INJECTION PUMP
SPECIFICATION

MODEL DB0431AJ3205
SUPERSEDES MODEL DB0431A
CUSTOMER PART NO. A151113
J.I. Case Company

CUSTOMER NAME & ADDRESS:

ENGINE 207
APPLICATION 580 C Tractor
Power Shuttle

Gov. Regulation 9-10

NOTE: All speeds are in engine RPM unless otherwise noted.

TEST STAND
1. INJECTION LINES
   (12S012 NOZZLES) 7/8" I.D. BY 20' LONG
   (HOLDER BKBSOSD & 0.5 MM PLATE) 7/8" I.D. BY 25' LONG
2. TEST OIL TEMPERATURE
   110-115°F
3. NOZZLE OPENING PRESSURE
   (HOLDER BKBSOSD) 12502 D NOZZLES) 2500 PSI
4. CALIBRATING OIL (G.B.20L)
PUMP OPERATING SPEED
HALF ENGINE SPEED

FUEL ENGINE CONSUMPTION

PUMP ACCESSORIES
1. Delivery Valve
2. Automatic Advance
3. 
4. 

PUMP SETTINGS († ITEMS APPLY TO SERVICE ONLY)
1. ROLLER TO ROLLER DIMENSION: 1.965 ± 0.0015" (USE KIT NO. 23093 SB95/XL862)
2. GOVERNOR LINKAGE GAP: 1.25" TO 1.65"
3. OPERATE PUMP AT 1000 RPM WOT (WIDE OPEN THROTTLE) FOR 10 MINUTES TO BRING TO OPERATING TEMPERATURE AND CLEAR AIR FROM SYSTEM.

4. CHECK FOR MINIMUM 15" HG TRANSFER PUMP LIFT AT 400 RPM
5. ADJUST TRANSFER PUMP PRESSURE (WOT) NOTE: 1 TO 3 PSI SUPPLY PRESSURE REQUIRED AT PUMP INLET.
6. CHECK FOR MINIMUM CRANKING SPEED DELIVERY (SEE STEP 18)

18. CHECK POINT (PRESSURE)
   2100
19. CHECK POINT
   1400
10. CHECK POINT
   2300
11. SET TORQUE SCREW
   2100
12. CK. SHUT-OFF (LOW IDLE)
   2300
13. HIGH IDLE (WOT)
   2300
14. GOVERNOR CUT-OFF
   2350
15. LOW IDLE
   750
16. TRANS. PUMP PRESS. (WOT)
   750
17. CK. SHUT-OFF (LOW IDLE)
   750
18. MIN. CRANK SPEED DEL.
   150

NOTE: Return oil to be 200-300cc/min. at Rated Speed

19. NAME PLATE LIFT SIDE VIEWING END PLATE
20. TIMED.......SIDE VIEWING END PLATE
21. TIMED TO CAM (FOR END OF INJECTION)
22. GOVERNOR CONTROL COVER TO BE STAMPED VOLS.
23. TIMED TO THIS CYLINDER (FROM T. PUMP END) ----
24. SPECIAL NOTES:
   a. Torque all fasteners per 784 or S.U.106
   b. Fuel Line Connector No. 11336 to be purchased separately
   c. Assemble Adjustable Shut-off Arm Assembly No. 12295 in R4-L position per B/P XL400 or S.B.164
   d. Pump to be tested with No. 15830 Connector Assembly installed
   e. Set S.O. Adj. Screws per XL869. (In plant use only)

HEAD & ROTOR GROUP

HYD. HEAD & ROTOR ASSEMBLY
PLUNGER, rotor (basic)

use 1067 thru 11070 (Standard)
or 11071 thru 11075 (Oversize)
as indicated on rotor 8.8.60R

VALVE, delivery S.B.143R or 13820 (Oversize) as Req'd.

SPRING, delivery valve
STOP, delivery valve
WIRE, vent
SCREW, hydraulic head plug
WIRE, vent wire retainer
SCREW, hydraulic head plug
RING, rotor retainer
RETAILER, rotor

*INDENTED ITEMS INCLUDED