



# John Deere TECH Partnership Manual



ASSINIBOINE  
COMMUNITY COLLEGE

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JOHN DEERE LIMITED / ASSINIBOINE COMMUNITY COLLEGE

## INTRODUCTION

The John Deere TECH program is a four-year Agricultural Mechanics program with an intake occurring when the demand indicates such, and is designed to upgrade the technical competence and professional level of the incoming dealership technician.

The curriculum is designed by John Deere Limited Canada, Assiniboine Community College and the Apprenticeship Branch of the department of Manitoba Competitiveness, Training & Trade. This program will lead to a John Deere Limited/Assiniboine Community College Certificate/Certificate of Achievement and time credited to apprenticeship training.

The program capacity is 15 students. Although applications are selected on a first-come, first-serve basis, it is expected that all Manitoba dealer locations will sponsor a student into the program. The program involves attending classroom lectures and working in the shop on all makes of farm equipment, as well as, John Deere products at the college, plus a unique opportunity for students to work at a John Deere dealership.

The total program is completed in approximately 46 weeks. Four terms are spent in school at Assiniboine Community College.

The **first year** involves 12 weeks at Assiniboine Community College:

- Level 1 apprenticeship training (8 weeks)
- John Deere specific courses (4 weeks)

The **second year**, involves 14 weeks at Assiniboine Community College:

- Level 2 apprenticeship training (8 weeks)
- John Deere specific courses (6 weeks)

The **third year**, involves 12 weeks at Assiniboine Community College:

- Level 3 apprenticeship training (6 weeks)
- John Deere specific courses (6 weeks)

The **fourth year** involves 10 weeks at Assiniboine Community College:

- John Deere specific courses (6 weeks)
- Level 4 apprenticeship training (4 weeks)

The program requires the student to have a sponsoring John Deere dealer because considerable time is spent at the dealership. In some instances, the student may require assistance in locating a sponsoring dealer. The main responsibility of the dealer is to provide training-related employment for the student during the work experience periods.

Tuition fees for the John Deere portion are to be paid to the college by the student upon entry to the program. Tuition fees for the Apprenticeship portion of the training will be paid to the college, on behalf of the student, by Apprenticeship Branch.

The John Deere TECH program is certainly the optimum way to be directly involved in the training of professional technicians for John Deere dealerships.

## RESPONSIBILITIES OF PARTICIPANTS

### **John Deere Dealership:**

- Be committed as a sponsoring dealer so dealership's name can be made available to interested students.
- Interview and select a student that the dealership will sponsor and direct them to apply with Apprenticeship AND Assiniboine Community College.
- Actively recruit students for the program.
- Appoint an in-dealership Coordinator to assist the College TECH Instructor /Coordinator in planning and monitoring the dealership work experience.
- Provide appropriate work experience, which reinforces the students, most recent classroom instruction.
- Pay students during periods of dealership work experience.
- Provide student/employee with 3 coveralls. Ordered through the college during the first week of Level 1 classes. Dealers will be billed directly from the supplier.
- Provide the student with a John Deere RACF ID.
- Ask student for a progress report at the end of each term.

### **Student:**

- Must be a high school graduate or equivalent
- Meet specified admission and academic requirements established jointly by John Deere Limited and Assiniboine Community College.
- Employed with a John Deere dealership and obtained sponsorship with that dealer.
- Applied and accepted to Apprenticeship training in conjunction to applying for the Assiniboine Community College John Deere TECH program.
- Must ensure all documentation is completed by John Deere sponsoring dealership for the John Deere TECH program application.
- Maintain academic standards and adhere to academic policies.
- Maintain attendance standards according to Assiniboine Community College policy.
- Participate in all learning activities at the scheduled times.
- Responsible for own accommodations and sustenance.
- Provide sponsoring dealer with responsible and productive employment.
- Provide his or her own basic hand tools.
- Provide dealer sponsor with progress report at the end of each term.
- Be responsible for program costs, tuition, fees, books and required supplies.

