#### 521D Loader Service Manual 6-40745 Table of Contents

Description	Section No.	Form No.
General	Tab 1	
Section Index - General		6-42730
Standard Torque Specifications	1001	8-71603
Fluids and Lubricants	1002	6-40762
Metric Conversion Chart	1003	7-52950
Loctite Product Chart		8-98902
Engines	Tab 2	
Section Index - Engines		6-42281
Engine and Radiator Removal and Installation	2000	6-42290
Engine and Radiator Removal and Installation P.I.N. JEE0135501 and Above	2000	6-48920
Stall Tests	2002	6-40771
For Engine Repair, See the Engine Service Manual		6-74500
Fuel System	Tab 3	
Section Index - Fuel System		6-42300
For Fuel System Repair, See the Engine Service Manual		6-74500
Electrical	Tab 4	
Section Index - Electrical		6-42311
Removal and Installation of Starter and Alternator	4001	6-42321
Electrical Specifications and Troubleshooting	4002	6-40782
Electrical Specifications and Troubleshooting P.I.N. JEE0135501 and Above	4002	6-48930
Batteries	4003	6-42330
Information and Diagnostic Center	4005	6-42352
Alternator - 65 Ampere	4007	7-12260
Alternator - 45 Ampere	4008	6-42360

#### 521D Loader Service Manual 6-40745 Table of Contents

ction Index - Steering moval and Installation of Steering Components eering Specifications, Pressure Checks, and Troubleshooting eering Control Valve eering Cylinders nter Pivot xiliary Steering Motor and Pump  wer Train ction Index - Power Train moval and Installation of Power Train Components ensmission Specifications, Pressure Checks, and Troubleshooting ensmission out and Rear Axle out and Rear Axle ent and Rear Axle P.I.N. JEE0135501 and Above eve Shafts, Center Bearing, and Universal Joints eels and Tires ensmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components draulic Brake Troubleshooting	5001 5002 5003 5004 5005 5006 5008	6-42370 6-42380 6-40790 6-42390 6-42400 6-42410 6-42420 6-42430
moval and Installation of Steering Components eering Specifications, Pressure Checks, and Troubleshooting eering Control Valve eering Priority Valve eering Cylinders Inter Pivot exiliary Steering Motor and Pump  wer Train Ction Index - Power Train moval and Installation of Power Train Components ensmission Specifications, Pressure Checks, and Troubleshooting ensmission ent and Rear Axle ent and Rear Axle P.I.N. JEE0135501 and Above eve Shafts, Center Bearing, and Universal Joints eels and Tires ensmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components  moval and Installation of Brake Components  moval and Installation of Brake Components	5002 5003 5004 5005 5006 5008	6-42380 6-40790 6-42390 6-42400 6-42410 6-42420
seering Specifications, Pressure Checks, and Troubleshooting seering Control Valve seering Priority Valve seering Cylinders Inter Pivot siliary Steering Motor and Pump  wer Train ction Index - Power Train moval and Installation of Power Train Components sunsmission Specifications, Pressure Checks, and Troubleshooting sunsmission seering Motor and Pump  wer Train ction Index - Power Train moval and Installation of Power Train Components sunsmission Specifications, Pressure Checks, and Troubleshooting sunsmission seering Cylinders	5002 5003 5004 5005 5006 5008	6-40790 6-42390 6-42400 6-42410 6-42420
seering Control Valve seering Priority Valve seering Cylinders Inter Pivot siliary Steering Motor and Pump  wer Train ction Index - Power Train moval and Installation of Power Train Components Insmission Specifications, Pressure Checks, and Troubleshooting Insmission Interest Axle	5003 5004 5005 5006 5008	6-42390 6-42400 6-42410 6-42420
pering Priority Valve pering Cylinders Inter Pivot Inter Pivot Inter Pivot Inter Pivot Inter Power Train Inter Power Tra	5004 5005 5006 5008	6-42400 6-42410 6-42420
eering Cylinders Inter Pivot I	5005 5006 5008	6-42410 6-42420
