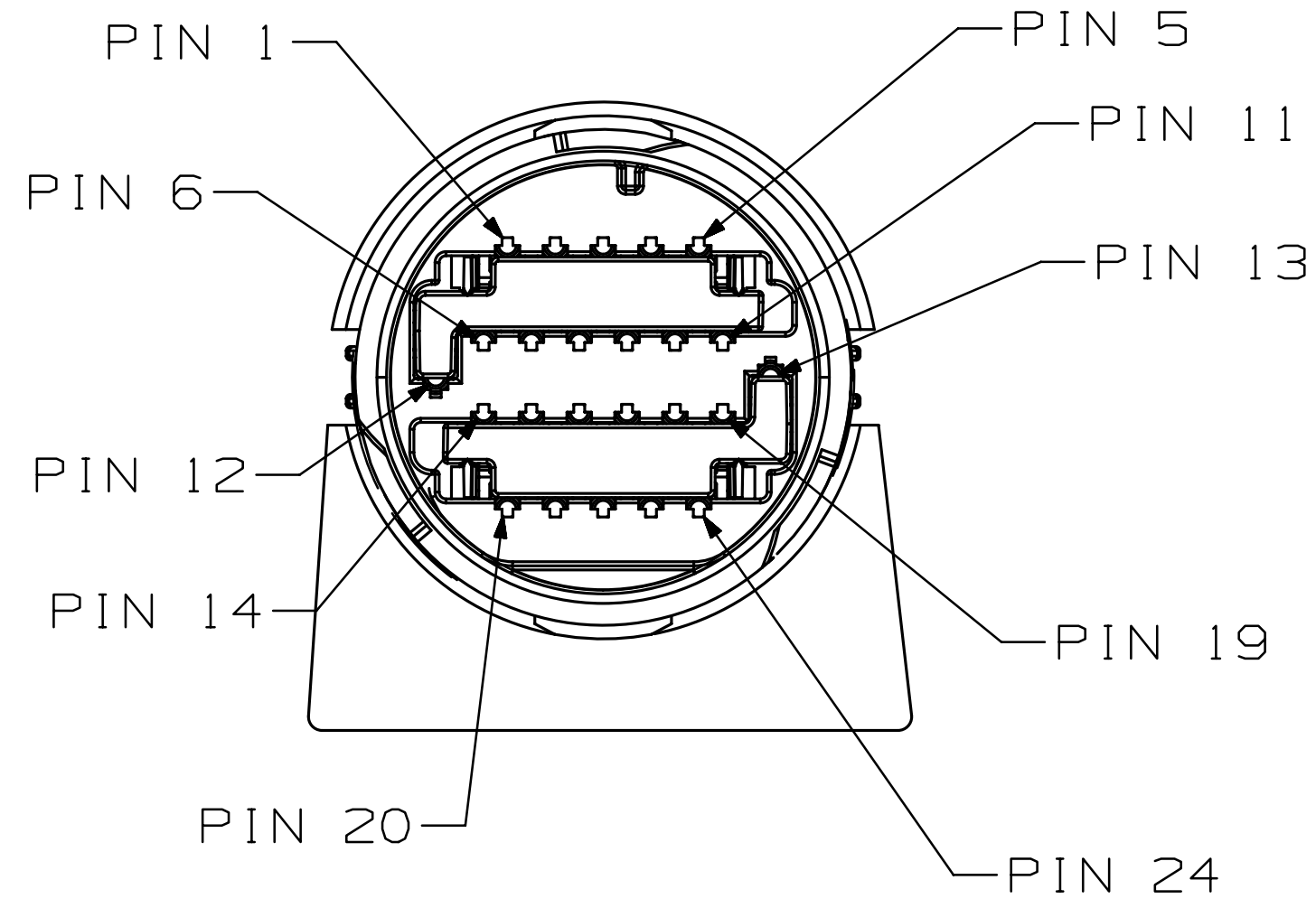


TRANSMISSION-MOUNTED CONNECTORS - 1000/2000/2900 PRODUCT FAMILIES

24-WAY MAIN TRANSMISSION CONNECTOR

COMPONENT REFERENCE: AS64-431

PIN LOCATIONS



1000/2000 PRODUCT FAMILIES ONLY

MANUFACTURER: AEES/EPC

CONNECTOR PART NO.: E-4574/R62002-001 (AEES/EPC)

