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LOCTITE PRODUCT CHART

	Description	Form a Gaske	glease) - Habie	Weatherstrip Adhesive	Parts Cleaner Fluid	Wicking Threadlocker	Low Strength Threadlocker	Low Strength Threadlocker (Small Screws)	Low Strength Threadlocker	Medium Strength Threadlocker	High Strength Threadlocker	High Strength Threadlocker	High Strength Threadlocker	High Temperature, High Strength	High Strength Threadlocker	High Strength Threadlocker	Wicking Threadlocker	Instant Adhesive	Surface Insensitive Adhesive	Gel Instant Adhesive	Instant Adhesive	Gap Filling Instant Adhesive (Metals)	Gap Filling Instant Adhesive (Plastics)	Wicking Instant Adhesive	Gap Filling Instant Adhesive	Metal Bonding Adhesive	Fast Setting 2 Part Epoxy	Surface Insensitive Gen Instant Adhesive	General Purpose Instant Adhesive	Metal Bonding Adhesive	Rigid Gasket Eliminator	Flange Sealant	High Temperature, GAsket Eliminator	Gasket Eliminator 515
	Primer	N/A	4 / 1 4	N/A	N/A	747	247	764	747	764	147	747	797	764	147	764	764	VΝ	W/A	N/A	N/A	N/A	A/N	V/A	W/A	N/A	N/A	N/A	N/A	V/A	None	764	764	764
Fixture/Full Cure		24 hr		Fast	N/A	6 min/24 hrs	2 min/24 hrs	20 min/24 hrs	7 min/24 hrs	10 min/24 hrs	5 min/24 hrs	3 min/24 hrs	10 min/24 hrs	30 min/24 hrs	3 min/24 hrs	60 min/24 hrs	6 min/24 hrs	30 sec/24 hrs	15 sec/24 hrs	50 sec/24 hrs	30 sec/24 hr	50 sec/24 hrs	50 sec/24 hrs	15 sec/24 hrs	60 sec/24 hrs	20 sec/24 hrs	5 min/24 hrs	15 sec/24 hrs	20 sec/24 hrs	20 sec/24 hrs	90 min/24 hrs	6 hr/72 hrs	30 min/24 hrs	1 hr/24 hrs
Working	Range-Farenheit					-65 to +250	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +450	-65 to +300	-65 to +300	-65 to +300	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +180	-65 to +300	-65 to +320	-65 to +400	-65 to +300
Strength	(Steel/Steel)					57/143 in lbs	75/44 in lbs	sal ni 08/83	45/25 in lbs	80/50 in lbs	160/190 in lbs	160/320 in lbs	160/320 in lbs	180/220 in lbs	210/300 in lbs	225/300 in lbs	sql ul 058/58	3200 psi	3200 psi	2500 psi	2500 psi	2500 psi	2500 psi	2500 psi	2800 psi	2500 psi	2000 psi	3200 psi	2500 psi	2500 psi	750 psi	750 psi	1000 psi	750 psi
Gab	(In Inches)					0.003	0.005	0.005	0.010	0.005	0.005	0.007	200.0	0.007	0.010	0.010	0.003	900.0	0.004	0.008	0.006	0.010	0.010	0.002	0.020	0.005	0.250	0.010	0.004	0.005	0:030	0.020	0.020	0.010
Similar	Products					290	222		222		27.1	271	797	620	222			495		454		454	454		454						515			
	Color	Dark Brown	= ;	Yellow	Clear	Blue	Purple	Purple	Brown	Blue	Red	Green	Red	Red	Green	Red	Green	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	White/Black	Clear	Clear	Clear	Brt Orange	Light Blue	Red	Purple
	Product	#3	0	80	123	220	221	222	225	242	262	270	271	272	275	277	290	*404	*406	*409	*414	*415	*416	*420	*422	*430	*445	*454	*495	*496	504	509	510	515