**Assiniboine Community College:**

- Maintain a current curriculum approved by John Deere Limited
- Provide a dedicated classroom and laboratory
- Provide a dedicated instructor who will act as a liaison between Assiniboine Community College and John Deere Limited
- Provide necessary shop equipment and tools
- Promote, advertise and recruit qualified student candidates based on academic standards established jointly by John Deere Limited and Assiniboine Community College.
- Maintain student records
- Provide established student services such as academic advisement, financial aid, counselling, etc.
- Conduct student visitations during the dealer work experience
- Design a curriculum allowing a minimum of 40% dealer work experience
- Work with the dealership John Deere TECH Coordinator to assure attainment of work experience competencies
- Provide a John Deere/Assiniboine Community College Certificate/Diploma of Achievement
- Provide secure storage areas for training aids, special tools, parts/components and Complete Goods machines.

**John Deere Limited:**

- Encourage dealer cooperation and support
- Provide John Deere training of TECH Instructor/Coordinator
- Provide Assiniboine Community College with essential training materials including technical publications, training aids, manuals, essential tools and new complete goods (i.e. Tractors, combines, etc.)
- Participate in student selection procedures with the Assiniboine Community College TECH Instructor/Coordinator
- Monitor all phases of John Deere TECH program to ensure success
- Participate in instructor(s)/coordinator selection procedure (individual subject to John Deere Limited approval).
- Through the John Deere Foundation, provide two \$500 scholarships: one Bridging and one Exit. Recipients to be determined by college criteria.

**PROGRAM SCHEDULE**

The 4 year John Deere TECH program is taken in conjunction with the 4 levels of the Agricultural Equipment Technician Apprenticeship. Students start by completing their Apprenticeship level followed by the corresponding John Deere TECH year. One Apprenticeship level and John Deere TECH year is typically taken each year, depending on demand.

Level 1 - Agricultural Equipment Technician Apprenticeship (8weeks)

**Year One - John Deere TECH (4 weeks)**

|           |                         |           |
|-----------|-------------------------|-----------|
| BUSN-0036 | Personal Finance        | 3 credits |
| MECH-0079 | Dealership Fundamentals | 6 credits |

Level 2 - Agricultural Equipment Technician Apprenticeship (8 weeks)

**Year Two - John Deere TECH (6 weeks)**

|           |                               |           |
|-----------|-------------------------------|-----------|
| MECH-0080 | Haying & Harvesting Equipment | 6 credits |
| MECH-0067 | Hydraulics Ag Tech            | 3 credits |
| MECH-0081 | Planting Equipment            | 3 credits |

Level 3 - Agricultural Equipment Technician Apprenticeship (6 weeks)

**Year Three – John Deere TECH (6 weeks)**

|           |                         |           |
|-----------|-------------------------|-----------|
| MECH-0027 | Consumer Products       | 3 credits |
| MECH-0062 | Power Trains John Deere | 6 credits |
| MECH-0028 | Tractor Performance     | 3 credits |

Level 4 - Agricultural Equipment Technician Apprenticeship (4 weeks)

**Year Four – John Deere TECH (6 weeks)**

|           |                              |           |
|-----------|------------------------------|-----------|
| MECH-0063 | Hydrostatic Drive/Hydraulics | 6 credits |
| ELEC-0023 | Electrical                   | 3 credits |
| MECH-0082 | Ag Management Solutions      | 3 credits |

**COURSE CALENDAR**

Information regarding course start dates can be obtained from Assiniboine Community College by contacting the Administrative Officer – School of Trades & Technology.

## COURSE DESCRIPTIONS

**YEAR ONE****AGRICULTURAL EQUIPMENT TECHNICIAN APPRENTICESHIP LEVEL 1**

The level one apprenticeship program covers subjects as outlined by Manitoba Education and Training in the program guide for the Agriculture Equipment Technician trade. Subjects covered include Oxy-Acetylene Welding, Engines and Engine Systems, Basic Electrical Systems, Primary Mechanical Systems including clutches, brakes, manual transmissions, exhaust systems and tires and wheels.

**PERSONAL FINANCE (3 credits)**

This course introduces students to personal finance so that they may better their financial planning for now and the future. Inflation, savings, credit, insurance, mortgage and taxes are covered.