nter Pivot xiliary Steering Motor and Pump  wer Train ction Index - Power Train moval and Installation of Power Train Components ansmission Specifications, Pressure Checks, and Troubleshooting ansmission ant and Rear Axle ant and Rear Axle ant and Rear Axle P.I.N. JEE0135501 and Above ave Shafts, Center Bearing, and Universal Joints aneels and Tires ansmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components	5006 5008	6-42420
wer Train ction Index - Power Train moval and Installation of Power Train Components unsmission Specifications, Pressure Checks, and Troubleshooting unsmission out and Rear Axle out and Rear Axle out and Rear Axle P.I.N. JEE0135501 and Above ve Shafts, Center Bearing, and Universal Joints neels and Tires unsmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components	5008	
wer Train ction Index - Power Train moval and Installation of Power Train Components unsmission Specifications, Pressure Checks, and Troubleshooting unsmission out and Rear Axle out and Rear Axle P.I.N. JEE0135501 and Above we Shafts, Center Bearing, and Universal Joints neels and Tires unsmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components		6-42430
ction Index - Power Train moval and Installation of Power Train Components ansmission Specifications, Pressure Checks, and Troubleshooting ansmission ant and Rear Axle ant and Rear Axle P.I.N. JEE0135501 and Above ave Shafts, Center Bearing, and Universal Joints aleels and Tires ansmission Control Valve  akes action Index - Brakes moval and Installation of Brake Components	Tob 6	
moval and Installation of Power Train Components Insmission Specifications, Pressure Checks, and Troubleshooting Insmission Int and Rear Axle Int and Rear Axle Int and Rear Axle P.I.N. JEE0135501 and Above Ive Shafts, Center Bearing, and Universal Joints Intelligence and Tires Insmission Control Valve  Intelligence and Tires Intelligence and	Tab 6	
Insmission Specifications, Pressure Checks, and Troubleshooting Insmission Int and Rear Axle Int and Rear Axle Int and Rear Axle P.I.N. JEE0135501 and Above Int and Rear Axle P.I.N. JEE0135501 and Above Inve Shafts, Center Bearing, and Universal Joints Intelligence and Tires Insmission Control Valve  Index - Brakes Intelligence and Installation of Brake Components		6-42442
ansmission ont and Rear Axle ont and Rear Axle P.I.N. JEE0135501 and Above ve Shafts, Center Bearing, and Universal Joints neels and Tires ansmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components	6001	6-42451
ont and Rear Axle ont and Rear Axle P.I.N. JEE0135501 and Above ve Shafts, Center Bearing, and Universal Joints neels and Tires ansmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components	6002	6-40800
ont and Rear Axle P.I.N. JEE0135501 and Above ve Shafts, Center Bearing, and Universal Joints neels and Tires unsmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components	6003	6-42460
ve Shafts, Center Bearing, and Universal Joints neels and Tires ansmission Control Valve  akes ction Index - Brakes moval and Installation of Brake Components	6004	6-42470
neels and Tires Insmission Control Valve  akes Insmission Control Valve  akes Insmission Control Valve  akes Insmission Control Valve	6004	6-48970
akes ction Index - Brakes moval and Installation of Brake Components	6005	6-42480
akes ction Index - Brakes moval and Installation of Brake Components	6006	6-42490
ction Index - Brakes moval and Installation of Brake Components	6007	6-42500
moval and Installation of Brake Components	Tab 7	
·		6-42510
draulic Brake Troubleshooting	7001	6-42521
	7002	6-40811
ake Accumulators	7004	6-42531
rking Brake	7008	6-42540
OTE: For parking brake and brake pedal adjustments, see Section 9001.		
draulics	Tab 8	
ction Index - Hydraulics		6-42551
moval and Installation of Hydraulic Components	8001	6-42562
draulic Specifications, Troubleshooting, and Pressure Checks	8002	6-40822
eaning the Hydraulic System	8003	7-49640
ader Control Vale	8005	6-42580
linders	8006	6-42591
upler Solenoid Locking Valve	8007	6-42600
ot Pressure Accumulator and Ride Control Accumulator	8013	6-42621
le Control Valve	8014	6-44751