Rac 8-98902 * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity

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LOCTITE PRODUCT CHART

Description	Gasket Eliminator 518 for Aluminum	Hydraulic Sealant	Low Strength Pneumatic/Hydraulic Sealant	Instant Seal Plastic Gasket	Refrigerant Sealant	Pipe Sealant for Stainless Steel	Plastic Gasket	Hydraulic Sealant	Steam Sealant	Pipe Sealant	Gasketing	Pipe Sealant with Teflon	RTV Silicone	Current PIN #609	General Purpose Retaining Compound	High Temperature Retaining Compound	High Strength Retaining Compound	High Strength Retaining Compound	High Temperature Retaining Compound	Quick Metal	General Purpose Retaining Compound	High Strength Retaining Compound	Cleaning Solvent	Activaltor for Structural Adhesives	Primer NF	Depend Activator	Primer T	Activator for Structural Adhesives	Cleaning Solvent	Primer N	Anti-Seize Lubricant
Primer	764	747	747	747	764	764	764	764	764	764	None	736	N/A	764	764	747	747	747	747	764	747	747	N/A	N/A	N/A	N/A	N/A	A/A	N/A	N/A	N/A
Fixture/Full Cure (Steel/Steel) Time	1hr/24 hrs	2 hr/24 hrs	4 hr/24 hrs	2 hr/24 hrs	2 to 4 hrs/24 hrs	4 hrs/24 hrs	12 hrs/24 hrs	1 hr/24 hrs	6 hrs/72 hrs	2 to 4 hrs/24 hrs	24 hrs/72 hrs	4 hrs/72 hrs	30 min/24 hrs	10 min/24 hrs	10 min/24 hrs	30 min/24 hrs	1 hr/24 hrs	10 min/24 hrs	1 hr/24 hrs	20 min/24 hrs	20 min/24 hrs	10 min/24 hrs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	W/A	N/A
Working Temperature Range-Farenheit	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +400	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +300	-65 to +400	-95 to +400	-65 to +300	-65 to +300	-65 to +450	-65 to +300	-65 to +300	-65 to +400	-65 to +300	-65 to +300	-65 to +300	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-65 to +1600
Strength (Steel/Steel)	500psi	132/92 in lbs	25/20 in lbs	2500 psi	240/240 in lbs	500 psi	2500 psi	40/25 in lbs	25/40 in lbs	40/20 in lbs	80/27 in lbs	500 psi	400 psi	3000 psi	3000 psi	3000 psi	4000 psi	4100 psi	3000 psi	3000 psi	3000 psi	4000 psi	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gap (In Inches)	0.030	N/A	N/A	0.020	0.015	N/A	0.015	0.010	N/A	0.015	N/A	0.020	0.250	0.005	0.005	0.015	0.010	0.015	0.007	0.020	0.005	0.015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Similar	515	699		504	277	592	277	545	592	592	578.575			609		640	089	089	620		609	635	755				N/A				
Color	Red	Brown	Purple	Orange	Red	White	Orange	Brown	Brown	Brown	White	White	Black	Green	Green	Green	Green	Green	Green	Silver	Green	Green	Clear	Amber	Amber	Amber	Yellow	Clear	Clear	Green	Silver
Product	518	542	545	549	554	295	568	569	570	571	572	592	593	109	609	620	635	638	640	099	675	089	902	707	736	738	747	751	755	764	292

Thanks very much for your reading,

Want to get more information,

Please click here, Then get the complete
manual



NOTE:

If there is no response to click on the link above, please download the PDF document first, and then click on it.

Have any questions please write to me: admin@servicemanualperfect.com

Section 1001

SAFETY, GENERAL INFORMATION AND TORQUE SPECIFICATIONS

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GENERAL INFORMATION	. 5
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SAFETY



This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

SB001

To prevent injury always follow the Warning, Caution and Danger notes in this section and throughout the manual.

Put the warning tag shown below on the key for the keyswitch when servicing or repairing the machine. One warning tag is supplied with each machine. Additional tags Part Number 331-4614 are available from your service parts supplier.





1001-01



WARNING: Read the operator's manual to familiarize yourself with the correct control functions.

46-27



WARNING: Operate the machine and equipment controls from the seat position only. Any other method could result in serious injury.

48-55



WARNING: This is a one man machine, no riders allowed. 35-8

WARNING: Before starting engine, study Operator's Manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating.



