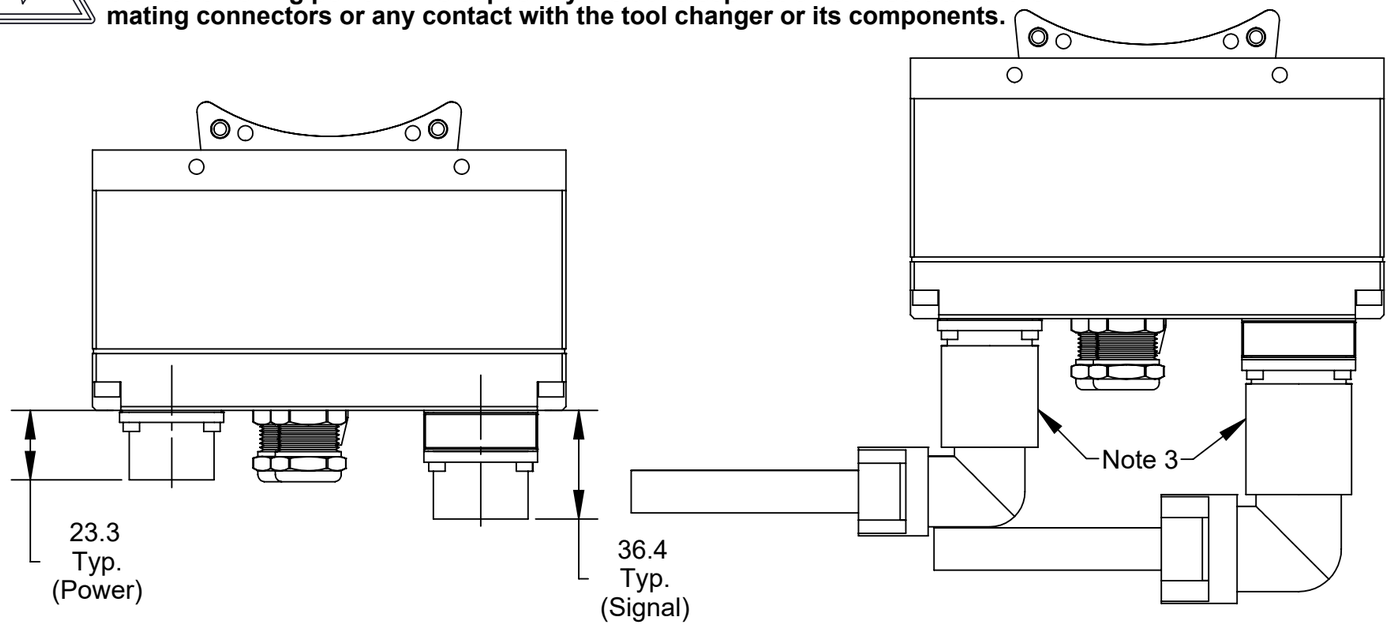
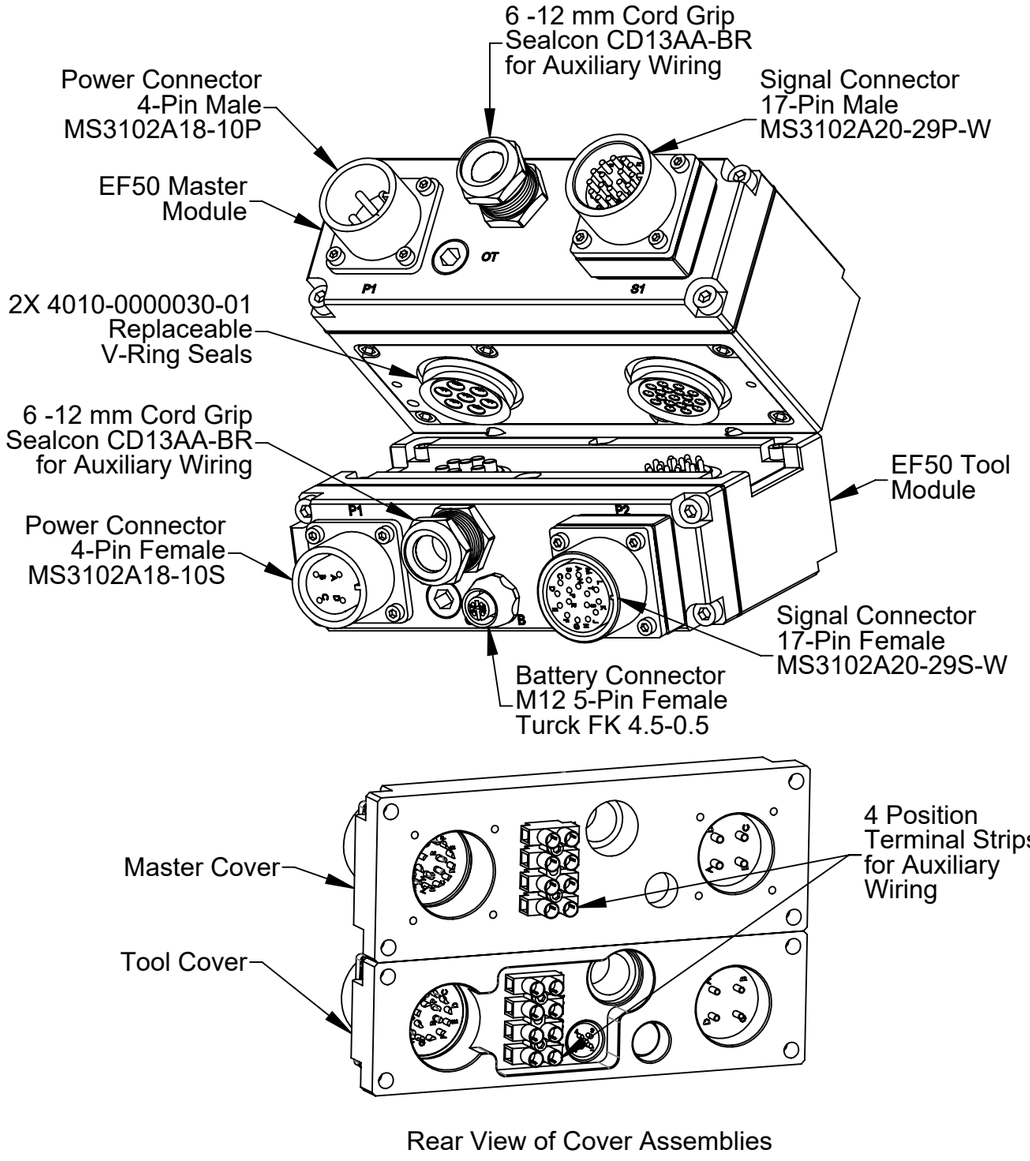
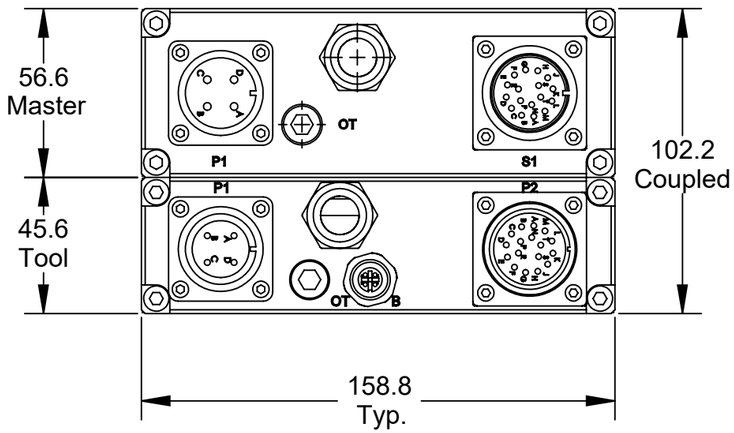
| Rev. | Description | Initiator | Date |
|---|---|---|---|
| 04 | ECO 19459: Updated drawing for part changes to EF50 Tool Module. | TBC | 11/16/2020 |

