



WEDDLEINDUSTRIES.COM

# TRANS OIL CIRCULATION SYSTEM, PLUMBING AND ELECTRICAL INSTALLATION NOTES

## GENERAL NOTES

Incorporating a transmission/transaxle cooling system involves two systems:

1. Electrical System
2. Oil Plumbing System

See the attached diagrams.

## ELECTRICAL SYSTEM NOTES

- We highly recommended running the load carrying circuits for the oil pump and cooling fan through a 4-prong relay. Use the temperature switches only to activate these relays.
- It is best to run two switches: one for oil temperature to turn on the oil pump and one inline to turn on the cooling fan. If the oil cooler has good airflow the fan might not have to cycle very often if at all.
- A 25-amp circuit breaker is recommended to cover the initial amperage spike when these accessories switch on. Once running, their power draw should only be in the 5-amp range.

## OIL PLUMBING SYSTEM NOTES

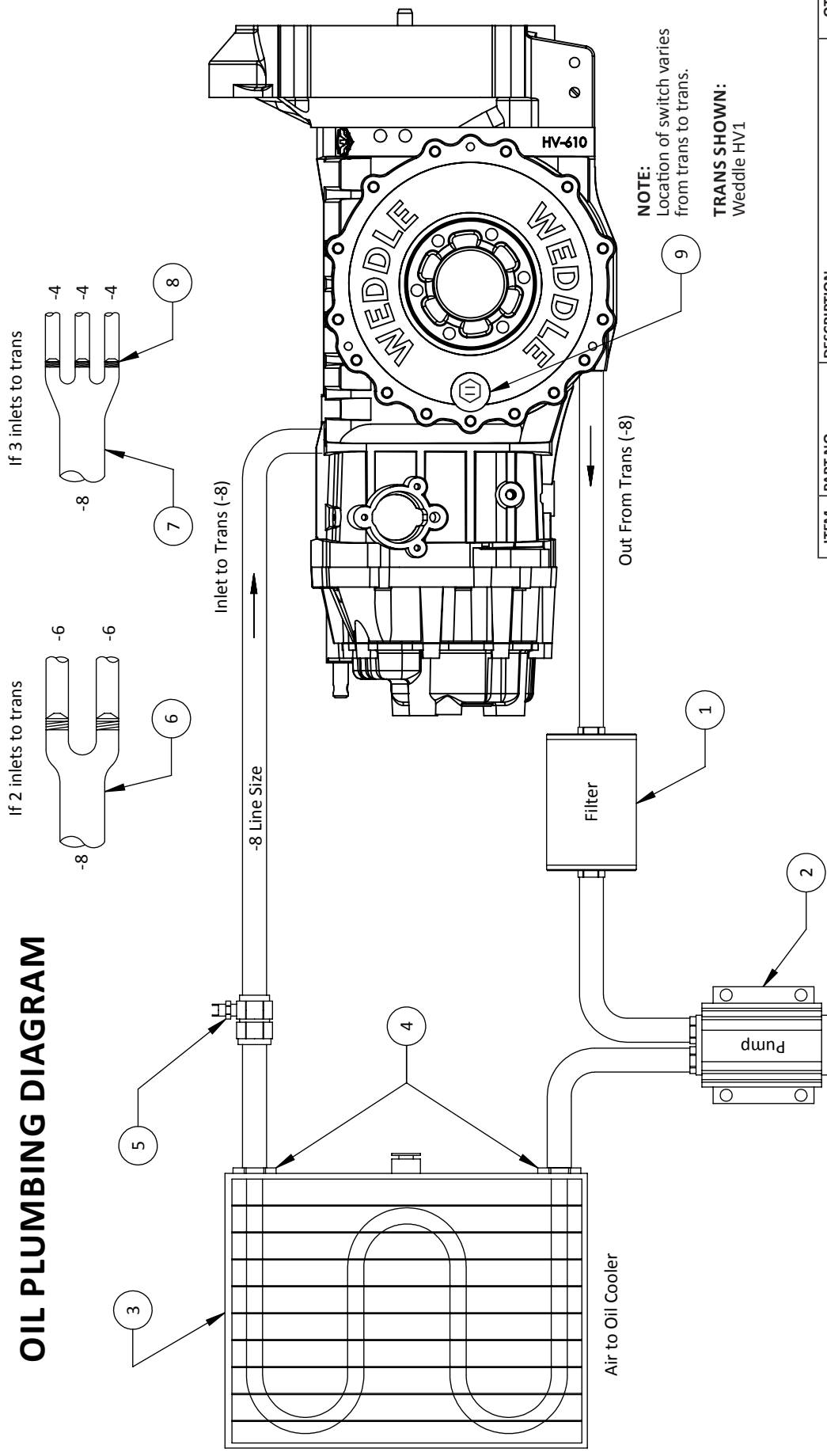
- Starting an oil pump when the oil is cold and thick is very hard on pump motors. We recommend using a temperature switch that will turn the pump on when the oil reaches 150°F to eliminate this extra load on the pump motor.
- A Weddle Industries gear drive pump will “pull” oil to a height of about 12” above the trans once it has been primed. To maximize the life of your pump, we recommend mounting the pump as close to the oil level of the trans as possible or lower.
- We recommend running an -8AN line from the trans to a filter, through the pump and into the cooler.
- If there is only one return line to the trans, keep the return line -8AN.
- If the trans has two return inlets, step down to a -6AN.
- If the trans has three inlets step your lines down to a -4AN.
- See oil-plumbing diagram for part numbers of splitters and AN reducers.

