

# **STANADYNE®**



**June 29, 2007**

**SERVICE LETTER 324-SDR1**

*Supersedes S.L. 324-SD , dated November 16, 2005*

**TO: CENTRAL DISTRIBUTORS AND SERVICE DEALERS –  
WORLDWIDE**

**SUBJECT: INTEGRATED FUEL SYSTEM UPDATE LETTER #2**

It was back in late 2003 that Stanadyne began shipping the innovative Integrated Fuel System (IFS) to our customer. As its name implies, the Integrated Fuel System integrates a high pressure unit pump, the patented Compact Pencil Nozzle (CPN®), and a unique tappet assembly into one calibrated fuel system. The IFS is fitted to John Deere's now well-known 4024 (4 cylinder) and 5030 (5 cylinder) PowerTech™ Diesel engines.

Production of the IFS began in late 2003 and production volumes continue to be strong with well over 500,000 units shipped to our customer since the start of production. These engines are being fitted to a variety of applications including John Deere's own equipment as well as various "OEM" engine applications such as power units, compressors, generator sets, water pumps, etc. Although John Deere will typically supply the IFS for service during their warranty period through their own channels, Stanadyne is confident that our service network will be called upon to perform IFS repairs and replacements both in and out of the Stanadyne and John Deere warranty periods. For this reason, as stated in the original IFS Service Letter, Stanadyne has been actively developing the necessary tools, test equipment, and publications to allow for full field service of the IFS by our authorized service network.

Stanadyne is now pleased to announce that we have completed the development of the IFS Service Equipment Kit, which provides the service network with the ability to provide full service of the IFS. As you will recall, Stanadyne made complete IFS systems available to the service network in "Phase 1" and released service procedures and replacement of the Compact Pencil Nozzle® (CPN) in "Phase 2". Refer to "Attachment 1" for IFS system part number and supersession information and Service Bulletin 557 for CPN information.

The 39105 IFS Service Equipment Kit and its calibration software is designed to work with the DE computer and DAQ card that was supplied with the DE Service Equipment Kit. Please note that a new computer and DAQ card can be purchased

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separately for those Service Dealers who are not currently DE certified and wish to provide full service for the IFS.

The IFS Service Equipment Kit contains a robust Stanadyne designed cam box and each cam box is custom built and tested by Stanadyne prior to shipping. The cam box is equipped with a precision micrometer for exact positioning of the unit pump's plunger during calibration along with a pressure sensor and magnetic pick-up sensor for accurate measuring and setting of the system's timing. The 39105 kit includes the IFS cam box, packaged in a custom-made case, along with the following other accessories:

### 39105 IFS Service Equipment Kit



P/N	Description
39106	IFS Cam Box
39142	Hose Assembly & Fittings Kit
39152	Socket Assembly
39155	Signal Conditioning Wiring Harness
39156	Signal Conditioning Box Assembly
39234	Tappet Extraction Tool
99972	IFS Calibration Software
99976	IFS Instruction Manual

In addition to the IFS Service Equipment Kit, the dealer will need the following test equipment:

- A test bench that meets ISO standards and is equipped with at least a 10 HP direct drive motor;
- A lube oil supply pump that is capable of providing 3.38-3.52 BAR (49-51 PSI) pressure (lube oil supply pump kits are available from the various test bench manufacturers);
- A 107mm pilot diameter mounting plate (Bosch P/N 1 685 720 159, Hartridge P/N APB233);
- A 30mm tapered drive coupling (Bosch P/N 1 686 430 034, Hartridge P/N ADC156).

### IFS Kit Availability and Ordering

While Stanadyne is requiring that all of our Central Distributors become IFS Certified, participation in this program will be voluntary for Service Dealers at this time. Of course Stanadyne encourages all Service Dealers to participate in this exciting new program so that a greater percentage of our Authorized Service Network is capable of providing a full range of service capabilities for your customers. Please note that this IFS test equipment is only being made available to the Authorized Service Network and that no one outside of the authorized service network will have the ability to provide full IFS service.

If you are interested in becoming IFS Certified, please contact your Central Distributor for price and availability of the 39105 IFS Service Equipment Kit. You will find that the cost to become IFS Certified is very reasonable during the launch of this program because of the volume purchases of the kits components that Stanadyne made and this cost savings is reflected in the kit pricing. Naturally, when future lower order purchases are made, higher pricing will be necessary. Orders received for the 39105 IFS Service Equipment Kit will be processed on a first come first serve basis and orders will take up to 90 days to fill.

### System Identification

For ease of identification, Stanadyne stamps the customer part number for each IFS unit on the top of the unit pump body as shown in Figure 1. Reference the chart in Attachment 1 to determine the corresponding current production Stanadyne part number. Each IFS is also serialized and date coded for tracking purposes and these markings are also found on the top of the unit pump body.