#### 521D Loader Service Manual 6-40745 Table of Contents

Description	Section No.	Form No.
Mounted Equipment	Tab 9	
Section Index - Mounted Equipment		6-42640
Pedals and Levers	9001	6-40830
Air Conditioning Troubleshooting and System Checks For Systems with HFC-134a Refrigerant	9002	6-42650
Air Conditioner System Service	9003	6-42660
Removal and Installation of Air Conditioning Components For Systems with HFC-134a Refrigerant	9004	6-42671
Loader	9006	6-42691
ROPS Cab and ROPS Canopy	9007	6-42700
Cab Glass Installation	9010	6-42710
Electrical Schematic Foldouts and Hydraulic Schematic Foldout	In Rear Pocket	6-40841
Electrical Schematic Foldouts and Hydraulic Schematic Foldout P.I.N JEE0135501 and Above	In Rear Pocket	6-49280

**NOTE:** Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

#### **SECTION INDEX**

#### **GENERAL**

Section Title	Section Number
Standard Torque Specifications	1001
Fluids and Lubricants	1002
Metric Conversion Chart	
Loctite Product Chart	

## Section 1001

#### **GENERAL TORQUE SPECIFICATIONS**

#### **TABLE OF CONTENTS**

TORQUE SPECIFICATIONS - DECIMAL HARDWARE	3
TORQUE SPECIFICATIONS - METRIC HARDWARE	4
TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS	5
TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS	6

#### **TORQUE SPECIFICATIONS - DECIMAL HARDWARE**

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphities, Molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts, and Studs			
$\bigcirc$ $\bigcirc$ $\bigcirc$			
Size	Pound- Inches	Newton metres	
1/4 inch	108 to 132	12 to 15	
5/16 inch	204 to 252	23 to 28	
3/8 inch	420 to 504	48 to 57	
Size	Pound- Feet	Newton metres	
7/16 inch	54 to 64	73 to 87	
1/2 inch	80 to 96	109 to 130	
9/16 inch	110 to 132	149 to 179	
5/8 inch	150 to 180	203 to 244	
3/4 inch	270 to 324	366 to 439	
7/8 inch	400 to 480	542 to 651	
1.0 inch	580 to 696	787 to 944	
1-1/8 inch	800 to 880	1085 to 1193	
1-1/4 inch	1120 to 1240	1519 to 1681	
1-3/8 inch	1460 to 1680	1980 to 2278	
1-1/2 inch	1940 to 2200	2631 to 2983	

Grade 8 Bolts, Nuts, and Studs				
{	$\longleftrightarrow$ $\longleftrightarrow$			
Size	Pound- Inches	Newton metres		
1/4 inch	144 to 180	16 to 20		
5/16 inch	288 to 348	33 to 39		
3/8 inch	540 to 648	61 to 73		
Size	Pound- Feet	Newton metres		
7/16 inch	70 to 84	95 to 114		
1/2 inch	110 to 132	149 to 179		
9/16 inch	160 to 192	217 to 260		
5/8 inch	220 to 264	298 to 358		
3/4 inch	380 to 456	515 to 618		
7/8 inch	600 to 720	814 to 976		
1.0 inch	900 to 1080	1220 to 1465		
1-1/8 inch	1280 to 1440	1736 to 1953		
1-1/4 inch	1820 to 2000	2468 to 2712		
1-3/8 inch	2380 to 2720	3227 to 3688		
1-1/2 inch	3160 to 3560	4285 to 4827		
NOTE: Use thick nuts with Grade 8 bolts.				

#### **TORQUE SPECIFICATIONS - METRIC HARDWARE**

Use the following torques when specifications are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated, or when lubricated with engine oil. These values do not apply if graphite or Molydisulfide grease or oil is used.