**DEALERSHIP FUNDAMENTALS (6 Credits)**

This course familiarizes student with common dealership requirements such as shop orientation, customer service, work order documentation and parts ordering procedures. Areas of special interest include machinery familiarity. Service Advisor, Electronic Parts Catalogue and forklift certification. **Note: Upon successful completion of Service Advisor – Systems Overview, the student will review 16 Educate Credits.**

**YEAR TWO****AGRICULTURAL EQUIPMENT TECHNICIAN APPRENTICESHIP LEVEL 2**

The level two apprenticeship program covers subjects as outlined by Manitoba Education and Training in the program guide for the Agriculture Equipment Technician trade. Subjects covered include Hay and Forage Equipment, Tillage Equipment, Seeding Equipment, Harvesting Equipment, Hydraulic Systems, Gasoline Fuel Systems and Electrical Systems.

**HAYING & HARVESTING EQUIPMENT (6 Credits)**

This course covers inspection, maintenance, adjustments, diagnostic and repair procedures on used harvesting and haying equipment. Actual repairs are performed on equipment supplied by supporting dealers as available.

**HYDRAULICS AG TECH (3 credits)**

This course provides hands-on experience in working with the components that make up the various circuits in the hydraulics systems of John Deere utility, row crop and four-wheel drive tractors. Time is spent discussing principles of operation, component identification and proper repair and adjustment procedures. **Note: Upon successful completion of Hydraulic – Systems Overview, the student will review 16 Educate Credits.**

**PLANTING EQUIPMENT (3 credits)**

This course gives students exposure to the theory, design and principles of operation of different types of planting equipment. The hands-on component includes inspection, maintenance, adjustments, calibration, diagnostic and repair procedures at various types of John Deere seeding tools.

**YEAR THREE****AGRICULTURAL EQUIPMENT TECHNICIAN APPRENTICESHIP LEVEL 3**

The level three apprenticeship program covers subjects as outlined by Manitoba Education and Training in the program guide for the Agriculture Equipment Technician trade. Subjects covered include Engines and Engine Systems, Diesel Fuel Systems, Engine Control Systems, Primary Mechanical Systems including torque converters, differentials, axle assemblies and final drives.

**CONSUMER PRODUCTS (3 Credits)**

This course covers John Deere lawn and garden tractors, equipment and attachments. Operation, diagnosis, repair and adjustments of tractor and systems are explained and practiced. Set up, pre-delivery and adjustment of tractor equipment and attachments are done on live units.

**POWER TRAINS JOHN DEERE (6 credits)**

This course enables students to test, disassemble, inspect and reassemble many of the power train components on a variety of John Deere machines, from the clutch to the wheels. Transmission diagnostics and calibration are performed on new equipment.

**TRACTOR PERFORMANCE (3 credits)**

This course gives students exposure to the proper set-up, pre-delivery and weight distribution of agricultural tractors for maximum productivity. Also included are sections on engine break-in, tune up and dynamometer testing.

**YEAR FOUR****AGRICULTURAL EQUIPMENT TECHNICIAN APPRENTICESHIP LEVEL 4**

The level four apprenticeship program covers subjects as outlined by Manitoba Education and Training in the program guide for the Agricultural Equipment Technician trade. Subjects covered include Hydraulic Systems, Electrical Systems, Primary Mechanical Systems and Auxiliary Mechanical Systems.

**HYDROSTATIC DRIVES/HYDRAULICS (6 credits)**

This course allows students to perform hydraulic and hydrostatic operation, diagnostics, adjustment and component repair on a variety of different models of John Deere equipment. This hands-on experience used to enhance previously learned skills obtained in other courses.

**ELECTRICAL (3 credits)**

This course covers basic electrical theory including Ohm's Law, magnetism and series and parallel circuits. Operation of a digital multimeter is explained and experience is gained on electrical and electronic circuits and components. Application, operation function and testing of diodes, transistors, thermistors, rheostats and potentiometers are demonstrated. Time is spent with operation of pulse width modulation, analog and digital signals, computer inputs and outputs, buffer and toggle circuits. Students complete exercises on schematic reading and electronic diagnostics on John Deere machines. **Note: Upon successful completion of Electrical/Electronics – Systems Overview, the student will review 32 Educate Credits.**

**AG MANAGEMENT SOLUTIONS (3 credits)**

This course allows students to understand and operate John Deere's version of global positioning systems (GPS) and geographical information systems (GIS). Specific areas include yield mapping, yield monitoring, parallel tracking, AutoTrac, map based seeding, JD Link and JD Office.