TERMINAL TYPE: PIN

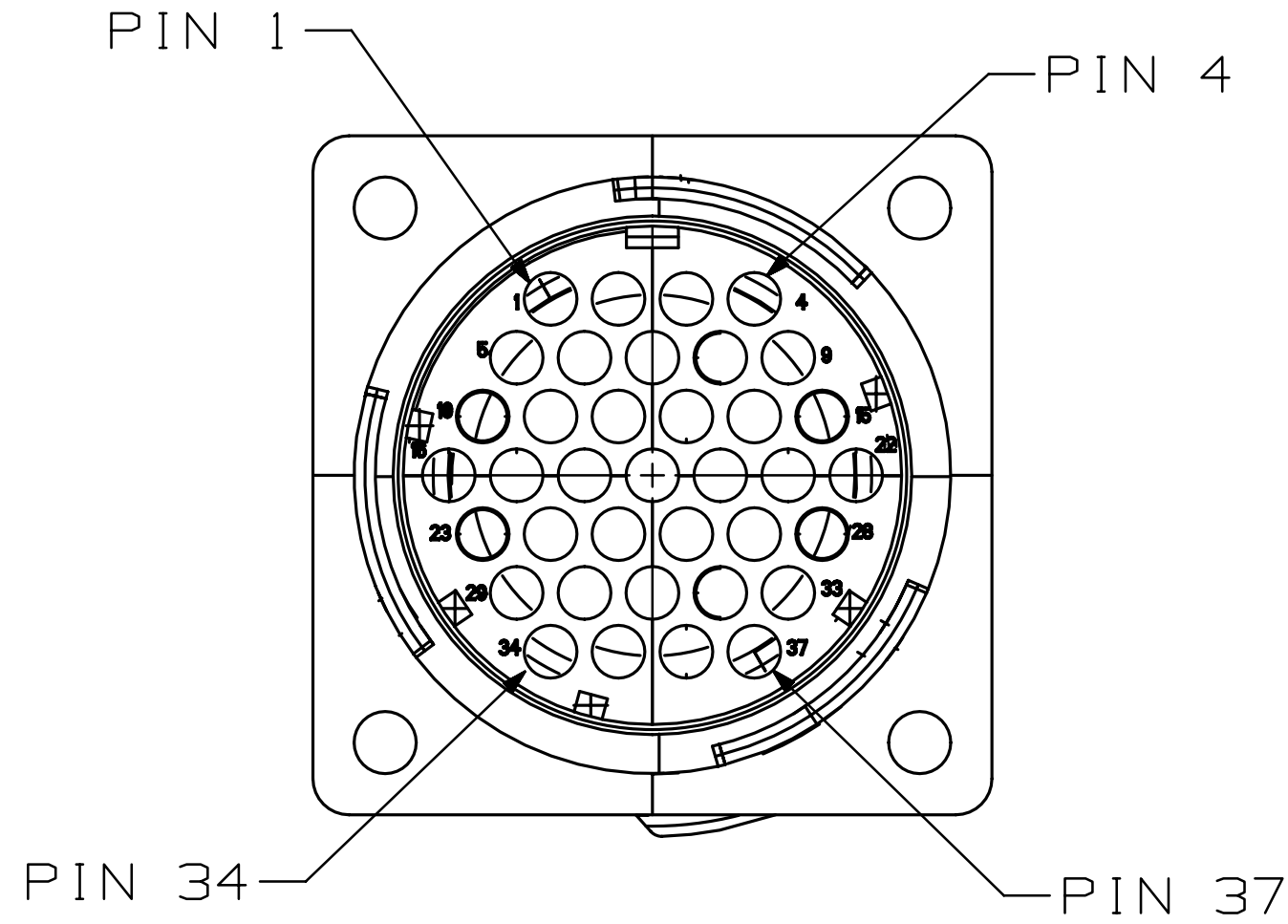
TERMINAL PART NO.: 330011-0004 (MOLEX)