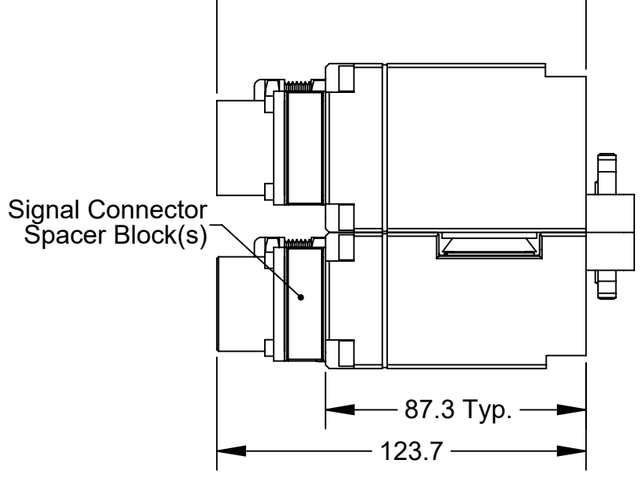
## "DANGER!" - Electrical Shock Hazard

**This module has a Voltage of 50V or greater, NO contact should be attempted before removing power. This especially includes separation or insertion of the mating connectors or any contact with the tool changer or its components.**







Rear View of Cover Assemblies

Notes:
1. Do not couple or uncouple the servo modules unless electrical power has been disconnected and discharged both upstream and downstream from the modules.
2. Do not service with power applied to contacts.
3. Right angle connectors shown for reference only (not supplied).
4. EF50 Servo Module Motor Current Rating : 13 Amp, 500VAC/700VDC Max.
5. EF50 Servo Module Encoder Current Rating : 3 Amp, 200VAC/30VDC Max.

NOTES: UNLESS OTHERWISE SPECIFIED.

DO NOT SCALE DRAWING. ALL DIMENSIONS ARE IN MILLIMETERS.

3rd ANGLE PROJECTION


ATI INDUSTRIAL AUTOMATION

*1031 Goodworth Drive, Apex, NC 27539, USA*
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DRAWN BY: A. Takla, 02/16/17

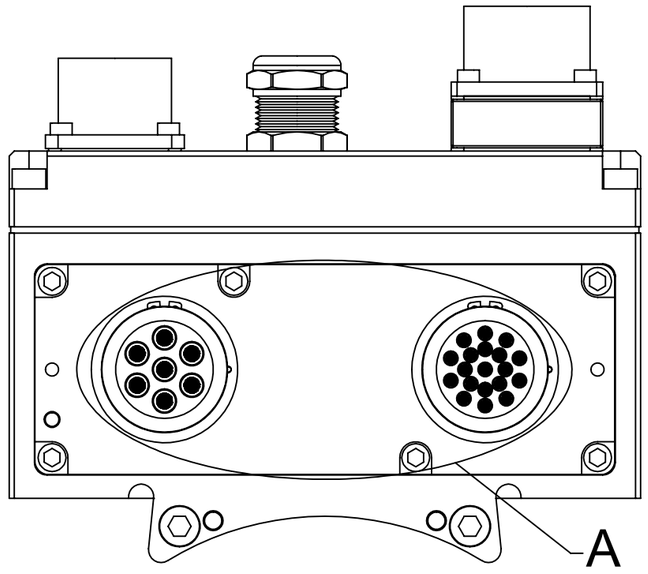
CHECKED BY: W. Berrocal, 03/01/17
F. Alonso, 03/03/17