**INSTRUCTIONS FOR APPLICANTS**

**STEP 1: EMPLOYED BY JOHN DEERE DEALERSHIP**

**STEP 2: APPLICATION TO APPRENTICESHIP**

- Visit the Apprenticeship website for information on admission requirements at <http://www.gov.mb.ca/tce/apprent/> or contact an Apprenticeship Training Coordinator (John Wawszko 945-4821) for appropriate paperwork.
- Complete an Apprentice Application Agreement found at the following website: [http://www.gov.mb.ca/tce/apprent/apps\\_forms/pdf/pdf\\_forms/app\\_agreement.pdf](http://www.gov.mb.ca/tce/apprent/apps_forms/pdf/pdf_forms/app_agreement.pdf)
  - Submit \$50.00 registration fee (payable to the Minister of Finance)
  - Complete Employer Application signed by the Employer/recognized association
  - Apprenticeship Agreement signed by the apprentice and new Employer/recognized association
  - Consent to Disclose Information, signed by apprentice
  - Official Transcripts (new applicants only)
    - o Official Manitoba High School Mark Statement can be obtained by contacting your high school or the Professional Certification & Student Records Unit, Manitoba Education, Citizenship and Youth, Telephone: (204) 773-2998, Toll free 1-800-667-2378, [www.edu.gov.mb.ca/k12/studrec](http://www.edu.gov.mb.ca/k12/studrec)
    - o Trade related transcripts (if applicable) can be obtained from your training institution.

**STEP 3: APPLICATION TO ACC FOR THE JOHN DEERE TECH PROGRAM**

- Complete an Assiniboine Community College Program Application form [www.assiniboine.net](http://www.assiniboine.net) – “Apply Now”
  - Submit an Application Fee of \$50.00 made payable to Assiniboine Community College.
  - Submit an official High School Transcript showing your Grade 12 marks (please see information in Step 2 regarding obtaining a transcript)
- Meet with authorized representative of sponsoring John Deere Dealership
  - Complete FORM A: Dealer Approval Form with employer
  - Complete FORM B: Dealer Training Program Agreement
  - Complete FORM C: Coordination Visit Form.
- Mail all completed forms, transcripts, and proof of Acceptance to Apprenticeship training (copy of training notice letter) to:

Assiniboine Community College  
Admission/Registration  
1430 Victoria Ave East, Brandon, Manitoba, R7A 2A9

Upon completion of the John Deere TECH term:

- Complete FORM D: Student’s End of Term Appraisal

*NOTE: Students will receive a training notice from Apprenticeship for Ag Equipment Technician and an acceptance letter from ACC for the John Deere TECH program once their applications are fully completed and all conditions of acceptance are met; both acceptances require a \$200 commitment fee to secure a position.*

*If you have any questions of this process please call 204-725-8700; Chairperson at ext. 7224 or Administrative Officer at ext. 6656.*

**FORM A: DEALER APPROVAL FORM**

*\* Applicant: Please submit this form to Assiniboine Community College after your coordination interview with your John Deere employer.*

Student Applicant Name: \_\_\_\_\_

**DEALER INTERVIEW:** Discuss the following subjects with the applicant. Satisfy yourself that the applicant meets your standards.

1. **Education & Experience:** Each applicant must have a Grade 12 Certificate. Every applicant will have a unique background. Prior training or experience is not essential for success in John Deere TECH, but may be valuable in certain instances.
2. **Scholastic Aptitude:** Review the applicant’s potential to complete the academic work required for graduation. This can be determined by the interview, testing and consultation with the Institute or high school.
3. **Commitment:** John Deere TECH is approximately four years in length. The John Deere TECH student must make an honest commitment to complete all required courses.
4. **Employability:** The applicant should be viewed as seeking permanent employment. John Deere TECH will help you train your future technician. Is this person someone you could employ full time once the required skills are obtained?
5. **Career Interest:** The applicant should express a strong desire to be a professional Ag technician. Are his/her goals consistent with the dealership’s needs for the next few years?

