4 BOLT-5/8-11NCX11/2LG, HXHD, Z/P, GR. S 7 418249 LOCKWASHER - 3/4		362302	SPACER-SHAFT	62	1	514023	U-BOLT
SPACER 65 5 418069 NUT-1/2-13NC HEX REG,Z/P SPACER 66 8 414556 CAPSCREW-1/2-13NCX1 3/4 HXHD G YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC X 3.25 LG,HXHD,GR8, FITTING JIC SWIVEL TEE 68 14 418108 NUT-7/8-9NC HEX REG Z/P BALL BEARING 69 1 509137 HOSE END BEARING BUSHING 71 3 509141 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 11/4 LG, HXHD, G CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG, HXHD, Z/P, GR.5 75 2 418099 NUT - 3/4 FIND SALT SALTING 75 2 418249 LOCKWASHER - 3/4		362303	SPACER 80K WINCH	63	1	516048	COUNTER BALANCE BLOCK
SPACER 6 8 414556 CAPSCREW-1/2-13NCX13/4 HXHD GR8, YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC X 3.25 LG, HXHD, GR8, FITTING JIC SWIVEL TEE 68 14 418108 NUT-7/8-9NC HEX REG Z/P BALL BEARING 69 1 509137 HOSE END BEARING BUSHING 71 3 509141 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 11/4 LG, HXHD, G CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG, HXHD, Z/P, GR.5 75 2 418299 NUT - 3/4 76 2 418249 LOCKWASHER - 3/4		362304	SPACER	65	2	418069	NUT-1/2-13NC HEX REG,Z/P
YOKE-SHIFTER 67 14 414790 BOLT-7/8-9NC X 3.25 LG,HXHD,GR8, FITTING JIC SWIVEL TEE 68 14 418108 NUT-7/8-9NC HEX REG Z/P BALL BEARING 69 1 509137 HOSE FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 1 1/4 LG, HXHD, G END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 1 1/4 LG, HXHD, G CAPSCREW-1/2-13NCX1LG HXHD, Z/P, GR.5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2 LG, HXHD, Z/P, GR.5 75 2 418299 NUT - 3/4 76 2 418249 LOCKWASHER - 3/4		362305	SPACER	99	∞	414556	CAPSCREW-1/2-13NCX1 3/4 HXHD GR.5
FITTING JIC SWIVEL TEE 68 14 418108 NUT-7/8-9NC HEX REG Z/P BALL BEARING 70 2 509137 HOSE END BEARING BUSHING 71 3 509141 HOSE DRUM BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 11/4 LG, HXHD, GR CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 2 418099 NUT - 3/4 76 2 418249 LOCKWASHER - 3/4		370062	YOKE-SHIFTER	29	14	414790	BOLT-7/8-9NC X 3.25 LG, HXHD, GR8, Z/P
BALL BEARING 69 1 509137 HOSE FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 71 3 509141 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 1 1/4 LG, HXHD, GR CAPSCREW-1/2-13NCX1LG HXHD, Z/P, GR.5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG, HXHD, Z/P, GR.5 75 2 418099 NUT - 3/4 76 2 418249 LOCKWASHER - 3/4		432048	FITTING JIC SWIVEL TEE	89	14	418108	NUT-7/8-9NC HEX REG Z/P
FITTING JIC BRANCH TEE 70 2 509140 HOSE END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 1 1/4 LG, HXHD, GR CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 2 418249 LOCKWASHER - 3/4 76 2 418249 LOCKWASHER - 3/4		402132	BALL BEARING	69	1	509137	HOSE
END BEARING BUSHING 71 3 509141 HOSE DRUM BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 1 1/4 LG, HXHD, GR CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 2 418099 NUT - 3/4 76 2 418249 LOCKWASHER - 3/4		432049		70	7	509140	HOSE
END BEARING BUSHING 72 1 462081 ORING 2-159 END BEARING BUSHING 73 4 414578 BOLT-1/2-13NC X 1 1/4 LG, HXHD, GR CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 PIPE PLUG 1/8-27 NPTF BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 2 418099 NUT - 3/4 76 2 418249 LOCKWASHER - 3/4		412119	END BEARING BUSHING	71	3	509141	HOSE
END BEARING BUSHING CAPSCREW-1/2-13NCX1LG HXHD GR 5 CAPSCREW-1/2-13NCX1LG HXHD GR 5 BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 4 118249 CAPSCREW-1/2-13NCX1 1/4 LG, HXHD, GR 5 76 4 118249 CAPSCREW-1/2-13NCX1 1/4 LG, HXHD, GR 5 76 77 78 78 79 70 70 70 70 70 70 70 70 70		412160	DRUM BUSHING	72	1	462081	ORING 2-159
CAPSCREW-1/2-13NCX1LG HXHD GR 5 74 1 468016 BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 2 418099 76 2 418249		412121	END BEARING BUSHING	73	4	414578	BOLT-1/2-13NC X 1 1/4 LG, HXHD, GR 5
BOLT-5/8-11NCX1 1/2LG,HXHD,Z/P,GR.5 75 2 418099 76 2 418249		414521	CAPSCREW-1/2-13NCX1LG HXHD GR 5	74	1	468016	PIPE PLUG 1/8-27 NPTF
2 418249		414658		75	7	418099	NUT - 3/4
				9/	7	418249	LOCKWASHER - 3/4