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

37-WAY EUROPEAN TRANSMISSION COMPANION HARNESS CONNECTOR

COMPONENT REFERENCE: AS07-431

PIN LOCATIONS



MANUFACTURER: ITT INDUSTRIES, CANNON

CONNECTOR PART NO.: 248-8653-026

TERMINAL TYPE: PIN

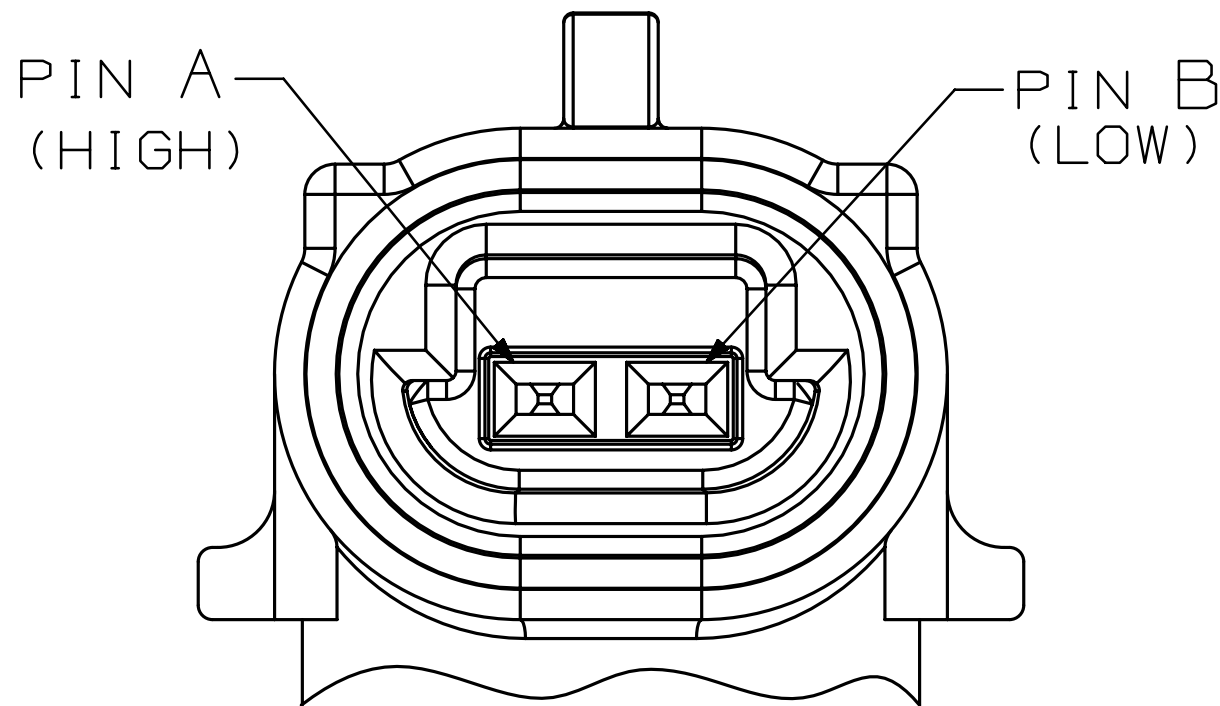
TERMINAL PART NO.: 121668-0267

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

ENGINE SPEED SENSOR
TURBINE SPEED SENSOR

COMPONENT REFERENCE: AS64-431

PIN LOCATIONS



MANUFACTURER: APTIV-DELPHI

CONNECTOR PART NO.: 12066016

TERMINAL TYPE: PIN

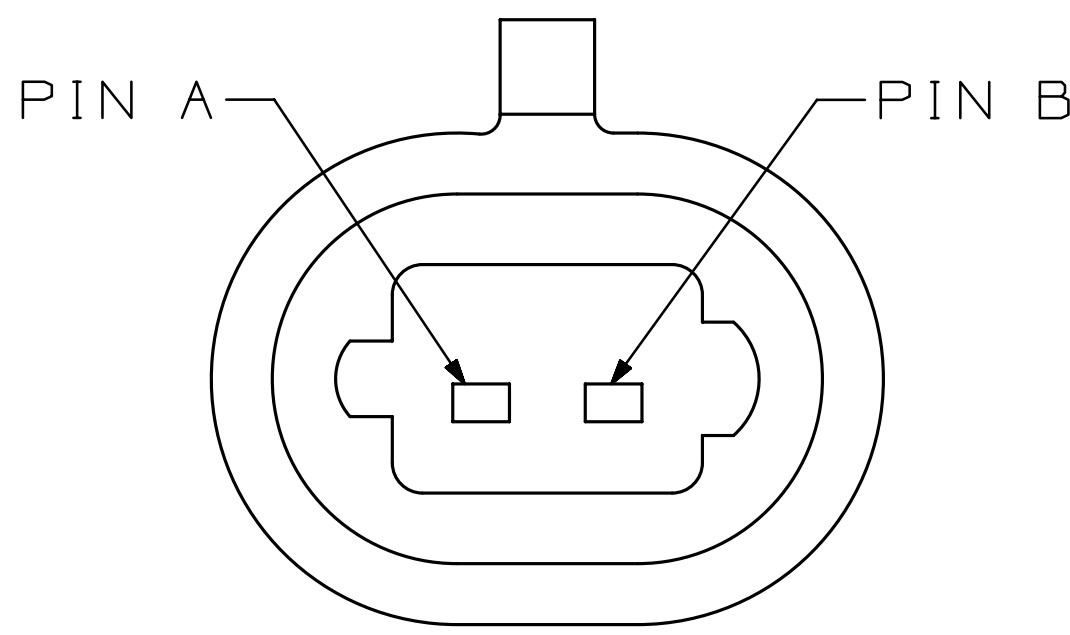
TERMINAL PART NO.: 12065952

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

OUTPUT SPEED SENSOR (HESS)

