

- 1 INPUT GROUP REFERENCE PLANE
2 PTO ADAPTER MOUNTING FACE
3 LEFT MOUNTING BRACKET FACE
4 RIGHT MOUNTING BRACKET FACE

- NOTES:
A. PROPORTIONAL CONTROL VALVE OPERATION
1. WARNING DO NOT CONNECT VALVE COIL DIRECTLY TO BATTERY/POWER SUPPLY VOLTAGE.
2. OPERATION TO BE PERFORMED WITH ONLY TWIN DISC 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 AMP MAX.
3. FOR WIRING SCHEMATIC, REFER TO CONTROL MODULE DRAWING.
D. AL LPOINTS AVAILABLE FOR TESTING ARE CODED
E. REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND TEMPERATURE ALARM LEVELS.

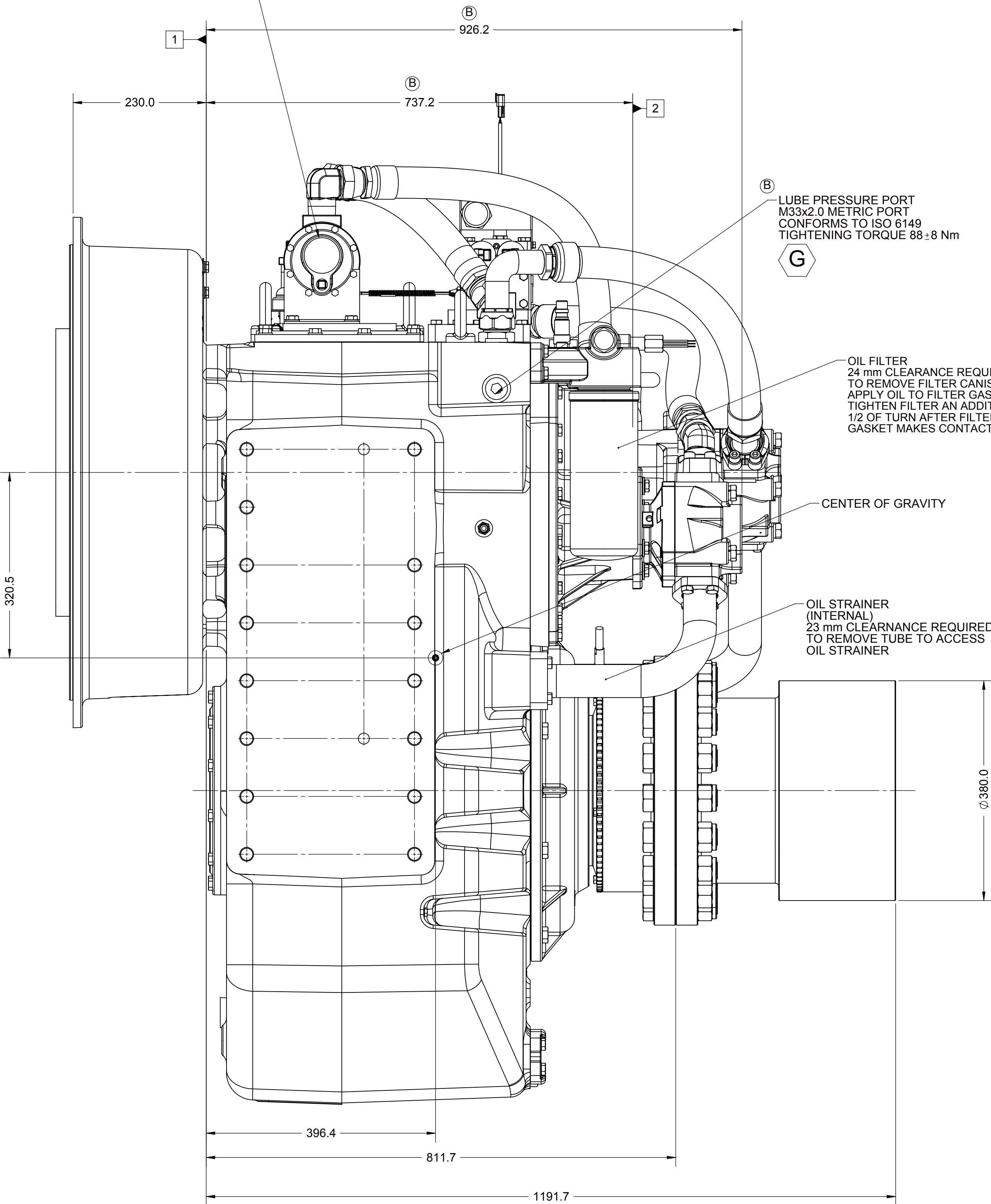
16 x Ø 13.50
EQUALLY SPACED
QUALITY SCREWS PER ISO 898-1
AND TORQUE PER S574 OR
SERVICE MANUAL VALUES