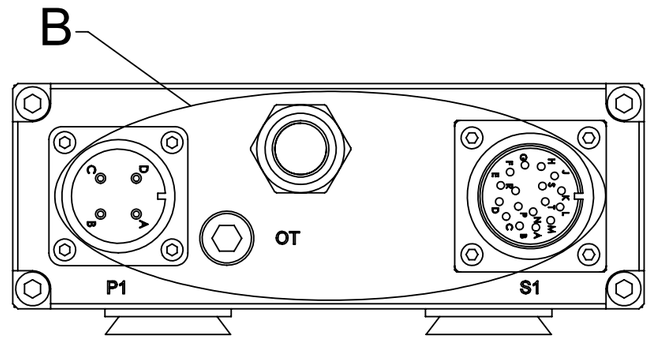
PROJECT # 170216-1 SHEET 1 OF 4

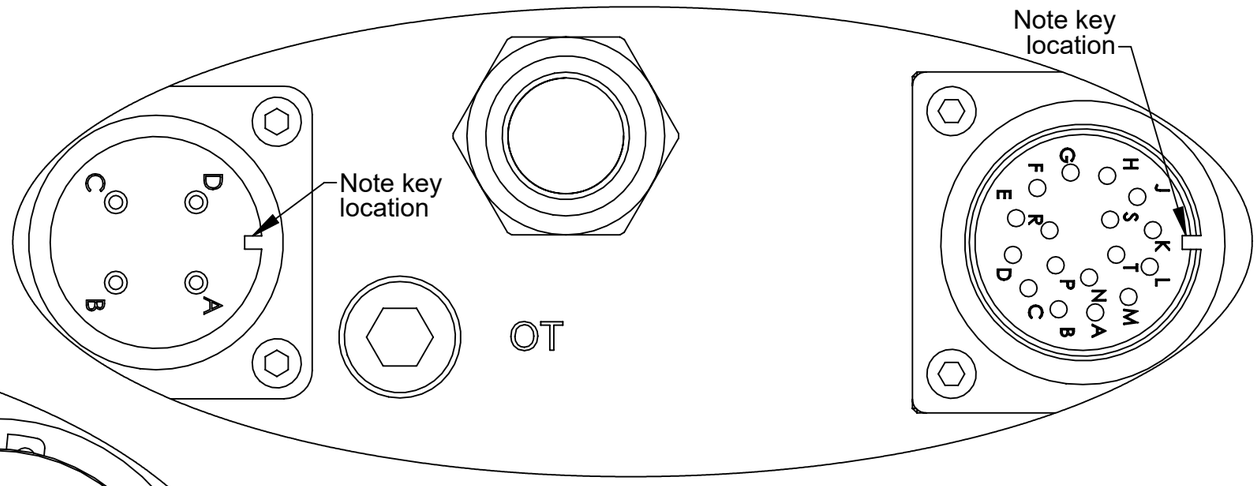
TITLE: EF50 Servo Module Customer Drawing