COMPONENT REFERENCES: AS64-431

PIN LOCATIONS



3000/4000 PRODUCT FAMILIES ONLY

MANUFACTURER: APTIV-DELPHI

CONNECTOR PART NO.: SIMILAR TO APTIV-DELPHI
PART NO. 12084669

TERMINAL TYPE: PIN

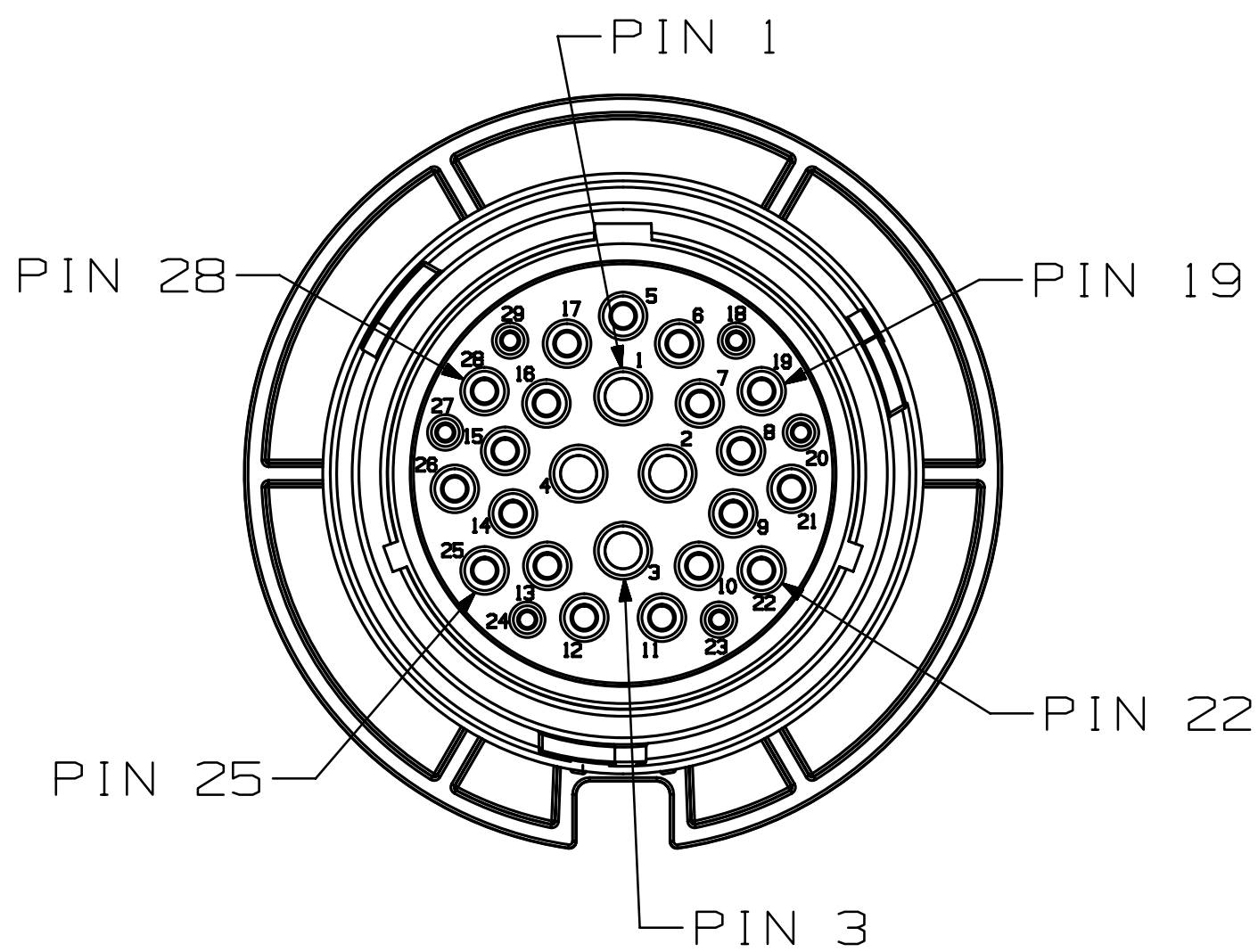
TERMINAL PART NO.: 12065952

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

29-WAY ELECTRICAL PASS-THRU CONNECTOR

COMPONENT REFERENCE: AS64-931

PIN LOCATIONS



2900 PRODUCT FAMILIES ONLY

MANUFACTURER: APTIV-DELPHI

CONNECTOR PART NO.: 35490841

TERMINAL TYPE: PIN

TERMINAL PART NO.: 13711543, 13697411, 13783282

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

REFER TO TECHNICAL DOCUMENT NO. 173 (TD173) FOR MATING CONNECTOR P/N INFORMATION.

ALL VIEWS SHOW ALLISON COMPONENTS, AS VIEWED FROM THE MATING CONNECTOR SIDE.

CONNECTORS ON OEM HARNESS MUST MATE TO THE VARIOUS CONFIGURATIONS SHOWN.

ALLISON 6th GENERATION CONTROLS		A (1) ADDED 29-WAY CONNECTOR CHART (2) REVISED MANUFACTURER "APTIV-DELPHI" WAS "APTIV" (3) ADDED "1K/2K PRODUCT FAMILIES ONLY" TO 24-WAY CONNECTOR (4) ADDED "2900 PRODUCT FAMILIES ONLY" TO 29-WAY CONNECTOR (5,6) SEE SHEET 3	
CURRENT CHG LETTER SHEET 2 - SHEET 3 A		FR2	REV
SPECIFIED DIMENSIONS HAVE PRECEDENCE OVER COMPUTER GENERATED DATA		DATE 260C21 CHECKED K. SPEER DATE 290C21 APPROVED J. JOHNSON DATE 290C21 PROJ. ENGR. J. CHAILLE DATE 290C21 APPL. ENGR. T. BROWN DATE 290C21	
CHANGE RESTRICTED		DESCRIPTION INSTL DWG, CONNECTOR - 6TH GEN	
NX		18MY22 RH/JC DATE DWNCHK	
METRIC		THIRD ANGLE	
THE INFORMATION CONTAINED HEREIN IS PROPRIETARY AND THE PROPERTY OF ALLISON TRANSMISSION, INC AND MAY NOT BE REPRODUCED, DISCLOSED OR USED FOR ANY PURPOSE OTHER THAN A QUOTATION TO OR ON ORDER FROM ALLISON TRANSMISSION, INC WITHOUT THE SPECIFIC WRITTEN AUTHORIZATION OF ALLISON TRANSMISSION, INC.		MODEL ALLISON 6TH GENERATION CONTROLS SIZE CAGE CODE DWG NO R 73342 AS07-605 SCALE 1/1 SHEET 1 OF 3	