Grade 8.8 Bolts, Nuts, and Studs		
8.8		
Size	Pound- Inches	Newton metres
M4	24 to 36	3 to 4
M5	60 to 72	7 to 8
M6	96 to 108	11 to 12
M8	228 to 276	26 to 31
M10	456 to 540	52 to 61
Size	Pound- Feet	Newton metres
M12	66 to 79	90 to 107
M14	106 to 127	144 to 172
M16	160 to 200	217 to 271
M20	320 to 380	434 to 515
M24	500 to 600	675 to 815
M30	920 to 1100	1250 to 1500
M36	1600 to 1950	2175 to 2600

Grade 10.9 Bolts, Nuts, and Studs		
(10.9)		
Size	Pound- Inches	Newton metres
M4	36 to 48	4 to 5
M5	84 to 96	9 to 11
M6	132 to 156	15 to 18
M8	324 to 384	37 to 43
Size	Pound- Feet	Newton metres
M10	54 to 64	73 to 87
M12	93 to 112	125 to 150
M14	149 to 179	200 to 245
M16	230 to 280	310 to 380
M20	450 to 540	610 to 730
M24	780 to 940	1050 to 1275
M30	1470 to 1770	2000 to 2400
M36	2580 to 3090	3500 to 4200

Grade 12.9 Bolts, Nuts, and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

#### **TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS**

Tube OD Hose ID	Thread Size	Pound- Inches	Newton metres
	37 Degree I	Flare Fitting	
1/4 inch 6.4 mm	7/16-20	72 to 144	8 to 16
5/16 inch 7.9 mm	1/2-20	96 to 192	11 to 22
3/8 inch 9.5 mm	9/16-18	120 to 300	14 to 34
1/2 inch 12.7 mm	3/4-16	180 to 504	20 to 57
5/8 inch 15.9 mm	7/8-14	300 to 696	34 to 79
Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres
3/4 inch 19.0 mm	1-1/16-12	40 to 80	54 to 108
7/8 inch 22.2 mm	1-3/16-12	60 to 100	81 to 135
1.0 inch 25.4 mm	1-5/16-12	75 to 117	102 to 158
1-1/4 inch 31.8 mm	1-5/8-12	125 to 165	169 to 223
1-1/2 inch 38.1 mm	1-7/8-12	210 to 250	285 to 338

Tube OD Hose ID	Thread Size	Pound- Inches	Newton metres
St	raight Threa	ds with O-ri	ng
1/4 inch 6.4 mm	7/16-20	144 to 228	16 to 26
5/16 inch 7.9 mm	1/2-20	192 to 300	22 to 34
3/8 inch 9.5 mm	9/16-18	300 to 480	34 to 54
1/2 inch 12.7 mm	3/4-16	540 to 804	57 to 91
Tube OD Hose ID	Thread Size	Pound- Feet	Newton metres
5/8 inch 15.9 mm	7/8-14	58 to 92	79 to 124
3/4 inch 19.0 mm	1-1/16-12	80 to 128	108 to 174
7/8 inch 22.2 mm	1-3/16-12	100 to 160	136 to 216
1.0 inch 25.4 mm	1-5/16-12	117 to 187	159 to 253
1-1/4 inch 31.8 mm	1-5/8-12	165 to 264	224 to 357
1-1/2 inch 38.1 mm	1-7/8-12	250 to 400	339 to 542

Split Flange Mounting Bolts			
Size	Pound- Inches	Newton metres	
5/16-18	180 to 240	20 to 27	
3/8-16	240 to 300	27 to 34	
7/16-14	420 to 540	47 to 61	
Size	Pound- Feet	Newton metres	
1/2-13	55 to 65	74 to 88	
5/8-11	140 to 150	190 to 203	

