

# TP003 Fuel Pump Test Data In – Line



## Equipment Specification

Fuel pump: BPE4A70T320/S6400  
Des No: 4417621 IHC # 706-235R93  
Governor: BEP/BMZ80A160  
Injector: BKB32S687  
Nozzle: BDN8S1 set @ 150 ats (Use Aluminum seating washer 5339-423)

## Instillation Specification.

Application: Tractor INTERNATIONAL HARVESTER  
Engine Type: BD.144 & BD.250

## Test Rig Conditions.

Nozzle Holders: BKB50SD19b  
Nozzle: BDN12SD12  
Injection Setting Pressure: 175 atm.  
Feed Pressure: 6psi to 12psi  
High Pressure Pipes: 6mm x 2mm x 600mm long.

## Test Procedure.

Phasing:  
Set No 1 line to 0.5. Plus Or Minus 0.05 Head Clearance.  
Phase other lines to within Plus or Minus 0.5 degrees of No 1.  
Firing Order: 1. 3.4.2. Clock Wise Rotation at No 1 end.

## Calibration Order of Tests:

TEST No:	C.R.O In Mm's	R.P.M	No of Strokes	Fuel Delivery c.c's	Max Spread cc's
1	9	900	100	4.0 to 4.4	0.4
2	9	500	100	3.7 to 4.1	0.3
3	6	200	100	1.0 to 1.6	0.4
4	1.5 minimum	1000	-----	zero	0.4

Remarks: Maximum Fuel Setting:  
**BD.144. 3.9ccs to 4.1ccs /100 shots @ 850 RPM**  
**BD250. 4.00ccs/100shots/850rpm**

This is a re-issue of a CAV Test Plan.  
Peter Slater FIE