FR1 DWG. NO. AS07-605

LTR SH A 1

CURRENT STATUS: RX-Released - EXP

AS07-605

TRANSMISSION-MOUNTED CONNECTORS - 3000/4000 PRODUCT FAMILIES

20 - WAY MAIN TRANSMISSION CONNECTOR

COMPONENT REFERENCES: AS66-431
AS67-431

PIN LOCATIONS

PIN 1, PIN 6, PIN 7, PIN 10, PIN 11, PIN 14, PIN 15, PIN 20

MANUFACTURER: AEES/EPC
CONNECTOR PART NO.: E-4593/R-62000
TERMINAL TYPE: PIN
TERMINAL PART NO.: INTEGRAL TO CONNECTOR

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

ENGINE, TURBINE

COMPONENT REFERENCES: AS66-431
AS67-431

PIN LOCATIONS

PIN A (HIGH), PIN B (LOW)

MANUFACTURER: APTIV-DELPHI
CONNECTOR PART NO.: 12066016
TERMINAL TYPE: PIN
TERMINAL PART NO.: 12065952

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

OPTIONAL EBS PRESSURE TRANSDUCER

COMPONENT REFERENCES: AS66-406
AS67-406

PIN LOCATIONS

SUPPLY VOLTAGE, V OUT, GND

MANUFACTURER: GM POWERTAIN
CONNECTOR PART NO.: INTEGRAL TO PRESSURE TRANSDUCER SIMILAR TO APTIV 15336119

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

37-WAY EUROPEAN TRANSMISSION COMPANION HARNESS CONNECTOR

COMPONENT REFERENCE: AS07-431

PIN LOCATIONS

PIN 1, PIN 4, PIN 34, PIN 37

MANUFACTURER: ITT INDUSTRIES, CANNON
CONNECTOR PART NO.: 248-8653-026
TERMINAL TYPE: PIN
TERMINAL PART NO.: 121668-0267

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

OUTPUT SPEED SENSOR (HESS)
RETARDER ACCUMULATOR - AIR SOLENOID CONNECTOR

COMPONENT REFERENCES: AS66-406
AS67-406

PIN LOCATIONS

PIN A, PIN B

3000/4000 PRODUCT FAMILIES ONLY

MANUFACTURER: APTIV-DELPHI
CONNECTOR PART NO.: SIMILAR TO APTIV-DELPHI PART NO. 12084669
TERMINAL TYPE: PIN
TERMINAL PART NO.: 12065952

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

RETARDER VALVE BODY CONNECTOR

COMPONENT REFERENCES: AS66-431
AS67-431

PIN LOCATIONS

PIN A, PIN B

MANUFACTURER: AEES/EPC
CONNECTOR PART NO.: 12084669
TERMINAL TYPE: PIN
TERMINAL PART NO.: 12065952

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

RETARDER TEMPERATURE SENSOR CONNECTOR

COMPONENT REFERENCES: AS66-431
AS67-431

PIN LOCATIONS

PIN A (HIGH), PIN B (LOW)

MANUFACTURER: APTIV-DELPHI
CONNECTOR PART NO.: SIMILAR TO APTIV-DELPHI PART NO. 15326309
TERMINAL TYPE: PIN
TERMINAL PART NO.:

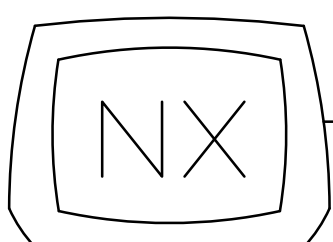
ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY THE VEHICLE BUILDER

REFER TO TECHNICAL DOCUMENT NO. 173 (TD173) FOR MATING CONNECTOR P/N INFORMATION.

ALL VIEWS SHOW ALLISON COMPONENTS, AS VIEWED FROM MATING CONNECTOR SIDE.

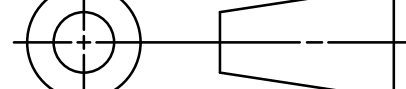
CONNECTORS ON OEM HARNESS MUST MATE TO THE VARIOUS CONFIGURATIONS SHOWN.

ALLISON 6th
GENERATION
CONTROLS



METRIC

THIRD ANGLE



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FR2

REV	DESCRIPTION	DATE	CHK
DATE 260C21	DRAWN R. HIGGINS		
CHECKED K. SPEER			
DATE 290C21	CHANGE RESTRICTED		
APPROVED J. JOHNSON			
DATE 290C21			
PROJ. ENGR. J. CHAILLE			
DATE 290C21			
APPL. ENGR. T. BROWN			
DATE 290C21			