#### **TORQUE SPECIFICATIONS - STEEL HYDRAULIC FITTINGS**

Nom. SAE Dash Size	Tube OD	Thread Size	Pound- Inches	Newton metres	Thread Size	Pound- Inches	Newton metres
O-ring Face Seal End					O-ring Boss End Fitting or Lock Nut		
-4	1/4 inch 6.4 mm	9/16-18	120 to 144	14 to 16	7/16-20	204 to 240	23 to 27
-6	3/8 inch 9.5 mm	11/16-16	216 to 240	24 to 27	9/16-18	300 to 360	34 to 41
-8	1/2 inch 12.7 mm	13/16-16	384 to 480	43 to 54	3/4-16	540 to 600	61 to 68
					Thread	Pound-	Newton
					Size	Feet	metres
-10	5/8 inch 15.9 mm	1-14	552 to 672	62 to 76	7/8-14	60 to 65	81 to 88
NI					4 4 4 0 4 0	05 1: 00	4451, 400
Nom. SAE					1-1/16-12	85 to 90	115 to 122
Dash Size	Tube OD	Thread Size	Pound- Feet	Newton metres	1-3/16-12	95 to 100	129 to 136
-12	3/4 inch 19.0 mm	1-3/16-12	65 to 80	90 to 110	1-5/16-12	115 to 125	156 to 169
-14	7/8 inch 22.2 mm	1-3/16-12	65 to 80	90 to 110	1-5/8-12	150 to 160	203 to 217
-16	1.0 inch 25.4 mm	1-7/16-12	92 to 105	125 to 140	1-7/8-12	190 to 200	258 to 271
-20	1-1/4 inch 31.8 mm	1-11/16-12	125 to 140	170 to 190			
-24	1-1/2 inch 38.1 mm	2-12	150 to 180	200 to 254			

## Section 1002

#### **FLUIDS AND LUBRICANTS**

#### **TABLE OF CONTENTS**

APACITIES AND LUBRICANTS	3
DNVERSION FORMULAS	3
IGINE OIL RECOMMENDATIONS	4
ESEL FUEL SYSTEM	
Fuel Storage	5
Specifications for Acceptable No. 2 Diesel Fuel	5
AINTENANCE SCHEDULE	
Model 521D	6
AINTENANCE SCHEDULE	
Model 521D	7

#### **CAPACITIES AND LUBRICANTS**

Engine Oil Capacity with Filter Change				
Engine Cooling System Capacity				
Fuel Tank Capacity				
Hydraulic System Hydraulic Reservoir Refill Capacity with Filter Change				
Transmission Refill Capacity with Filter Change				
Axles Capacity				
Front				
Brake System Type of Fluid (Same as Hydraulic System)MS-1209 Hy-Tran® Ultra				
<b>NOTE:</b> DO NOT use an alternate oil in the axles. The brake components in the axles could be damaged as a result of using an alternate oil.				

#### **CONVERSION FORMULAS**

Imperial quart = litres x 0.879877

Imperial gallons = litres x 0.219969

#### **ENGINE OIL RECOMMENDATIONS**

Case IH No. 1 Engine oil is recommended for use in your Case engine. Case IH No. 1 Engine Oil will lubricate your engine correctly under all operating conditions.

If Case No. 1 Multi-Viscosity or Single Grade Engine Oil is not available, use only oil meeting API engine oil service category CH.

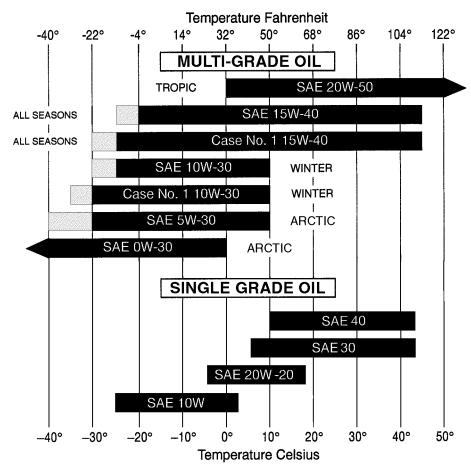


See the chart below for recommended viscosity at ambient air temperature ranges.

NOTE: Do not put performance additives or other oil additive products in the engine crankcase. The oil change intervals given in this manual are according to tests with Case lubricants.