It is your responsibility to understand and follow manufacturers instructions on machine operation, service and to observe pertinent laws and regulations. Operator's and Service Manuals may be obtained from your Case dealer.

SA055



WARNING: If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.

45-3A



WARNING: When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.

35-4



WARNING: When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure.

47-44



WARNING: When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way.

47-45



WARNING: Use insulated gloves or mittens when working with hot parts. 47-41A



CAUTION: Lower all attachments to the ground or use stands to safely support the attachments before you do any maintenance or service.

49-11

CAUTION: Pin sized and smaller streams of hydraulic oil under pressure can penetrate the skin and result in serious infection. If hydraulic oil under pressure does penetrate the skin, seek medical treatment immediately. Maintain all hoses and tubes in good condition. Make sure all connections are tight. Make a replacement of any tube or hose that is damaged or thought to be damaged. DO NOT use your hand to check for leaks, use a piece of cardboard or wood.

40-6A



CAUTION: When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer.

46-17



CAUTION: When using a hammer to remove and install pivot pins or separate parts using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors). 46-13



CAUTION: Use suitable floor (service) jacks or chain hoist to raise wheels or tracks off the floor. Always block machine in place with suitable safety stands.

40-7A



CAUTION: When servicing or repairing the machine, keep the shop floor and operator's compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and/or shop cloths as required. Use safe practices at all times.

40-8



CAUTION: Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in this Service Manual. 40-10



DANGER: Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. Open the doors and get outside air into the area.

48-56



WARNING: When the battery electrolyte is frozen, the battery can explode if (1), you try to charge the battery, or (2), you try to jump start and run the engine. To prevent the battery electrolyte from freezing, try to keep the battery at full charge. If you do not follow these instructions, you or others in the area can be injured.

SA033

GENERAL INFORMATION

CLEANING

Clean all metal parts except bearings, in a suitable cleaning solvent or by steam cleaning. Do not use caustic soda for steam cleaning. After cleaning, dry and put oil on all parts. Clean oil passages with compressed air. Clean bearings in a suitable cleaning solvent, dry the bearings completely and put oil on the bearings.

INSPECTION

Check all parts when the parts are disassembled. Replace all parts that have wear or damage. Small scoring or grooves can be removed with a hone or crocus cloth. Complete a visual inspection for indications of wear, pitting and the replacement of parts necessary to prevent early failures.

BEARINGS

Check bearings for easy action. If bearings have a loose fit or rough action replace the bearing. Wash bearings with a suitable cleaning solvent and permit to air dry. DO NOT DRY BEARINGS WITH COMPRESSED AIR.

NEEDLE BEARINGS

Before you press needle bearings in a bore always remove any metal protrusions in the bore or edge of the bore. Before you press bearings into position put petroleum jelly on the inside and outside diameter of the bearings.

GEARS

Check all gears for wear and damage. Replace gears that have wear or damage.

OIL SEALS, O-RINGS AND GASKETS

Always install new oil seals, O-rings and gaskets. Put petroleum jelly on seals and O-rings.

SHAFTS

Check all shafts that have wear or damage. Check the bearing and oil seal surfaces of the shafts for damage.

SERVICE PARTS

Always install genuine Case service parts. When ordering refer to the Parts Catalog for the correct part number of the genuine Case replacement items. Failures due to the use of other than genuine Case replacement parts are not covered by warranty.

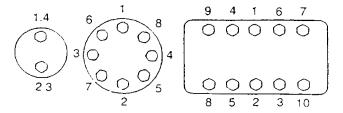
LUBRICATION

Only use the oils and lubricants specified in the Operator's or Service Manuals. Failures due to the use of non-specified oils and lubricants are not covered by warranty.

STANDARD TORQUE DATA FOR CAP SCREWS AND NUTS

TIGHTENING OF CAP SCREWS, NUTS

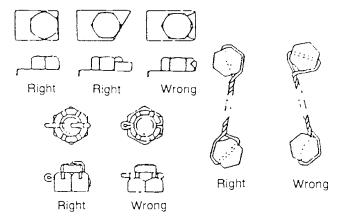
Tighten alternately so that tightening torque can be applied evenly. The numbers in the figure below indicate the order of tightening.