ALLISON Transmission
Indianapolis, Indiana, USA

INSTL DWG, CONNECTOR - 6TH
GEN

MODEL ALLISON 6TH GENERATION CONTROLS

SIZE CAGE CODE DWG NO
R 73342 AS07-605

CURRENT STATUS:
RX-Released - EXP

FR1

DWG. NO.
AS07-605

LTR

SH

A

2

SHEET 2 OF 3

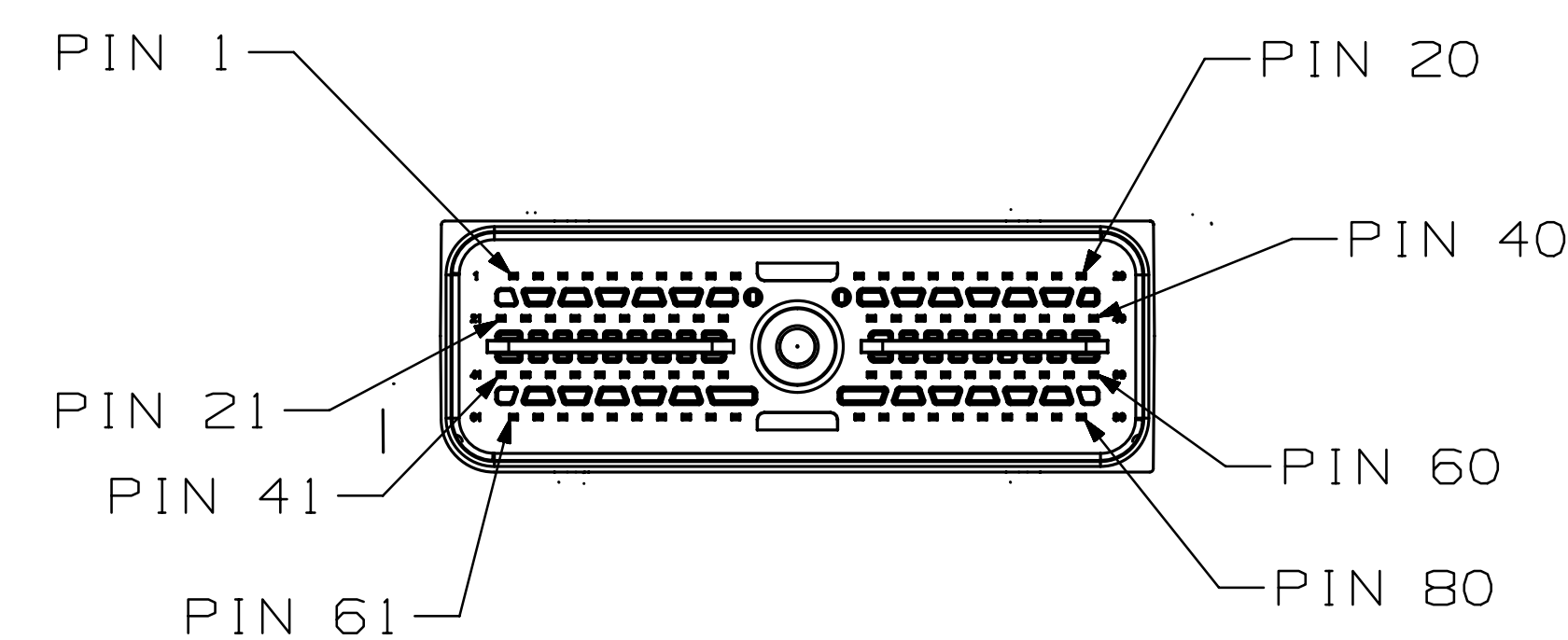
DWG NO
AS07-605

CONNECTORS FOR CONTROLS COMPONENTS AND REMOTE-MOUNTED COMPONENTS

CHASSIS-MOUNTED TRANSMISSION CONTROL MODULE (TCM) CONNECTOR

COMPONENT REFERENCE: AS07-512

PIN LOCATIONS



1000/2000/2900/3000/4000 PRODUCT FAMILIES

MANUFACTURER: AEES/EPC

