CEAM004601

Operation & Maintenance Manual

KOMATSU®

JPB70

HYDRAULIC BREAKER

SERIAL NUMBERS JPB70 All

January 2000

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Forward	Avant Propos	3
Safety	Securite	S1
Ten Commandments	Dix Commandements	O1
Overall Dimensions	Encombrement	O2
Technical Specifications	Caracteristiques Techniques	O3
Mounting	Montage	O6
Tool Mounting	Montage de Outil	O8
Operation & Adjustment	Utilisation & Reglage	O9
Maintenance	Entretien	O12
Underwater Operations	Sous - Marine les Fonctionnements	O13
Tool Guide	Guide Outil	O14
Trouble Shooting	Incidents Techniques	M1
Disassembly	Démontage	M4
Parts Inspection	Exam des Pièces	M6
Accumulator	Accumulateur	M9
Assembly	Assemblée	M13
Tooling	Outillage	M18

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TECHNICAL SPECIFICATIONS	CARACTERISTIQUES TECHNIQUES	KOMATSU	
Carrier recommended weight	Adaptation sur pelles de poids conseillé	0.8 - 2.2 Tons	
Recommended oil flow	Dèbit d'huile recommandé	4.8 - 7.4 gpm	18/28 lpm
Minimum - maximum oil flow	Mini - maxi dèbit d'huile	4 - 7.4 gpm	15/28 lpm
Minimum pressure at excavator pressure relief valve	Pression minimale de déclenchement du clapet de sécurité de la pelle	2250 psi	155 bar
Admissible counter pressure	Contre pression admissible	510 psi	35 bar
Ø of the HP hose (inside)	Ø de la tuyauterie haute pression (intérieur)	1/2 in	10/12 mm
Ø of the LP hose (inside)	Ø de la tuyauterie basse pression (intérieur)	1/2 in	12 mm
Weight (without adaptation kit, or tool)	Poids (sans kit mécanique. ni outil)	175 lbs	78 kg
Approximate weight in working order	Poids moyen en ordre de marche	190 lbs	85 kg
Height with standard moil point	Hauteur avec outil pic standard	38.8 in	985 mm
Overall width	Largeur hors tout	7.1 in	180 mm
Striking rate	Cadence de frappe	740/1085 blows/min	
Adjusted pressure on breaker	Pression réglée sur le marteau	1960 psi	135 bar
Protection against idle running	Protection contre marche à vide	Yes	Oui
Tool diameter	Ø corps d'outil	1.57 in.	40 mm

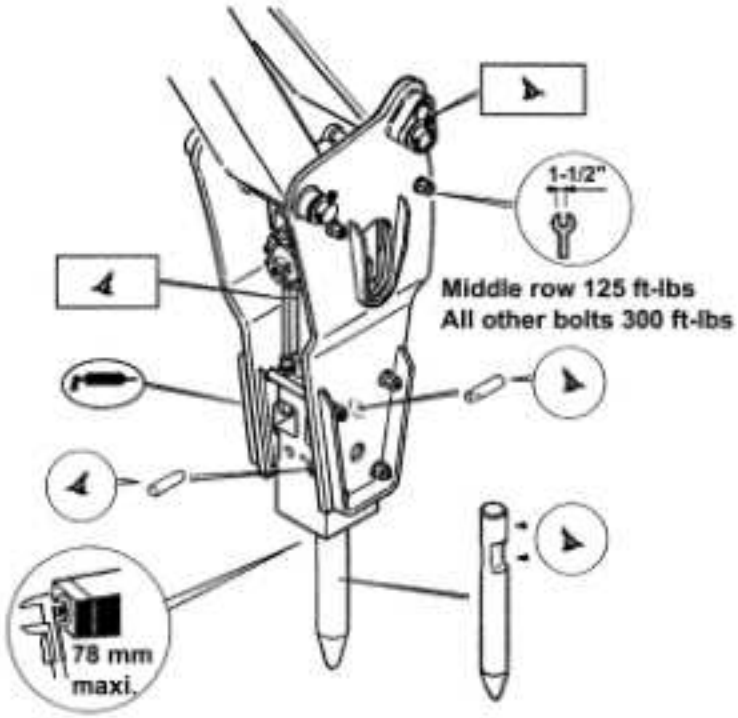
IMPORTANT	IMPORTANT
The maximum authorized oil temperature is 176º F at breaker and 158º F in the excavator tank.	La température d'huile maximale autorisée esi 80º C au marteau et 70º C au réservoir de la pelle.
Rock breakers are designed to function with mineral oil with a viscosity of 32 cst at 104º F.	Les brises- roches sont étudiés pour tonctionner avec de l'huile minérale dune viscosité de 32 cst à 40º C.
For use with other fluids such as engine oil or synthetic fluids, consult your KOMATSU distributor.	Pour utilisation avec d'autres fluides, huiles moteur ou synthétiques, consulter votre distributeur KOMATSU