| SCALE | SIZE | DRAWING NUMBER | REVISION |
|---|---|---|---|
| 1:2 | B | 9630-20-EF50 | 04 |

# EF50 MASTER MODULE




DETAIL B
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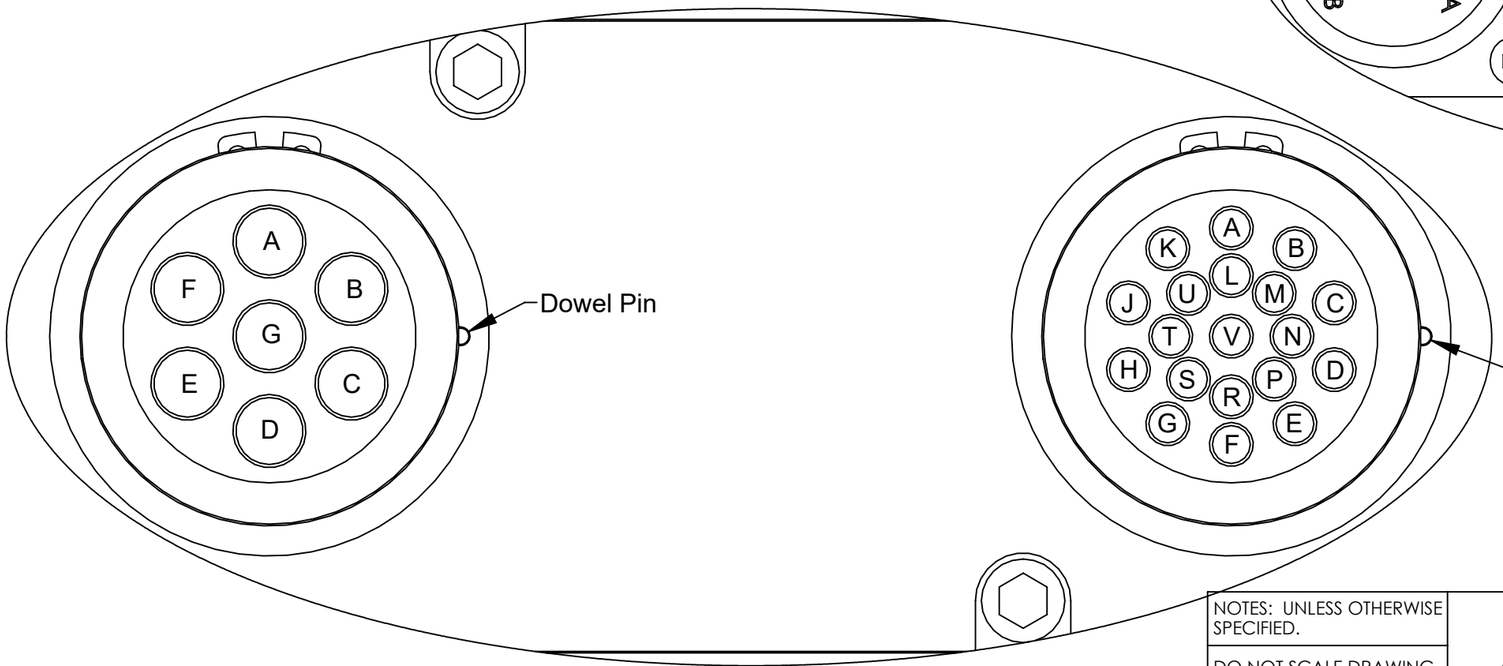


DETAIL A
SCALE 2 : 1

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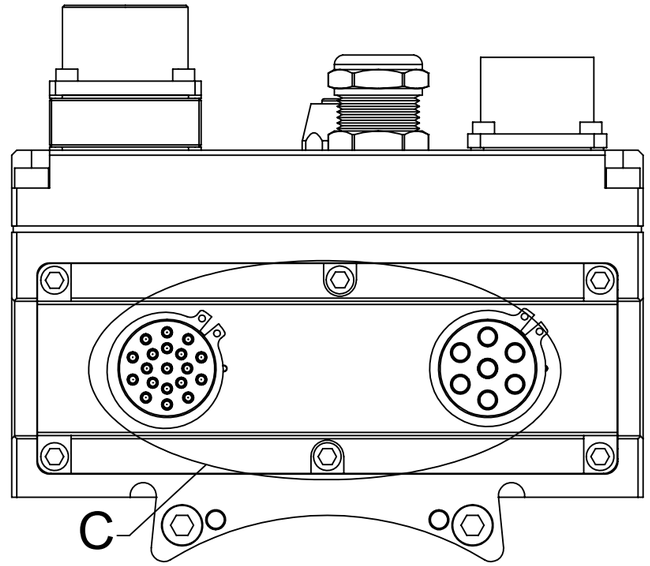
F. Alonso, 03/03/17