CONNECTOR PART NO.: INTEGRAL TO TCM

TERMINAL TYPE: PIN

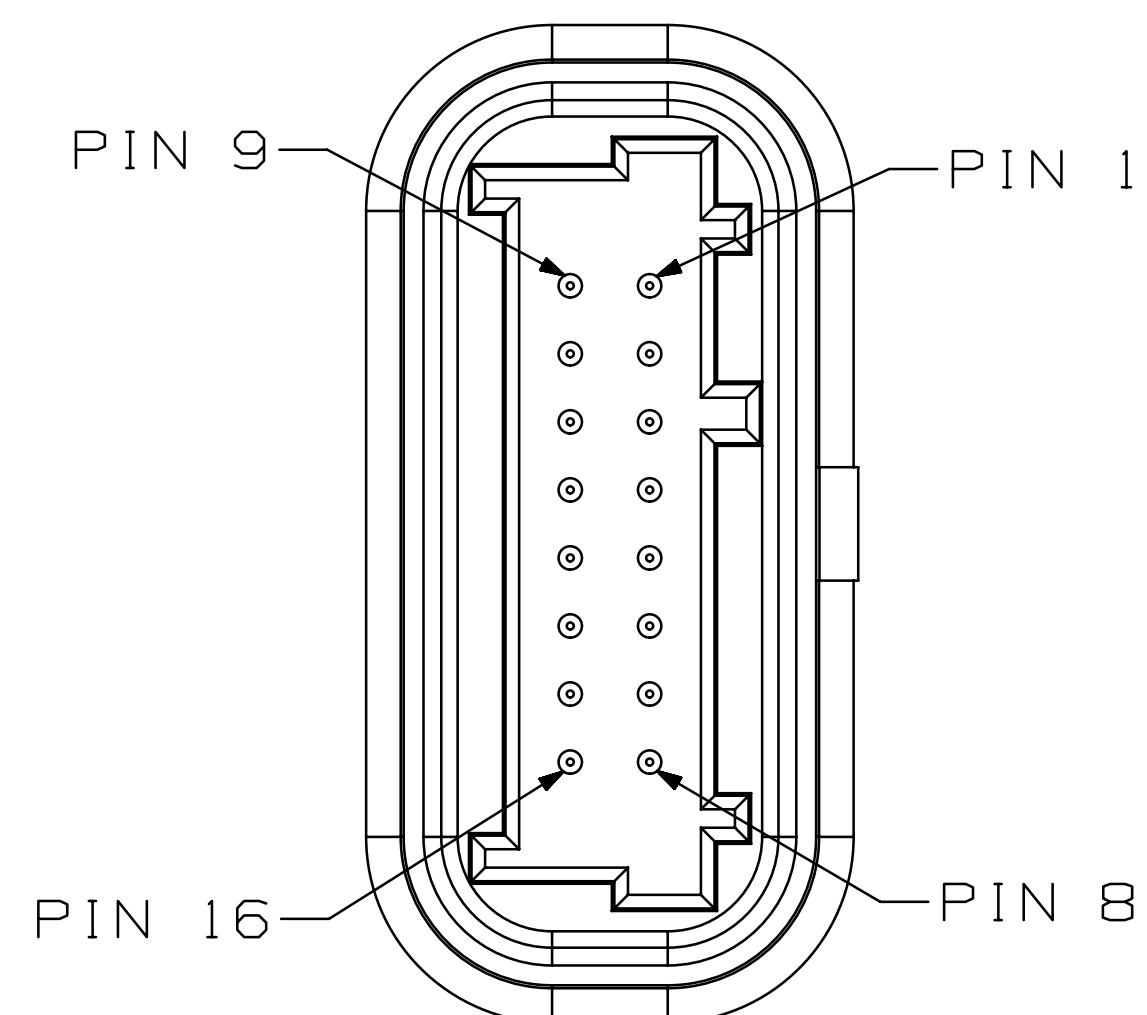
TERMINAL PART NO.: SD-33012-001

ALL MATING PARTS ARE SUPPLIED AND INSTALLED
BY THE VEHICLE BUILDER

ALLISON KEYPAD, STRIP PUSH-BUTTON AND LEVER
SHIFT SELECTORS

COMPONENT REFERENCE: AS07-517

PIN LOCATIONS



2900/3000/4000 PRODUCT FAMILIES AND TC10 ONLY

MANUFACTURER: ARENS CONTROLS CO. LLC

INTEGRAL TO SHIFT SELECTOR.
SIMILAR TO APTIV-DELPHI PART NO. 12191064.

TERMINAL TYPE: PIN

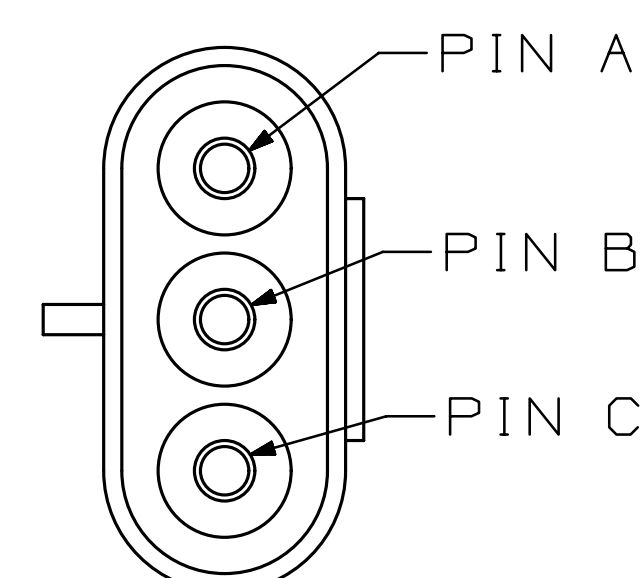
TERMINAL TYPE: PIN
TERMINAL PART NO.: 12092396