**DEALER APPROVAL:**      **I recommend this applicant for the JOHN DEERE TECH Program and agree to provide sponsorship.**

\_\_\_\_\_  
Dealer/Authorized Representative

\_\_\_\_\_  
Title

\_\_\_\_\_  
Dealership

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
City/Prov    Postal Code

\_\_\_\_\_  
Date

FORM B: DEALER TRAINING PROGRAM AGREEMENT

\* Applicant: Please submit this form to Assiniboine Community College after your coordination interview with your John Deere employer.

By this agreement, \_\_\_\_\_, John Deere Dealership agrees  
(Dealer Name)

to permit \_\_\_\_\_ to enter its establishment for the  
(Student Employee Name)  
purpose of securing on-the-job training and knowledge in the Agricultural Machinery Technician Trade as an apprentice technician.

1. The on-the-job training will extend from \_\_\_\_\_ through \_\_\_\_\_ with a minimum of \_\_\_\_\_ hours per week. At the end of this period, this agreement will be terminated.
2. The student employee will be supervised in the field by \_\_\_\_\_
3. Minimum wage must be paid during this time unless a higher wage is agreed upon between the student employee and employer.
4. The training during the DEALER TRAINING PROGRAM shall be progressive. It shall provide for the student employee's passing from one experience to another in order that the trainee may become exposed to different phases of the occupation. Common safety practices shall be adhered to.
5. All complaints shall be made to and adjusted by the coordinator.
6. The student employee may be dismissed for job failure at the employer's discretion.
7. No regular employee shall be laid off to make a place for a DEALER PROGRAM TRAINEE.
8. It shall be agreed that parties participating in this program will not discriminate in employment opportunities on the basis of race, color, sex, national origin, handicap or religion.
9. The student employee promises to abide by all implied and stated terms included in this memorandum. The student employee shall be bound during the laboratory period by Assiniboine Community College regulations. The student employee shall be responsible for his/her conduct while in training.

\_\_\_\_\_  
Employer's Signature

\_\_\_\_\_  
Student Employee's Signature

\_\_\_\_\_  
Instructor/Coordinator's Signature

**FORM C: COORDINATION VISIT FORM**

*\* Applicant: Please submit this form to Assiniboine Community College after your coordination interview with your John Deere employer.*

**STUDENT EMPLOYEE'S NAME:** \_\_\_\_\_

| <b>Appraisal of Student Employee:</b> (Circle description, which in your opinion best applies). |             |           |              |
|---|-------------|-----------|--------------|
| Appearance  | Untidy      | Careless  | Neat         |
| Relationship with other Employees   | Poor        | Fair      | Good         |
| Punctuality and Attendance  | Poor        | Fair      | Good         |
| Ability of Understanding Directions   | Poor        | Fair      | Good         |
| Ability to Express Self   | Poor        | Fair      | Good         |
| Judgment and Planning   | Poor        | Fair      | Good         |
| Initiative  | None        | Average   | Considerable |
| Ability to Accept Responsibility  | Poor        | Fair      | Good         |
| Punctuality Completing Assignments  | Poor        | Fair      | Good         |
| Accuracy and Reliability  | Poor        | Fair      | Good         |
| Employee's Knowledge of Basic Theory  | Poor        | Fair      | Good         |
| Employee's Interest in Job  | Indifferent | Satisfied | Ambitious    |
| Present Performance   | Poor        | Fair      | Good         |

Write appraisal of student employee indicating strong or weak points and any suggestions you have which might further his training.

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Supervisor's Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**JOHN DEERE TECH**

**FORM D: STUDENT'S END OF TERM APPRAISAL**

*\* Employer: Please submit this form to Assiniboine Community College prior to the student returning for training. Send with student or fax to the attention of School of Trades & Technology at (204) 725-8740*

Student Name \_\_\_\_\_ Program: John Deere TECH Year \_\_\_\_\_

Evaluator \_\_\_\_\_ Title \_\_\_\_\_

Please evaluate the student's performance in each of the following areas.