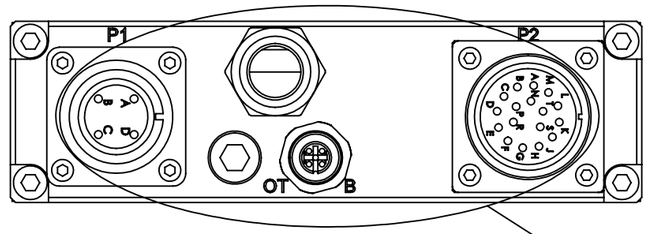
PROJECT # 170216-1 SHEET 2 OF 4

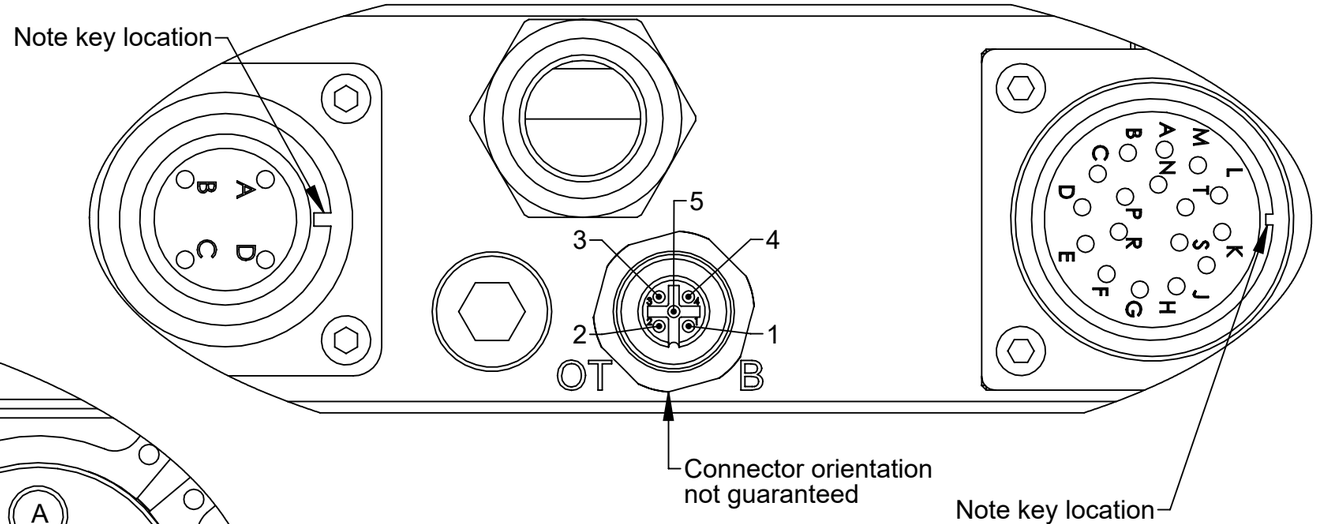
TITLE: EF50 Servo Module Customer Drawing