FLYWHEEL OUTLINE MUST
CONFORM TO SAE J620
NO. 530

12 X Ø17.00 THRU
EQUALLY SPACED
USE 8/8 PROPERTY CLASS
QUALITY SCREWS PER ISO 898-1
AND TORQUE PER S574 OR
SERVICE MANUAL VALUES

SECTION A-A

WATER INLET FOR HEAT EXCHANGER
2 -11 1/2 NPTF THREAD



LUBE (AUXILIARY)
M27x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 75:7 Nm
TEMPERATURE PORT
M27x2.0 METRIC PORT
CONFORMS TO ISO 6149
(AFTER HEAT EXCHANGER)
TIGHTENING TORQUE 75:7 Nm
LUBE PRESSURE PORT
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88:8 Nm

SECONDARY CLUTCH (FIRST)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm

INPUT SPEED SENSOR (PORT
5/8-18UNF THD.)
TARGET WHEEL: 59 TEETH

CENTER OF GRAVITY

OUTPUT SHAFT

MAIN PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm

PRIMARY CLUTCH (FIRST)
PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16:1.5 Nm

SEE NOTE "B"

LUBE (AUXILIARY)
M18x1.5 METRIC PORT
CONFORMS TO ISO 6149
(AUXILIARY LUBE SUPPLY
INLET. SEE HYDRAULIC
DIAGRAM.)
TIGHTENING TORQUE 24:2 Nm

INPUT SHAFT

OIL FILTER
24 mm CLEARANCE REQUIRED
TO REMOVE FILTER CANISTER.
APPLY OIL TO FILTER GASKET.
TIGHTEN FILTER AN ADDITIONAL
1/2 OF TURN AFTER FILTER
GASKET MAKES CONTACT.

OUTPUT SPEED
SENSOR (ABRACKET)
FOR USE WITH OPTIONAL
TRAILING PUMP
54 mm CLEARANCE REQUIRED
TO REMOVE OIL STRAINER.

R.H. ENGINE ROTATION
DRIVEN THRU PRIMARY

OUTPUT SHAFT

M12X1.75 - 6H 10.0
OIL STRAINER
FOR USE WITH OPTIONAL
TRAILING PUMP
54 mm CLEARANCE REQUIRED
TO REMOVE OIL STRAINER.

PRESSURE PORT
M14 X 1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm
FOR USE WITH OPTIONAL
TRAILING PUMP

AUXILIARY LUBE SUCTION PORT
FLANGE SIZE 51 PER ISO 6162 (CODE 61)
M12x1.75, 30.0 DEEP
OIL DRAIN
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88:8 Nm
15 mm CLEARANCE REQUIRED
TO REMOVE PLUG

3 EYEBOLTS FOR LIFTING MARINE
TRANSMISSION ONLY. EQUALIZE LOAD
ON ALL THREE EYEBOLTS TO LIFT
MARINE TRANSMISSION.

ENGAGES SECONDARY
SHAFT CLUTCH
SEE NOTE "A"

ENGAGES PRIMARY
SHAFT CLUTCH
SEE NOTE "A"

