NOTES:

A. PROPORTIONAL CONTROL VALVE OPERATION.
1. WARNING DO NOT CONNECT VALVE COIL DIRECTY TO BATTERY/POWER SUPPLY VOLTAGE.
2. OPERATION TO BE PERFORMED WITH ONLY TWINDISC CONTROL SYSTEMS OR MODULES.

B. MANUAL DIRECTIONAL CONTROL VALVE OPERATION.
1. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PUSH TO ENGAGE PRIMARY CLUTCH.
2. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PULL TO ENGAGE SECONDARY CLUTCH.

C. MANUAL DIRECTIONAL CONTROL VALVE MODE SWITCH.
1. SWITCH IS NORMALLY CLOSED WHEN MANUAL DIRECTIONAL CONTROL VALVE IS IN THE CENTERED POSITION AND OPEN WHEN LEVER IS ACTUATED FROM CENTERED POSITION
2. CURRENT = 20 AMPS MAX.
3. FOR WIRING SCHEMATIC, REFER TO CONTROL MODULE DRAWING.

D. PRESSURE REGULATOR ADJUSTMENT.
1. REMOVE 1002144 CAP AND LOOSEN 1002145 NUT
2. CLOCKWISE ROTATION OF 1020939A PISTON INCREASES PRESSURE. COUNTER CLOCKWISE DEGREASES PRESSURE.
3. LOCK PISTON IN PLACE USING JAM NUT AND REPLACE CAP.

INSTALLATION DATA:

E. UNLESS OTHERWISE SPECIFIED, ALL BOLTS ARE TO BE "AS RECEIVED" FROM BINS WITH ONLY LIGHT RUST PREVENTATIVE OIL ON THEM AND ARE TO BE TORQUED PER S574

F. TORQUE MOUNTING BOLTS TO 40.7-48.8Nm. "AS RECEIVED"

G. APPLY ANAEROBIC SEALANT MEETING MA908 (LOCTITE 242) TO SPEED SENSOR THREADS. ASSEMBLE SENSOR UNTIL CONTACTING TIP OF GEAR TOOTH, AND THEN BACK OUT SENSOR ONE FULL TURN. USE JAM NUT TO SECURE SENSOR POSITION.
TOOTH COUNT: 45
TIGHTENING TORQUE: 5 Nm

(A) H. ASSEMBLE SENSOR UNTIL CONTACTING TIP OF GEAR TOOTH, AND THEN BACK OUT SENSOR TWO FULL TURNS. USE JAM NUT TO SECURE SENSOR POSITION.
TOOTH COUNT: 64 (MGX-5136 SERIES)
68 (MGX-5146 SERIES)
TIGHTENING TORQUE: 5 Nm

APPLICABLE MODELS AND ASSEMBLY INSTRUCTIONS:

MODEL MGX-5136A PER 1025600
ASSEMBLY INSTRUCTIONS: S570DX

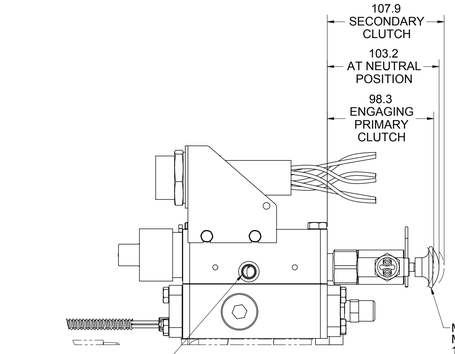
MODEL MGX-5136RV PER 1027556
ASSEMBLY INSTRUCTIONS: S570DX