| SCALE | SIZE | DRAWING NUMBER | REVISION |
|---|---|---|---|
| 1:2 | B | 9630-20-EF50 | 04 |

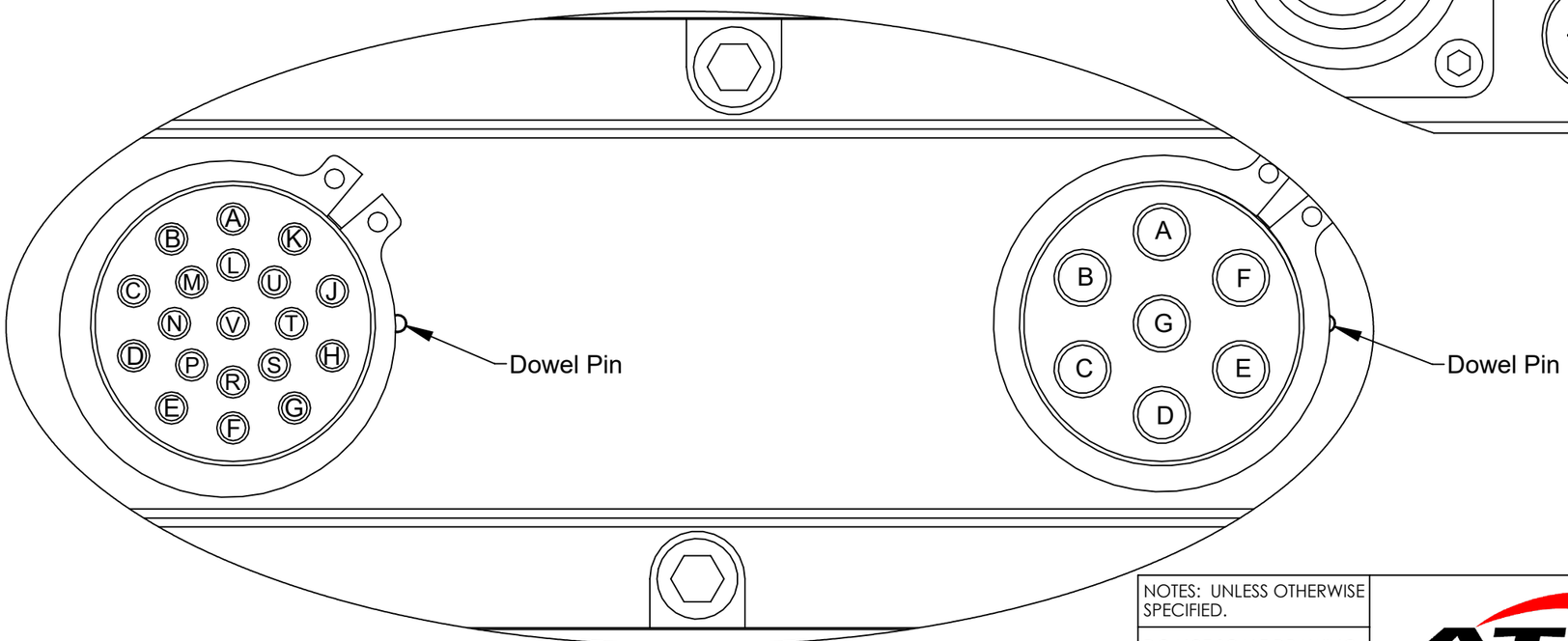
# EF50 TOOL MODULE




DETAIL D
SCALE 1.5 : 1




DETAIL C
SCALE 2 : 1

NOTES: UNLESS OTHERWISE SPECIFIED.