BP99J241



Indicates use of an engine oil heater or a jacket water heater is required.

BS99M162

#### **DIESEL FUEL SYSTEM**

Use No. 2 diesel fuel in the engine of this machine. The use of other fuels can cause the loss of engine power and high fuel consumption.

In very cold temperatures, a mixture of No. 1 and No. 2 diesel fuels is temporarily permitted. See the following Note.

**NOTE:** See your fuel dealer for winter fuel requirements in your area. If the temperature of the fuel lowers below the cloud point (wax appearance point), wax crystals in the fuel will restrict the fuel filter and cause the engine to lose power or not start.

The diesel fuel used in this machine must meet the specifications as shown below in, "Specifications for Acceptable No. 2 Diesel Fuel", or "Specification D975-81" of the American Society for Testing and Materials.

#### **Fuel Storage**

If you keep fuel in storage for a period of time, you can get foreign material or water in the fuel storage tank. Many engine problems are caused by water in the fuel.

Keep the fuel storage tank outside and keep the fuel as cool as possible. Remove water from the storage container at regular periods of time.

Fill the fuel tank at the end of the daily operating period to prevent condensation in the fuel tank.

#### **Specifications for Acceptable No. 2 Diesel Fuel**

API gravity, minimum	
Flash point, minimum	
Cloud point (wax appearance point), maximum	20°C (-5°F) See Note above
Pour point, maximum	26°C (-15°F) See Note above
Distillation temperature, 90% point	282 to 338°C (540 to 640°F)
Viscosity, at 38°C (100°F)	
Centistokes	2.0 to 4.3
Cetane number, minimum	. 43 (45 to 55 for winter or high altitudes)
Water and sediment, by volume, maximum	0.05%