## IF YOU HAVE ANY QUESTIONS

Please call us at: **(805) 562-8600** or email us at: **INFO@WEDDLEINDUSTRIES.COM**

Updated 01/09/14

# OIL PLUMBING DIAGRAM

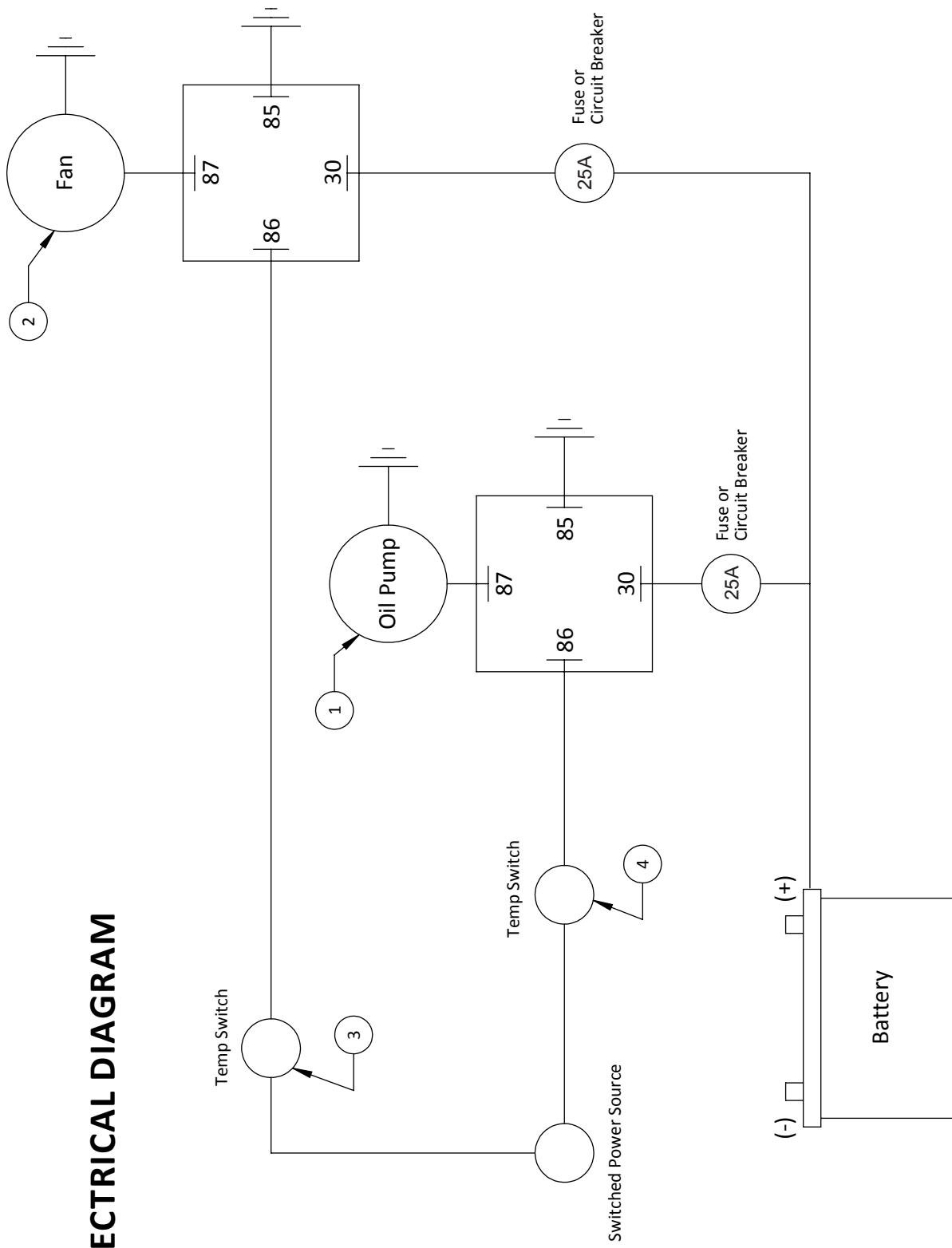


ITEM	PART NO.	DESCRIPTION	QTY
1	9-FILTER1	Weddle Inline Filter (AN -8)	1
2A	9-PUMP1	12V Electric Oil Pump (diaphragm type)	1
2B	9-PUMP3	12V Electric Oil Pump (gear type)	1
3	9-CTC1	Oil Cooler with Low Profile Fan Pack	1
4	9-CTC-AN8	M22 x AN8 adaptor fitting	2
5	9-CTC-TS	188°F Thermoswitch (AN -8, Inline)	1
6	9-MANIFOLD 1x2	1 into 2 billet manifold	1
7	9-MANIFOLD 1x3	1 into 3 billet manifold	1
8	H-AN6x4SR	AN -6 to -4 Swivel Reducer	3
9	9-SWITCH34	150°F Thermoswitch (3/4" -16 thread)	1

Drawing No:  
 Drawing Name: Oil Plumbing Diagram  
 Drawn By: DS November 26, 2013  
 Revised:

**WEDDLE INDUSTRIES**  
 7200 Hollister Ave, Suite C  
 Goleta, CA 93117  
 Ph 805-562-8600 • Fax 805-562-8661  
 info@weddleindustries.com

# ELECTRICAL DIAGRAM



ITEM	PART NO.	DESCRIPTION	QTY
1A	9-PUMP1	12V Electric Oil Pump (diaphragm type)	1
1B	9-PUMP3	12V Electric Oil Pump (gear type)	1
3	9-CTC1	Oil Cooler with Low Profile Fan Pack	1
3	9-CTC-TS	188°F Thermostat (AN -8, Inline)	1
4	9-SWITCH34	150°F Thermostat (3/4" -16 thread)	1

Drawing No: Relay Wiring Diagram  
 Drawing Name: DS November 26, 2013  
 Drawn By: DS November 26, 2013  
 Revised:

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 Goleta, CA 93117  
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