MODEL MGX-5136SC PER 1027445
ASSEMBLY INSTRUCTIONS: S570DW

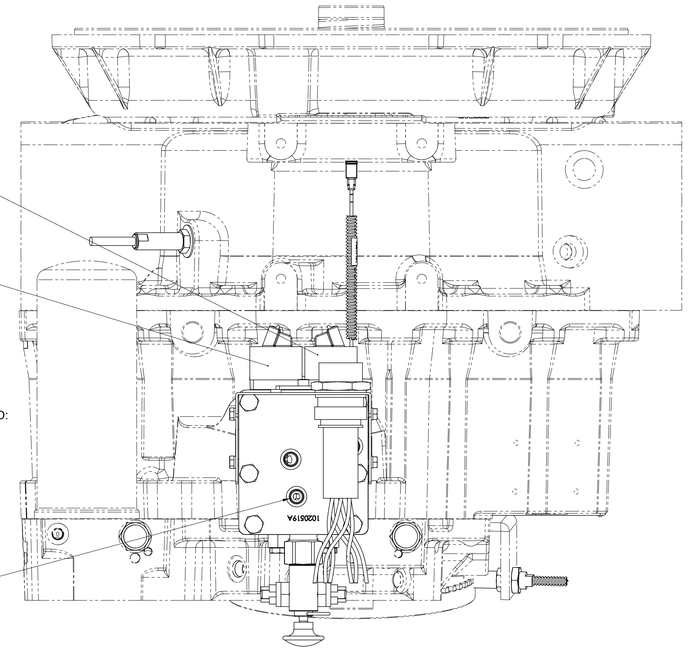
(A) MODEL MGX-5146A PER 1027596
ASSEMBLY INSTRUCTIONS: S570EA