ITEM QTY PART NO DESCRIPTION

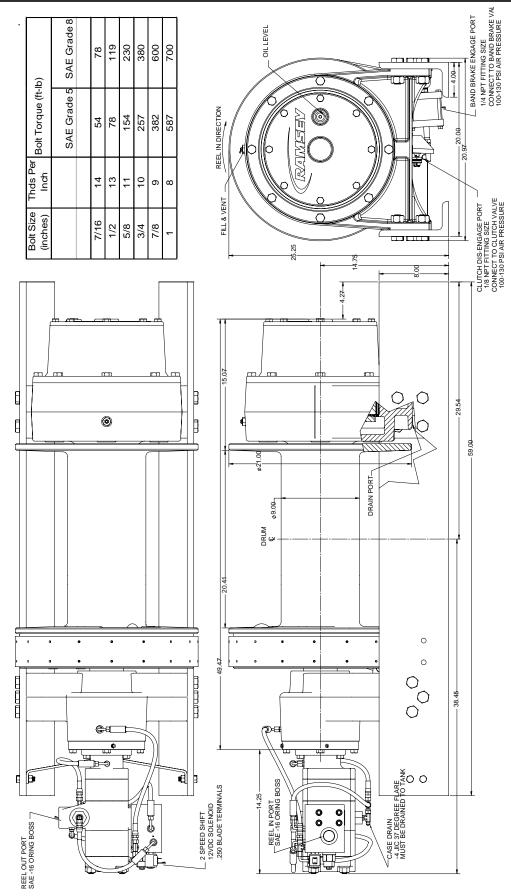
ITEM QTY PART NO DESCRIPTION

AIR CYLINDER KIT #256131 PARTS LIST



ITEM	QTY	PART NO	DDESCRIPTION
201	1	408422	MOUNTING BRACKET
202	2	418067	NUT-1/2-20NF HEX JAM
203	2	418223	WASHER-1/2 USS FLAT
204	3	424005	COTTER PIN- 1/8 DIA X 1 LG
205	1	424027	CLEVIS PIN-1/2 SHAFT DIA X 1 1/2 LG
206	2	424205	CLEVIS PIN-1/2 SHAFT DIA X 1 23/64 LG
207	1	433031	AIR CYLINDER
208	1	433032	AIR CYLINDER
209	1	448108	EYE BOLT

DIMENSIONAL DRAWINGS





Limited Warranty

RAMSEY WINCH warrants each new RAMSEY Wildcat Winch to be free from defects in material and workmanship for a period of two (2) years from the date of purchase. Our new two year limited warranty is standard equipment on all Wildcat Winches manufactured after July 4th, 2014, and is also available for all Wildcat series winches currently in inventory at authorized distributors if the model and serial numbers are submitted to Ramsey Winch by August 30, 2014. End users who have purchased a winch since June 1, 2014, are also eligible for the two year warranty with purchase date, serial number, and model number submitted to an approved Wildcat Distributor by August 30, 2014.

Warranty General. The obligation under this warranty, statutory or otherwise, is limited to the replacement or repair at the Manufacturer's factory, or at a point designated by the Manufacturer, of such part that shall appear to the Manufacturer, upon inspection of such part, to have been defective in material or workmanship. This warranty does not obligate RAMSEY WINCH to bear the cost of labor or transportation charges in connection with the replacement or repair of defective parts, nor shall it apply to a product upon which repairs or alterations have been made unless authorized by the Manufacturer, or for equipment misused, neglected or which has not been installed correctly.

To the fullest extent permitted by applicable law, the following are hereby excluded and disclaimed: 1.All warranties of fitness for a particular purpose; 2. All warranties of merchantability; 3. All claims for consequential or incidental damages. There are no warranties that extend beyond the description that appears on the face hereof. Some states do not allow the above exclusions or disclaimers in consumer transactions and as such this disclaimer/exclusion may not apply to your particular case. To the extent such warranties of fitness for a particular purpose or merchantability are deemed to apply to this product, they exist for only so long as the express limited warranty elsewhere set forth is in existence.

RAMSEY WINCH whose policy is one of continuous improvement, reserves the right to improve its products through changes in design or materials as it may deem desirable without being obligated to incorporate such changes in products of prior manufacture.

If field service at the request of the Buyer is rendered and the fault is found not to be with RAMSEY WINCH's product, the Buyer shall pay the time and expense of the field representative. Bills for service, labor or other expenses that have been incurred by the Buyer without approval or authorization by RAMSEY WINCH will not be accepted.

This Warranty gives you specific legal rights and you may also have other legal rights, which vary from state to state.



Ramsey Winch Company

Post Office Box 581510 Tulsa, Oklahoma 74158-1510 Telephone: (#918) 438-2760 FAX: (#918) 438-6688