|                                      | Excellent | Above Average | Average | Needs Improvement | N/A |
|--------------------------------------|-----------|---------------|---------|-------------------|-----|
| 1. General personal appearance       |           |               |         |                   |     |
| 2. General hygiene                   |           |               |         |                   |     |
| 3. Punctuality                       |           |               |         |                   |     |
| 4. Follow instructions               |           |               |         |                   |     |
| 5. Enthusiasm                        |           |               |         |                   |     |
| 6. Adaptability                      |           |               |         |                   |     |
| 7. Initiative                        |           |               |         |                   |     |
| 8. Dependability                     |           |               |         |                   |     |
| 9. Follow-through                    |           |               |         |                   |     |
| 10. Works well with others           |           |               |         |                   |     |
| 11. Accepts criticism                |           |               |         |                   |     |
| 12. Ambition                         |           |               |         |                   |     |
| 13. Skills and knowledge acquisition |           |               |         |                   |     |
| 14. Skills and knowledge application |           |               |         |                   |     |
| 15. Confidentiality                  |           |               |         |                   |     |
| 16. Quantity of work                 |           |               |         |                   |     |
| 17. Quality of work                  |           |               |         |                   |     |
| 18. Neatness of work                 |           |               |         |                   |     |
| 19. Accuracy                         |           |               |         |                   |     |
| 20. Career potential                 |           |               |         |                   |     |
| 21. Marks                            |           |               |         |                   |     |

The above ratings represent my evaluation of the Student/Trainee under my supervision.

Training Supervisor \_\_\_\_\_ Date \_\_\_\_\_

The following signatures verify that the Student Appraisal Form has been reviewed and seen by the student involved.

The student's signature does not necessarily indicate that the student agrees with the opinions of the evaluator.

\_\_\_\_\_  
(Instructor/Coordinator Signature)

\_\_\_\_\_  
(Student's Signature)

Date \_\_\_\_\_

Student not available to sign appraisal sheet

## Tool List

Disclaimer: Assiniboine Community College will not be liable or responsible for promoting any tool company over another. It is the student's responsibility for pricing his/her own tools.

The tools you purchase do not have to be exactly as listed but similar. You can also discuss tool selections with your instructor prior to purchasing.

|    | <b>Tool Description</b>  | <b>Program<br/>ST-BM<br/>JD Part No.</b> |
|----|--|--|
| 1  | 19MM 1/2"drive Deep Socket   | PT18015                                  |
| 2  | 1/4 in. Drive Handle   | PT19983                                  |
| 3  | 1/4" Bit Holder  | PT19984                                  |
| 4  | Dead blow hammer, 2 lb.  | SW69000JD                                |
| 5  | Ball pein hammer, 20 oz.   | SW69028JD                                |
| 6  | Straight hammer, 21 oz.  | SW69200JD                                |
| 7  | 26 in. 10 Drawer Chest 4,358 cu. in. (Grey)  | TY19912                                  |
| 8  | 3/8-in. Drive Socket Set (8mm - 19mm)  | TY19924                                  |
| 9  | 1/2-in. Drive Metric Set (10mm to 19mm)  | TY19925                                  |
| 10 | 3/4-in. Drive Socket Set - SAE   | TY19926                                  |
| 11 | Universal Joint 1/4-in.  | TY19927                                  |
| 12 | Universal Joint 3/8-in.  | TY19928                                  |
| 13 | Universal Joint 1/2-in.  | TY19929                                  |
| 14 | 1/2-in. Drive Metric Set (20mm to 32mm)  | TY19944                                  |
| 15 | 6 in. Adjustable Wrench  | TY19945                                  |
| 16 | 8-in. Adjustable Wrench  | TY19946                                  |
| 17 | 12 in. Adjustable Wrench   | TY19948                                  |
| 18 | 3/8-in. Flex Handle  | TY19969                                  |
| 19 | 1/2 in. Flex Handle Ratchet  | TY19970                                  |
| 20 | 14 Pc. SAE Full Polished Combination Wrench Set  | TY19976                                  |
| 21 | 20 Pc. Metric Full Polished Combination Wrench Set   | TY19977                                  |
| 22 | 3 Pc. 3/8-in. Wobble Extension Set   | TY19978                                  |
| 23 | 3 Pc. 1/2-in. Wobble Extension Set   | TY19979                                  |
| 24 | 18-in. Adjustable Wrench   | TY19982                                  |
| 25 | 3/8-in. Socket Set   | TY19983                                  |
| 26 | 1/2-in. Dr Sockets 10pce (12 point)  | TY19984                                  |
| 27 | 3/4-in. Socket Set 10 pc   | TY19985                                  |
| 28 | 3/4-in. Metric Sockets   | TY19986                                  |
| 29 | 36 in. Heavy Duty Roadbox 8,279 cu. in. (Black)  | TY19988                                  |
| 30 | SAE Flare Nut Wrench Set-6 Point Flare Nut Wrench 1/2-in.-9/16-in., 1/4-in.-5/8-in., 3/8-in.-7/16-in., 5/8-in.-3/4-in. | TY19993                                  |
| 31 | Flare Nut Wrench Metric  | TY19994                                  |
| 32 | Allen Wrench Set SAE & Metric  | TY19995                                  |
| 33 | 1/2-in. Dr Deep Sockets 3/8-in.-1 1/4-in.  | TY24209                                  |
| 34 | 1/2-in. Dr Deep Sockets 13-24mm  | TY24210                                  |

