

EDITION : 12

ENGINE MODEL NO: 300 SERIES NA

DATED: 04-23-15

CUSTOMER: JOHN DEERE

ASSEMBLY NO: 27333

SUPERSEDES: 22203

CUSTOMER PART NO: AR-89564

TEST STAND: ISO 8984

1. CALIBRATION FLUID...SAE J967 / ISO 4113
(Ref. S.B. 201) AT ROOM TEMPERATURE (70°-80° F)
2. CALIBRATION HIGH PRESSURE PIPES...0.063 X 12"
(1.6 X 305 mm)

NOTE: Reference Pencil Nozzle Service Manual 99002 and S.B. 467 for additional service information.

INJECTOR SETTINGS

1. OPENING PRESSURE SETTINGS:

	<u>SET</u>	<u>CHECK</u>
** NEW	3320 ± 40 PSI (229 ± 2.8 bar)	3240 PSI MIN. (223 bar)
SERVICE	3120 ± 40 PSI (215 ± 2.8 bar)	2960 PSI MIN. (204 bar)

2. VALVE LIFT: TURN 1/2 ± 1/8 .009 (0.23mm) NOMINAL
3. SPRAY ORIFICE SIZE: .0106 (0.27mm)
4. SPRAY ORIFICE NUMBER: 4
5. SAC TYPE: .0394 METRIC
6. CHECK NOZZLE "CHATTER" PER PENCIL NOZZLE SERVICE MANUAL 99002. IF ACCEPTABLE PROCEED TO STEP 7.
7. RETURN OIL LEAKAGE: 1 TO 14 DROPS / 30 SECONDS MAX. AT 1500 PSI (SERVICE ONLY).

** SETTINGS FOR NEW NOZZLE OR WHEN A NEW PRESSURE ADJUSTING SPRING IS USED.

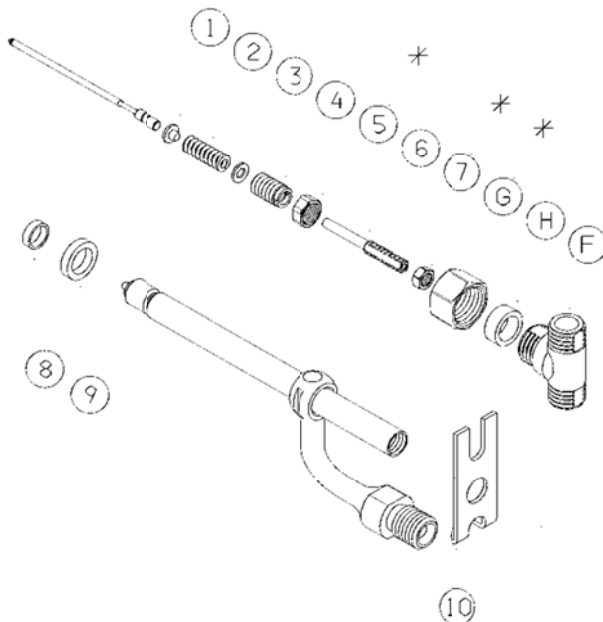
THE FOLLOWING ITEMS USED IN CONJUNCTION WITH THE NOZZLE ASSEMBLY ARE PURCHASED SEPARATELY:

- A. PROTECTIVE SHIPPING CAPS NO. 16560 & 18964
- B. NOZZLE CLAMP ASSEMBLY NO. 22999
- C. NOZZLE CLAMP ASSEMBLY SPACER NO. 20629
- D. FUEL LINE CONNECTOR NUT NO. 16164
- E. FUEL LINE FERRULE NO. 16166
- F. NOZZLE LEAK-OFF CAP NO. 31286
- G. NOZZLE LEAK-OFF NUT NO. 24187 *
- H. NOZZLE LEAK-OFF GROMMET NO. 17721

* ASSEMBLY TORQUE:

24185	70-80 lbf·in (7.9-9.0 N·m)
24186	35-45 lbf·in (4.0-5.1 N·m)
24187	20-30 lbf·in (2.3-3.4 N·m)

*** REPLACE AS A SET



ITEM NO.	PART NO.	QTY REQ.	DESCRIPTION
1	28753 ***	1	SEAT, spring
2	28071	1	SPRING, pressure adjusting
3	20742	1	SHIM, pressure adjusting
4	23705	1	SCREW, pressure adjusting
5	24185 *	1	LOCKNUT, pressure screw
6	39600 ***	1	SCREW, lift adjusting
7	24186 *	1	LOCKNUT, lift screw
8	16389	1	SEAL, carbon stop
9	20628	1	WASHER, plain
10	24188	1	PLATE, injector locating

FOR ENGINEERING USE ONLY

DATE	ECN NO.	EDITION
07-25-84		1
08-22-84	16374	2
09-13-84	16405	3
10-11-88	19016	4
12-08-88	19321	5
01-06-89	19353	6
09-28-94	23243	7
07-10-95	23898	8
03-16-00	26746	9
08-17-09	32224	10
01-06-11	32530	11
04-23-15	38233	12