#### **MAINTENANCE SCHEDULE**

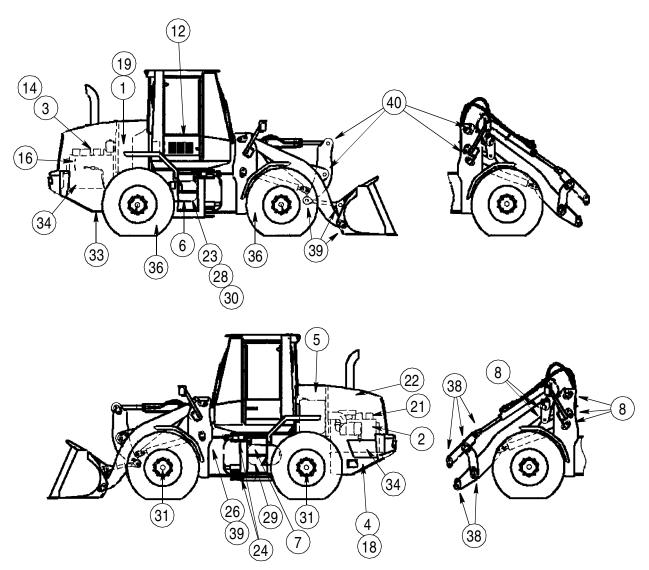
#### Model 521D

#### Instructions

#### **AS REQUIRED**

22 SERVICE THE AIR CLEANER IF THE AIR CLEANER WARNING LAMP ILLUMINATES	SEE OPERATORS MANUAL							
IF THE TRANSMISSION FILTER RESTRICTION WARNING LAMP ILLUMINATES	LIGE CASE EILTED							
19 CHECK THE RADIATOR COOLANT LEVEL IF THE WARNING LAMP ILLUMINATES								
6 REPLACE THE HYDRAULIC FILTER IF THE HYDRAULIC FILTER WARNING LAMP ILLUMINATES.								
CHECK THE AIR CONDITIONING DRIVE TENSION (IF EQUIPPED) NOT SHOWN								
CHECK THE AIT COMBITIONING BINVE TENCION (II EQUIT EB) NOT CHOWN	AD0001 AO NEQONIED							
EVERY 10 HOURS OF OPERATION OR EACH DAY - WHICHEVER OCCURS FIRST								
16 CHECK THE ENGINE OIL LEVEL	SEE OPERATORS MANUAL							
EVERY 50 HOURS OF OPERATION								
1 CHECK THE COOLANT RESERVOIR FLUID LEVEL	ETHYLENE GLYCOL AND WATER							
29 CHECK THE TRANSMISSION OIL LEVEL (ENGINE RUNNING AND OIL WARM)								
5 CHECK THE HYDRAULIC RESERVOIR FLUID LEVEL								
38 LUBRICATE THE BUCKET AND BELLCRANK PIVOT POINTS (10 FITTINGS) XT								
39 LUBRICATE THE BELLCRANK AND BUCKET PIVOTS (6 FITTINGS) Z-BAR	CASE MOLYDISULFIDE GREASE							
EVERY 100 HOURS OF OPERATION								
7 LUBRICATE THE STEERING CYLINDER PIVOTS - ROD AND CLOSED END (4 FITTINGS)								
40 LUBRICATE THE LOADER LIFT ARM AND CYLINDER PIVOTS (7 FITTINGS) Z-BAR								
26 LUBRICATE THE FRONT DRIVE SHAFT SUPPPORT BEARING (1 FITTING)	CASE MOLYDISULFIDE GREASE							
8 LUBRICATE THE LOADER LIFT ARM AND CYLINDER PIVOTS (14 FITTINGS) XT	CASE MOLYDISULFIDE GREASE							
EVERY 250 HOURS OF OPERATION								
19 CHECK THE RADIATOR COOLANT LEVEL	ETHYLENE GLYCOL AND WATER							
2 CHANGE THE ENGINE OIL AND REPLACE THE ENGINE OIL FILTER								
34 CHECK THE BATTERY FLUID LEVEL	SEE OPERATORS MANUAL							
36 CHECK THE TIRE CONDITION AND AIR PRESSURE								
12 CLEAN THE CAB AIR FILTERS (IF EQUIPPED)	SEE OPERATORS MANUAL							
EVERY 500 HOURS OF OPERATION								
3 REPLACE THE FUEL FILTER	USE CASE FILTER							
33 DRAIN WATER AND SEDIMENT FROM THE FUEL TANK								
14 REPLACE THE IN-LINE FUEL FILTER	USE CASE FILTER							
EVERY 1000 HOURS OF ORER ATION								
EVERY 1000 HOURS OF OPERATION	055 055 405 1441							
21 CHECK THE ENGINE VALVE CLEARANCES								
30 REPLACE THE TRANSMISSION OIL FILTER								
28 CHANGE THE TRANSMISSION OIL FILTER								
23 CLEAN THE TRANSMISSION BREATHER								
24 LUBRICATE THE UPPER AND LOWER CHASSIS PIVOTS (2 FITTINGS)								
31 CHANGE THE FRONT/REAR AXLE OIL								
EVERY COOR HOURS OF ORERATION OR EACH VEAR WILLIAMS	TO OCCUPE FIRST							
EVERY 2000 HOURS OF OPERATION OR EACH YEAR - WHICHEVER OCCURS FIRST 4 CHANGE THE HYDRAULIC OIL								
18 DRAIN, FLUSH AND REFILL THE ENGINE COOLING SYSTEM	ETHYLENE GLYCOL AND WATER							
22 REPLACE THE AIR CLEANER ELEMENTS								
LETTER BIOCE THE AUTOCCAUTE LECENSEIT O								

### MAINTENANCE SCHEDULE Model 521D



BS01B021

If you operate the machine in severe conditions, lubricate and service the machine more frequently. It is recommended that you see your Case dealer for information on the System Guard Lubrication Analysis System.

See your Operators manual for maintenance of safety related items and for detailed information of the service items on this chart. Operators and service manuals are available for this machine from your Case dealer.

#### **NOTES**

# Section 1003

#### **METRIC CONVERSION CHART**

### Click on the image link below for the full version of the service manual