ALL MATING PARTS ARE SUPPLIED AND INSTALLED BY
THE VEHICLE BUILDER

RETARDER MODULE, RESISTANCE (RMR) CONNECTOR

COMPONENT REFERENCE: AS07-504

PIN LOCATIONS



3000/4000 PRODUCT FAMILIES ONLY

MANUFACTURER: APT IV-DELPHI

CONNECTOR PART NO.: 12015092 CONNECTOR,
12089444 SEAL

TERMINAL TYPE: SOCKET

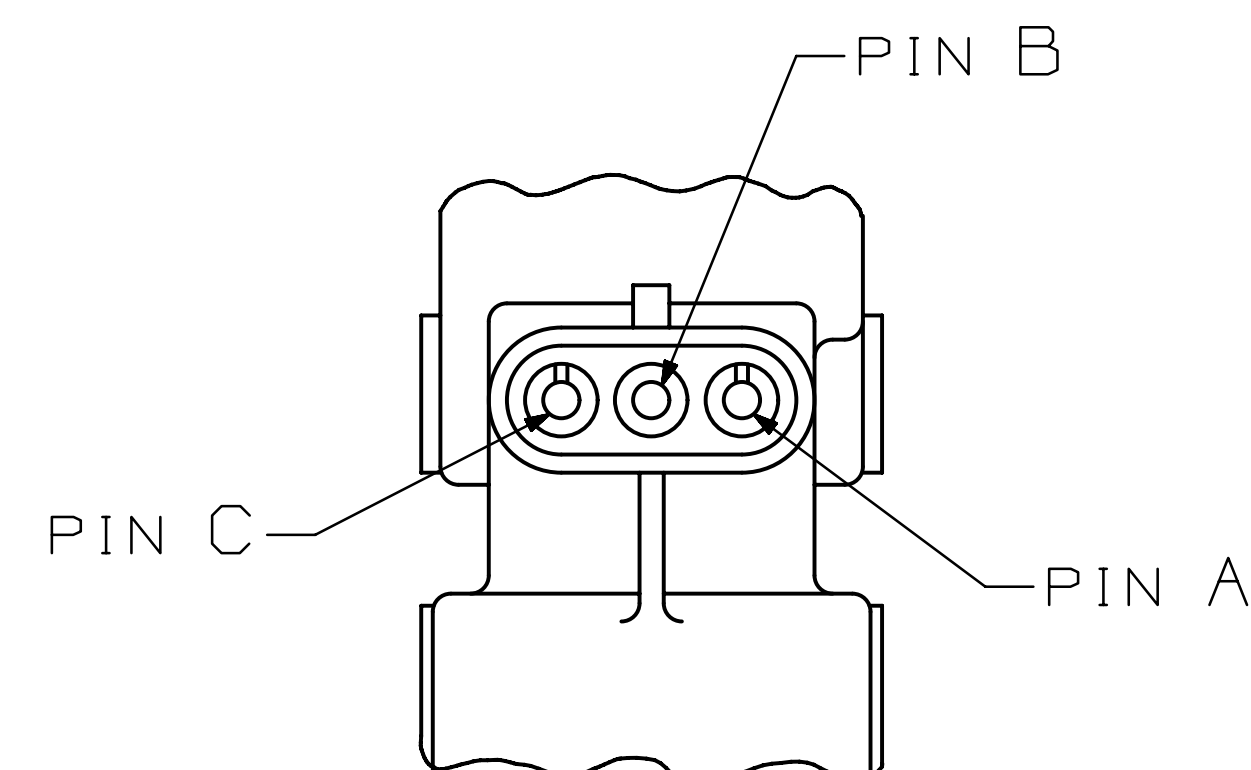
TERMINAL PART NO.: 12089188

ALL MATING PARTS ARE SUPPLIED AND INSTALLED
BY THE VEHICLE BUILDER

THROTTLE POSITION SENSOR (TPS) CONNECTOR

COMPONENT REFERENCE: AS07-551

PIN LOCATIONS



MANUFACTURER: APTIV-DELPHI

CONNECTOR PART NO.: SIMILAR TO
APTIV-DELPHI PART NO. 12010717

TERMINAL TYPE: SOCKET

TERMINAL PART NO.: 0462-201-16141

ALL MATING PARTS ARE SUPPLIED AND INSTALLED
BY THE VEHICLE BUILDER

FOR MATING CONNECTOR P/N INFORMATION, REFER TO:
-TECHNICAL DOCUMENT 173 (TD173) FOR 1000/2000/3000/4000 PRODUCT FAMILIES.

ALL VIEWS SHOW ALLISON COMPONENTS, AS VIEWED FROM
MATING CONNECTOR SIDE.

CONNECTORS ON OEM HARNESS MUST MATE TO THE VARIOUS CONFIGURATIONS SHOWN.

ALLISON 6TH GENERATION CONTROLS		A (5) ADDED "2900" TO PRODUCT FAMILIES USED FOR TCM (6) ADDED "2900" TO PRODUCT FAMILIES USED FOR SELECTORS		18MY22 DATE	RH-JC DINCH
NX		FR2		REVISION	
SPECIFIED DIMENSIONS HAVE PRECEDENCE OVER COMPUTER GENERATED DATA		DRAWN R. HIGGINS DATE 280C21		Allison Transmission. Indianapolis, Indiana, USA	
CHANGE RESTRICTED		CHECKED K. SPEER DATE 290C21		INSTL DWG, CONNECTOR - 6TH GEN	
METRIC		APPROVED J. JOHNSON DATE 290C21			
THIRD ANGLE		PROJ. ENGR. J. CHATLIE DATE 290C21			
		APPL. ENGR. T. BROWN DATE 290C21			
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SH 3		MODEL ALLISON 6TH GENERATION CONTROLS 572E CAGE CODE R 13312		DWG NO AS07-605	
		SCALE 1/4" = 1"		SHEET 3 OF 3	
CURRENT STATUS: RX-Released - EXP					