1001-02

Apply engine oil to the thread portion of the cap screw so that uniform tightening torque is obtained.

The cap screws and nuts that cannot be inspected externally or those as indicated in the assembly/installation sections should be saftied with lockwire, cotter pin or bent washer.



1001-03

Cap screws which have had Loctite used (white residue remains after removal) should be cleaned with light oil or suitable cleaning solvent and dried. Apply 2-3 drops of Loctite to the thread portion of the cap screw and then tighten.

TORQUE TABLE

Tighten cap screws and nuts according to the table below if there are no other special instructions.

Cap Screw N	ame Size (Siz	∋)	М6	M8	M10	M12	M14	M16	M18	M20
	Spanner	[mm]	10	13	17	19	22	24	27	30
Cap Screw	Spanner	[in.]	0.39	0.51	0.67	0.75	0.87	0.95	1.06	1.18
Cap Sciew	Tightening	[Nm]	6.9	15.7	32.3	58.8	98.0	137.2	196.0	274.0
	torque	[lb-ft]	5.1	11.6	23.9	43.4	72.3	101.2	144.6	202.4
	Spanner	[mm]	5	6	8	10	12	14	14	17
Socket Head Cap	Opariner	[in.]	0.20	0.24	0.32	0.39	0.47	0.55	0.55	0.67
Screw	Tightening	[Nm]	8.8	21.6	42.1	78.4	117.6	176.4	245.0	343.0
	torque	[lb-ft]	6.5	15.9	31.1	57.8	86.8	130.1	180.8	253.1

Section 1002

SPECIFICATIONS

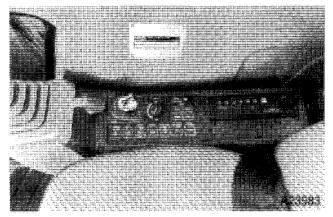
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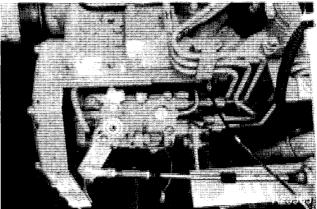
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MODEL AND PIN NUMBERS

When ordering parts or when requesting information or assistance, always give the identification numbers of your machine. Write the model and PIN numbers of your machine on the lines below.







Machine Model Number _	
Machine PIN Number	
Engine Serial Number	

GENERAL SPECIFICATIONS

Capacities

Engine Crank Case Capacity	3.8 US gallons
Engine Cooling System	6.7 US gallons
	I.9 US gallons
Hydraulic Oil Tank Capacity	1.7 US gailons
Total Hydraulic System Capacity	53 US gallons
Final Drive Case Capacity 4.7 liters	1.2 US gallons
Swing Drive Case Capacity 5.0 liters	1.3 US gallons
Track Front Idlers	5.94 oz
Track Lower Rollers	6.93 oz
Track Upper Roller 50 cc	1.65 oz

NOTE: These capacities are only a guide to the quantities. Always use the dipstick, sight gauges or level plug to make sure that fluid levels are correct.

Drawbar Pull

Drive Speed		
Drive Speed: High	5.5 km/h	3.4 mph

41140 lb

Drive Speed: High	3.4 mph
Drive Speed: Middle	2.0 mph
Drive Speed: Low	1.4 mph

Electrical System

Type of System	24 volts negative ground
Alternator	
Manufacturer	Robert Bosch
Output	45 amperes
Batteries	·
Number of batteries required	2
Voltage of each battery	12 volts
Voltage of each batteryReserve capacity	160 minutes
Cold cranking capacity at -17°C (0°F)	800 amperes
Load for capacity (load) test	400 amperes
Starter Motor	·
Manufacturer	Nippondenso
Voltage	24 volts

Fluids and Lubricants

Batteries	add drinking or distilled water
Engine Coolant Solution	refer to page 16
Engine Lubrication	refer to page 16
Fuel	refer to entry on page 5
Hydraulic System	CASE MS-1210 TCH FLUID
Final Drive Lubricant	API GL-4 90
Swing Drive Case Lubricant	API GL-4 90
Track Roller and Front Idler Lubricant	Case IH No. 1 Single Grade engine oil SAE 80
Turntable Ring Gear Lubricant	No. 2 EP lithium grease
Grease Fitting Lubricant	No. 2 EP lithium grease