MODEL MGX-5146RV PER 1027440
ASSEMBLY INSTRUCTIONS: S570EA

MODEL MGX-5146SC PER 1027661
ASSEMBLY INSTRUCTIONS: S570EB

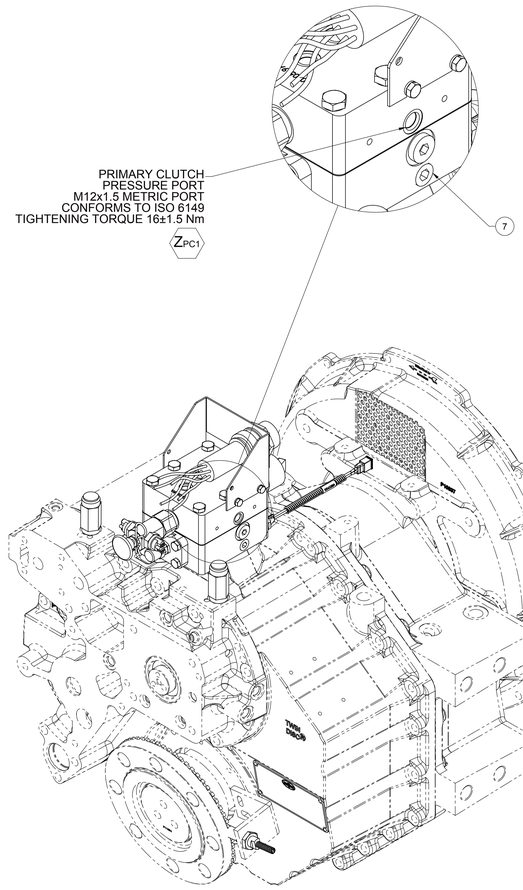


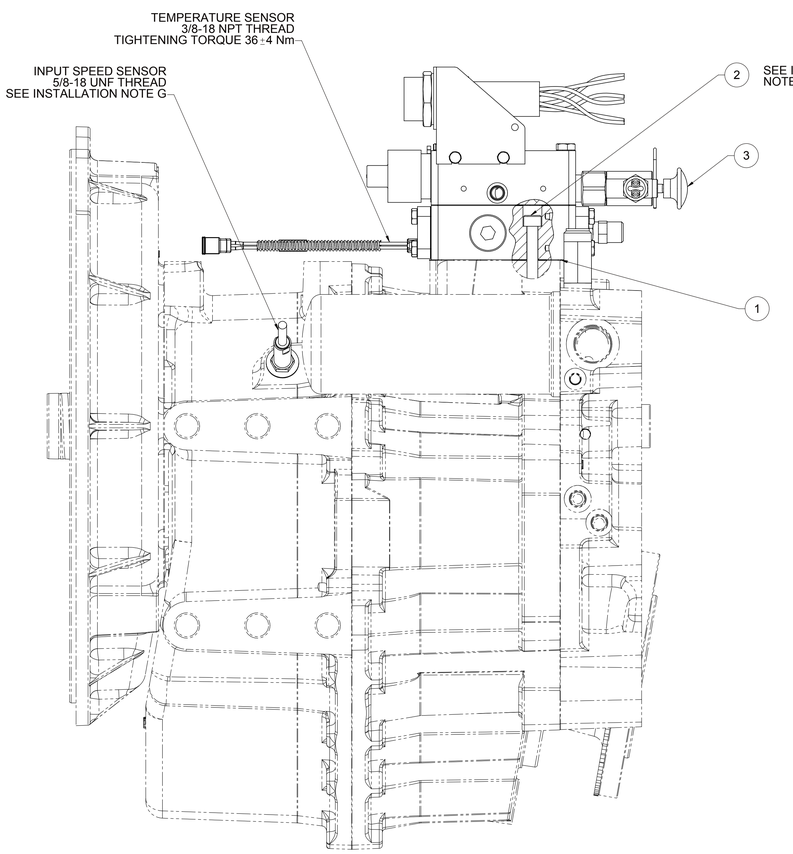
SECTION A-A

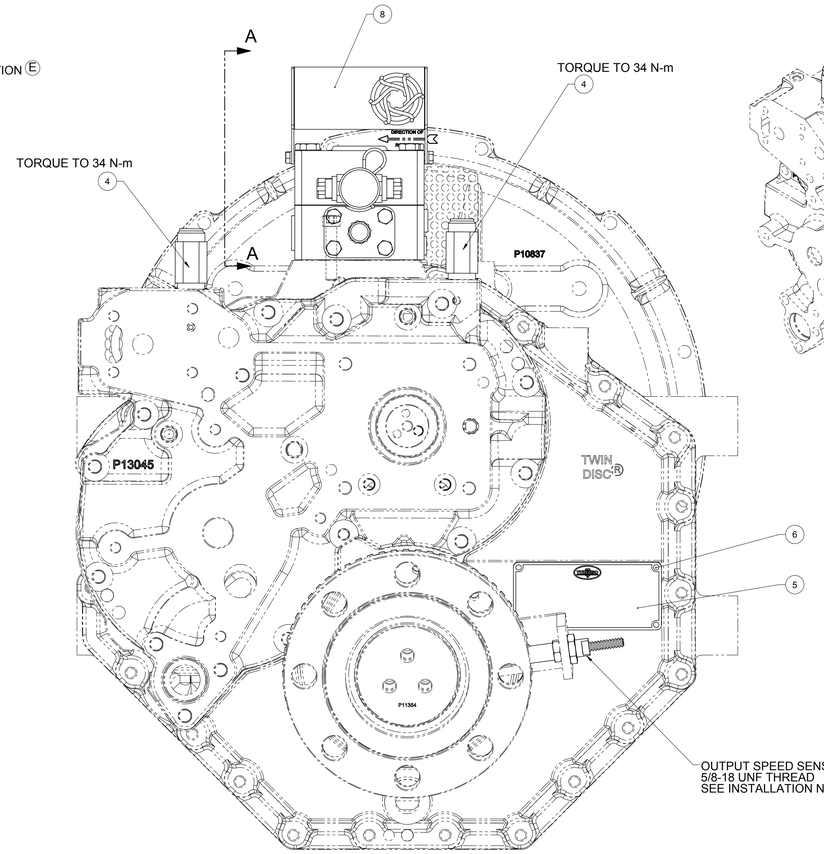


BILL OF MATERIAL			
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	B1337J	GASKET
2	4	MA1052U	SCREW, SOCKET HEAD
(A) 3	1	1021658AB (BOM 46453)	VALVE ASSY
4	2	PM12348	VALVE
5	1	P11954	PLATE, IDENTIFICATION
6	4	M422B	SCREW, DRIVE
7	1	M2051S	PLUG, PIPE
(A) 8	1	1025042K	GROUP, CONTROL

(B)







REV	CHANGE NO	DATE
B	ECNWF-23498	10/01/2013

FIRST USE ASSEMBLY: 1025600	WEIGHT: kg	THIRD ANGLE PROJECTION	MATERIAL:
FIRST USE MODEL: MGX-5136A	lbs. kg-m		
SIMILAR TO: 1025673			HEAT TREAT:
METRIC		UNLESS OTHERWISE SPECIFIED MACHINED DIMENSIONS X ±0.05 .XX ±0.25 .XXX ±0.13 ALL ANGULAR TOLERANCES ±1° GEOMETRIC TOLERANCING PER ASME Y14.5M 1994	

NOTICE: THIS PRINT CONTAINS PROPRIETARY INFORMATION AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO TWIN DISC INTERESTS OF TWIN DISC, INCORPORATED
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DESCRIPTION: GROUP, CONTROL
GP W/ EC300 ADAPTER HARNESS

DATE:	TWIN DISC
08/12/2011	RACINE, WI 53403 - USA
SCALE: 1:2	
DRAWN BY: KML	1025691
CHECKED BY: JMF	
APPROVED BY: ALC	SIZE: A0 SHEET: 1 OF 1 REV: B

J I H G F E D C B A