LUBE PRESSURE PORT
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88:8 Nm

TEMPERATURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
(BEFORE HEAT EXCHANGER)
TIGHTENING TORQUE 20:2 Nm
INSTALL TEMPERATURE
INDICATING SWITCH
SENSOR BULB HERE

SECONDARY CLUTCH (SECOND)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm

LUBE PRESSURE PORT
M22x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 54:5 Nm

PRIMARY CLUTCH (SECOND)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm

MAIN PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16:1.5 Nm
CONNECT OIL PRESSURE
GAUGE LINE HERE.

SHAFT BRAKE CLUTCH
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm

PRIMARY CLUTCH (FIRST)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm

SEE INPUT GROUP DRAWING
1027384B/1027384C FOR ADDITIONAL
INSTALLATION INFORMATION

BREATHER
AND OIL FILL
OIL LEVEL GAGE

SEE INSTRUCTION MANUAL
1027864 FOR INSTALLATION
REQUIREMENTS, OPERATING CONDITIONS
AND OPERATING LIMITATIONS.
SEE NOTE "A"

SECTION B-B

MAIN PRESSURE PORT
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88:8 Nm

WATER OUTLET FOR HEAT EXCHANGER
2 -11 1/2 NPTF THREAD

SEE NOTE "C"

MAIN PRESSURE PORT
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88:8 Nm

LUBE (AUXILIARY)
M18x1.5 METRIC PORT
CONFORMS TO ISO 6149
(AUXILIARY LUBE SUPPLY
INLET. SEE HYDRAULIC
DIAGRAM.)
TIGHTENING TORQUE 24:2 Nm

INPUT SHAFT

OIL FILTER
24 mm CLEARANCE REQUIRED
TO REMOVE FILTER CANISTER.
APPLY OIL TO FILTER GASKET.
TIGHTEN FILTER AN ADDITIONAL
1/2 OF TURN AFTER FILTER
GASKET MAKES CONTACT.

OUTPUT SPEED
SENSOR (ABRACKET)
FOR USE WITH OPTIONAL
TRAILING PUMP
54 mm CLEARANCE REQUIRED
TO REMOVE OIL STRAINER.

R.H. ENGINE ROTATION
DRIVEN THRU PRIMARY

OUTPUT SHAFT

M12X1.75 - 6H 10.0
OIL STRAINER
FOR USE WITH OPTIONAL
TRAILING PUMP
54 mm CLEARANCE REQUIRED
TO REMOVE OIL STRAINER.

PRESSURE PORT
M14 X 1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20:2 Nm
FOR USE WITH OPTIONAL
TRAILING PUMP

M24 X 3.0 THD. 30.0 DEEP
USE ALL HOLES FOR MOUNTING UNIT
USE 10.9 PROPERTY CLASS QUALITY
CAPSCREWS ISO 898-1 AND TORQUE TO
S574 OR SERVICE MANUAL VALUES

EQUIPMENT SHOWN:
- MGX-5600 PER 1027251 ASSEMBLY
- SAE J400/SAE 530 CERTA CP-R-520-HR COUPLING
- GP VALVE WITH EC300 ADAPTER HARNESS
- 1018650 COMPANION FLANGE ASSY
- M1959AQ MOUNTED HEAT EXCHANGER
- 1027227 INTERNAL SHAFT BRAKE GROUP

FIRST USE ASSEMBLY: 1027251	WEIGHT: 3563.6 lb	DATE: 10/24/2012	REV: 1
FIRST USE MODEL: 1027251	SCALE: 1:5	THIRD ANGLE PROJECTION	DATE: 10/24/2012
SIMILAR TO: 1027251	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES (PARENETS)	DESCRIPTION: INSTALLATION MGX-5600	REV: 1
METRIC		TWIN DISC, INCORPORATED	
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APPROVED BY: ALC		APPROVED BY: ALC	
SHEET: 1 OF 1		SHEET: 1 OF 1	