**JOHN DEERE TECH**

|    | <b>Tool Description</b>   | <b>Program<br/>ST-BM<br/>JD Part No.</b> |
|----|---|--|
| 35 | Torx Bit Set  | TY24214                                  |
| 36 | Combination Wrenches 3/8-in. to 1 1/4-in.                       | TY24215                                  |
| 37 | Metric Comb. Wrenches 7mm-32mm                                  | TY24216                                  |
| 38 | 1/2-in. Dr Impact Socket Set 3/8-1 1/4-in.                      | TY24217                                  |
| 39 | 1/2-in. Dr Metric Impact Sockets (19-32mm)                      | TY24218                                  |
| 40 | 1 Pc. 1/2 in. Dr. Universal for Impact Sockets - Made in U.S.A. | TY24221                                  |
| 41 | 10 in Cobra Slip Joint Pliers                                   | TY24233                                  |
| 42 | 3/8-in. Dr. Hex Bit Set   | TY24357                                  |
| 43 | 3/8-in. Crow Foot   | TY24358                                  |
| 44 | 3/8-in. Crow Foot   | TY24359                                  |
| 45 | 3 pc Long Reach Plier Set                                       | TY24362                                  |
| 46 | 1/2-in. Dr Impact Deep Set 7/16-in.-1 1/16-in.                  | TY24363                                  |
| 47 | 1/2-in. Dr Impact Deep Set 19mm-32mm                            | TY24364                                  |
| 48 | 1/4-in.-Dr clip rail - Made in U.S.A.                           | TY24365                                  |
| 49 | 3/8-in.-Dr clip rail - Made in U.S.A.                           | TY24366                                  |
| 50 | 1/2-in. Dr clip rail - Made in U.S.A.                           | TY24367                                  |
| 51 | 7 in. Cobra Pliers  | TY24498                                  |
| 52 | 12 in Cobra Slip Joint Pliers                                   | TY24499                                  |
| 53 | 9 Pc. SAE Long Arm Ball Point Hex Key Set                       | TY24512                                  |
| 54 | 9 Pc. Metric Long Arm Ball Point Hex Key Set                    | TY24513                                  |
| 55 | Internal/External Light Duty Snap Ring Pliers                   | TY24515                                  |
| 56 | Standard Tip 8 in. HD Screwdriver                               | TY24799                                  |
| 57 | Phillips Head #3 6 in. HD Screwdriver                           | TY24802                                  |
| 58 | Standard Tip/Phillips Head HD John Deere 5 PC Screwdriver Set   | TY24803                                  |
| 59 | Ratcheting Screwdriver  | TY24806                                  |
| 60 | 6 Drawer Chest w/drop front 3,487 cu. in. (Black)               | TY24809                                  |
| 61 | 3/8-in. SAE Drive Flex Socket Set 7pc                           | TY24812                                  |
| 62 | 10 Pc. 3/8-in. Dr. Metric Flex Socket Set on Clip Rail          | TY24813                                  |
| 63 | 6-1/2 in. Cable Wire Shear                                      | TY25017                                  |
| 64 | Pry Bar   | TY25029                                  |
| 65 | 46-in. HD 10 Drawer Chest (Black)                               | TY25063                                  |
| 66 | 46-in. HD 12 Drawer Cabinet ( Black)                            | TY25064                                  |
| 67 | 7 pc. Combination Ratcheting Wrench Set (SAE)                   | TY25249                                  |
| 68 | 7 Pc. Combination Ratcheting Wrench Set (Metric)                | TY25250                                  |
| 69 | 6-Drawer Side Cabinet   | TY25362                                  |
| 70 | 41-in. 11-Drawer Chest  | TY25365                                  |
| 71 | 41-in. 12-Drawer Tool Cart                                      | TY25366                                  |
| 72 | 10 in. Knipex Plier Wrench                                      | TY25404                                  |
| 73 | 7 in. Knipex Plier Wrench                                       | TY25405                                  |
| 74 | 16 in. Cobra Wrench   | TY25406                                  |
| 75 | 6-1/4 in. Electricians Plier                                    | TY25407                                  |
| 76 | 5-1/2 in. Needle Nose Plier                                     | TY25408                                  |
| 77 | Screw Extractor Size 6  | TY25409                                  |