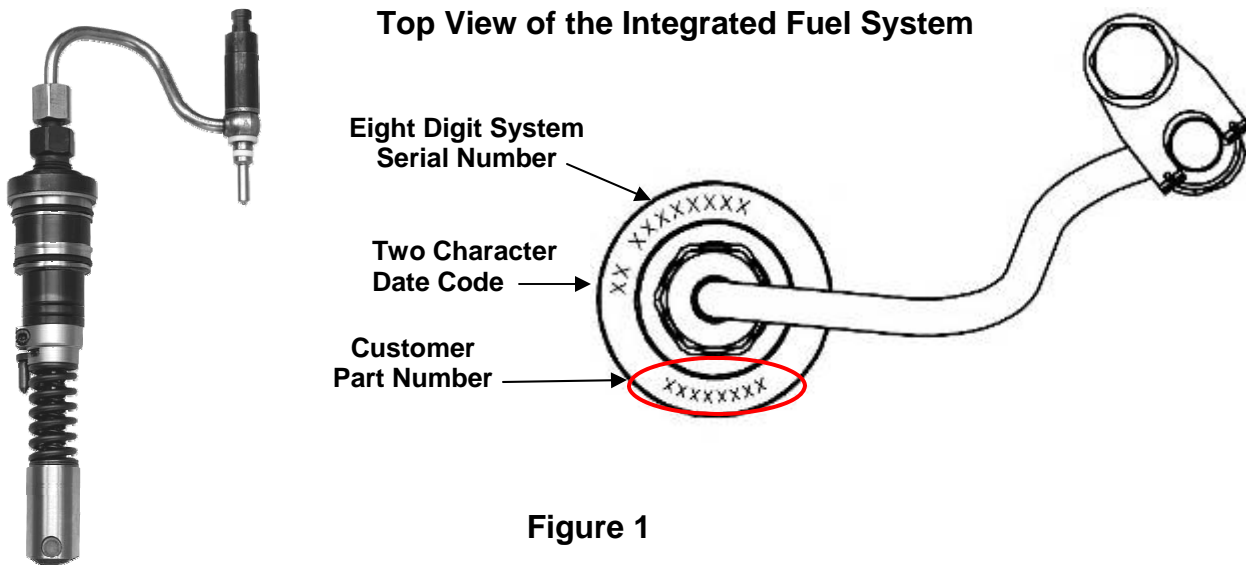


Figure 1

Component markings are also located on the Unit Pump Assembly, Compact Pencil Nozzle® (CPN), and the tappet assembly. These markings will be explained in detail at a later date as additional servicing of the IFS is allowed.

### **Training**

Stanadyne has begun IFS training with our Central Distributor Master Trainers in North America. This training will continue over the remainder of 2007 for our Central Distributors in other areas of the world. While it is not mandatory that your technician(s) attend a Stanadyne IFS *Focus on Training* class to become IFS Certified, attending a Stanadyne sponsored IFS class when offered by your Central Distributor is highly recommended. Initially, Service Dealers who already employ Stanadyne certified technicians can just purchase the IFS Service Equipment Kit and immediately begin to service the Integrated Fuel System.

### **Warranty**

The 39105 IFS Service Equipment Kit is covered for a period of one year as outlined in Section 4.6.4 of your Service Policies and Procedures Manual.

The Integrated Fuel System and its components have the same warranty coverage as all other diesel fuel injection products sold to John Deere. Reference Sections 4.2 and 4.3.7 of your 99666 Service Policies and Procedures Manual for detailed terms and conditions.

Sincerely,

**Mark A. Dionne**  
**Manager, World Service**  
**Product Support Department**

## Attachment 1

The following chart lists the Stanadyne IFS part numbers, customer part numbers, application, engine, and supersession information for all 25 Integrated Fuel Systems that are currently in production.

Stanadyne P/N	Customer P/N	Primary Application	Engine	Supersedes Stanadyne P/N	Supersedes Customer P/N
37740	RE527597	4T LT OEM	4024T (LT)	N/A	N/A
37741	RE527598	4T/5T OEM, 317, 320, 325 SSL, 304J, 244J 4WDL	4024T, 5030T	N/A	N/A
37742	RE527599	5TW OEM, 328 SSL	5030TW	N/A	N/A
38225	RE530790	4T/4TW, 5T OEM	4024T, 5030T	36562, 37340	RE515803, RE526485
38226	RE530792	5TW OEM	5030TW	36564, 37341	RE520132, RE526487
38227	RE530789	332 SSL	5030H	36570, 37342	RE515801, RE526484
38228	RE530791	5H OEM	5030H	36565, 37424	RE515805, RE526486
38229	RE530799	5225 TRACTOR	4024T	36566, 37425	RE523702, RE526495
38230	RE530798	4520, 4720, & 5325 TRACTOR	4024T	36568, 37426	RE523701, RE526594
38231	RE530788	4T LT OEM	4024T (LT)	36569, 37427	RE515787, RE526483
38232	RE530793	1500 GENSET	4024T	36775, 37428	RE522562, RE526488
38233	RE530794	1500 GENSET	5030H	36776, 37429	RE522563, RE526489
38234	RE530795	1800 GENSET	5030T	36779, 37430	RE522566, RE526491
38235	RE530796	1800 GENSET	5030H	36780, 37431	RE522567, RE526492
38236	RE530797	1500 GENSET	5030T	36781, 37432	RE522617, RE526493
38237	RE530800	4T/5T OEM, 317, 320, 325 SSL	4024T, 5030T	37657	RE527751
38238	RE530801	5TW OEM, 328 SSL	5030TW	37658	RE527752
38239	RE530802	1800 GENSET	4024T	37433, 37828	RE526490, RE528081
38240	RE530803	4120/4320 TRACTOR	4024T	38022	RE529324
38241	RE530822	4520/4720 TRACTOR	4024T	38151	RE530164
38242	RE530823	4120/4320 TRACTOR	4024T	38150	RE530165
38243	RE530824	5325 TRACTOR	5030T	38148	RE530166
38244	RE530825	5225 TRACTOR	5030T	38149	RE530167
38262	RE530869	4T LT OEM	4024T (LT)	37950	RE528832
39185	RE534688	313 / 315 SSL	4024T (LT)	N/A	N/A