Fuel

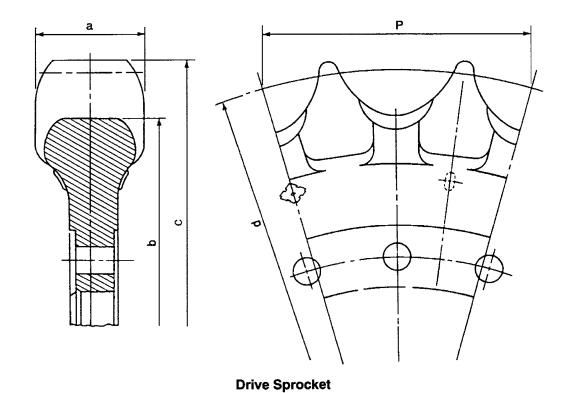
Use Number Two Diesel fuel having a grade of ASTM D 975-Grade 2-D.

Hydraulic System

Hydraulic Pump Kawasaki K3V112DT-1M4R-9C12 (KRJ3785) Displacement	5.91 in ³ /rev x 2 4646 psi
Working Pressure: Maximum	5082 (travel) psi
Maximum Flow201 l/min ⁻¹	53.1 gpm ⁻¹
Minimum Flow50 I/min ⁻¹	13.21 gpm ⁻¹
Regulator	
Proportional Pressure Reducing Valve	
Maximum Primary Pressure	569 psi
Maximum Back Pressure (Allowable Pressure)	142 psi
Secondary Pressure Range Setting 0 ~ 39.2 Bar	0 ~ 569 psi
Maximum Flow Rate6 I/min	1.6 gpm
Flow in Drain Line:	0 ~ 569 psi
Maximum 1.2 I (2.5 pints)/min at secondary pressure = 19.6 Bar	285 psi
Hydraulic Oil Test Temperature	113 ~ 131°F
Hydraulic Oil Test Temperature	113 ~ 131°F
	113 ~ 131°F 4612 ±290 psi
Circuit Relief Valves:	,,,,
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi 5540 ±217 psi
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi 5540 ±217 psi
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi 5540 ±217 psi 3553 ±217 psi
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi 5540 ±217 psi 3553 ±217 psi 5540 ±217 psi 5540 ±217 psi 4409 ±217 psi
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi 5540 ±217 psi 3553 ±217 psi 5540 ±217 psi 5540 ±217 psi 4409 ±217 psi 5830 ±290 psi
Circuit Relief Valves: Main Relief: standard	4612 ±290 psi 4975 ±290 psi 5540 ±217 psi 3553 ±217 psi 5540 ±217 psi 5540 ±217 psi 4409 ±217 psi

Tracks, Rollers and Idlers

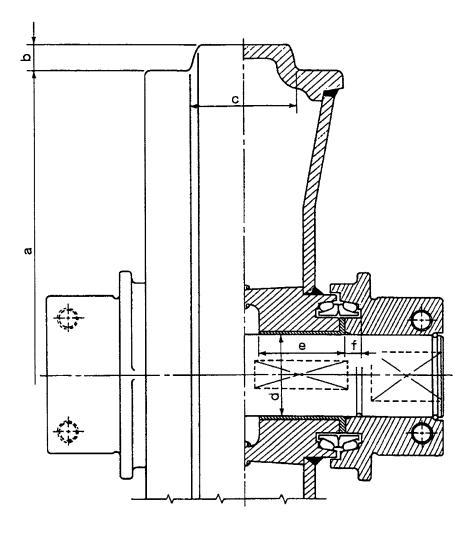
				13 ft 8.3 in.
Total Width			2800 mm	9 ft 2.3 in
Total Weight (approxim	ate)		6700 kg	14774 lb
Drive Sprocket				
Sprocket:	á	standard value	66 mm	2.60 in.
•		service limit	60 mm	2.36 in.
	t	standard value 5	82.5 mm	22.95 in.
		service limit5	76.5 mm	22.71 in.
	C	standard value	. 659 mm	25.96 in.
		service limit		25.73 in.
	C	standard value 6		25.40 in.
	•	service limit	_	_
	F	standard value	. 190 mm	7.49 in.
		service limit		_



NOTE: Refer to Gauge Table for measurement gauges to be used.