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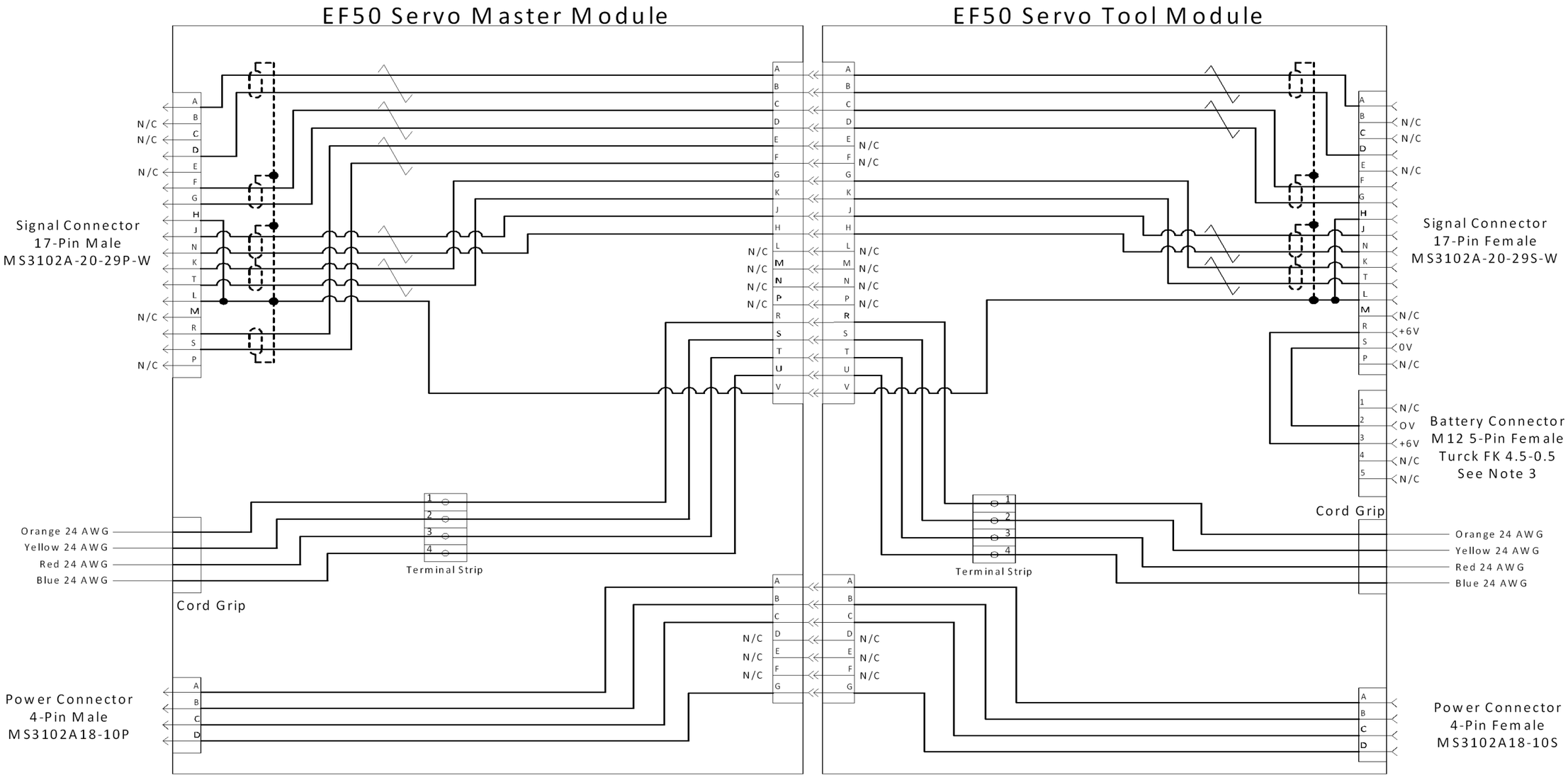
F. Alonso, 03/03/17

PROJECT # 170216-1 SHEET 3 OF 4

TITLE: EF50 Servo Module Customer Drawing

| SCALE | SIZE | DRAWING NUMBER | REVISION |
|---|---|---|---|
| 1:2 | B | 9630-20-EF50 | 04 |




Notes:
1. A 4-Position terminal strip is provided on the Master and Tool for customer specific wiring.
2. The Orange, Yellow, Red, and Blue 24AWG Wires are included with the module but can be removed at the discretion of the customer.
3. A remotely mounted servo battery backup box is required to maintain the servo settings during periods when the tool is not in use. EF50 Tool features a 5-Pin Female M12 Connector that is compatible with ATI Servo Backup Battery Box 9005-20-2374 via an M12 5-Pin Male / Female Extension Cable. Customer is responsible for battery box cabling, cables can be supplied by ATI at customer request.

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PROJECT # 170216-1 SHEET 4 OF 4

TITLE: EF50 Servo Module Customer Drawing

| SCALE | SIZE | DRAWING NUMBER | REVISION |
|---|---|---|---|
| 1:2 | B | 9630-20-EF50 | 04 |