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Every 2 Hours
Toutes les 2 heures

Daily
Toutes les jours

Weekly
Toutes les semaines



EVERY 2 HOURS
Grease the tool shank.

DAILY
Check the breaker attachment at the boom end.
Make sure that the side rod is not broken.

WEEKLY
Check tightening of side plates fixing bolts.

Remove the tool.

Check the tool shank and striking face conditions.

Replace the tool if deeply scratched.

Check the tool retainer condition.

Replaced if it shows important marks.

Check the lower bushing's wear.

Call your KOMATSU distributor if wear limit is reached.

TOUTES LES 2 HEURES D'UTILISATION
Graisser l'emmanchement de l'outil.

TOUSLES JOURS
Vérifier la fixation du marteau en bout de bras.
Vérifier qu'un tirant d'assemblage ne soit pas cassé.

CHAQUE SEMAINE
Contrôler le serrage des boulons de fixation des plaques latérales.

Démonter l'outil.

Vérifier l'état de l'emmanchement et de la face de frappe.
Remplacer l'outil s'il présente des grippages importants.

Vérifier l'état de la clavette de retenue.

La remplacer si elle présente des traces de choc importants.

Contrôler l'usure de la douille inférieure.

Demander lintervention d'un technician KOMATSU pour la remplacer quand la limits de l'usure est atteinte.

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How to check hydraulic circuit and installation

Mount a flow meter in place of the hammer. Also, mount a low pressure (0-500 psi) gauge on the outlet of the flow meter in order to test the back pressure in the return circuit

With the flow meter in place, activate the circuit and bring the machine up to operating temperature. Do not test the machine cold.

If the control valve is equipped with solenoid, switch on the solenoid before starting the engine to avoid damage to the flow meter. Do not switch on or off the solenoid when the engine is running. Adjust the flow output to match the requirements of the breaker (4.8 to 7.4 gpm).

After the flow has been adjusted, load the flow meter to the hammer operating pressure value (1960 psi) plus 600 psi. If necessary, adjust the flow to keep the hammer flow value constant for pressure varying between 1000 psi and hammer operating pressure value (1960 psi) plus 600 psi.

Relief valve problems

If you cannot reach the proper oil flow at the hammer operating pressure value plus 600 psi, you may have a bad system relief setting or a bad hammer control valve.

To check system relief valve see excavator manual for proper relief setting. Build pressure with flow meter to determine relief cracking pressure (usually 50 to 200 psi below relief setting). Reset relief if needed.

There should be 400 to 500 psi between hammer regulated pressure value and system cracking pressure or heat may develop.

Pump problems

If you cannot produce proper oil flow against pressure varying from 1000 psi to hammer operating pressure plus 600 psi, the pump could be bad or there is excessive leakage in the circuit.

Hammer control valve problems

If relief valve and pump are good, open and close valve three or four times: The valve spool may be sticking or back pressure is developing on return line.

With the flow adjusted and the flow meter loaded to hammer operating pressure value plus 600 psi, take note of the low pressure gauge reading.

The return pressure should be less than 510 psi. If the back pressure is more than 510 psi, the restriction causing this higher pressure must be found and eliminated.

After the flow meter test is completed, disconnect the flow meter and connect the hoses to the hammer. Mount a high pressure gauge (0-3000 psi) on the hammer HP line and take the machine outside. Run the hammer on a heavy 3 inch by 40 inch by 40 inch steel plate on hard ground and take note of the pressure reading. Call your KOMATSU dealer if pressure adjustments are needed.

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