1002-3

Take-Up Roller			
Take-Up Roller:	а	standard value494 mm	19.46 in.
·		service limit490 mm	19.31 in.
	b	standard value21 mm	0.83 in.
		service limit —	_
	С	standard value84 mm	3.31 in.
		service limit80 mm	3.15 in.
Shaft:	d	standard value65 mm	2.56 in.
		service limit64.5 mm	2.54 in.
Bushing:	d	standard value65 mm	2.56 in.
		service limit65.8 mm	2.59 in.
	е	standard value69 mm	2.72 in.
	·	service limit	2.70 in.
Hub:	f	standard value	0.49 in.
		service limit11.9 mm	0.47 in.



Take-Up Roller

NOTE: Refer to Gauge Table for measurement gauges to be used.

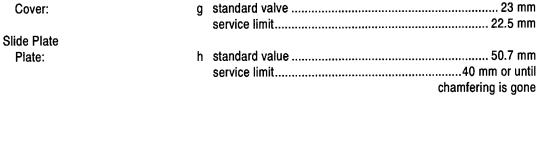
Shaft:

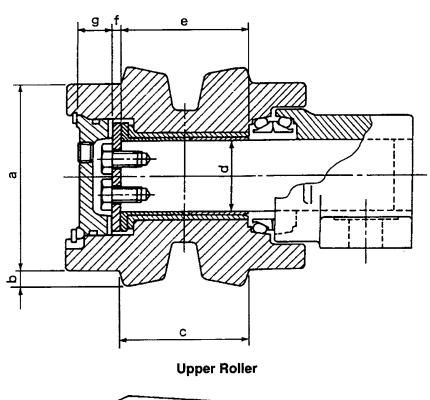
Bushing:

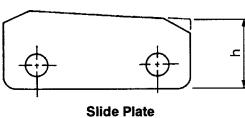
Thrust Plate:

Upper Roller		
Carrier Roller:	а	standard value
		service limit
	b	standard value

а	standard value	120 mm	4.73 in.
_	service limit		4.41 in.
b	standard value		0.39 in.
-	service limit	<u> </u>	_
С	standard value	85 mm	3.35 in.
	service limit		3.11 in.
d	standard value		1.81 in.
	service limit		1.79 in.
d	standard value		1.81 in.
	service limit		1.84 in.
е	standard value	83 mm	3.27 in.
	service limit	82.6 mm	3.25 in.
f	standard value	5.5 mm	0.22 in.
	service limit	5.0 mm	0.20 in.
g	standard valve	23 mm	0.91 in.
•	service limit	22.5 mm	0.89 in.
h	standard value	50.7 mm	2.00 in.





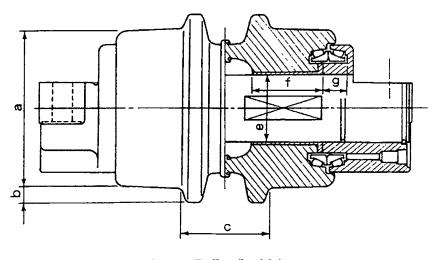


NOTE: Refer to Gauge Table for measurement gauges to be used.

1.58 in. or until

chamfering is gone

Lower Roller (Inside)			
Track Roller (Inside):	a standard value	150 mm	5.91 in.
, ,	service limit	142 mm	5.59 in.
	b standard value	15 mm	0.59 in.
	service limit	_	_
	c standard value	86 mm	3.39 in.
	service limit	80 mm	3.15 in.
Shaft:		65 mm	2.56 in.
	service limit	64.5 mm	2.54 in.
Bushing:	e standard value	65 mm	2.56 in.
-	service limit	65.8 mm	2.59 in.
	f standard value	69 mm	2.72 in.
	service limit	68.6 mm	2.70 in.
Collar:		28.8 mm	1.13 in.
	service limit	28.3 mm	1.11 in.



Lower Roller (Inside)

NOTE: Refer to Gauge Table for measurement gauges to be used.

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