**JOHN DEERE TECH**

|     | <b>Tool Description</b>                   | <b>Program<br/>ST-BM<br/>JD Part No.</b> |
|-----|---|--|
| 78  | Screw Extractor Size 7                    | TY25410                                  |
| 79  | Screw Extractor kit, 5-piece              | TY25411                                  |
| 80  | 1/4-in. Drive SAE socket set, 21 piece    | TY25835                                  |
| 81  | 1/4-in. Drive metric socket set, 21 piece | TY25836                                  |
| 82  | 3/8-in. Drive SAE socket set, 20 piece    | TY25837                                  |
| 83  | 3/8-in. Drive metric socket set, 22 piece | TY25838                                  |
| 84  | 1/2-in. Drive SAE socket set, 25 piece    | TY25839                                  |
| 85  | 1/2-in. Drive metric socket set, 25 piece | TY25840                                  |
| 86  | Pry Bar                                   | TY26148                                  |
| 87  | Pry Bar                                   | TY26149                                  |
| 88  | Pry Bar                                   | TY26150                                  |
| 89  | .0015"-.030" Feeler Gauge Set             | PM000AA                                  |
| 90  | Spark Plug Gauge                          | PM000K                                   |
| 91  | Bent Feeler Gauge                         | PM000M                                   |
| 92  | Metric Feeler Gauge                       | PM00MM25                                 |
| 93  | A/C Service Wrench                        | PM1111                                   |
| 94  | Engineer's Hammer 3 lbs                   | PM1434G                                  |
| 95  | Small Mirror                              | PM2372                                   |
| 96  | Magnetic pickup tool                      | PM2375                                   |
| 97  | 4" Vice Grips with cutter                 | PM277WR                                  |
| 98  | 6" Vise Grips Needle Nose                 | PM286LN                                  |
| 99  | 10" Vise Grip Pliers w/Cutter             | PM292WR                                  |
| 100 | Ignition Wrench Set 7/32" to 3/8"         | PM3200D                                  |
| 101 | Tappet Wrench Set 3/8" - 3/4"             | PM3400G                                  |
| 102 | Tube Flaring and Cutting Set              | PM349                                    |
| 103 | 14" Flat Nose Snap Ring Pliers wide       | PM364A                                   |
| 104 | 14" Flat Nose Snap Ring Pliers narrow     | PM365                                    |
| 105 | Puller Set - Bolt Grip                    | PM4205A                                  |
| 106 | Puller Set - Jaw Type                     | PM4277                                   |
| 107 | Drag Link Socket                          | PM5244                                   |
| 108 | 3/8" to 1/2" Adaptor                      | PM5253                                   |
| 109 | 1/2" to 3/8" Adaptor                      | PM5254                                   |
| 110 | 3/8" to 1/4" Adaptor                      | PM5255                                   |
| 111 | 1/4" to 3/8" Adaptor                      | PM5256                                   |
| 112 | 1/2" to 3/4" Adaptor                      | PM5653                                   |
| 113 | 1/2" Torque Wrench 250 lbs.               | PM6014                                   |
| 114 | 1/4 in. Torque Wrench                     | PM6062A                                  |
| 115 | 3/8" Drive Torque Wrench                  | PM6064A                                  |
| 116 | 3/8" Dr Impact Socket Set 1/4"-3/4"       | PM72102                                  |
| 117 | Screw Starter                             | PM9866                                   |

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